

H

HAA300 **CAS: 35278-53-6** **HR: D**
H-1075

mf: $C_{30}H_{35}NO_3 \cdot ClH$ mw: 494.12
SYNS: trans-1-(2-(p-(1,2-BIS(p-METHOXYPHENYL)-1-BUTENYL)PHENOXY)ETHYL)PYRROLIDINE HYDROCHLORIDE □ trans-1,2-BIS(p-METHOXYPHENYL)-1-(p-(2-N-PYRROLIDINOETHOXY)PHENYL)BUT-1-ENE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat TDLo:15 µg/kg (1-3D preg):REP JRPFA4 34,23,73

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

HAA310 **CAS: 42824-34-0** **HR: D**
H-1286

mf: $C_{29}H_{35}NO_2 \cdot C_6H_8O_7$ mw: 621.79
SYN: 2-(p-(2-(p-METHOXYPHENYL)-1-PHENYL-1-BUTENYL)PHENOXY)TRIETHYLAMINE CITRATE

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .

HAA400 **CAS: 3963-80-2** **HR: D**
H ACID DISODIUM SALT

mf: $C_{10}H_7NO_7S_2 \cdot 2Na$ mw: 363.28
SYNS: DISODIUM 4-AMINO-5-HYDROXY-2,7-NAPHTHALENEDISULFONATE □ 2,7-NAPHTHALENEDISULFONIC ACID, 4-AMINO-5-HYDROXY, DISODIUM SALT

TOXICITY DATA with REFERENCE:

slt-mus-lym 25 mg/L FCTXAV 17,5,1979

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x .

HAB600 **HR: 3**
2,4-HADIYNYLENE CHLOROFORMATE

mf: $C_8H_4Cl_2O_4$ mw: 235.02
 $(ClCO \cdot OCH_2C \equiv C-)_2$

SAFETY PROFILE: Potentially explosive at 15°C/0.2 mbar. Upon decomposition it emits toxic fumes of Cl^- . See also ACETYLENE COMPOUNDS and CHLORIDES.

HAB700 **HR: 2**
HAEMOPHILIS INFLUENZAE, ENDOTOXIN,
hypertonic NaCl citrate extract

SYNS: hmi ENDOTOXIN, NaCl-citrate extract □ H. INFLUENZAE ENDOTOXIN, NaCl-citrate extract □ NCE of H. INFLUENZAE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:943 mg/kg MMIYAO 168,201,80

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

HAB710 **HR: 3**
HAEMOPHILIS INFLUENZAE, ENDOTOXIN,
phenol water extract

SYNS: hmi ENDOTOXIN, phenol water extract □ H. INFLUENZAE ENDOTOXIN, phenol water extract □ PWE of H. INFLUENZAE

TOXICITY DATA with REFERENCE:

dns-mus:Cells-uns 100 µg/L MMIYAO 168,201,80

ipr-mus LD50:47 mg/kg MMIYAO 168,201,80

SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HAC000 **CAS: 7440-58-6** **HR: 3**
HAFNIUM

DOT: UN 1326/UN 2545

af: Hf aw: 178.49

PROP: A silvery, ductile, lustrous metal. Resists extensive atmospheric corrosion because of oxide film. Not attacked by cold mineral acids (except HF) or alkalies. Mp: 2503°, bp: 4450°, d: 13.31 @ 20°. IDLH 50 mg/m³ (as Hf).

SYNS: HAFNIUM POWDER, dry (UN 2545) (DOT) □ HAFNIUM POWDER, wetted with not <25% water (UN 1326) (DOT) □ HAFNIUM, wet with not less than 25% water (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.5 mg/m³

ACGIH TLV: TWA 0.5 mg/m³

DFG MAK: 0.5 mg/m³

DOT CLASSIFICATION: 4.2; Label: Spontaneously Combustible (UN 2545); DOT Class: 4.1; Label: Flammable Solid (UN 1326)

SAFETY PROFILE: It is poorly soluble in water and thus is not absorbed efficiently by ingestion. Many hafnium compounds are poisons. A spontaneously combustible flammable solid and dangerous fire hazard. The powder ignites with friction, heat, sparks, or exposure to air. The damp powder burns explosively. The powder may self-explode. The powder can explode when heated with nitrogen, phosphorus, oxygen, sulfur, nonmetals, or halogens. May explode on contact with hot nitric acid and other oxidants.

HAC800 **CAS: 37230-84-5** **HR: 3**
HAFNIUM CHLORIDE
mf: Cl_4Hf mw: 320.3

PROP: White powder, no odor. Mp: 319°, decomposes in water.

SYN: HAFNIUM TETRACHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD 34ZIAG -,296,69

orl-rat LD50:2362 mg/kg 85GMAT -,71,82

ipr-mus LD50:135 mg/kg EQSSDX 1,1,75

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits toxic fumes of Cl⁻. See also HAFNIUM and CHLORIDES.

HAD000 CAS: 14456-34-9 HR: 2
HAFNIUM CHLORIDE OXIDE OCTAHYDRATE

mf: Cl₂HfO•8H₂O mw: 409.55

PROP: Colorless crystals.

SYN: HAFNIUM OXYCHLORIDE OCTAHYDRATE

TOXICITY DATA with REFERENCE:

idr-mus TDLo:800 µg/kg:ETA CNREA8 33,287,73

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. See also HAFNIUM and HAFNIUM OXYCHLORIDE. When heated to decomposition it emits very toxic fumes of Cl⁻.

HAD500 CAS: 13759-17-6 HR: 3
HAFNIUM OXYCHLORIDE

mf: Cl₂HfO mw: 265.39

PROP: Colorless solid.

SYN: HAFNIUM CHLORIDE OXIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:112 mg/kg TXAPA9 4,238,62

ivn-cat LDLo:10 mg/kg TXAPA9 4,238,62

ipr-rbt LD50:112 mg/kg FEPA7 19,389,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous and intraperitoneal routes. See also HAFNIUM. When heated to decomposition it emits very toxic fumes of Cl⁻.

HAE000 CAS: 25869-93-6 HR: 1
HAFNIUM(IV) TETRAHYDROBORATE

mf: B₄H₁₆Hf mw: 237.85

SAFETY PROFILE: Violent reaction upon exposure to air. See also HAFNIUM and BORON COMPOUNDS.

HAE500 CAS: 12116-66-4 HR: 3
HAFNOCENE DICHLORIDE

mf: C₁₀H₁₀Cl₂Hf mw: 379.59

PROP: Colorless solid. Mp: 234–235°, bp: 155° @ 0.01 mm.

SYNS: DICHLOROBIS(eta-CYCLOPENTADIENYL)HAFNIUM □ DICHLORODICYCLOPENTADIENYLHAFNIUM □ DICHLORO-DI-pi-CYCLOPENTADIENYLHAFNIUM □ DICYCLOPENTADIENYLHAFNIUM DICHLORIDE □ HAFNIUM DICYCLOPENTADIENE DICHLORIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#04787

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous route. See also HAFNIUM. When heated to decomposition it emits very toxic fumes such as Cl⁻.

HAF000 CAS: 80-13-7 HR: 3
HALAZONE

mf: C₇H₅Cl₂NO₄S mw: 270.09

PROP: Crystals or white powder; odor of chlorine. Decomp about 195°. Sltly sol in water, chloroform; sol in glacial acetic acid and in some solns of alkali, hydroxides, and of alkali carbonates with the formation of a salt.

SYNS: p-CARBOXYBENZENESULFONDICHLOROAMIDE □ p-DICHLOROSULFAMOYL BENZOIC ACID □ p-(N,N-DICHLOROSULFAMYL) BENZOIC ACID □ PANTOCID □ PARASULFONDICHLORAMIDO BENZOIC ACID □ p-SULFONDICHLORAMIDOBENZOIC ACID

TOXICITY DATA with REFERENCE:

mma-sat 6666 µg/plate ENMUDM 8(Suppl 7),1,86

orl-rat LDLo:3500 mg/kg MEIEDD 10,661,83

ivn-rat LDLo:300 mg/kg PHRPA6 59,541,44

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Cl⁻, NO_x, and SO_x.

HAF300 CAS: 3093-35-4 HR: 3
HALCIDERM

mf: C₂₄H₃₂ClFO₅ mw: 455.01

PROP: Crystals from Me₂CO/hexane. Mp: 276°. Sol in acetone, chloroform, DMSO; sltly sol in benzene, ethanol, ethyl ether, and methanol; insol in water, HCl, NaOH, and hexanes.

SYNS: 21-CHLORO-9-FLUORO-11-β,16-α-17-TRIHIDROXY-PREGN-4-ENE-3,20-DIONE cyclic 16,17-ACETAL with ACETONE □ HALCIMAT □ HALCINONIDE □ HALCORT □ HALOG □ SQ-18,566

TOXICITY DATA with REFERENCE:

dni-mus:oth 1 nmol/L ARZNAD 36,1782,86

ipr-rat LD50:39,800 µg/kg IYKEDH 13,349,82

scu-rat LD50:95,500 µg/kg IYKEDH 13,349,82

ipr-mus LD50:150 mg/kg PBPSDY 1,215,77

scu-mus LD50:409 mg/kg IYKEDH 13,349,82

SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of F⁻ and Cl⁻.

HAF375 CAS: 12298-43-0 HR: 1
HALLOYSITE

PROP: White to gray or brown solid.

TOXICITY DATA with REFERENCE:

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

SAFETY PROFILE: Suspected carcinogen with experimental tumorigenic data.

HAF400 CAS: 1480-19-9 HR: 3
HALOANISONE

mf: C₂₁H₂₅FN₂O₂ mw: 356.48

PROP: Crystals. Mp: 67.5–68.5°. Sol in chloroform; sparingly sol in methanol; sltly sol in ether. Practically insol in water.

SYNS: ANTI-PICA □ FLUANISON □ FLUANISONE □ 4'-FLUORO-4-(4-(6-METHOXYPHENYL)-1-PIPERAZINYL)-BUTYROPHENONE □ HALONISON □ HYPNORM □ MD 2028 □ 2028 MD □ 4-(4-(6-METHOXYPHENYL)-1-PIPERAZINYL)-p-FLUOROBUTYROPHENONE □ R 2028 □ R 2167 □ SEDALANDE □ SEDAVIC □ SOLUSEDIV 2%

TOXICITY DATA with REFERENCE:

orl-rat TDLo:132 mg/kg (15D preg):TER PJPPAA 32,199,80

scu-rat LD50:420 mg/kg MDCHAG 4(2),199,67

orl-mus LD50:550 mg/kg APPHAX 40,159,83

ipr-mus LD50:200 mg/kg FRPSAX 35,605,80

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. An experimental teratogen. When heated to decomposition it emits toxic fumes of F⁻ and NO_x.

HAF500 CAS: 36167-63-2 HR: 2 HALOFANTRINE HYDROCHLORIDE

mf: C₂₆H₃₀Cl₂F₃NO•ClH mw: 536.93

PROP: A solid. Mp: 93–96°.

SYNS: 1,3-DICHLORO-6-TRIFLUOROMETHYL-9-(3-(DIBUTYLAMINO)-1-HYDROXYPROPYL)PHENANTHRENE HCl □ 1-(1,3-DICHLORO-6-TRIFLUOROMETHYL-9-PHENANTHRYL)-3-(DI-N-BUTYLAMINO)PROPANOL HYDROCHLORIDE □ HALOFANTRINO (SPANISH) □ WR-171,669

TOXICITY DATA with REFERENCE:

orl-man TDLo:18 mg/kg/D:GIT DRFUD4 5,547,80

orl-rat LD50:3400 mg/kg ACTRAQ 37,232,80

ipr-rat LD50:2050 mg/kg ACTRAQ 37,232,80

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Human systemic effects by ingestion: nausea or vomiting and other gastrointestinal effects. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of F⁻, NO_x, and HCl.

HAF600 HR: D HALOFUGINONE HYDROBROMIDE

mf: C₁₆H₁₈Br₂ClN₃O₃ mw: 495.612

PROP: Crystals.

SYNS: 7-BROMO-6-CHLOROFEBRIFUGINE HYDROBROMIDE □ 7-BROMO-6-CHLORO-3-[3-(3-HYDROXY-2-PIPERIDINYL)-2-OXOPROPYL]-4(3H)-QUINAZOLINONE HYDROBROMIDE

SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

HAF825 HR: 2 HALOMICIN

PROP: Produced by *Micromonospora halophytica* sp. nov.

NRRL 2998 and *Micromonospora halophytica* var. nov. NIGRA NRRL 3097 (85ERAY 1,274,78).

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1259 mg/kg AACHAX -,435,67

scu-mus LD50:5650 mg/kg 85ERAY 1,274,78

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by subcutaneous route. When heated to decomposition it emits acrid smoke and fumes.

HAG300 CAS: 74050-97-8 HR: 3 HALOPERIDOL DECANOATE

mf: C₃₁H₄₁ClFNO₃ mw: 530.11

PROP: Mp: 148–149°, pH3.0-3.8. Sol in water: 0.01mg/mL.

SYNS: DECANOIC ACID-4-(4-CHLOROPHENYL)-1-(4-(4-FLUOROPHENYL)-4-OXYBUTYL)-4-PIPERIDINYL ESTER □ KD-136

TOXICITY DATA with REFERENCE:

ivn-wmn TDLo:11,600 µg/kg/4D-I:CVS AIMEAS 119,391,93

orl-rat LD50:1717 mg/kg KSRNAM 19,6731,85

ipr-rat LD50:328 mg/kg KSRNAM 19,6731,85

scu-rat LD50:780 mg/kg KSRNAM 19,6731,85

orl-mus LD50:739 mg/kg KSRNAM 19,6731,85

ipr-mus LD50:288 mg/kg KSRNAM 19,6731,85

scu-mus LD50:1990 mg/kg KSRNAM 19,6731,85

ims-mus LDLo:2550 mg/kg KSRNAM 19,6731,85

ims-dog LDLo:1 g/kg KSRNAM 19,6731,85

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion, subcutaneous, and intramuscular routes. An experimental teratogen. Other experimental reproductive effects. Human systemic effects: arrhythmias, EKG changes, heart rate changes. When heated to decomposition it emits toxic fumes of F⁻, Cl⁻, and NO_x.

HAG325 CAS: 57781-14-3 HR: 1 HALOPREDONE ACETATE

mf: C₂₅H₂₉BrF₂O₇ mw: 559.45

PROP: Crystals from C₆H₆. Mp: 290–292° (decomp).

SYNS: 17,21-BIS(ACETYLOXY)-2-BROMO-6-β,9-DIFLUORO-11-β-HYDROXYPREGNA-1,4-DIEN-3,20-DIONE □ THS-201 □ TOPICON

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg DRUGAY -,839,90

SAFETY PROFILE: Low toxicity by ingestion. An experimental teratogen. Experimental reproductive effects. A steroid. When heated to decomposition it emits toxic fumes of F⁻ and Br⁻.

HAG500 CAS: 151-67-7 HR: 3 HALOTHANE

mf: C₂HBrClF₃ mw: 197.39

PROP: Nonflammable, highly volatile liquid; characteristic sweetish, not unpleasant odor. D: 1.86 @ 20°/4°, bp: 50.2°, 20° @ 243 mm. Sensitive to light. Misc with pet ether, other fat solvents; sltly sol in water.

SYNS: BROMOCHLOROTRIFLUOROETHANE □ 2-BROMO-2-CHLORO-1,1,1-TRIFLUOROETHANE □ CHALOTHANE □ FLUOROTANE □ FLUOTHANE □ FTOROTAN (RUSSIAN) □ HALOTAN □ HALSAN □ NARCOTANE □ NARCOTANN NE-SPOFA (RUSSIAN) □ 1,1,1-TRIFLUORO-2-BROMO-2-CHLOROETHANE □ 1,1,1-TRIFLUORO-2-CHLORO-2-BROMOETHANE □ 2,2,2-TRIFLUORO-1-CHLORO-1-BROMOETHANE

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg SEV FEPA7 35,729,76

sln-dmg-ihl 1 pph/1H ANESAV 62,305,85

cyt-hmn:lym 1 pph/48H-C NSMZDZ 7,19,79

dns-rat-orl 10 g/kg JTEHD6 10,327,82

ihl-hmn LCLo:7000 ppm/3H:LIV,GIT,MET ANESAV 24,29,63

ivn-man LDLo:129 mg/kg; CNS, CVS, PUL LANCAO 1,340,82

orl-rat LD50:5680 mg/kg GTPZAB 24(3),36,80

ihl-rat LC50:29,000 ppm FATOAO 25,143,62

ihl-mus LC50:22,000 ppm/10M JPETAB 86,197,46

orl-gpg LD50:6000 mg/kg GTPZAB 24(3),36,80

CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 7,93,87. EPA Genetic Toxicology Program.

ACGIH TLV: TWA 50 ppm; Not Classifiable as a Human Carcinogen

DFG MAK: 5 ppm (41 mg/m³); BAT: 250 µg/dL of trifluoroacetic acid in blood at end of shift

NIOSH REL: (Waste Anesthetic Gases and Vapors) CL 2 ppm/1H

SAFETY PROFILE: A human poison by intravenous route. Human systemic effects by intravenous route: general anesthetic, heart rate change, cyanosis; by inhalation: hepatitis, nausea, fever. An experimental teratogen. Other experimental reproductive effects. A severe eye irritant. Questionable carcinogen. Human mutation data reported. Used as a clinical anesthetic. When heated to decomposition it emits very toxic fumes of F⁻, Cl⁻, and Br⁻. See also CHLORINATED HYDROCARBONS, ALIPHATIC; BROMIDES; and FLUORIDES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #29.

HAG800 CAS: 59128-97-1 HR: 2 HALOXAZOLAM

mf: C₁₇H₁₄BrFN₂O₂ mw: 377.24

PROP: Colorless crystals. Mp: 185°. Sparingly sol in water.

SYNS: 10-BROMO-11b-(2-FLUOROPHENYL)-2,3,7,11b-TETRAHYDROOXAZOLO(3,2-d)(1,4)BENZODIAZEPIN-6(5H)-ONE □ CS-430 □ SOMELEN

TOXICITY DATA with REFERENCE:

orl-rat LD50:2858 mg/kg SKKNAJ 27,64,75

orl-mus LD50:1413 mg/kg SKKNAJ 27,64,75

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of F⁻, Br⁻, and NO_x. An experimental teratogen. A sedative and hypnotic agent. Note: This is a controlled substance (depressant) listed in the U.S. Code of Federal Regulations, Title 21 Part 1308.14 (1985). See also DIAZEPAM.

HAG850 CAS: 87237-48-7 HR: 2 HALOXYFOP-(2-ETHOXYETHYL)

mf: C₁₉H₁₉ClF₃NO₅ mw: 433.84

SYNS: DOWCO 453EE □ GALLANT □ HALOXYFOP-ETOTYL □ PROPANOIC ACID,2-(4-((3-CHLORO-5-(TRIFLUOROMETHYL)-2-PYRIDINYL)OXY)PHENOXY)-, 2-ETHOXYETHYL ESTER □ ZELLEK

TOXICITY DATA with REFERENCE:

orl-rat LD50:518 mg/kg PEMNDP 9,463,1991

skn-rat LD50:>2 g/kg PEMNDP 9,463,1991

skn-rbt LD50:>5 g/kg PEMNDP 9,463,1991

orl-dck LD50:>2150 mg/kg PEMNDP 9,463,1991

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. Experimental reproductive

effects. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Cl⁻.

HAG860 CAS: 69806-40-2 HR: 3 HALOXYFOP-METHYL

mf: C₁₆H₁₃ClF₃NO₄ mw: 375.75

PROP: Colorless crystals. Mp: 55–57°. Sol in water: 9.3 mg/L.

SYNS: 2-(4-((3-CHLORO-5-(TRIFLUOROMETHYL)-2-PYRIDINYL)OXY)PHENOXY)PROPANOIC ACID METHYL ESTER □ DOWCO 453ME □ PROPANOIC ACID,2-(4-((3-CHLORO-5-(TRIFLUOROMETHYL)-2-PYRIDINYL)OXY)-PHENOXY)-, METHYL ESTER □ VERDICT

TOXICITY DATA with REFERENCE:

orl-rat LD50:393 mg/kg PEMNDP 9,463,1991

skn-rbt LD50:>5 g/kg PEMNDP 9,463,1991

SAFETY PROFILE: A poison by ingestion. Low toxicity by skin contact. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Cl⁻.

HAH000 CAS: 13382-33-7 HR: 3 HALVISOL

mf: C₂₁H₂₇FN₂O₂ mw: 358.50

SYNS: ANISOPIROL □ (±)-α-(p-FLUOROPHENYL)-4-(o-METHOXYPHENYL)-1-PIPERAZINEBUTANOL □ dl-1-(4-FLUOROPHENYL)-4-(1-(4-(2-METHOXY-PHENYL))-PIPERAZINYL)BUTANOL

TOXICITY DATA with REFERENCE:

scu-rat LD50:250 mg/kg 27ZQAG -,204,72

ivn-rat LD50:17 mg/kg 27ZQAG -,204,72

ivn-mus LD50:17 mg/kg 27ZQAG -,204,72

SAFETY PROFILE: A poison by subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x.

HAH800 CAS: 1403-71-0 HR: 3 HAMYCIN

PROP: Polyene antibiotic complex produced by *Streptomyces pimprina*. Yellow, amorph powder; decomp @ 160°. Almost insol in water, benzene, chloroform, dry lower aliphatic alcs, ether; sol in basic solvents such as pyridine, collidine, and in aq lower alcs.

SYN: PRIMAMYCIN

TOXICITY DATA with REFERENCE:

orl-mus LD50:1200 mg/kg 85GDA2 2,258,80

ivn-rat LDLo:1 mg/kg APFRAD 23,585,65

orl-mus LD50:1200 mg/kg 85GDA2 2,258,80

ipr-mus LD50:100 µg/kg IJSIDW 52,227,90

ivn-mus LD50:150 µg/kg IJSIDW 52,227,90

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion.

HAH900 CAS: 9087-69-8 HR: 2 HAPTOGLOBINS

TOXICITY DATA with REFERENCE:

ivn-rat LD50:6565 units/kg KSRNAM 14,2792,80

ivn-mus LD50:7348 units/kg KSRNAM 14,2792,80

SAFETY PROFILE: Toxic by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

HAI300 CAS: 6028-07-5 HR: 3**HARMALOL HYDROCHLORIDE**mf: $C_{12}H_{12}N_2O \cdot ClH$ mw: 236.72**PROP:** Mp: 260°.**SYN:** 4,9-DIHYDRO-1-METHYL-3H-PYRIDO(3,4-b)INDOL-7-OL MONOHYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:230 mg/kg QJPPAL 3,218,30
 scu-mus LDLo:380 mg/kg QJPPAL 3,218,30
 ivn-mus LD50:100 mg/kg CSLNX* NX#03207
 scu-rbt LDLo:300 mg/kg QJPPAL 3,218,30
 scu-gpg LDLo:300 mg/kg QJPPAL 3,218,30
 scu-frg LDLo:250 mg/kg QJPPAL 3,218,30

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.**HAI500 CAS: 442-51-3 HR: 3****HARMINE**mf: $C_{13}H_{12}N_2O$ mw: 212.27**PROP:** Crystals. Mp: 264–265°. An alkaloid isolated from *Banisteria caapi* sp., a South American narcotic agent (AEPPAE 129,133,28).**SYNS:** BANISTERINE □ LEUCOHARMINE □ 6-METHOXYHARMAN □ 7-METHOXY-1-METHYL-9H-PYRIDO(3,4-b)INDOLE □ 1-METHYL-7-METHOXY-β-CARBOLINE □ TELEPATHINE □ YAGEINE □ YAJEINE**TOXICITY DATA with REFERENCE:**

ims-man TDLo:3 mg/kg; CNS, GIT AEPPAE 129,133,28
 scu-mus LD50:243 mg/kg PCJOAU 10,1171,76
 ivn-mus LDLo:50 mg/kg AEPPAE 129,133,28
 ivn-rat LDLo:10 mg/kg AEPPAE 129,133,28
 scu-rbt LDLo:200 mg/kg AEPPAE 129,133,28
 ivn-rbt LDLo:60 mg/kg NEPHBW 10,15,71
 scu-gpg LDLo:100 mg/kg AEPPAE 129,133,28
 scu-frg LDLo:300 mg/kg QJPPAL 9,37,36

SAFETY PROFILE: Poison by intravenous and subcutaneous routes. Human systemic effects by intramuscular route: sleep disturbance, tremors, nausea. When heated to decomposition it emits toxic fumes of NO_x .**HAI600 CAS: 104931-87-5 HR: 3****HBK**mf: $C_{22}H_{44}N_6O_{10} \cdot xH_2O_4S$ mw: 1239.28**SYN:** d-STREPTAMINE, O-3-AMINO-3-DEOXY-α-d-GLUCOPYRANOSYL-(1-6)-O-(2,6-DIAMINO-2,3,4,6-TETRADEOXY-α-d-erythro-HEXOPYRANOSYL-(1-4))-N'-(4-AMINO-2-HYDROXY-1-OXOBUTYL)-2-DEOXY-, (S)-, SULFATE (salt)**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:150 mg/kg KSRNAM 20,7473,86
 ipr-mus LD50:540 mg/kg KSRNAM 20,7473,86
 scu-mus LD50:476 mg/kg KSRNAM 20,7473,86
 ivn-mus LD50:82,300 μg/kg KSRNAM 20,7473,86
 ims-mus LD50:372 mg/kg KSRNAM 20,7473,86
 ivn-dog LDLo:150 mg/kg KSRNAM 20,7587,86
 ims-dog LDLo:400 mg/kg KSRNAM 20,7587,86

SAFETY PROFILE: Poison by intravenous and intramuscular routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and SO_x .**HAI500 CAS: 34465-46-8 HR: 3****HCDD**mf: $C_{12}H_2Cl_6O_2$ mw: 390.84**PROP:** Colorless solid. Mp: 239°.**SYNS:** HEXACHLORODIBENZO-p-DIOXIN □ 1,2,3,6,7,8-HEXACHLORODIBENZO-p-DIOXIN**TOXICITY DATA with REFERENCE:**

eye-rbt 2 mg MOD EVHPAZ 5,87,73
 orl-rat LDLo:100 mg/kg ADCSAJ 120,55,73

CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 15,41,77.**SAFETY PROFILE:** A deadly poison by ingestion. An experimental teratogen. An eye irritant. Questionable carcinogen. When heated to decomposition it emits toxic fumes of Cl^- .**HAI700 CAS: 30007-39-7 HR: 3****HEAT**mf: $C_{19}H_{21}NO_2 \cdot ClH$ mw: 331.87**PROP:** Sol in water.**SYNS:** 3,4-DIHYDRO-2-(((p-HYDROXYPHENETHYL)AMINO)METHYL)-1(2H)-NAPHTH-ALENONE HYDROCHLORIDE □ 3,4-DIHYDRO-2-(((2-(4-HYDROXYPHENYL)ETHYL)AMINO)METHYL)-1(2H)-NAPHTHALENONE HYDROCHLORIDE □ 2-(β-(HYDROXYPHENYL)ETHYLAMINOMETHYL)TETRALONE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:650 mg/kg DRFUD4 7,231,82
 ivn-rat LD50:22,500 μg/kg DRFUD4 7,231,82
 orl-mus LD50:730 mg/kg DRFUD4 7,231,82
 ivn-mus LD50:33 mg/kg DRFUD4 7,231,82

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and HCl.**HAI750 CAS: 68553-00-4 HR: 2****#6 HEAVY FUEL OILS****PROP:** #6 Fuel oil, API gravity 5.2/1.2% S (52MLA2 1,1,83).**SYNS:** FUEL OIL, NO. 6 □ NO. 6 FUEL OIL**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD 52MLA2 1,1,83
 orl-rat LD50:5300 mg/kg JACTDZ 1,139,90
 skn-rbt LDLo:5200 mg/kg JACTDZ 1,139,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion and skin contact. A mild eye and skin irritant. Combustible when exposed to heat or flame. When heated to decomposition it emits toxic fumes.**HAK000 CAS: 7789-20-0 HR: D****HEAVY WATER**mf: D_2O mw: 20.02**PROP:** Colorless, odorless liquid. Mp: 3.81°, triple point temp: 3.82°, bp: 101.42°. Critical temp: 371.5°, d: 1.1044. Heat is evolved on mixing with normal water.**SYNS:** DEUTERIUM OXIDE □ DIDEUTERIUM OXIDE □ HEAVY WATER-d2 □ WATER-d2 (9CI) □ WATER²-H2**CONSENSUS REPORTS:** EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Experimental reproductive effects. See also WATER.

HAK050 CAS: 12035-71-1 HR: 3
HEAZLEWOODITE

mf: Ni_3S_2 mw: 240.25

PROP: Opaque trigonal - trapezohedral crystal with light bronze streak. D: 5.82.

SYN: KHIZLEVUDITE

CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 49,257,90.

SAFETY PROFILE: Confirmed carcinogen. When heated to decomposition it emits toxic vapors of SO_x and Ni.

HAK075 CAS: 27013-91-8 HR: 2
 α -HEDERINE

mf: $\text{C}_{41}\text{H}_{66}\text{O}_{12}$ mw: 751.07

SYNS: AKEBIA SAPONIN PD \square AKEBOSIDE STC \square GLYCOSIDE I-E1 \square α -HEDERIN \square HEDEROSIDE C \square HELIXIN \square KALOPANAXSAPONIN A \square KIZUTA SAPONIN K6 \square KORONAROSIDE A \square NEPALIN 2 \square OLEAN-12-EN-28-OIC ACID, 3-((2- α -(6-DEOXY- α -L-manNOPYRANOSYL)- α -L-ARABINOPYRANOSYL) OXY)-23-HYDROXY-, (3- β ,4- α)- \square PROSAPOGENIN CP3B \square PULSATILLA SAPONIN A \square SAPINDOSIDE A \square TAUROSIDE E

TOXICITY DATA with REFERENCE:

orl-mus LD50:>4 g/kg APFRAD 38,545,1980

ipr-mus LD50:1800 mg/kg APFRAD 38,545,1980

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HAK100 CAS: 24851-98-7 HR: 1
HEDIONE

mf: $\text{C}_{13}\text{H}_{22}\text{O}_3$ mw: 226.35

PROP: Jasmine-like odor.

SYNS: CYCLOPENTANEACETIC ACID, 3-OXO-2-PENTYL-, METHYL ESTER \square METHYL DIHYDROJASMONATE \square METHYL 3-OXO-2-PENTYLCYCLOPENTANEACETATE \square METHYL (2-PENTYL-3-OXOCYCLOPENTYL)ACETATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTOD7 30,858,92

skn-rbt LDLo:5 g/kg FCTOD7 30,858,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HAK200 HR: 3
HE-HK-52

mf: $\text{C}_{18}\text{H}_{23}\text{N}_2\text{OS}\cdot\text{Br}$ mw: 395.40

SYNS: 1-((DIPHENYLSULFOXIMIDO)METHYL)-1-METHYLPYRROLIDINIUM BROMIDE \square N-(N'-METHYLPYRROLIDINIUMMETHYL)-2,2-DIPHENYL SULFOXIMIDE BROMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:381 mg/kg DRFUD4 7,478,82

ivn-rat LD50:9 mg/kg DRFUD4 7,478,82

orl-mus LD50:331 mg/kg DRFUD4 7,478,82

ivn-mus LD50:8 mg/kg DRFUD4 7,478,82

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of Br, NO_x , and SO_x .

HAK300 CAS: 6754-13-8 HR: 3
HELENALIN

mf: $\text{C}_{15}\text{H}_{18}\text{O}_4$ mw: 262.33

PROP: Crystals from EtOH or C_6H_6 . Mp: 225–228°. Bitter, sternutative crystals from benzene. Mp: 167–168°. Sltly sol in water; sol in alc, chloroform, hot benzene.

TOXICITY DATA with REFERENCE:

dnr-bcs 1 mg/plate RCOCB8 34,161,81

dni-mus-unr 15 mg/kg/3D JMCMA 20,333,77

dni-mus:ast 2143 $\mu\text{mol/L}$ JPMSAE 67,1235,78

cyt-ham:ovr 780 ppb BSECBU 13,365,85

orl-mus LD50:150 mg/kg MEIEDD 10,668,83

ipr-mus LD50:10 mg/kg RCOCB8 28,189,80

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mutation data reported. Human Toxicity (Merck): Intensely poisonous, capable of causing paralysis of voluntary and cardiac musculature and fatal gastroenteritis. When heated to decomposition it emits toxic fumes.

HAK500 CAS: 8023-95-8 HR: 1
HELICHRYSUM OIL

PROP: The chief constituents are several diketones which possess powerful odors (FCTXAV 16,637,78).

SYNS: EVERLASTING FLOWER OIL \square IMMORTELLE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 17,821,79

orl-rat LD50:4400 mg/kg FCTXAV 17,821,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. A mild skin irritant. When heated to decomposition it emits acrid smoke. See also KETONES.

HAL000 CAS: 20004-62-0 HR: 3
HELIOMYCIN

mf: $\text{C}_{22}\text{H}_{16}\text{O}_6$ mw: 376.38

PROP: Yellow needles from dioxane. Decomp at 315°, sublimates at 200–205° (0.001 mm). Stable to hot conc H_2SO_4 or hot KOH. Weakly acid. Sltly sol in H_2O , CHCl_3 ; sol in dioxan.

SYNS: A 3733A \square ANTIBIOTIC A 3733A \square CROCEOMYCIN \square GELIOMYCIN \square ITAMYCIN \square RESISTOMYCIN \square X-340

TOXICITY DATA with REFERENCE:

imp-rat TDLo:20,750 $\mu\text{g/kg}$:CAR JJIND8 71,539,83

orl-mus LD50:2000 mg/kg 85GDA2 3,354,80

ipr-mus LD50:20 mg/kg 85GDA2 3,351,80

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x .

HAL500 CAS: 303-33-3 HR: 3
HELIOTRINE

mf: $\text{C}_{16}\text{H}_{27}\text{NO}_5$ mw: 313.44

PROP: Prisms from Me₂CO. Mp: 128°. Sol in H₂O.

SYN: HELIOTRON

TOXICITY DATA with REFERENCE:

mma-sat 1 mg/plate MUREAV 68,211,79
dni-hmn:lvr 25 mg/L IJEVAV 1,107,71
oms-hmn:lvr 10 mg/L IJEVAV 1,107,71
sce-ham:lng 1200 µg/L MUREAV 142,209,85
cyt-mam:leu 50 µmol/L AJBSAM 21,469,68
orl-rat LDLo:50 mg/kg NATUAS 179,361,57
ipr-rat LD50:296 mg/kg JPBA7 75,17,58
ivn-rat LD50:274 mg/kg AMPLAO 64,152,57
ivn-mus LD50:251 mg/kg AMPLAO 64,152,57
ipr-mus LD50:296 mg/kg JPBA7 75,17,58
ipr-mam LDLo:250 mg/kg PAREAQ 22,429,70

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: A poison by ingestion, intravenous, and intraperitoneal routes. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HAM000 **HR: 2**

HELIOTROPIUM SUPINUM L.

PROP: Crude alkaloidal fraction (CNREA8 30,2127,70).

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes.

HAM500 **CAS: 7440-59-7** **HR: 1**

HELIUM

DOT: UN 1046/UN 1963

af: He aw: 4.00

PROP: Colorless, odorless, tasteless, monatomic, non-toxic, inert gas. Forms no normal chemical compounds. Mp: -272.2° @ 26 atm, bp: -268.9°, d: (gas): 0.1785 g/L @ 0°, d: (liquid): 0.147 @ -270.8°.

SYNS: HELIUM, compressed (UN 1046) (DOT) □ HELIUM, refrigerated liquid (cryogenic liquid) (UN 1963) (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 2.2; Label: Nonflammable Gas

SAFETY PROFILE: A simple asphyxiant. A nonflammable gas. See ARGON for a description of simple asphyxiants.

HAN500 **CAS: 1399-70-8** **HR: 3**

HELLEBOREIN

PROP: Glucoside crystallizable in yellow prisms. Mp: 270°.

TOXICITY DATA with REFERENCE:

ivn-cat LDLo:1900 µg/kg 27ZWAY E.1,78,-
scu-rbt LDLo:9 mg/kg HBAMAK 4,1289,35

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Irritating to skin, eyes, and mucous membranes. Combustible when exposed to heat or flame. When heated to decomposition it emits toxic fumes.

HAN550 **CAS: 4064-09-9** **HR: 3**

HELLEBRIGENIN 3-ACETATE

mf: C₂₆H₃₄O₇ mw: 458.60

SYNS: BUFA-20,22-DIENOLIDE, 3-(ACETYLOXY)-5,14-DIHYDROXY-19-OXO-, (3-β,5-β)- □ 5-β-BUFA-20,22-DIENOLIDE, 3-β,5,14-TRIHYDROXY-19-OXO-, 3-ACETATE □ 19-OXO-3-β,5,14-TRIHYDROXY-5-β-BUFA-20,22-DIENOLIDE-3-ACETATE

TOXICITY DATA with REFERENCE:

ivn-cat LD50:64 µg/kg JPETAB 99,395,1950

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

HAN600 **CAS: 13289-18-4** **HR: 3**

HELLEGRIGENIN GLUCORHAMNOSIDE

mf: C₃₆H₅₂O₁₅ mw: 724.88

PROP: Crystals from hot methanol. Mp: 283–284°. Sol in dil alc; less sol in methanol, ethanol; sltly sol in water. Practically insol in ether.

SYNS: HELLEBRIGENIN-GLUCO-RHAMNOSID (GERMAN) □ HELLEBRIN

TOXICITY DATA with REFERENCE:

ivn-rat LD50:21 mg/kg AIPTAK 155,165,65
ipr-mus LD50:8400 µg/kg AIPTAK 155,165,65
ivn-cat LD50:104 µg/kg JPETAB 99,395,50
ivn-gpg LDLo:616 µg/kg AEPPAE 252,314,66

SAFETY PROFILE: A deadly poison by intravenous and intraperitoneal routes. When heated to decomposition it emits acrid smoke and fumes.

HAN625 **HR: 3**

HELODERMA SUSPECTUM VENOM

SYN: VENOM, LIZARD, HELODERMA SUSPECTUM

TOXICITY DATA with REFERENCE:

par-rat LD50:1340 µg/kg TOXIA6 5,5,67
scu-mus LD50:1500 µg/kg 29QKAZ 2,499,72
ivn-mus LDLo:400 µg/kg TOXIA6 5,139,67

SAFETY PROFILE: Poison by subcutaneous, intraperitoneal, intravenous, and parenteral routes.

HAN800 **CAS: 630-64-8** **HR: 3**

HELVETICOSIDE

mf: C₂₉H₄₂O₉ mw: 534.71

PROP: Crystals from EtOH (aq). Mp: 168–172° (decomp). A β-glycoside consisting of one mole strophanthidin and one mole d-digitoxose.

SYNS: ERIZIMIN □ ERYSIMIN □ ERYSIMOTOXIN □ HELVETICOSID (GERMAN) □ STROPHANTHIDIN-β-d-DIGITOXOSID (GERMAN)

TOXICITY DATA with REFERENCE:

ivn-rat LD50:54 mg/kg AIPTAK 155,165,65
ipr-mus LD50:7800 µg/kg AIPTAK 155,165,65
ivn-cat LDLo:50 µg/kg AIPTAK 155,165,65

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits acrid smoke and fumes.

HAN900 **CAS: 6869-17-6** **HR: 3**

17-α-HELVETICOSIDE

mf: C₂₉H₄₂O₉ mw: 534.71

SYNS: ALLO-HELVETICOSIDE □ CARD-20(22)-ENOLIDE, 3-((2,6-DIDEOXY-β-d-RIBOHXOPYRANOSYL)OXY)-5,14-DIHYDROXY-19-OXO-, (3-β,5-β,17-α)-

TOXICITY DATA with REFERENCE:

ivn-cat LD :>1745 µg/kg JMCMAR 13,1029,1970

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

**HAO000 CAS: 13495-01-7 HR: 3
HELVETICOSIDE DIHYDRATE**
mf: C₂₉H₄₂O₉•2H₂O mw: 570.75**PROP:** Needles from oil, methanol. Mp: 153–157°.

SYNS: ALLEOSIDE A DIHYDRATE □ ERISIMIN DIHYDRATE □ ERYSIMIN DIHYDRATE

TOXICITY DATA with REFERENCE:

ivn-mky LDLo:103 µg/kg ARZNAD 13,412,63

ivn-cat LDLo:104 µg/kg ARZNAD 22,1854,72

ivn-gpg LDLo:867 µg/kg ARZNAD 13,412,63

ivn-pgn LDLo:285 µg/kg ARZNAD 13,412,63

SAFETY PROFILE: A deadly poison by intravenous route. When heated to decomposition it emits acrid smoke and fumes.

**HAO500 HR: 3
HEMACHATUS HAEMACHATUS VENOM**

SYNS: HEMACHATUS HAEMACHATES VENOM □ H. HAEMACHATES VENOM □ VENOM, SNAKE, HEMACHATUS HAEMCHATES

TOXICITY DATA with REFERENCE:

par-rat LD50:75 µg/kg TOXIA6 19,61,81

ipr-mus LD50:1600 µg/kg 19DDA6 1,283,67

scu-mus LD50:2625 µg/kg TOXIA6 5,47,67

ivn-mus LD50:1222 µg/kg 23ELAT 1,437,68

SAFETY PROFILE: Poison by subcutaneous, parenteral, intravenous, and intraperitoneal routes.

**HAO600 CAS: 475-25-2 HR: D
HEMATEIN**
mf: C₁₆H₁₂O₆ mw: 300.28

SYNS: BENZ(b)INDENO(1,2-d)PYRAN-9(6H)-ONE, 6a,7-DIHYDRO-3,4,6a,10-TETRAHYDROXY- □ HAEMATEIN □ HEMATINE □ 3,4,6a,10-TETRAHYDROXY-6a,7-DIHYDROBENZ(b)INDENO(1,2-d)PYRAN-9(6H)-ONE

TOXICITY DATA with REFERENCE:

cyt-ham:ovr 20 µmol/L/5H-C ENMUDM 1,27,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

**HAO875 CAS: 1317-60-8 HR: 2
HEMATITE**
PROP: Consists mainly of Fe₂O₃ (IARC** 1,29,71).

SYNS: BLOODSTONE □ HAEMATITE □ IRON ORE □ RED IRON ORE

CONSENSUS REPORTS: IARC Cancer Review: Group 3, Indefinite IMSUPP 4,254,82. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen.

**HAO900 CAS: 635-65-4 HR: D
HEMATOIDIN**
mf: C₃₃H₃₆N₄O₆ mw: 584.73

PROP: Orange-brown crystals. Sltly sol org solvs; insol in H₂O.

SYNS: BILINE-8,12-DIPROPIONIC ACID, 1,10,19,22,23,24-HEXAHYDRO-2,7,13,17-TETRAMETHYL-1,19-DIOXO-3,18-DIVINY- □ BILIRUBIN □ BILIRUBIN IX-α □ HEMETOIDIN □ PRINCIPAL BILE PIGMENT

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

**HAP000 CAS: 15375-94-7 HR: 3
HEMATOPORPHYRIN MERCURY DISODIUM SALT**
mf: C₃₄H₃₄HgN₄O₆•2Na mw: 841.29**PROP:** IDLH 10 mg/m³ (as Hg).

SYNS: Hg-HEMATOPORPHYRIN-Na □ MERCURI-HEMATOPORPHYRIN DISODIUM SALT □ MERPHYLLIN □ MERPHYRIN □ M.H.

TOXICITY DATA with REFERENCE:

ipr-mus LD50:23 mg/kg NYKZAU 57,219,61

scu-mus LD50:30 mg/kg NYKZAU 57,219,61

ivn-mus LD50:11,500 µg/kg NYKZAU 57,219,61

ice-mus LD50:380 µg/kg NYKZAU 57,219,61

CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Organo) TWA 0.01 mg/m³; STEL 0.03 mg/m³ (skin)

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, intravenous, and intracerebral routes. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

**HAP500 CAS: 517-28-2 HR: 2
HEMATOXYLIN**
mf: C₁₆H₁₄O₆ mw: 302.30

PROP: Prisms from 3H₂O and EtOH. Mp: 100–120°. Sol in hot water.

SYN: NCI-C55889

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.

**HAP100 CAS: 16478-59-4 HR: 3
HEMICHOLINIUM**
mf: C₂₄H₃₄N₂O₄ mw: 414.60

SYNS: 2,2'-(BIPHENYL)-4,4'-DIYLBIS(2-HYDROXY-4,4-DIMETHYLMORPHOLINIUM) □ 2,2'-(4,4'-BIPHENYLENE)BIS(2-

HYDROXY-4,4-DIMETHYLMORPHOLINIUM) □ MORPHOLINIUM, 2,2'-(4,4'-BIPHENYLENE)BIS(2-HYDROXY-4,4-DIMETHYL- □ MORPHOLINIUM, 2,2'-(1,1'-BIPHENYL)-4,4'-DIYLBIS(2-HYDROXY-4,4-DIMETHYL-

TOXICITY DATA with REFERENCE:

orl-mus LD50:80 µg/kg HPFSDS FDA-80-1076,212,1980

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HAQ000 CAS: 312-45-8 HR: 3
HEMICHOLINIUM-3-DIBROMIDE

mf: C₂₄H₃₄N₂O₄•2Br mw: 574.42

SYNS: 2,2'-(1,1'-BIPHENYL)-4,4'-DIYLBIS(2-HYDROXY-4,4-DIMETHYL)-MORPHOLINIUM DIBROMIDE □ HC-3 □ HEMICHOLINE □ HEMICHOLINIUM-3 □ HEMICHOLINIUM BROMIDE □ HEMICHOLINIUM-3-BROMIDE □ HEMICHOLINIUM DIBROMIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:160 µg/kg EJPHAZ 33,145,75

ipr-mus LD50:46 µg/kg EJPHAZ 33,145,75

scu-mus LDLo:150 µg/kg AIPTAK 152,253,64

ivn-mus LD50:80 µg/kg TXAPA9 27,666,74

ivn-dog LD50:750 µg/kg JMPCAS 4,505,61

ivn-cat LD50:300 µg/kg JMPCAS 4,505,61

ivn-rbt LD50:250 µg/kg AIPTAK 119,20,59

ipr-gpg LDLo:300 µg/kg IRNEAE 2,77,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by subcutaneous, intraperitoneal, and intravenous routes. See also BROMIDES. When heated to decomposition it emits very toxic fumes of NO_x and Br⁻.

HAQ050 CAS: 16009-13-5 HR: 3
HEMIN

mf: C₃₄H₃₀ClFeN₄O₄•2H mw: 651.95

SYN: FERRATE(2-), CHLORO(7,12-DIETHENYL-3,8,13,17-TETRAMETHYL-21H,23H-PORPHINE-2,18-DIPROPANOATO(4-)-K-N²¹),K-N22@MD-+SU⁻),K23@MD-+SU⁻),K-N24@MD-+SU⁻), DIHYDROGEN, (SP-5-13)-

TOXICITY DATA with REFERENCE:

skn-mus TDLo:1304 µg/kg MUREAV 472,139,2000

SAFETY PROFILE: A poison by skin contact. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

HAQ100 HR: 3
HENBANE

PROP: Biennial or annual weeds which grow to about 2 feet and are covered with fine hairs. The leaves are about 8 inches long with toothed edges. The flowers range in color from green-yellow to yellow-white with a purple throat and veins. They are native to Europe but can be found in scrub lands in the northeastern United States and southern Canada, and in sandy prairie areas across the United States.

SYNS: BEIENO (MEXICO) □ FETID NIGHTSHADE □ HYOSCYAMUS NIGER □ INSANE ROOT □ JUSQUIAME (CANADA) □ POISON TOBACCO □ STINKING NIGHTSHADE

SAFETY PROFILE: The seed contains poisonous belladonna alkaloids. Ingestion of the seeds can result in

increased heart rate, fever, vision impairment, delirium, and hallucinations. See also BELLADONNA.

HAQ200 CAS: 54844-65-4 HR: 1
(Z)-6-HENEICOSEN-11-ONE

mf: C₂₁H₄₀O mw: 308.55

SYN: 6-HENEICOSEN-11-ONE, (Z)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:>15,000 mg/kg HBPTO* 1,142,2001

skn-rbt LD50:>3000 mg/kg HBPTO* 1,142,2001

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HAQ500 CAS: 9005-49-6 HR: 2
HEPARIN

SYNS: CLEXANE □ CY 216 □ CY 222 □ ENOXAPARIN □ FR 860 □ FRAXIPARIN □ α-HEPARIN □ HEPARINATE □ HEPARINIC ACID □ HEPARIN SULFATE □ KB 101 □ LIPO-HEPIN □ LIQUAEMIN □ LIQUEMIN □ LOVENOX □ NOVOHEPARIN □ PABYRIN □ SANDOPARIN □ SUBLINGULA □ THROMBOLIQUE □ VETREN □ VITAMIN AB □ VITRUM AB

TOXICITY DATA with REFERENCE:

dns-mus:lvr 33 mg/L AMOKAG 33,149,79

dns-mus:oth 10 mg/L JJIND8 71,615,83

dni-mus:ast 42 mg/L AMOKAG 33,149,79

dni-mus:lvr 167 mg/L AMOKAG 33,149,79

dnd-ham:ovr 200 mg/L BBACAQ 517,486,78

orl-rat LD50:1950 mg/kg GWXXBX #2636091

ipr-rat LDLo:420 mg/kg TXAPA9 1,156,59

ivn-mus LD50:1500 mg/kg AJMSA9 216,234,48

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and intravenous routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also HEPARIN SODIUM

HAQ550 CAS: 9041-08-1 HR: 3
HEPARIN SODIUM

PROP: Sol in water.

SYNS: DEPO-HEPARIN □ HED-HEPARIN □ HEPATHROM □ LIQUAEMIN SODIUM □ LIQUEMIN □ PK 10169 □ PULARIN □ SODIUM ACID HEPARIN □ SODIUM HEPARIN □ SODIUM HEPARINATE

TOXICITY DATA with REFERENCE:

scu-wmn TDLo:3400 units/kg/17D-I:SKN DICPBB 18,313,84

scu-man TDLo:7 mg/kg/4D:CNS,SKN,BLD JAMAAP 244,1831,80

ivn-wmn TDLo:700 units/kg/13D-I:BLD NEJMAG 303,788,80

ivn-rat LD50:354 mg/kg DEBIDR 12,535,81

ivn-mus LD50:2800 mg/kg JPETAB 102,156,51

ivn-dog LD50:1 g/kg JPETAB 102,156,51

SAFETY PROFILE: Poison by intravenous route. Human systemic effects: corrosive dermatitis, hallucinations and distorted perceptions, hemorrhage, thrombocytopenia. When heated to decomposition it emits toxic fumes of NO_x and Na₂O. See also HEPARIN.

HAQ570 CAS: 5634-42-4 HR: 2
HEPASYNTHYL

mf: $C_{19}H_{26}O_4 \cdot C_4H_{11}NO_2$ mw: 423.61

SYNS: BILIPHORIN □ BILIPHORINE □ CAMPHORIC ACID, P,α-DIMETHYLBENZYL ESTER, COMPD. WITH 2,2'-IMINODIETHANOL □ CAMPHORIC ACID, 1-(P,α-DIMETHYLBENZYL) ESTER, COMPD. WITH 2,2'-IMINODIETHANOL (1:1) □ DIETHANOLAMINE p-TOLYLMETHYLCARBINOL CAMPHORATE □ ETHANOL, 2,2'-IMINODI-, 1-(P,α-DIMETHYLBENZYL) CAMPHORATE (SALT) □ GALLOGEN (CHOLERETIC) □ HEPATOXANE □ LICARBIN □ LY METHOL □ SYNCUMA □ SYNTHOBILIN □ TOCAMPHYL □ TOLYLMETHYL CARBINOL MONO-d-CAMPHORIC ACID ESTER, DIETHANOLAMINE SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:2808 mg/kg KSRNAM 27,5121,1993

scu-rat LD50:500 mg/kg YAKUD5 9,759,1967

ims-rat LD50:1200 mg/kg AEPPAE 222,244,1954

orl-mus LD50:>3 g/kg NIIRDN 6,504,1982

scu-mus LD50:500 mg/kg NIIRDN 6,504,1982

SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous, and intramuscular routes. When heated to decomposition it emits toxic vapors of NO_x .

HAQ600 CAS: 71-67-0 HR: 3 HEPATOSULFALEIN

mf: $C_{20}H_8Br_4O_{10}S_2 \cdot 2Na$ mw: 838.02

SYNS: BROMOSULFALEIN □ BROMOSULFOPHTHALEIN □ BROMOSULPHALEIN □ BROMOSULPHTHALEIN □ BROMOTALEINA □ BROMSULFALEIN □ BROMSULFAN □ BROMSULFOPHTHALEIN □ BROMSULFTHALEIN □ BROMSULPHALEIN □ BROMSULPHTHALEIN □ BROM-TETRAGNOST □ BROMTHALEIN □ BSF □ BSF SIMES □ BSP □ BSP SODIUM □ CBSP □ DISODIUM BROMOSULFOPHTHALEIN □ HEPARTEST □ HEPARTESTABROME □ PHENOLPHTHALEIN, 4,5,6,7-TETRABROMO-3,3"-DISULFO-, DISODIUM SALT □ PHENOLTETRABROMOPHTHALEINSULFONATE □ SODIUM BROMOSULFALEIN □ SODIUM BROMOSULFOPHTHALEIN □ SODIUM BROMSULPHALEIN □ SODIUM BROMSULPHTHALEIN □ SODIUM PHENOL TETRABROMOPHTHALEIN □ SODIUM SULFOBROMOPHTHALEIN □ SODIUM SULPHOBROMOPHTHALEIN □ SULFOBROMOPHTHALEIN □ SULFOBROMOPHTHALEIN SODIUM □ SULFOBROMOPHTHALEIN □ SULPHOBROMOPHTHALEIN □ SULPHOBROMOPHTHALEIN SODIUM □ TETRABROMOPHENOLSULFOPHTHALEIN □ TETRABROMOSULFOPHTHALEIN □ TETRABROM-SULFTHALEIN

TOXICITY DATA with REFERENCE:

ivn-mus LD50:334 mg/kg DRUGAY 6,394,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of SO_x and Br^- .

HAQ700 CAS: 1502-47-2 HR: 2 1,3,4,6,7,9,9B-HEPTAAZAPHENALENE-2,5,8-TRIAMINE

mf: $C_6H_6N_{10}$ mw: 218.22

SYNS: CYAMELUROTRIAMIDE □ 1,3,4,6,7,9,9B-HEPTAAZAPHENALENE, 2,5,8-TRIAMINO-(6Cl,7Cl,8Cl) □ MELEM □ TRIAMINO-s-HEPTAZINE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:1250 mg/kg TOKSVE (1),61,95

ihl-rat LC :>870 mg/m³/4H TOKSVE (1),61,95

ipr-rat LD50:2170 mg/kg TOKSVE (1),61,95

ihl-mus LC :>870 mg/m³/4H TOKSVE (1),61,95

ipr-mus LD50:1998 mg/kg TOKSVE (1),61,95

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x .

HAR000 CAS: 76-44-8 HR: 3 HEPTACHLOR

mf: $C_{10}H_5Cl_7$ mw: 373.30

PROP: Crystals. Mp: 96°. Nearly insol in water; sol in org solvs. IDLH 35 mg/m³.

SYNS: AGROCERES □ 3-CHLOROCHLORDENE □ DRINOX □ E 3314 □ ENT 15,152 □ EPTACOLORO (ITALIAN) □ 1,4,5,6,7,8,8-EPTACOLORO-3a,4,7,7a-TETRAIDRO-4,7-endo-METANO-INDENE (ITALIAN) □ GPKh □ H-34 □ HEPTACHLOOR (DUTCH) □ 1,4,5,6,7,8,8-HEPTACHLOOR-3a,4,7,7a-TETRAHYDRO-4,7-endo-METHANO-INDEEN (DUTCH) □ HEPTACHLORE (FRENCH) □ 3,4,5,6,7,8,8-HEPTACHLORODICYCLOPENTADIENE □ 3,4,5,6,7,8,8a-HEPTACHLORODICYCLOPENTADIENE □ 1,4,5,6,7,8,8-HEPTACHLORO-3a,4,7,7a-TETRAHYDRO-4,7-ENDOMETHANOINDENE □ 1,4,5,6,7,10,10-HEPTACHLORO-4,7,8,9-TETRAHYDRO-4,7-ENDOMETHYLENEINDENE □ 1,4,5,6,7,8,8a-HEPTACHLORO-3a,4,7,7a-TETRAHYDRO-4,7-METHANOINDANE □ 1,4,5,6,7,8,8-HEPTACHLORO-3a,4,7,7a-TETRAHYDRO-4,7-METHANOINDENE □ 1(3a),4,5,6,7,8,8-HEPTACHLORO-3a(1),4,7,7a-TETRAHYDRO-4,7-METHANOINDENE □ 1,4,5,6,7,8,8-HEPTACHLORO-3a,4,7,7a-TETRAHYDRO-4,7-METHANOL-1H-INDENE □ 1,4,5,6,7,8,8-HEPTACHLORO-3a,4,7,7a-TETRAHYDRO-4,7-METHYLENE INDENE □ 1,4,5,6,7,8,8-HEPTACHLOR-3a,4,7,7a-TETRAHYDRO-4,7-endo-METHANO-INDEN (GERMAN) □ HEPTAGRAN □ HEPTAMUL □ NCI-C00180 □ RCRA WASTE NUMBER P059 □ RHODIACHLOR □ VELSCOL 104

TOXICITY DATA with REFERENCE:

mma-hmn:flr 100 μmol/L MUREAV 42,161,77

cyt-rat-orl 60 μg/kg 34LXAP -,555,76

dlt-rat-orl 60 μg/kg 34LXAP -,555,76

cyt-mus-ipr 5200 μg/kg SOGEBZ 2,80,66

orl-mus TDLo:403 mg/kg/80W-C:CAR NCITR* NCI-CG-TR-9,77

orl-rat LD50:40 mg/kg PHJOAV 185,361,60

skn-rat LD50:119 mg/kg SPEADM 78-1,12,78

ipr-rat LD50:27 mg/kg FCTXAV 11,63,73

orl-mus LD50:68 mg/kg SPEADM 78-1,12,78

ipr-mus LD50:130 mg/kg SOGEBZ 2,80,66

ivn-mus LDLo:20 mg/kg JPETAB 107,266,53

skn-rbt LD50:2000 mg/kg AFDOAQ 16,3,52

orl-gpg LD50:116 mg/kg PCOC** -,576,66

orl-ham LD50:100 mg/kg EJTAXZ 7,159,74

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,146,87; Human Inadequate Evidence IMEMDT 20,129,79; Animal Inadequate Evidence IMEMDT 5,173,74; Animal Sufficient Evidence IMEMDT 20,129,79. NCI Carcinogenesis Bioassay (feed) Clear Evidence: mouse NCITR* NCI-CG-TR-9,77; Results negative: rat NCITR* NCI-CG-TR-9,77. EPA Genetic Toxicology Program. Community Right-To-Know List.

OSHA PEL: TWA 0.5 mg/m³ (skin)

ACGIH TLV: 0.05 mg/m³ (skin); Animal Carcinogen

DFG MAK: 0.5 mg/m³, Confirmed Animal Carcinogen with Unknown Relevance to Humans

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. A poison by ingestion, skin contact, intraperitoneal, and intravenous routes. Human mutation data reported. Acute exposure and chronic doses have caused liver damage. See also closely related chlordane. In humans, a dose of 1–3 g can cause serious symptoms, especially where liver impairment is the case. Acute symptoms include tremors, convulsions, kidney damage, respiratory collapse, and death. When heated to decomposition it emits toxic fumes of Cl^- .

NOTE: The EPA has canceled registration of pesticides containing heptachlor with the exception of its use for termite control by subsurface ground insertion external to the dwelling.

HAR100 CAS: 35822-46-9 HR: 3
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-*p*-DIOXIN

mf: $\text{C}_{12}\text{HCl}_7\text{O}_2$ mw: 425.28

SYNS: DIBENZO(B,E)(1,4)DIOXIN, 1,2,3,4,6,7,8-HEPTACHLORO- □ DIBENZO-*p*-DIOXIN, 1,2,3,4,6,7,8-HEPTACHLORO- □ HEPTACHLORODIBENZO-*p*-DIOXIN □ 1,2,3,4,6,7,8-HEPTACHLORODIBENZODIOXIN

TOXICITY DATA with REFERENCE:

orl-rat LD50:6325 $\mu\text{g}/\text{kg}$ ARTODN 66,471,92
 orl-gpg LD50:>600 $\mu\text{g}/\text{kg}$ PSSID2 5,367,82
 orl-rat TDLo:364 mg/kg/13W-I TOXID9 14,271,94

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,41,77; Human No Adequate Data IMEMDT 15,41,77.

SAFETY PROFILE: A poison by ingestion. Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl^- .

HAR150 CAS: 58200-70-7 HR: D
1,2,3,4,6,7,9-HEPTACHLORODIBENZO-*p*-DIOXIN

mf: $\text{C}_{12}\text{HCl}_7\text{O}_2$ mw: 425.28

SYNS: DIBENZO(B,E)(1,4)DIOXIN, 1,2,3,4,6,7,9-HEPTACHLORO- □ DIBENZO-*p*-DIOXIN, 1,2,3,4,6,7,9-HEPTACHLORO- □ 1,2,3,4,6,7,9-HEPTACHLORODIBENZODIOXIN

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,41,77; Human No Adequate Data IMEMDT 15,41,77.

SAFETY PROFILE: No evidence of carcinogenic activity. When heated to decomposition it emits toxic vapors of Cl^- .

HAR500 HR: 3
HEPTACHLOR (technical grade)

PROP: Mixture of 73% heptachlor, 22% trans-chlordane, and 5% nonachlor NCITR* NCI-CG-TR-9.

SYN: 1,4,5,6,7,8,8-HEPTACHLORO-3a,4,7,7a-TETRAHYDRO 4,7-METHANOINDENE (technical grade)

TOXICITY DATA with REFERENCE:

orl-cat LD50:67 mg/kg 85GMAT -,71,82
 skn-gpg LD50:627 mg/kg 85GMAT -,71,82
 skn-rbt LD50:500 mg/kg 85GMAT -,71,82
 orl-rat LD50:40 mg/kg KSKZAN 16(2),59,78

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Cl^- . See also HEPTACHLOR.

HAS000 CAS: 311-89-7 HR: 1
HEPTACOSAFLUOROTRIBUTYLAMINE

mf: $\text{C}_{12}\text{F}_{27}\text{N}$ mw: 671.13

SYNS: 1-BUTANAMINE, 1,1,2,2,3,3,4,4,4-NONAFLUORO-N,N-BIS(NONAFLUOROBUTYL)-(9CI) □ FC 43 □ FC 47 □ FLUORINERT FC 43 □ FLUOROCARBON FC 43 □ FLUOSOL 43 □ MEDIFLOR FC 43 □ PERFLUOROTRIBUTYLAMINE □ TRI(PERFLUOROBUTYL)AMINE □ TRIS(NONAFLUOROBUTYL)AMINE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:12 g/kg MIVRA6 8,320,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by intravenous route. When heated to decomposition it emits very toxic fumes of F^- and NO_x .

HAS050 CAS: 4149-60-4 HR: 3
HEPTADEC AFLUORONONANOIC ACID AMMONIUM SALT

mf: $\text{C}_9\text{HF}_{17}\text{O}_2\cdot\text{H}_3\text{N}$ mw: 481.14

SYNS: AMMONIUM PERFLUORONONANOATE □ NONANOIC ACID, HEPTADEC AFLUORO-, AMMONIUM SALT □ SURFLON S-III-S

TOXICITY DATA with REFERENCE:

ihl-rat LC50:820 $\text{mg}/\text{m}^3/4\text{H}$ FCTOD7 27,465,1989

SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits toxic vapors of NH_4^+ and F^- .

HAS075 CAS: 1763-23-1 HR: 3
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-HEPTADEC AFLUORO-1-OCTANESULFONIC ACID

mf: $\text{C}_8\text{HF}_{17}\text{O}_3\text{S}$ mw: 500.13

SYNS: PERFLUOROOCTANESULFONIC ACID □ PFOS

TOXICITY DATA with REFERENCE:

orl-rat LD50:154 mg/kg HBPTO* 2,1246,2001

SAFETY PROFILE: A poison by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of SO_x and F^- .

HAS100 CAS: 629-78-7 HR: 1
HEPTADECANE

mf: $\text{C}_{17}\text{H}_{36}$ mw: 240.53

SYN: n-HEPTADECANE

TOXICITY DATA with REFERENCE:

ivn-mus LDLo:9821 mg/kg APTOA6 37,56,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

HAS500 CAS: 506-12-7 HR: 3
HEPTADECANOIC ACID

mf: $C_{17}H_{34}O_2$ mw: 270.51

PROP: Crystals from pet ether. Mp: 62–63°.

SYNS: n-HEPTADECYIC ACID □ n-HEPTADECYLIC ACID □ MARGARIC ACID

TOXICITY DATA with REFERENCE:

ivn-mus LD50:36 mg/kg APTOA6 18,141,61

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and fumes.

**HAT000 CAS: 52783-44-5 HR: 2
HEPTADECANOL (mixed primary isomers)**

mf: $C_{17}H_{36}O$ mw: 256.53

PROP: Mp: 54°, bp: 309°, flash p: 310°F (COC), d: 0.8475 @ 20°/20°, vap press: 0.01 mm @ 20°, vap d: 8.84.

TOXICITY DATA with REFERENCE:

skn-rbt 8475 µg/24H open MLD AIHAAP 23,95,62

orl-rat LD50:51,600 mg/kg AIHAAP 23,95,62

skn-rbt LD50:16,800 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: Mildly toxic by ingestion and skin contact. A skin irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO_2 , dry chemical. When heated to decomposition it emits acrid smoke and fumes.

**HAT500 CAS: 95-19-2 HR: 2
2-HEPTADECYL-2-IMIDAZOLINE-1-ETHANOL**

mf: $C_{22}H_{46}N_2O$ mw: 354.70

SYN: 2-HEPTADECYL-1-HYDROXYETHYLIMIDAZOLINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3800 mg/kg AMIHC 4,494,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x .

**HAU500 CAS: 63982-03-6 HR: 2
HEPTADECYLTRIMETHYLAMMONIUM
METHYLSULFATE**

mf: $C_{20}H_{44}N^+CH_3O_4S^-$ mw: 409.75

SYN: HEPTADECYL-TRIMETHYLAMMONIUM METHYLSULFAT (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 250 µg/24H SEV 28ZPAK -,74,72

orl-rat LD50:3650 mg/kg 28ZPAK -,74,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. A severe eye irritant. When heated to decomposition it emits very toxic fumes of NH_3 , NO_x , and SO_x . See also SULFATES.

**HAV450 CAS: 5910-85-0 HR: 3
2,4-HEPTADIENAL**

mf: $C_7H_{10}O$ mw: 110.17

PROP: Sltly yellow liquid; green odor. Refr index: 1.478–1.480, flash p: 140°F. Sol in alc, fixed oils, water.

SYNS: FEMA No. 3164 □ HEPTADIENAL-2,4 □ trans,trans-2,4-HEPTADIENAL □ 2,4-HEPTADIENAL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg SEV FCTOD7 21,855,83

skn-gpg 500 mg SEV FCTOD7 21,855,83

orl-rat LD50:1150 mg/kg FCTOD7 21,855,83

skn-rbt LD50:313 mg/kg FCTOD7 21,855,83

SAFETY PROFILE: Poison by skin contact. Moderately toxic by ingestion. A severe skin irritant. Flammable liquid when exposed to heat, sparks, or flame. When heated to decomposition it emits acrid smoke and fumes.

**HAV500 CAS: 2396-63-6 HR: 2
1,6-HEPTADIYNE**

mf: C_7H_8 mw: 92.15

PROP: Bp: 112° (resinifies).

TOXICITY DATA with REFERENCE:

orl-rat LD50:2300 mg/kg FEPA7 19,389,60

orl-dog LD50:3830 mg/kg FEPA7 19,389,60

orl-rbt LD50:2620 mg/kg FEPA7 19,389,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.

**HAW000 CAS: 3794-64-7 HR: 2
HEPTAFLUOROBUTANOIC ACID, SILVER SALT**

mf: $C_4F_7O_2 \cdot Ag$ mw: 320.91

PROP: IDLH 10 mg/ m^3 (as Ag).

SYN: HEPTAFLUORMASELNAN STRIBRNY (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,8,72

eye-rbt 5 mg/24H SEV 28ZPAK -,8,72

orl-rat LD50:2140 mg/kg 28ZPAK -,8,72

CONSENSUS REPORTS: Silver and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.01 mg(Ag)/ m^3

ACGIH TLV: TWA 0.01 mg(Ag)/ m^3

SAFETY PROFILE: Moderately toxic by ingestion. A skin and severe eye irritant. When heated to decomposition it emits toxic fumes of F^- . See also SILVER COMPOUNDS.

**HAW100 CAS: 375-01-9 HR: 2
2,2,3,3,4,4,4-HEPTAFLUOROBUTANOL**

mf: $C_4H_3F_7O$ mw: 200.07

SYNS: 1-BUTANOL, 2,2,3,3,4,4,4-HEPTAFLUORO- □ α -DIHYDROPERFLUOROBUTANOL □ 1,1-DIHYDROPERFLUOROBUTANOL □ 1,1-H, H-HEPTAFLUOROBUTANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:3630 mg/kg GTPZAB 13(10),29,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of F^- .

HAX000 CAS: 662-50-0 HR: 3

2,2,3,3,4,4,4-HEPTAFLUOROBUTYRAMIDEmf: C₄H₂F₇NO mw: 213.07
F₇C₃CO•NH₂**PROP:** A solid. Mp: 102–103°.**TOXICITY DATA with REFERENCE:**

ipr-rbt LD50:126 mg/kg CBCCT* 2,299,50

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. Forms an unstable explosive complex with lithium tetrahydroaluminate. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x.**HAX500 CAS: 375-22-4 HR: 3
HEPTAFLUOROBUTYRIC ACID**mf: C₄HF₇O₂ mw: 214.05**PROP:** Colorless liquid; sharp, butyric acid odor. Mp: -19.9°, bp: 120.8–121°, d: 1.65 @ 20°/4°.**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:153 mg/kg CBCCT* 2,56,50

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by intraperitoneal route. Probably an eye, skin, and mucous membrane irritant. Will react with water or steam to produce corrosive fumes. When heated to decomposition it emits toxic fumes of F⁻.**HAY000 CAS: 356-27-4 HR: 3
HEPTAFLUOROBUTYRIC ACID, ETHYL ESTER**mf: C₆H₅F₇O₂ mw: 242.11**PROP:** A liquid. Bp: 96.6°.**TOXICITY DATA with REFERENCE:**

ipr-rbt LD50:250 mg/kg CBCCT* 2,299,50

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. See also ESTERS. When heated to decomposition it emits toxic fumes of F⁻.**HAY059 CAS: 71359-62-1 HR: 3
HEPTAFLUOROBUTYRYL HYPOCHLORITE**mf: C₄ClF₇O₂ mw: 248.48C₃F₇CO•OCl**SAFETY PROFILE:** As a gas it explodes above 27-62 mbar. Thermally unstable above 22°C. Upon decomposition it emits toxic fumes of Cl⁻ and F⁻. See also HYPOCHLORITES and FLUORIDES.**HAY100 HR: 3
HEPTAFLUOROBUTYRYL HYPOFLUORITE**mf: C₄F₈O₂ mw: 232.03C₃F₇CO•OF**SAFETY PROFILE:** Decomposes explosively upon exposure to spark or flame. When heated to decomposition it emits toxic fumes of F⁻. See also FLUORIDES and HYPOCHLORITES.**HAY200 CAS: 663-25-2 HR: 3
HEPTAFLUOROBUTYRYL NITRATE**mf: C₄F₇NO₃ mw: 207.00C₃F₇CO•ON•O**SAFETY PROFILE:** Potentially explosive. When heated to decomposition it emits toxic fumes of F⁻ and NO_x. See also NITRATES and FLUORIDES.**HAY300 CAS: 27636-85-7 HR: 1
HEPTAFLUOROIODOPROPANE**mf: C₃F₇I mw: 295.93**PROP:** A liquid. D: 2.06 @ 20°/4°, bp: 41.2°.**SYNS:** HEPTAFLUORJODPROPAN □ IODOHEPTA-FLUOROPROPANE □ PROPANE, HEPTAFLUOROiodo-**TOXICITY DATA with REFERENCE:**

eye-rbt 100 mg/24H MOD 85JCAE -,143,86

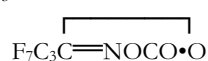
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** An eye irritant. When heated to decomposition it emits toxic fumes of Cl⁻ and I⁻.**HAY500 CAS: 360-53-2 HR: 3
HEPTAFLUOROISOBUTYLENE METHYL
ETHER**mf: C₅H₃F₇O mw: 212.08**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1070 mg/kg TXAPA9 14,114,69

orl-rat LD50:1070 mg/kg TXAPA9 14,114,69

ipr-mus LD50:66 mg/kg TXAPA9 12,486,68

ivn-mus LD50:58 mg/kg TXAPA9 12,486,68

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of F⁻. See also ETHERS.**HAY600 CAS: 87050-95-1 HR: 3
2-HEPTAFLUOROPROPYL-1,3,4-DIOX-
AZOLONE**mf: C₅F₇NO₃ mw: 255.05**PROP:** Bp: 65–66°.**SAFETY PROFILE:** May explode when heated to 102°C. Upon decomposition it emits toxic fumes of F⁻ and NO_x. See also FLUORIDES.**HAY650 CAS: 2203-57-8 HR: 3
HEPTAFLUOROPROPYL HYPOFLUORITE**mf: C₃F₈O mw: 204.02**SAFETY PROFILE:** An explosive. When heated to decomposition it emits toxic fumes of F⁻. See also FLUORIDES and HYPOCHLORITES.**HBA259 CAS: 64296-43-1 HR: 2
2,3,3',4,4',5,7-HEPTAHYDROXYFLAVAN**mf: C₁₅H₁₂O₈ mw: 320.27**SYNS:** 2-(3,4-DIHYDROXYPHENYL)-2,3,4,5,7-PENTA-HYDROXY-1-BENZOPYRAN □ 2,3,3',4,4',5,7-HEPTAHYDROXY-FLAVAN**TOXICITY DATA with REFERENCE:**

orl-mus LD50:2500 mg/kg EJMCA5 13,241,78

ipr-mus LD50:450 mg/kg EJMCA5 13,241,78

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and fumes.

HBA500 CAS: 28016-59-3 HR: 3
HEPTAKIS (DIMETHYLAMINO)TRIALUMINUM
TRIBORON PENTAHYDRIDE

mf: $C_{14}H_{47}Al_3B_3N_7$ mw: 426.96

SAFETY PROFILE: Crystalline solid is spontaneously flammable in air. When heated to decomposition it emits toxic fumes of NO_x . See also BORON COMPOUNDS, ALUMINUM COMPOUNDS, and HYDRIDES.

HBA550 CAS: 105-21-5 HR: 1
 γ -HEPTALACTONE

mf: $C_7H_{12}O_2$ mw: 128.19

PROP: Colorless, sltly oily liquid; coconut, sweet, malty, caramel odor. D: 0.997–1.004 @ 20°, refr index: 1.439–1.445. Misc in alc, fixed oils; very sltly sol in water.

SYNS: FEMA No. 2539 \square HEPTANOLIDE-1,4 \square HEPTANOLIDE-4,1 \square 4-HYDROXYHEPTANOIC ACID LACTONE \square 4-HYDROXYHEPTANOIC ACID, γ -LACTONE \square γ -PROPIO-BUTYROLACTONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTOD7 20,703,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

HBA600 CAS: 10448-09-6 HR: D
HEPTAMETHYLPHENYLCYCLOTETRA-
SILOXANE

mf: $C_{13}H_{26}O_4Si_4$ mw: 358.75

SYNS:

MONOPHENYLHEPTAMETHYLCYCLOTETRASILOXANE \square

PM(1)MM(3)

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and fumes.

HBB000 CAS: 543-15-7 HR: 2
HEPTAMINOL HYDROCHLORIDE

mf: $C_8H_{19}NO \cdot ClH$ mw: 181.74

PROP: Crystals. Mp: 178–180° (also reported as 150°). Freely sol in water; sol in alc; insol in acetone, benzene, ether.

SYNS: 6-AMINO-2-METHYL-2-HEPTANOL HYDROCHLORIDE \square HEPTAMYL HYDROCHLORIDE \square 2-METHYL-6-AMINO-2-HEPTANOL HYDROCHLORIDE \square 6-METHYL-2-AMINO-6-HEPTANOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:28 μ g/kg:CVS,KID,SKN JPETAB 103,178,51

ipr-mus LD50:900 mg/kg JPETAB 103,178,51

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Human systemic effects by ingestion: pulse rate increase without fall in blood pressure, sweating, urine volume increase. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x .

HBB500 CAS: 111-71-7 HR: 3
HEPTANAL
DOT: UN 3056

mf: $C_7H_{14}O$ mw: 114.18

PROP: Colorless liquid; penetrating, fruity odor. D: 0.814–0.819, refr index: 1.412–1.420, mp: –43.3°, bp: 152.8°, flash p: 93°F. Sol in alc, ether, fixed oils; sltly sol in water @ 153°; misc in alc, ether.

SYNS: ENANTHAL \square ENANTHALDEHYDE \square ENANTHOLE \square FEMA No. 2540 \square HEPTALDEHYDE \square n-HEPTALDEHYDE \square OENANTHAL \square OENANTHALDEHYDE \square OENANTHIC ALDEHYDE \square OENANTHOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:14 g/kg FDRLI* 123,-,76

orl-mus LD50:20 g/kg BIJOAK 34,1196,40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mildly toxic by ingestion.

Flammable liquid. When heated to decomposition it emits acrid smoke.

HBC000 CAS: 1708-35-6 HR: 2
HEPTANAL-1,2-GLYCERYL ACETAL

mf: $C_{10}H_{20}O_3$ mw: 188.30

SYN: HEPTANAL, CYCLIC (HYDROXYMETHYL)ETHYLENE ACETAL

TOXICITY DATA with REFERENCE:

ipr-mus LD50:439 mg/kg AIPTAK 85,474,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes.

HBC500 CAS: 142-82-5 HR: 3
HEPTANE

DOT: UN 1206

mf: C_7H_{16} mw: 100.23

PROP: Colorless liquid. Bp: 98.52°, lel: 1.05%, uel: 6.7%, mp: –91.61°, flash p: 25°F (CC), d: 0.684 @ 20°/4°, autoign temp: 433.4°F, vap press: 40 mm @ 22.3°, vap d: 3.45. Sltly sol in alc; misc in ether and chloroform; insol in water. IDLH 750 ppm.

SYNS: DIPROPYL METHANE \square EPTANI (ITALIAN) \square GETTYSOLVE-C \square HEPTAN (POLISH) \square n-HEPTANE \square HEPTANEN (DUTCH) \square HEPTYL HYDRIDE

TOXICITY DATA with REFERENCE:

ihl-hmn TCLo:1000 ppm/6M:CNS BMRII* 2979,-,29

ihl-rat LC50:103 g/m³/4H GTPZAB 32(10),23,88

ihl-mus LC50:75 g/m³/2H 85JCAE -,9,86

ivn-mus LD50:222 mg/kg JPMSAE 67,566,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 400 ppm; STEL 500 ppm

ACGIH TLV: TWA 400 ppm; STEL 500 ppm

DFG MAK: 500 ppm (2100 mg/m³)

NIOSH REL: TWA (Alkanes) 350 mg/m³

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intravenous route.

Mildly toxic by inhalation. Human systemic effects by

inhalation: hallucinations. Narcotic in high concentrations. A volatile, flammable liquid when exposed to heat or flame. Can react vigorously with oxidizing materials. Moderately explosive when exposed to heat or flame. Violent reaction with phosphorus + chlorine. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Hydrocarbons, Bp: 36–126°C, 1500.

HBD000 CAS: 646-20-8 HR: 3
HEPTANEDINITRILE

mf: C₇H₁₀N₂ mw: 122.19

PROP: Bp: 175–176° @ 14 mm.

SYNS: 1,5-DICYANOPENTANE □ PIMELIC ACID DINITRILE □ PIMELONITRILE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:500 mg/kg JPETAB 90,260,47

orl-mus LD50:126 mg/kg ARTODN 57,88,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Cyanide and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Poison by ingestion. Many nitriles are poisons by ingestion and inhalation. When heated to decomposition it emits very toxic fumes of NO_x and CN⁻. See also NITRILES.

HBD500 CAS: 1639-09-4 HR: 3
1-HEPTANETHIOL

DOT: UN 1228/UN 3071

mf: C₇H₁₆S mw: 132.29

PROP: A liquid with powerful odor. Bp: 173–176°.

SYNS: HEPTYL MERCAPTAN □ n-HEPTYLMERCAPTAN □ USAF EK-2122

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

NIOSH REL: (n-Alkane Mono Thiols) CL 0.5 ppm/15M

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison (UN 1228); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3071)

SAFETY PROFILE: A poison. Toxic by inhalation. A flammable liquid. When heated to decomposition it emits very toxic fumes of SO_x. See also MERCAPTANS.

HBD650 CAS: 20919-99-7 HR: 3
1,1,1,3,5,5,5-HEPTANITROPENTANE

mf: C₅H₅N₇O₁₄ mw: 387.13

(O₂N)₃CCH₂CH(NO₂)CH₂C(NO₂)₃

SAFETY PROFILE: An explosive. A strong oxidant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

HBE000 CAS: 111-14-8 HR: 2
HEPTANOIC ACID

mf: C₇H₁₄O₂ mw: 130.21

PROP: Oily liquid; disagreeable, rancid odor; less odor when very pure. D: 0.9345 @ 0°/4°, mp: -9°, bp: 223.0°. Sol in alc, ether, and ethanol.

SYNS: ENANTHIC ACID □ ENANTHYLIC ACID □ HEPHTLIC ACID □ n-HEPTOIC ACID □ n-HEPTYLIC ACID □ HEXACID C-7 □ 1-HEXANECARBOXYLIC ACID □ OENANTHIC ACID □ OENANTHYLIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:7000 mg/kg FDRLI* 123,-,76

orl-mus LD50:6400 mg/kg BIJOAK 34,1196,40

ivn-mus LD50:1200 mg/kg APTOA6 18,141,61

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intravenous route. Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and fumes.

HBE500 CAS: 543-49-7 HR: 2
2-HEPTANOL

mf: C₇H₁₆O mw: 116.23

PROP: Liquid. Bp: 160.4°, flash p: 160°F (OC), d: 0.8344 @ 0°, vap press: 1 mm @ 14.6°, vap d: 4.01. Insol in water; sol in alc, ether, and benzene.

SYNS: AMYL METHYL CARBINOL

□ HEPTANOL-2 □ 2-HYDROXYHEPTANE □ METHYL AMYL CARBINOL

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 10,61,54

eye-rbt 250 µg open SEV AMIHBC 10,61,54

orl-rat LD50:2580 mg/kg AMIHBC 10,61,54

skn-rbt LD50:1780 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and severe eye irritant. Combustible when exposed to heat and flame; can react vigorously with oxidizers. To fight fire, use foam, CO₂, dry chemical. See also ALCOHOLS.

HBF000 CAS: 589-82-2 HR: 3
3-HEPTANOL

mf: C₇H₁₆O mw: 116.23

PROP: Liquid. Bp: 156.2°, flash p: 140°F (COC), fp: -70°, d: 0.8224 @ 20°/20°, vap press: 0.5 mm @ 20°, vap d: 4.01.

SYN: 3-HYDROXYHEPTANE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 4,119,51

eye-rbt 20 mg open SEV AMIHBC 4,119,51

orl-rat LD50:1870 mg/kg AMIHBC 4,119,51

skn-rbt LD50:4360 mg/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Moderately toxic skin contact. A moderate skin and severe eye irritant. Flammable liquid when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.

HBF500 CAS: 63039-95-2 HR: 3
3-HEPTANOL-6-METHYL-3-PHENYL-1-(N-PIPERIDYL) HYDROCHLORIDE

mf: C₁₉H₃₁NO•ClH mw: 325.97

SYNS: α -(3-METHYL-BUTANE)- α -(2-PIPERIDYLETHYL) BENZYL ALCOHOL HYDROCHLORIDE \square 1-(N-PIPERIDYL)-6-METHYL-3-PHENYL HEPTANOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:84 mg/kg JPETAB 96,151,49
ivn-rat LD50:25 mg/kg JPETAB 96,151,49
ipr-mus LD50:110 mg/kg JPETAB 96,151,49
ivn-mus LD50:31 mg/kg JPETAB 96,151,49

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

HBF550 CAS: 30406-18-9 HR: 2
HEPTANOYLHYDROXAMIC ACID

mf: C₇H₁₅NO₂ mw: 145.23

SYNS: ENENTHOHYDROXAMIC ACID \square HEPTANAMIDE, N-HYDROXY- \square HEPTANOHYDROXAMIC ACID \square N-HYDROXYHEPTANAMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3200 mg/kg GISAAA 42(3),99,77
orl-mus LD50:1900 mg/kg GISAAA 42(3),99,77

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HBF600 CAS: 32941-30-3 HR: 3
4-HEPTANOYLPYRIDINE

mf: C₁₂H₁₇NO mw: 191.30

SYNS: 1-HEPTANONE, 1-(4-PYRIDYL)- \square HEPTYL 4-PYRIDYL KETONE \square KETONE, HEPTYL 4-PYRIDYL \square PYRIDINE, 4-HEPTANOYL- \square 1-(4-PYRIDYL)-1-HEPTANONE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:345 mg/kg JMC MAR 14,551,71

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

HB1500 CAS: 12258-22-9 HR: 3
HEPTA SILVER NITRATE OCTAOXIDE

mf: Ag₇NO₁₁ mw: 945.10

PROP: IDLH 10 mg/m³ (as Ag).

CONSENSUS REPORTS: Silver and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Unstable. It explodes weakly at 110°C. Forms impact-sensitive explosive mixtures with phosphorus and sulfur. Ignites on contact with hydrogen. Ignites when ground with antimony trisulfide. See also SILVER COMPOUNDS.

HB1725 CAS: 66486-68-8 HR: 3
HEPTA-1,3,5-TRIENE

mf: C₇H₄ mw: 88.11



SAFETY PROFILE: Explodes above 0°C in the absence of air. The residue from distillation explodes on contact with air. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.

HB1770 CAS: 18829-55-5 HR: 2

2-HEPTENAL, (E)-

mf: C₇H₁₂O mw: 112.19

PROP: Green, grassy, herbaceous, spicy, fruity ester like odor.

SYNS: β -BUTYLACROLEIN \square 3-BUTYLACROLEIN \square (E)-2-HEPTEN-1-AL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1300 mg/kg FCTOD7 26,331,88
skn-rbt LD50:860 mg/kg FCTOD7 26,331,88
skn-gpg LD50:1530 mg/kg FCTOD7 26,331,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HB1800 HR: 3
cis-4-HEPTEN-1-AL

mf: C₇H₁₂O mw: 112.17

PROP: Slightly yellow liquid; fatty odor. Refr index: 1.432–1.436, flash p: 68°F. Sol in alc, fixed oils; insol in water.

SYNS: FEMA No. 3289 \square 4-HEPTENAL \square n-PROPYLIDENE BUTYRALDEHYDE

SAFETY PROFILE: Flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

HBJ000 CAS: 592-76-7 HR: 3
n-HEPTENE

DOT: UN 2278

mf: C₇H₁₄ mw: 98.21

PROP: Colorless liquid, insol in water, sol in ether. D: 0.6969 @ 20°, mp: -10°, bp: 93.6°, flash p: <30.2°F, autoign temp: 707°F.

SYNS: 1-n-HEPTENE \square 1-HEPTYLENE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A simple asphyxiant. See ARGON for a description of simple asphyxiants. Dangerous fire hazard when exposed to heat, flame, or oxidizers. Unknown explosion hazard. To fight fire, use foam, dry chemical, CO₂. When heated to decomposition it emits acrid smoke and fumes.

HBJ500 HR: 3
2-HEPTENE

mf: C₇H₁₄ mw: 98.19

PROP: Clear liquid. Bp: 98.2°, flash p: <30.2°F, d: 0.709 @ 20°/4°, vap d: 3.4.

SAFETY PROFILE: Probably mildly toxic by ingestion and inhalation. A simple asphyxiant. See ARGON for a description of simple asphyxiants. Dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use dry chemical, CO₂, foam. When heated to decomposition it emits acrid smoke and fumes.

HBK350 CAS: 25339-56-4 HR: 3
3-HEPTENE (mixed isomers)

mf: C₇H₁₄ mw: 98.21**PROP:** Liquid (mixture of cis and trans isomers). Bp: 96°, flash p: <19.4°F, d: 0.705 @ 15.5°/25.5°, vap d: 3.38.**SYN:** HEPTYLENE**SAFETY PROFILE:** Probably irritating and narcotic in high concentration. Dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. See also 2-HEPTENE.**HBK450****HR: 3****1-HEPTENE-4,6-DIYNE**mf: C₇H₆ mw: 90.12**SAFETY PROFILE:** An unstable explosive. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.**HBK500****CAS: 18999-28-5****HR: 2****2-HEPTENOIC ACID**mf: C₇H₁₂O₂ mw: 128.19**PROP:** A liquid. Mp: -19°, bp: 225-228°.**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:1600 mg/kg JPPMAB 21,85,69

scu-mus LD50:1600 mg/kg JPPMAB 21,85,69

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. When heated to decomposition it emits acrid smoke and fumes.**HBK700****CAS: 23560-59-0****HR: 3****HEPTENOPHOS**mf: C₉H₁₂ClO₄P mw: 250.63**PROP:** Pale amber liquid, bp: 94-95°, d: 1.294. Vap press @ 20°: 0.00075 mm Hg. Misc in most org solvs. Sol in xylene, acetone, methanol.**SYNS:** 7-CHLOROBICYCLO(3.2.0)HEPTA-2,6-DIEN-6-YL DIMETHYL PHOSPHATE □ O,O-DIMETHYL-O-(6-CHLORO-BICYCLO(3.2.0)HEPTADIEN-1,5-YL)PHOSPHATE □ 5-(O,O-DIMETHYLPHOSPHORYL)-6-CHLOROBICYCLO(3.2.0)-HEPTA-1,5-DIEN □ HOE 2982 □ HOE 2982 OJ □ HOSTAQUICK □ HOSTAVIK (RUSSIAN) □ RAGADAN □ XOE 2982 (RUSSIAN)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:96 mg/kg 85ARAE 1,11,77

ihl-rat LC50:400 mg/m³/4H 85JFAN A226,83

skn-rat LD50:2 g/kg GISAAA 49(4),18,84

skn-mus LD50:2 g/kg GISAAA 49(4),18,84

SAFETY PROFILE: Poison by ingestion and inhalation. Moderately toxic by skin contact. When heated to decomposition it emits toxic fumes of Cl⁻ and PO_x. See also PHOSPHATES.**HBL000****CAS: 112-06-1****HR: 1****n-HEPTYL ACETATE**mf: C₉H₁₈O₂ mw: 158.27**PROP:** Colorless liquid. D: 0.875, mp: -50.2°, bp: 192.5°. Insol in water; sol in alc and ether.**SYNS:** ACETATE C-7 □ HEPTANYL ACETATE □ HEPTYL ACETATE □ 1-HEPTYL ACETATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTXAV 12,813,74

orl-rat LD50:>5 g/kg FCTXAV 12,813,74

skn-rbt LD50:>5 g/kg FCTXAV 12,813,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. Irritating to skin, eyes and mucous membranes. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.**HBL100****CAS: 2499-58-3****HR: 2****HEPTYL ACRYLATE**mf: C₁₀H₁₈O₂ mw: 170.28**SYNS:** ACRYLIC ACID, HEPTYL ESTER □ ENT 15,748 □ 2-PROPENOIC ACID, HEPTYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4500 mg/kg GTPZAB 26(9),52,82

orl-mus LD50:3300 mg/kg GTPZAB 26(9),52,82

ihl-mus LC50:1020 mg/m³ GTPZAB 20(11),41,76**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and inhalation routes. When heated to decomposition it emits acrid smoke and irritating vapors.**HBL500****CAS: 111-70-6****HR: 2****HEPTYL ALCOHOL**mf: C₇H₁₆O mw: 116.23**PROP:** Colorless liquid; citrus odor. Mp: -34.6°, bp: 175.8°, d: 0.824 @ 20°/4°, refr index: 1.423-1.427, flash p: 160°F. Misc in alc, fixed oils, ether; sltly sol in water @ 175°.**SYNS:** l'ALCOOL n-HEPTYLIQUE PRIMAIRE (FRENCH) □ ENANTHIC ALCOHOL □ FEMA No. 2548 □ n-HEPTANOL □ 1-HEPTANOL □ n-HEPTANOL-1 (FRENCH) □ 1-HYDROXYHEPTANE**TOXICITY DATA with REFERENCE:**

sln-ham:lng 2 mmol/L MUREAV 182,135,87

orl-rat LD50:500 mg/kg AMPMAR 35,501,74

orl-mus LD50:1500 mg/kg GISAAA 31,16,66

ihl-mus LC50:6600 mg/kg 85GMAT -,72,82

orl-rbt LD50:750 mg/kg HYSAAV 31,310,66

skn-rbt LD50:2 g/kg AMPMAR 35,501,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and skin contact. Mildly toxic by inhalation. Mutation data reported. Combustible liquid. Can react with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.**HBL600****CAS: 111-68-2****HR: 3****1-HEPTYLAMINE****DOT:** UN 2733/UN 2734mf: C₇H₁₇N mw: 115.25**SYNS:** 1-AMINOHEPTANE □ 1-HEPTANAMINE □ HEPTYLAMINE □ n-HEPTYLAMINE**TOXICITY DATA with REFERENCE:**

ipr-rat LDLo:75 mg/kg FATOAO 31,238,68

ipr-mus LD50:100 mg/kg JAPMA8 30,623,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive, Flammable Liquid (UN 2734); DOT Class: 3; Label: Flammable Liquid, Corrosive (UN 2733)

SAFETY PROFILE: Poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x .

HBM490 CAS: 123-82-0 HR: 3
2-HEPTYLAMINE

mf: $\text{C}_7\text{H}_{17}\text{N}$ mw: 115.25

SYNS: di-2-AMINOHEPTANE \square ARMEEN L-7 \square HEPTAMINE \square 2-HEPTANAMINE \square HEPTEDRINE \square 1-METHYL-HEXYLAMINE \square RINEPTIL \square TUAMINE \square TUAMINOHEPTANE

TOXICITY DATA with REFERENCE:

scu-rat LD50:130 mg/kg JPETAB 85,119,45

ipr-mus LDLo:60 mg/kg JAPMA8 30,623,41

scu-mus LD50:115 mg/kg FEPA7 4,139,45

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x .

HBM500 CAS: 28292-42-4 HR: 3
3-HEPTYLAMINE

mf: $\text{C}_7\text{H}_{17}\text{N}$ mw: 115.25

SYN: 3-AMINOHEPTANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:70 mg/kg JAPMA8 30,623,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Probably flammable. When heated to decomposition it emits acrid smoke and fumes. See also AMINES.

HBN000 CAS: 63019-32-9 HR: 2
8-HEPTYLBENZ(a)ANTHRACENE

mf: $\text{C}_{25}\text{H}_{26}$ mw: 326.51

SYN: 5-n-HEPTYLBENZ(1:2)BENZANTHRACENE

TOXICITY DATA with REFERENCE:

skn-mus TDLo:1970 mg/kg/82W-I:ETA PRLBA4 131,170,42

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.

HBN100 CAS: 629-04-9 HR: 2
n-HEPTYL BROMIDE

mf: $\text{C}_7\text{H}_{15}\text{Br}$ mw: 179.13

PROP: Transparent liquid. Bp: $66-68^\circ$, d: 1.139 @ 20°

SYNS: 1-BROMOHEPTANE \square HEPTANE, 1-BROMO- \square HEPTYL BROMIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2440 mg/kg GTPZAB 20(12),52,76

ihl-uns LC50:12 g/ m^3 GTPZAB 18(4),55,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Slightly toxic by inhalation. When heated to decomposition it emits toxic vapors of Br^- .

HBN150 CAS: 5870-93-9 HR: 2
HEPTYL BUTYRATE

mf: $\text{C}_{11}\text{H}_{22}\text{O}_2$ mw: 186.33

PROP: Almost colorless liquid with sweet green yet fresh and slightly tea like odor. Bp: 225° . Flash pt: above 100° C. Insol in water.

SYNS: BUTANOIC ACID, HEPTYL ESTER \square BUTYRIC ACID, HEPTYL ESTER \square HEPTYL BUTANOATE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5 g/kg FCTOD7 26,333,88

skn-rbt LD50:>5 g/kg FCTOD7 26,333,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

HBN200 CAS: 104-67-6 HR: 1
 γ -HEPTYLBUTYROLACTONE

mf: $\text{C}_{11}\text{H}_{20}\text{O}_2$ mw: 184.31

PROP: Fragrance.

SYNS: ALDEHYDE C-14 \square ALDEHYDE C-14 PEACH \square 2(3H)-FURANONE, 5-HEPTYLDIHYDRO- \square γ -n-HEPTYLBUTYROLACTONE \square 4-HYDROXYUNDECANOIC ACID LACTONE \square 4-HYDROXYUNDECANOIC ACID, γ -LACTONE \square PEACH ALDEHYDE \square PEACH LACTONE \square PERSICOL \square γ -UNDECALACTONE \square UNDECANOIC ACID, 4-HYDROXY-, γ -LACTONE \square γ -UNDECANOLACTONE \square γ -UNDECANOLIDE \square 1,4-UNDECANOLIDE \square 4-UNDECANOLIDE \square γ -UNDEKALAKTON

TOXICITY DATA with REFERENCE:

skn-rbt 100 mg/24H SEV CTOIDG 94(8),41,79

skn-gpg 100 mg/24H MOD CTOIDG 94(8),41,79

dnr-bcs 10 mg/disc OIGZSE 34,267,85

orl-rat LD50:18,500 mg/kg FCTXAV 2,327,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Slightly toxic by ingestion. A severe skin irritant. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HBN250 CAS: 7409-44-1 HR: 2
HEPTYL CELLOSOLVE

mf: $\text{C}_9\text{H}_{20}\text{O}_2$ mw: 160.29

SYNS: ETHANOL, 2-(HEPTYLOXY)- \square ETHYLENE GLYCOL MONOHEPTYL ETHER \square 2-(HEPTYLOXY)ETHANOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD VHTODE 29,361,87

eye-rbt 100 mg SEV VHTODE 29,361,87

orl-rat LD50:2280 mg/kg VHTODE 29,361,87

SAFETY PROFILE: Moderately toxic by ingestion. A moderate skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

HBN500 CAS: 137-03-1 HR: 1
 α -HEPTYL CYCLOPENTANONE

mf: $\text{C}_{12}\text{H}_{22}\text{O}$ mw: 182.34

PROP: Bp: $140-143^\circ$ @ 24 mm.

SYN: 2-n-HEPTYL CYCLOPENTANONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 13,449,75

orl-rat LD50:>5 g/kg FCTXAV 13,452,75

skn-rbt LD50:5000 mg/kg FCTXAV 13,452,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also KETONES.

HBN600 CAS: 64049-21-4 HR: 3
HEPTYLDICHLORARSINE

mf: $C_7H_{15}AsCl_2$ mw: 245.04

SYNS: ARSINE, DICHLOROHEPTYL- □ TL 229

TOXICITY DATA with REFERENCE:

ihl-mus LC50:13,100 mg/m³/10M NTIS** PB158-508

skn-mus LD50:40 mg/kg NTIS** PB158-508

OSHA PEL: TWA 0.5 mg(As)/m³

SAFETY PROFILE: Poison by skin contact. Slightly toxic by inhalation. When heated to decomposition it emits toxic fumes of As and Cl⁻.

HBN700 CAS: 60254-66-2 HR: 1
HEPTYL N,N-DIETHYLOXAMATE

mf: $C_{13}H_{25}NO_3$ mw: 243.39

SYNS: ACETIC ACID, (DIETHYLAMINO)OXO-, HEPTYL ESTER □ HEPTYL (DIETHYLAMINO)OXOACETATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:23 g/kg VETNAL 52(5),42,1975

SAFETY PROFILE: Low toxicity by ingestion and skin contact. ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HBO000 CAS: 629-64-1 HR: 2
HEPTYL ETHER

mf: $C_{14}H_{30}O$ mw: 214.44

SYNS: DIHEPTYL ETHER □ ETHER, DI-n-HEPTYL- □ HEPTANE, 1,1'-OXYBIS-(9CI) □ 1,1'-OXYBISHEPTANE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:470 mg/kg JPMSAE 67,566,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits acrid smoke and fumes. See also ETHERS.

HBO500 CAS: 112-23-2 HR: 1
HEPTYL FORMATE

mf: $C_8H_{16}O_2$ mw: 144.24

SYNS: FORMIC ACID, HEPTYL ESTER □ HEPTANOL, FORMATE □ n-HEPTYL METHANOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,771,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

HBO600 CAS: 2656-72-6 HR: 3
HEPTYL HYDRAZINE

mf: $C_7H_{18}N_2$ mw: 130.27

SYN: HYDRAZINE, HEPTYL-

TOXICITY DATA with REFERENCE:

scu-mus TDLo:3 mg/kg (female 1-6D post):REP JOENAK 27,147,63

ipr-mus LD50:150 mg/kg JOENAK 27,147,63

SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

HBO650 CAS: 1085-12-7 HR: 2
HEPTYL 4-HYDROXYBENZOATE

mf: $C_{14}H_{20}O_3$ mw: 236.34

SYNS: BENZOIC ACID, p-HYDROXY-, HEPTYL ESTER □

BENZOIC ACID, 4-HYDROXY-, HEPTYL ESTER (9CI) □ HEPTYL

p-HYDROXYBENZOATE □ HEPTYL PARABEN □ p-

HYDROXYBENZOIC ACID HEPTYL ESTER □ NIPAHEPTYL □

p-OXYBENZOSAEUREHEPTYLESTER □ STAYPRO WS 7

TOXICITY DATA with REFERENCE:

scu-mus LD50:4000 mg/kg AIPTAK 128,135,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by subcutaneous route. When heated to decomposition it emits acrid smoke and irritating vapors.

HBO700 HR: 2
HEPTYLIDENE METHYL ANTHRANILATE

mf: $C_{15}H_{21}NO_2$ mw: 247.37

SYN: HEPTALDEHYDE METHYLANTHRANILATE, Schiff's base

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTOD7 20(Suppl),705,82

orl-rat LD50:2600 mg/kg FCTOD7 20(Suppl),705,82

skn-rbt LD50:2500 mg/kg FCTOD7 20(Suppl),705,82

SAFETY PROFILE: Moderately toxic by skin contact and ingestion. A skin irritant. When heated to decomposition it emits toxic fumes of NO_x.

HBO790 CAS: 818-23-5 HR: 3
HEPTYL KETONE

mf: $C_{15}H_{30}O$ mw: 226.45

SYNS: CAPRYLONE □ DIHEPTYL KETONE □ 8-OXOPENT-ADECANE □ 8-PENTADECANONE □ PENTADECAN-8-ONE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:1194 mg/kg JPMSAE 67,566,78

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intravenous route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

HBO800 CAS: 51308-74-8 HR: 2
HEPTYL (4-(1-METHYLETHYL)PHENYL)-METHYL 3-PYRIDINYLCARBONIMIDODITHIOATE

mf: $C_{23}H_{32}N_2S_2$ mw: 400.69

SYN: CARBONIMIDODITHIOIC ACID, 3-PYRIDINYL-, HEPTYL (4-(1-METHYLETHYL)PHENYL)METHYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD50:>1 g/kg USXXAM #3899582

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x .

HBP000 CAS: 16338-99-1 HR: 2
HEPTYLMETHYLNITROSAMINE

mf: $\text{C}_8\text{H}_{18}\text{N}_2\text{O}$ mw: 158.28

SYNS: METHYLHEPTYLNITROSAMIN (GERMAN) \square N-METHYL-N-NITROSOHEPTYLAMINE \square N-NITROSO-N-METHYLHEPTYLAMINE

TOXICITY DATA with REFERENCE:

mma-sat 50 $\mu\text{g}/\text{plate}$ TCMUD8 1,295,80
 scu-rat LD50:420 mg/kg ZEKBAI 69,103,67

SAFETY PROFILE: Moderately toxic by subcutaneous route. Mutation data reported. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x . See also N-NITROSO COMPOUNDS.

HBP250 CAS: 24346-78-9 HR: 2
1-HEPTYL-1-NITROSOUREA

mf: $\text{C}_8\text{H}_{17}\text{N}_3\text{O}_2$ mw: 187.28

SYN: n-HEPTYL NITROSOUREA

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x .

HBP275 CAS: 25961-87-9 HR: 2
2-(2-(HEPTYLOXY)ETHOXY)ETHANOL

mf: $\text{C}_{11}\text{H}_{24}\text{O}_3$ mw: 204.35

SYNS: DIETHYLENE GLYCOL MONOHEPTYL ETHER \square ETHANOL, 2-(2-(HEPTYLOXY)ETHOXY)-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD VHTODE 29,361,87
 eye-rbt 100 mg SEV VHTODE 29,361,87
 orl-rat LD50:2940 mg/kg VHTODE 29,361,87

SAFETY PROFILE: Moderately toxic by ingestion. A moderate skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

HBP285 CAS: 13037-86-0 HR: D
4-(HEPTYLOXY)PHENOL (9CI)

mf: $\text{C}_{13}\text{H}_{20}\text{O}_2$ mw: 208.33

SYNS: p-(HEPTYLOXY)PHENOL \square PHENOL, p-(HEPTYLOXY)-

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

HBP300 HR: D
HEPTYLPARABEN

mf: $\text{C}_{14}\text{H}_{20}\text{O}_3$ mw: 236.31

PROP: Small colorless crystals or white crystalline powder; odorless, burning taste. Mp: 48–51°. Sol in alc, ether; very sltly sol in water.

SYN: n-HEPTYL p-HYDROXYBENZOATE

SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

HBP350 CAS: 5284-22-0 HR: 2
o-HEPTYLPHENOL

mf: $\text{C}_{13}\text{H}_{20}\text{O}$ mw: 192.33

SYNS: o-n-HEPTYLPHENOL \square 2-HEPTYLPHENOL \square PHENOL, 2-HEPTYL-(9CI) \square PHENOL, o-HEPTYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:2750 mg/kg JPETAB 53,218,35

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HBP400 CAS: 3648-21-3 HR: D
HEPTYL PHTHALATE

mf: $\text{C}_{22}\text{H}_{34}\text{O}_4$ mw: 362.56

SYNS: 1,2-BENZENEDICARBOXYLIC ACID, DIHEPTYL ESTER (9CI) \square DIHEPTYL PHTHALATE \square DI-n-HEPTYL PHTHALATE \square PHTHALIC ACID, DIHEPTYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus TDLo:2500 mg/kg (female 9D post):TER
 SEIJBO 17,380,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An experimental teratogen. When heated to decomposition it emits acrid smoke and irritating fumes.

HBP410 CAS: 101246-68-8 HR: 3
(-)-HEPTYLPHYSOSTIGMINE

mf: $\text{C}_{21}\text{H}_{33}\text{N}_3\text{O}_2$ mw: 359.57

SYN: CARBAMIC ACID, HEPTYL-, 1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO(2,3-B)INDOL-5-YL ESTER, (3AS-CIS)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:24 mg/kg JMCMAR 37,1996,94

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x .

HBP425 CAS: 2435-16-7 HR: 1
2-HEPTYL-TETRAHYDROFURAN

mf: $\text{C}_{11}\text{H}_{22}\text{O}$ mw: 170.33

SYNS: FLORANE \square FURAN, TETRAHYDRO-2-HEPTYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTXAV 26,335,88
 skn-rbt LD50:>5 g/kg FCTXAV 26,335,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HBP435 CAS: 67293-51-0 HR: 3
 α -HEPTYL-3,4,5-TRIMETHOXYPHENETHYL-AMINE

mf: $\text{C}_{18}\text{H}_{31}\text{NO}_3$ mw: 309.50

SYN: PHENETHYLAMINE, α -HEPTYL-3,4,5-TRIMETHOXY-

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:200 mg/kg EXPEAM 19,127,1963

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

HBP450 CAS: 713-95-1 HR: 1
***n*-HEPTYL- Δ -VALEROLACTONE**

mf: C₁₂H₂₂O₂ mw: 198.34

SYNS: Δ -DODECALACTONE □ 5-HYDROXYDODECANOIC ACID LACTONE □ 5-HYDROXYDODECANOIC ACID Δ -LACTONE □ 2H-PYRAN-2-ONE, 6-HEPTYLTETRAHYDRO-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,773,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

HBS500 CAS: 1002-36-4 HR: 3
2-HEPTYN-1-OL

mf: C₇H₁₂O mw: 112.17

SAFETY PROFILE: The residue from distillation is explosive. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.

HBT000 CAS: 1057-81-4 HR: 3
HEPZIDINE MALEATE

mf: C₂₁H₂₅NO•C₄H₄O₄ mw: 423.55

PROP: Crystals from ethanol. Mp: 153–156°.

SYNS: BS 7051 □ 4-((10,11-DIHYDRO-5H-DIBENZO(a,d)-CYCLOHEPTEN-5-YL)OXY)-1-METHYLPIPERIDINE HYDROGEN MALEATE □ 4-((10,11-DIHYDRO-5H-DIBENZO(a,d)-CYCLOHEPTEN-5-YL)OXY)-1-METHYLPIPERIDINE, MALEATE (1:1)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1500 mg/kg AIPTAK 167,334,67

ivn-rat LDLo:37 mg/kg AIPTAK 162,497,66

orl-mus LD50:306 mg/kg AIPTAK 167,334,67

ipr-mus LD50:102 mg/kg AIPTAK 167,334,67

scu-mus LD50:156 mg/kg AIPTAK 167,334,67

ivn-mus LD50:30 mg/kg ARZNAD 16,1342,66

orl-dog LD50:588 mg/kg AIPTAK 167,334,67

SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x.

HBT100 CAS: 39324-65-7 HR: 2
HERBIFERT

mf: C₉H₁₇N₅S•C₈H₁₄ClN₅ mw: 443.09

SYNS: AMETRYN-ATRAZINE MIXT. □ AMETRYNE-ATRAZINE MIXT. □ AMEZIN □ AMEZIN S 47 □ ATRAZINE-AMETRYNE MIXT. □ ATROMET □ ATROMET T □ GESAPAX COMBI □ GESAPRIM 1802 □ GESAPRIM FORTE □ 1,3,5-TRIAZINE-2,4-DIAMINE, 6-CHLORO-N-ETHYL-N¹-(1-METHYLETHYL)-, MIXT. WITH N-ETHYL-N¹-(1-METHYLETHYL)-6-(METHYLTHIO)-1,3,5-TRIAZINE-2,4-DIAMINE □ TSEMERIN □ ZEMERIN

TOXICITY DATA with REFERENCE:

orl-rat LD50:1300 mg/kg KHZDAN 20,132,1977

skn-rat LD :>4 g/kg KHZDAN 20,132,1977

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Cl⁻.

HBT500 CAS: 561-27-3 HR: 3
HEROIN

mf: C₂₁H₂₃NO₅ mw: 369.45

PROP: White, odorless, bitter crystals from MeOH; or crystalline powder; or prisms from EtOAc. Mp: 173°, bp: 273° @ 12 mm.

SYNS: ACETOMORFINE □ ACETOMORPHINE □ ASPRON □ BOY □ DIACEPHIN □ DIACETYLMORFIN □ DIACETYLMORPHINE □ DIAMORFINA □ DIAMORPHINE □ DIAPHORM □ DIASETIELMORFIEN □ DIASETILMORFIN □ DIASETYLMORFIIMI □ DIAZETYLMORPHINE □ 7,8-DIHYDRO-4,5- α -EPOXY-17-METHYLMORPHINAN-3,6- α -DIOL DIACETATE □ DOOJE □ ECLORION □ EROINA □ "H" □ HAIRY □ HARRY □ HEROIEN □ HEROINI □ HEROLAN □ HORSE □ IEROIN □ IROINI □ JOY POWDER □ MORPHACETIN □ MORPHINE DIACETATE □ PREZA □ SCOT □ WHITE STUFF

TOXICITY DATA with REFERENCE:

cyt-mky-ivn 141 mg/kg/26W-I MUREAV 118,77,83

sce-mky-ivn 141 mg/kg/26W-I MUREAV 118,77,83

scu-mus LDLo:262 mg/kg JPETAB 53,430,35

ice-mus LD50:137 μ g/kg EJPHAZ 85,317,82

scu-dog LDLo:25 mg/kg HBAMAK 4,1289,35

orl-cat LDLo:20 mg/kg HBAMAK 4,1289,35

scu-gpg LDLo:400 mg/kg HBAMAK 4,1289,35

SAFETY PROFILE: A poison by ingestion, intracerebral, and subcutaneous routes. The fatal dose is between 1/6 and 2 grains. Human reproductive effects by subcutaneous and intravenous routes: newborn drug dependence. An experimental teratogen. Experimental reproductive effects. Mutation data reported.

Resembles morphine in its general effects, but acts more strongly on the respiration and is therefore more poisonous. Its depressant effects on the cerebrum appear to be greater than those of codeine. Large doses cause excitement and convulsions in animals and humans. The more common symptoms are headache; disturbance of vision; slow, small, regular pulse; restlessness; cramps in the extremities; slight cyanosis; slow, deep respiration and death from respiratory paralysis. A poisonous, habit-forming drug. When heated to decomposition it emits toxic fumes of NO_x. See also MORPHINE.

HBU000 CAS: 520-26-3 HR: 2
HESPERIDIN

mf: C₂₈H₃₄O₁₅ mw: 610.62

PROP: Hygroscopic needles. Mp: 258–262° decomp; sltly sol in alc; insol in ether and benzene.

SYNS: CIRANTIN □ 7-(6- α -(6-DEOXY- α -1-MANNOPYRANOSYL)- β -d-GLUCOPYRANOSIDE)HESPERETIN □ HESPERIDOSIDE □ HESPERITIN-7-RHAMNOGLUCOSIDE □ USAF CF-3

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1000 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes.

HBU400 CAS: 24292-52-2 HR: D**HESPERIDIN METHYLCHALCONE**mf: $C_{29}H_{36}O_{15}$ mw: 624.65SYN: CHALCONE, 2',3,4'-TRIHYDROXY-4,6'-DIMETHOXY-, 4'-(6-O-(6-DEOXY- α -1-MANNOPYRANOSYL)- β -D-GLUCOPYRANOSIDE)**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.**HBU410 CAS: 99759-48-5 HR: 3****HETERATISINE 6-BENZOATE**mf: $C_{29}H_{37}NO_6$ mw: 495.67SYNS: 6-BENZOYLHETERATISINE \square 6-o-BENZOYLHETERATISINE \square 8H-13,3,6A-ETHANYLYLIDENE-7,10-METHANO-OXEPINO(3,4-I)-1-BENZAZOCIN-8-ONE, TETRADECAHYDRO-14-(BENZOYLOXY)-1-ETHYL-12A-HYDROXY-6-METHOXY-3-METHYL-, (3R-(3- α ,6- β ,6A- α ,7- β ,7A- α ,10- β ,12A- α ,13- α ,13A- β ,14S*,15R*)) \square HETERATISAN-14-ONE, 6-(BENZOYLOXY)-2-o-ETHYL-8-HYDROXY-1-METHOXY-4-METHYL-, (1- α ,6- β)**TOXICITY DATA with REFERENCE:**ivn-mus LD50:2150 μ g/kg EJPHAZ 337,165,1997**SAFETY PROFILE:** A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x .**HBU415 CAS: 40626-35-5 HR: 3****HETEROPHOS**mf: $C_{11}H_{17}O_3PS$ mw: 260.31SYNS: HETEROFOS \square PHOSPHOROTHIOIC ACID, o-ETHYL o-PHENYL S-PROPYL ESTER \square PHOSTIL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:295 mg/kg KSKZAN 16(2),59,1978

orl-mus LD50:55 mg/kg PCBPBS 6,85,1976

orl-ckn LDLo:6 mg/kg VETNAL 60(1),67,1984

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of SO_x and PO_x .**HBU425 CAS: 14023-85-9 HR: 3****HEXAAMINE COBALT(III) ACETATE**mf: $C_6H_9O_6 \cdot CoH_{18}N_6$ mw: 338.32SYNS: COBALT(3⁺), HEXAAMINE-, (OC-6-11)-, TRIACETATE \square HEXAAMINECOBALT TRIACETATE \square HEXAAMINE-COBALT(3⁺) TRIACETATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:100 mg/kg NTIS** OTS0555388

ipr-rat LD50:50 mg/kg NTIS** OTS0555388

orl-mus LD50:200 mg/kg NTIS** OTS0555388

ipr-mus LD50:25 mg/kg NTIS** OTS0555388

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x and Co.**HBU500 HR: 3****HEXAAMMINECHROMIUM(III) NITRATE**mf: $CrH_{18}N_9O_9$ mw: 340.203 $[(H_3N)_6Cr][NO_3]_3$ **PROP:** IDLH 25 mg/ m^3 [as Cr(III)].**CONSENSUS REPORTS:** Chromium and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** A moderately impact-sensitive explosive which explodes when heated to 263°C. Upon decomposition it emits toxic fumes of NO_x . See also NITRATES and CHROMIUM COMPOUNDS.**HBV000 CAS: 26156-56-9 HR: 3****HEXAAMMINECOBALT(III) CHLORATE**mf: $Cl_3CoH_{18}N_6O_9$ mw: 411.48 $[(H_3N)_6Co][ClO_3]_3$ **CONSENSUS REPORTS:** Cobalt and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Unstable and explosive. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x . See also COBALT COMPOUNDS and CHLORATES.**HBV500 HR: 3****HEXAAMMINECOBALT(III) CHLORITE**mf: $Cl_3CoH_{18}N_6O_6$ mw: 363.48 $[(H_3N)_6Co][ClO_2]_2$ **CONSENSUS REPORTS:** Cobalt and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** An impact-sensitive explosive. When heated to decomposition it emits very toxic fumes of NO_x and Cl^- . See also COBALT COMPOUNDS and CHLORITES.**HBW000 CAS: 15742-33-3 HR: 3****HEXAAMMINECOBALT(III) HEXANITRO-COBALTATE (3-)**mf: $Co_2H_{18}N_{12}O_{12}$ mw: 496.19 $[(H_3N)_6Co][Co(NO_2)_6]$ **CONSENSUS REPORTS:** Cobalt and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** An unstable, impact-sensitive explosive. Upon ignition it burns very rapidly. When heated to decomposition it emits toxic fumes of NO_x and NH_3 . See also COBALT COMPOUNDS and AMINES.**HBW500 CAS: 14589-65-2 HR: 3****HEXAAMMINECOBALT(III) IODATE**mf: $CoH_{18}I_3N_6O_9$ mw: 685.81 $[(H_3N)_6Co][IO_3]_3$ **CONSENSUS REPORTS:** Cobalt and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Explodes when heated to 335°C. It has low impact-sensitivity. Upon decomposition it emits very toxic fumes of NO_x and I^- . See also COBALT COMPOUNDS and IODATES.**HBX000 CAS: 10534-86-8 HR: 3****HEXAAMMINECOBALT(III) NITRATE**mf: $CoH_{18}N_9O_9$ mw: 347.14 $[(H_3N)_6Co][NO_3]_3$ **CONSENSUS REPORTS:** Cobalt and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Explodes when heated to 295°C or upon impact. When heated to decomposition it emits

toxic fumes of NO_x. See also COBALT COMPOUNDS and NITRATES.

HBX500 CAS: 13820-83-2 HR: 3
HEXAAMMINECOBALT(III) PERCHLORATE

mf: Cl₃CoH₁₈N₆O₁₂ mw: 459.45
 [(H₃N)₆Co][ClO₄]₃

CONSENSUS REPORTS: Cobalt and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Explodes when heated to 360°C. It is very impact-sensitive. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also COBALT COMPOUNDS and PERCHLORATES.

HBY000 CAS: 22388-72-3 HR: 3
HEXAAMMINECOBALT(III) PERMANGANATE

mf: CoH₁₈Mn₃N₆O₁₂ mw: 517.92

CONSENSUS REPORTS: Manganese and its compounds as well as cobalt and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Explodes on impact or heating. It is extremely sensitive to impact. Upon decomposition it emits toxic fumes of NO_x. See also MANGANESE COMPOUNDS and COBALT COMPOUNDS.

HBY100 CAS: 172903-07-0 HR: D
HEXAAMMINEDICHLOROBIS(MU-(1,5-PENTANEDIAMINE-KAPPAN:KAPPAN'))-TRIPLATINUM(4+), STEREOISOMER

PROP: IDLH 4 mg/m³ (as Pt).

SYN: BBR 3464

TOXICITY DATA with REFERENCE:

add-hmn-oth 15 µmol/L EJCAAH 37,930,2001

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Pt.

HBY200 CAS: 14282-91-8 HR: D
HEXAAMMINERUTHENIUM TRICHLORIDE, HYDRATE

mf: Cl•1/3H₁₈N₆Ru mw: 327.68

SYNS: RUTHENIUM(3+), HEXAAMMINE-, TRICHLORIDE □ HEXAAMMINERUTHENIUM(III)CHLORIDE □ HEXAAMMINE-RUTHENIUM TRICHLORIDE □ HEXAAMMINETRICHOLORUTHENIUM □ RUTHENIUM(3+), HEXAAMMINE-, TRICHLORIDE, (OC-6-11)- □ RUTHENIUM(3+), HEXAAMMINE-, TRICHLORIDE, HYDRATE

TOXICITY DATA with REFERENCE:

mic-sat 400 µmol/L CBINA8 31,355,1980

uns-bcs 500 µmol/L CBINA8 31,355,1980

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, Rh, and Cl⁻.

HBY500 HR: 3
HEXAAMMINETITANIUM(III) CHLORIDE

mf: Cl₃H₁₈N₆Ti mw: 256.42
 [(H₃N)₆Ti]Cl₃

SAFETY PROFILE: Violent reaction with water. When heated to decomposition it emits very toxic fumes

of Cl⁻ and NO_x. See also TITANIUM COMPOUNDS and CHLORIDES.

HBZ000 HR: 3
HEXAAQUACOBALT(II) PERCHLORATE

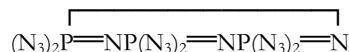
mf: Cl₂CoH₁₂O₁₄ mw: 365.98

CONSENSUS REPORTS: Cobalt and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Explodes on impact. When heated to decomposition it emits toxic fumes of Cl⁻. See also COBALT COMPOUNDS and PERCHLORATES.

HCA000 CAS: 22295-99-4 HR: 3
1,1,3,3,5,5-HEXAAZIDO-2,4,6-TRIAZA-1,3,5-TRIPHOSPHORINE

mf: N₂₁P₃ mw: 387.07



PROP: Colorless oil. Fairly stable to alkali, but rapidly attacked by aq acid. Misc in common org solvs.

SAFETY PROFILE: A violent explosive sensitive to shock or friction. Very unstable. Upon decomposition it emits very toxic fumes of NO_x and PO_x. See also AZIDES.

HCA275 CAS: 23777-80-2 HR: 3
HEXABORANE(10)

mf: B₆H₁₀ mw: 74.94

PROP: A liquid. Mp: -62.3°, bp: 108°.

SAFETY PROFILE: Ignites spontaneously in air. See also BORANES and BORON COMPOUNDS.

HCA285 CAS: 28375-94-2 HR: 3
HEXABORANE(12)

mf: B₆H₁₂ mw: 76.95

SAFETY PROFILE: An unstable material which ignites spontaneously in air. See also BORANES and BORON COMPOUNDS.

HCA385 CAS: 87-82-1 HR: 3
HEXABROMOBENZENE

mf: C₆Br₆ mw: 551.49

TOXICITY DATA with REFERENCE:

ipr-rat TDLo:150 mg/kg JTEHD6 12,223,1983

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of Br⁻.

HCA500 CAS: 36355-01-8 HR: 1
HEXABROMOBIPHENYL

mf: C₁₂H₄Br₆ mw: 627.62

SYNS: HBB □ NCI-C53634 □ POLYBROMINATED BIPHENYL

TOXICITY DATA with REFERENCE:

orl-rat LD50:21,500 mg/kg MFLRA3 38,709,73

orl-mus LD50:>15 g/kg SCIEAS 36(1-4),10,89

skn-rbt LDLo:5 g/kg AIHAAP 38,307,77

CONSENSUS REPORTS: Polybrominated biphenyl compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion and skin contact. When heated to decomposition it emits toxic fumes of Br^- . See also POLYBROMINATED BIPHENYLS.

HCA550 CAS: 36483-60-0 HR: 2
HEXABROMODIPHENYL ETHER

mf: $\text{C}_{12}\text{H}_4\text{Br}_6\text{O}$ mw: 643.62

SYNS: BENZENE, 1,1'-OXYBIS-, HEXABROMO DERIV. □ BR 33N □ HEXABROMODIPHENYL OXIDE

TOXICITY DATA with REFERENCE:

orl-rat LD: >500 mg/kg NCNSA6 5,16,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Br^- .

HCA600 CAS: 56480-06-9 HR: D
HEXABROMONAPHTHALENE

mf: $\text{C}_{10}\text{H}_2\text{Br}_6$ mw: 601.58

SYN: NAPHTHALENE, HEXABROMO-

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Br^- .

HCA650 CAS: 75625-24-0 HR: 3
1,2,3,4,6,7-HEXABROMONAPHTHALENE

mf: $\text{C}_{10}\text{H}_2\text{Br}_6$ mw: 601.58

SYN: NAPHTHALENE, 1,2,3,4,6,7-HEXABROMO-

TOXICITY DATA with REFERENCE:

orl-gpg LD50:361 $\mu\text{g}/\text{kg}$ PSSID2 5,367,1982

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of Br^- .

HCA700 CAS: 4808-30-4 HR: 3
1,1,1,3,3,3-HEXABUTYLDISTANNTHIANE

mf: $\text{C}_{24}\text{H}_{54}\text{SSn}_2$ mw: 612.22

PROP: Colorless oil. Bp: 208° (decomp).

SYNS: BIS(TRIBUTYLTIN)SULFIDE □ DISTANNATHIANE, HEXABUTYL-(9CI) □ DISTANNTHIANE, HEXABUTYL- □ HEXABUTYLDISTANNTHIANE □ TRIBUTYLTIN SULFIDE

TOXICITY DATA with REFERENCE:

orl-mus LDLo:470 mg/kg AECTCV 14,111,85

ipr-mus LD50:144 mg/kg RPTOAN 42,73,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 mg(Sn)/ m^3

ACGIH TLV: TWA 0.1 mg(Sn)/ m^3 ; STEL 0.2 mg/ m^3 (skin)

NIOSH REL: (Organotin Compounds) 10H TWA 0.1 mg(Sn)/ m^3

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x and Sn.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

HCB000 CAS: 13007-92-6 HR: 3
HEXACARBONYLCHROMIUM

mf: C_6CrO_6 mw: 220.06

(OC) $_6\text{Cr}$

PROP: Colorless crystals from methylcyclohexane or by sublimation. Mp: $152-155^\circ$. Sltly sol in CCl_4 ; insol in H_2O , EtOH, and Et_2O . IDLH Ca [15 mg/ m^3 {as Cr(VI)}].

SYNS: CHROMIUM CARBONYL (MAK) □ CHROMIUM CARBONYL (OC-6-11) (9CI) □ CHROMIUM HEXACARBONYL □ HEXACARBONYL CHROMIUM

TOXICITY DATA with REFERENCE:

cyt-ham:lng 2 g/L MUREAV 241,175,90

orl-rat LD50:230 mg/kg GTPZAB 20(2),38,76

ihl-rat LCLo:35 mg/ m^3 /30M GTPZAB 20(2),38,76

orl-mus LD50:150 mg/kg GTPZAB 20(2),38,76

ivn-mus LD50:30 mg/kg AQMOAC #70-15,70

CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 23,205,80; Chromium and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: CL 0.1 mg(CrO $_3$)/ m^3

ACGIH TLV: TWA 0.05 mg(Cr)/ m^3 ; Confirmed Human Carcinogen

DFG MAK: DFG TRK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Chromium(VI)) TWA 0.001 mg(Cr(VI))/ m^3

SAFETY PROFILE: Confirmed carcinogen with experimental tumorigenic data. Poison by ingestion and intravenous routes. Mutation data reported. Explodes at 210°C . See also CHROMIUM COMPOUNDS and CARBONYLS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Chromium Hexavalent 7024.

HCB500 CAS: 13939-06-5 HR: 3
HEXACARBONYLMOLYBDENUM

mf: C_6MoO_6 mw: 264.00

(CO) $_6\text{Mo}$

PROP: Colorless, odorless, air-stable, diamagnetic solid. Sol in org solvs. IDLH 1000 mg/ m^3 (as Mo).

SAFETY PROFILE: Solutions in diethyl ether may explode in storage. When heated to decomposition it emits acrid smoke and fumes. See also MOLYBDENUM COMPOUNDS and CARBONYLS.

HCC000 CAS: 14040-11-0 HR: 2
HEXACARBONYLTUNGSTEN

mf: $\text{C}_6\text{O}_6\text{W}$ mw: 351.92

(CO) $_6\text{W}$

PROP: Air-stable, colorless, odorless crystals. Mp: 150° (decomp). Sltly sol in hexane.

SAFETY PROFILE: Dangerous during preparation procedures. When heated to decomposition it emits toxic fumes of CO. See also TUNGSTEN COMPOUNDS and CARBONYLS.

HCC475 CAS: 14024-00-1 HR: 3
HEXACARBONYL VANADIUM

mf: $\text{C}_6\text{O}_6\text{V}$ mw: 219.00

(CO) $_6\text{V}$

PROP: Dark-blue crystals by vac sublimation; yellow in soln. Sltly sol in saturated hydrocarbons; reacts with aromatic hydrocarbons, donating solvs.

SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits acrid toxic fumes of VO_x . See also VANADIUM COMPOUNDS and CARBONYLS.

HCC500 CAS: 118-74-1 HR: 3
HEXACHLOROBENZENE

DOT: UN 2729

mf: C_6Cl_6 mw: 284.76

PROP: Needles from 2-propanol. Mp: 226° , bp: $323\text{--}326^\circ$, flash p: 468°F , vap press: 1 mm @ 114.4° , vap d: 9.8, d: 2.44. Insol in water; sol in benzene; very sltly sol in hot alc; sol in hot ether and chloroform.

SYNS: AMATIN \square ANTICARIE \square BUNT-CURE \square BUNT-NO-MORE \square CEKU C.B. \square CO-OP HEXA \square ESACHLOROBENZENE (ITALIAN) \square GRANOX NM \square HCB \square HEXA C.B. \square HEXACHLOROBENZOL (GERMAN) \square JULIN'S CARBON CHLORIDE \square NO BUNT \square NO BUNT 40 \square NO BUNT 80 \square NO BUNT LIQUID \square PENTACHLOROPHENYL CHLORIDE \square PERCHLOROBENZENE \square PHENYL PERCHLORYL \square RCRA WASTE NUMBER U127 \square SAATBEIZFUNGIZID (GERMAN) \square SANOCID \square SANOCIDE \square SMUT-GO \square SNECIOTOX

TOXICITY DATA with REFERENCE:

dnd-esc 20 $\mu\text{mol/L}$ MUREAV 89,95,81

mno-smc 100 ppm RSTUDV 6,161,76

orl-rat TDLo:2738 mg/kg/2Y-C:CAR PAACA3 24,59,83

orl-mus TDLo:6972 mg/kg/83W-C:NEO IJCNAW 23,47,79

orl-ham TDLo:1000 mg/kg/18W-C:CAR NATUAS 269,510,77

unr-man LDLo:220 mg/kg 85DCAI 2,73,70

orl-rat LD50:10,000 mg/kg 85DPAN -,71/76

ihl-rat LC50:3600 mg/ m^3 85GMAT -,72,82

orl-mus LD50:4 g/kg 85GMAT -,72,82

ihl-mus LC50:4 g/ m^3 85GMAT -,72,82

orl-cat LD50:1700 mg/kg 85GMAT -,72,82

ihl-cat LC50:1600 mg/ m^3 85GMAT -,72,82

orl-rbt LD50:2600 mg/kg 85GMAT -,72,82

ihl-rbt LC50:1800 mg/ m^3 85GMAT -,72,82

orl-mam LD50:1047 mg/kg NTIS** PB288-416

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,219,87; Animal Sufficient Evidence IMEMDT 20,155,79; Human Limited Evidence IMEMDT 20,155,79. Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

ACGIH TLV: TWA 0.002 (skin); Animal Carcinogen

DFG MAK: Not Classifiable as a Human Carcinogen; BAT: 15 $\mu\text{g/dL}$ in plasma/serum

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and teratogenic data. A human poison by an unspecified route. Experimental reproductive effects. Mildly toxic experimentally by inhalation. Mutation data reported. A fungicide. Combustible when exposed to heat or flame. Violent reaction with dimethylformamide. To fight fire, use CO_2 , dry chemical. When heated to decomposition it

emits highly toxic fumes of Cl^- . See also CHLORINATED HYDROCARBONS, AROMATIC.

HCD000 CAS: 35065-27-1 HR: 2
2,2',4,4',5,5'-HEXACHLORO-1,1'-BIPHENYL
mf: $\text{C}_{12}\text{H}_4\text{Cl}_6$ mw: 360.86

SYNS: 2,2',4,4',5,5'-HEXACHLOROBIPHENYL \square 2,4,5,2',4',5'-HEXACHLOROBIPHENYL

TOXICITY DATA with REFERENCE:

dnd-mus-orl 36,400 $\mu\text{g/kg/5D}$ CBINA8 27,99,79

oms-mus-orl 36,400 $\mu\text{g/kg/5D}$ CBINA8 27,99,79

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- . See also CHLORINATED HYDROCARBONS, AROMATIC.

HCC550 CAS: 2157-19-9 HR: 1
1,4,5,6,7,7-HEXACHLOROBICYCLO(2.2.1)HEPT-5-ENE-2,3-DIMETHANOL

mf: $\text{C}_9\text{H}_8\text{Cl}_6\text{O}_2$ mw: 360.87

PROP: Brownish crystal solid.

SYNS:

\square BICYCLO(2.2.1)HEPT-5-ENE-2,3-DIMETHANOL, 1,4,5,6,7,7-HEXACHLORO- \square CHLORENDIC DIOL \square ENDODIOL \square

ENDOSULFAN ALCOHOL \square ENDOSULFANDIOL \square 5-NORBORNENE-2,3-DIMETHANOL, 1,4,5,6,7,7-HEXACHLORO- \square THIODANDIOL

TOXICITY DATA with REFERENCE:

orl-rat LD50: >15 g/kg RREVAH 83,1-174,82

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of Cl^- .

HCC590 CAS: 38411-22-2 HR: D
2,2',3,3',6,6'-HEXACHLORO-1,1'-BIPHENYL
mf: $\text{C}_{12}\text{H}_4\text{Cl}_6$ mw: 360.86

SYN: 2,3,6,2',3',6'-HEXACHLOROBIPHENYL

TOXICITY DATA with REFERENCE:

dnd-mus-orl 36,400 $\mu\text{g/kg/5D}$ CBINA8 27,99,79

oms-mus-orl 36,400 $\mu\text{g/kg/5D}$ CBINA8 27,99,79

SAFETY PROFILE: Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- . See also 3,3',4,4',5,5'-HEXACHLOROBIPHENYL; and CHLORINATED HYDROCARBONS, AROMATIC.

HCC600 CAS: 38380-08-4 HR: D
2,3,3',4,4',5-HEXACHLOROBIPHENYL
mf: $\text{C}_{12}\text{H}_4\text{Cl}_6$ mw: 360.86

SYNS: 1,1'-BIPHENYL, 2,3,3',4,4',5-HEXACHLORO- \square 2,3,3',4,4',5-HEXACHLORO-1,1'-BIPHENYL \square 2,3,4,5,3',4'-HEXACHLORO-BIPHENYL \square 3,4,2',3',4',5'-HEXACHLOROBIPHENYL \square PCB 156 \square PCB 157

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of Cl^- .

HCC700 CAS: 38380-07-3 HR: D
2,2',3,3',4,4'-HEXACHLOROBIPHENYL
mf: $\text{C}_{12}\text{H}_4\text{Cl}_6$ mw: 360.86

SYNS: HCB □ 1,1'-BIPHENYL, 2,2',3,3',4,4'-HEXACHLORO- □ 2,3,4,2',3',4'-HEXACHLOROBIPHENYL

SAFETY PROFILE: An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic vapors of Cl⁻.

HCC800 CAS: 33979-03-2 HR: 3
2,2',4,4',6,6'-HEXACHLOROBIPHENYL

mf: C₁₂H₄Cl₆ mw: 360.86

SYNS: BIPHENYL, 2,2',4,4',6,6'-HEXACHLORO- □ 1,1'-BIPHENYL, 2,2',4,4',6,6'-HEXACHLORO- □ 2,2',4,4',6,6'-HCB □ 2,2',4,4',6,6'-HEXACHLORO-1,1'-BIPHENYL □ 2,4,6,2',4',6'-HEXACHLOROBIPHENYL □ 2,2',4,4',6,6'-HEXACHLORO-DIPHENYL

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:361 mg/kg TXCYAC 63,97,1990

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of Cl⁻.

HCC830 CAS: 59291-65-5 HR: 3
2,3',4,4',5',6-HEXACHLOROBIPHENYL

mf: C₁₂H₄Cl₆ mw: 360.88

SYN: 1,1'-BIPHENYL, 2,3',4,4',5',6-HEXACHLORO-

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:36.1 mg/kg TXCYAC 63,97,1990

ipr-mus TDLo:72.2 mg/kg TXCYAC 63,97,1990

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of Cl⁻.

HCD100 CAS: 32774-16-6 HR: 3
3,3',4,4',5,5'-HEXACHLOROBIPHENYL

mf: C₁₂H₄Cl₆ mw: 360.86

SYN: 3,4,5,3',4',5'-HEXACHLOROBIPHENYL

TOXICITY DATA with REFERENCE:

orl-gpg LD50:223 µg/kg PSSID2 5,367,82

SAFETY PROFILE: Deadly poison by ingestion. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of Cl⁻. See also CHLORINATED HYDROCARBONS, AROMATIC.

HCD250 CAS: 87-68-3 HR: 3
HEXACHLOROBUTADIENE

DOT: UN 2279

mf: C₄Cl₆ mw: 260.74

PROP: A liquid. D: 1.682 @ 20°/4°, mp: -21°, bp: 211-215°, autoign temp: 1130°F, vap d: 8.99.

SYNS: DOLEN-PUR □ GP-40-66:120 □ HCB □ HEXACHLORO-1,3-BUTADIENE (CZECH) □ HEXACHLORO-1,3-BUTADIENE (MAK) □ 1,1,2,3,4,4-HEXACHLORO-1,3-BUTADIENE □ PERCHLOROBUTADIENE □ RCRA WASTE NUMBER U128

TOXICITY DATA with REFERENCE:

skn-rbt 810 mg/24H MOD JETOAS 9,171,76

skn-rbt 500 mg/24H MLD 85JCAE -,116,86

mma-sat 320 µg/plate CRNGDP 7,431,86

dns-rat-orl 77 g/kg/11W TXAPA9 60,287,81

dns-ham:emb 2 mg/L CALEDQ 23,297,84

otr-ham:emb 10 mg/L CALEDQ 23,297,84

orl-rat LD50:90 mg/kg HYSAAV 31,18,66

ipr-rat LD50:175 mg/kg JETOAS 8(3),180,75
orl-mus LD50:87 mg/kg GISAAA 28(2),9,63
ihl-uns LC50:370 mg/m³ GISAAA 55(5),72,90
ihl-mus LC50:370 mg/m³ GISAAA 37(2),32,72
ipr-mus LD50:76 mg/kg JETOAS 7(4),247,74
skn-rbt LD50:1211 mg/kg APTOA6 43,346,78
orl-gpg LD50:90 mg/kg GISAAA 28,9,63
orl-ham LD50:960 mg/kg TXAPA9 48,A192,79

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Suspected IMEMDT 20,179,79. Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.02 ppm

ACGIH TLV: TWA 0.02 ppm (skin); Animal Carcinogen

DFG MAK: Confirmed Animal Carcinogen with

Unknown Relevance to Humans

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic data. Poison by ingestion and intraperitoneal routes. Moderately toxic by inhalation and skin contact. A skin and eye irritant. An experimental teratogen. Experimental reproductive effects. Mutation data reported. Combustible when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use dry chemical, CO₂, alcohol foam, water spray, fog, mist. Reacts with bromine perchlorate to form an explosive product. When heated to decomposition it emits very toxic fumes of Cl⁻. A solvent, heat transfer fluid, transformer, hydraulic fluid, and wash liquor.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Hexachlorobutadiene, P&CAM 307.

HCD500 CAS: 26523-63-7 HR: 2
HEXACHLOROBUTANE

mf: C₄H₄Cl₆ mw: 264.78

SYN: PCB2

TOXICITY DATA with REFERENCE:

orl-mus LD50:2000 mg/kg GISAAA 28,9,63

orl-gpg LD50:940 mg/kg GISAAA 28,9,63

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl⁻. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

HCE000 CAS: 599-52-0 HR: 3
HEXACHLORO-2,5-CYCLOHEXADIEN-1-ONE

mf: C₆Cl₆O mw: 300.76

SYNS: 2,3,4,4,5,6-HEXACHLOROCYCLOHEXA-2,5-DIEN-1-ON (CZECH) □ HEXACHLORFENOL (CZECH) □ HEXACHLORO-2,5-CYCLOHEXADIENONE □ USAF DO-65

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV 28ZPAK -,86,72

eye-rbt 100 mg/24H MOD 28ZPAK -,86,72

orl-rat LD50:218 mg/kg 28ZPAK -,86,72

ipr-mus LD50:50 mg/kg NTIS** AD277-689

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. An eye and skin irritant. When heated to decomposition it emits toxic fumes of Cl⁻.

HCE400

HR: 2

HEXACHLOROCYCLOHEXANE, delta and epsilon mixturemf: C₆H₆Cl₆ mw: 290.82**SYN:** Δ-HEXACHLOROCYCLOHEXANE mixed with ε-HEXACHLOROCYCLOHEXANE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Cl⁻.**HCE500 CAS: 77-47-4 HR: 3
HEXACHLOROCYCLOPENTADIENE****DOT:** UN 2646mf: C₅Cl₆ mw: 272.75**PROP:** Greenish-yellow to amber-colored liquid with a pungent odor. Fp: -2°, mp: 9.9°, bp: 234°, flash p: none (OC), d: 1.70 @ 25°/4°, vap d: 9.42.**SYNS:** C-56 □ GRAPHLOX □ HCCPD □ HEXACHLORCYCLOPENTADIEN (CZECH) □ HEXACHLORO-1,3-CYCLOPENTADIENE □ 1,2,3,4,5,5-HEXACHLORO-1,3-CYCLOPENTADIENE □ HEXACHLOROCYCLOPENTADIENE (ACGIH, DOT, OSHA) □ HRS 1655 □ NCI-C55607 □ PCL □ PERCHLOROCYCLOPENTADIENE □ RCRA WASTE NUMBER U130**TOXICITY DATA with REFERENCE:**

skn-mky 10 mg SEV AMIHAB 11,459,55
 skn-rbt 500 mg/4H SEV VELPB* 50101-2,76
 eye-rbt 20 mg/24H MOD 28ZPAK -,30,72
 eye-rbt 100 mg/5M SEV VELPB* 50101-2,76
 skn-gpg 20 mg MLD AMIHAB 11,459,55
 orl-rat LD50:1300 mg/kg TSCAT* OTS0513386
 ihl-rat LC50:1600 ppb/4H JTEHD6 9,743,82
 orl-mus LD50:505 mg/kg JAFCAU 23,967,75
 ihl-mus LCLo:1500 ppb/7H TXAPA9 53,497,80
 orl-rbt LDLo:420 mg/kg PCOC** -,586,66
 ihl-rbt LCLo:1500 ppb/7H TXAPA9 53,497,80
 skn-rbt LD50:430 mg/kg 34ZIAG -,308,69

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Community Right-To-Know List. Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 0.01 ppm**ACGIH TLV:** TWA 0.01 ppm; Not Classifiable as a Human Carcinogen**DOT CLASSIFICATION:** 6.1; Label: Poison**SAFETY PROFILE:** A deadly poison by inhalation. Moderately toxic by ingestion and skin contact. Experimental teratogenic effects. Corrosive. A severe skin and eye irritant. May explode on contact with sodium. When heated to decomposition it emits toxic fumes of Cl⁻. See also CHLORINATED HYDROCARBONS, ALIPHATIC.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Hexachloro-1,3-cyclopentadiene, 2518.**HCE600 CAS: 2514-52-5 HR: 3
2,3,4,4,5,5-HEXACHLORO-2-CYCLOPENTEN-1-ONE**mf: C₅Cl₆O mw: 288.75**SYNS:** 2-CYCLOPENTEN-1-ONE, 2,3,4,4,5,5-HEXACHLORO- □ 2-CYCLOPENTEN-1-ONE, HEXACHLORO- □ HEXACHLORO-Δ²-CYCLOPENTENONE □ HEXACHLORO-2-CYCLOPENTENONE □ PERCHLORO-2-CYCLOPENTENONE □ PERCHLOROCYCLOPENTEN-2-ONE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:178 mg/kg NTIS** OTS0537044
 ihl-rat LCLo:460 mg/m³/6H NTIS** OTS0537047
 ihl-mus LCLo:460 mg/m³/6H NTIS** OTS0537047
 ihl-gpg LCLo:460 mg/m³/6H NTIS** OTS0537047

SAFETY PROFILE: A poison by ingestion. Moderately toxic by inhalation. When heated to decomposition it emits toxic vapors of Cl⁻.**HCF000 CAS: 57653-85-7 HR: 3
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN**mf: C₁₂H₂Cl₆O₂ mw: 390.84**TOXICITY DATA with REFERENCE:**

mor-mus:fbr 400 pmol/L CRNGDP 8,1485,87
 orl-mus LD50:1250 µg/kg TXAPA9 44,335,78
 orl-gpg LD50:70 µg/kg TXAPA9 44,335,78

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,41,77; Human No Adequate Data IMEMDT 15,41,77.**SAFETY PROFILE:** A deadly poison by ingestion. Questionable carcinogen. When heated to decomposition it emits toxic fumes of Cl⁻.**HCF100 CAS: 64461-98-9 HR: 2
1,2,3,6,7,9-HEXACHLORODIBENZO-p-DIOXIN**mf: C₁₂H₂Cl₆O₂ mw: 390.84**SYNS:** DIBENZO(B,E)(1,4)DIOXIN, 1,2,3,6,7,9-HEXACHLORO- □ DIBENZO-p-DIOXIN, 1,2,3,6,7,9-HEXACHLORO- □ 1,2,3,6,7,9-HEXACHLORODIBENZODIOXIN**CONSENSUS REPORTS:** IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,41,77; Human No Adequate Data IMEMDT 15,41,77.**SAFETY PROFILE:** Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl⁻.**HCF120 CAS: 19408-74-3 HR: 3
1,2,3,7,8,9-HEXACHLORODIBENZO-p-DIOXIN**mf: C₁₂H₂Cl₆O₂ mw: 390.84**SYN:** DIBENZO-p-DIOXIN, 1,2,3,7,8,9-HEXACHLORO-**TOXICITY DATA with REFERENCE:**

mor-mus:fbr 120 pmol/L CRNGDP 8,1485,87
 orl-mus LD50:>1440 mg/kg TXAPA9 44,335,78
 orl-gpg LD50:60 µg/kg TXAPA9 44,335,78

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,41,77; Human No Adequate Data IMEMDT 15,41,77.**SAFETY PROFILE:** A poison by ingestion. Questionable carcinogen. Mutation data reported. When heated to decomposition it emits toxic vapors of Cl⁻.**HCF150 CAS: 39227-62-8 HR: 2
1,2,4,6,7,9-HEXACHLORODIBENZO-p-DIOXIN**mf: C₁₂H₂Cl₆O₂ mw: 390.84

SYNS: DIBENZO(B,E)(1,4)DIOXIN, 1,2,4,6,7,9-HEXACHLORO- □
DIBENZO-p-DIOXIN, 1,2,4,6,7,9-HEXACHLORO- □ 1,2,4,6,7,9-
HEXACHLORODIBENZODIOXIN

CONSENSUS REPORTS: IARC Cancer Review:
Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence
IMEMDT 15,41,77; Human No Adequate Data
IMEMDT 15,41,77.

SAFETY PROFILE: Questionable carcinogen. When
heated to decomposition it emits toxic vapors of Cl⁻.

HCF500 **HR: 3**
1,2,3,6,7,8-HEXACHLORODIBENZO-p-DIOXIN
mixed with 1,2,3,7,8,9-HEXACHLORO-
DIBENZO-p-DIOXIN

PROP: Composed of 67% of 1,2,3,7,8,9-
hexachlorodibenzo-p-dioxin and 31% of 1,2,3,6,7,8-
hexachlorodibenzo-p-dioxin NCITR* NCI-CG-TR-
198,80.

SYNS: 1,2,3,7,8,9-HEXACHLORODIBENZO-p-DIOXIN mixed
with 1,2,3,6,7,8-HEXACHLORODIBENZO-p-DIOXIN □ NCI-
C03703

TOXICITY DATA with REFERENCE:

orl-rat LD50:800 µg/kg NCITR* NCI-CG-TR-198,80

orl-mus LD50:500 µg/kg NCITR* NCI-CG-TR-198,80

CONSENSUS REPORTS: NCI Carcinogenesis
Bioassay (gavage); Clear Evidence: mouse, rat NCITR*
NCI-CG-TR-198,80. NCI Carcinogenesis Bioassay
(dermal); No Evidence: mouse NCITR* NCI-CG-TR-
202,80.

SAFETY PROFILE: Suspected carcinogen with
experimental carcinogenic data. A deadly poison by
ingestion. When heated to decomposition it emits very
toxic fumes of Cl⁻ and dioxin.

HCG000 **HR: 3**
1,2,3,6,7,8-HEXACHLORODIBENZODIOXIN
mixed with PENTACHLORO ISOMERS and
HEPTACHLORO ISOMERS
96.8%:1.97%:1.23%

TOXICITY DATA with REFERENCE:

orl-rat LD50:750 µg/kg NCIR* NO1-CP-12338

orl-mus LD50:500 µg/kg NCIR* NO1-CP-12338

SAFETY PROFILE: A deadly poison by ingestion.
When heated to decomposition it emits very toxic fumes
of Cl⁻.

HCH400 **CAS: 70648-26-9** **HR: D**
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN
mf: C₁₂H₂Cl₆O mw: 374.84

SYN: DIBENZOFURAN, 1,2,3,4,7,8-HEXACHLORO-

SAFETY PROFILE: Experimental reproductive
effects. When heated to decomposition it emits toxic
fumes of Cl⁻.

HCH425 **CAS: 57117-44-9** **HR: 2**
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN
mf: C₁₂H₂Cl₆O mw: 374.84

SYNS: DIBENZOFURAN, 1,2,3,6,7,8-HEXACHLORO- □
2,3,4,7,8,9-HEXACHLORODIBENZOFURAN

TOXICITY DATA with REFERENCE:

orl-rat TDLo:1820 µg/kg/13W-C CMSHAF 17,973,88

orl-rat TDLo:910 µg/kg/13W-C CMSHAF 18,265,89

SAFETY PROFILE: Highly toxic on chronic exposure.
When heated to decomposition it emits toxic vapors of
Cl⁻.

HCH450 **CAS: 60851-34-5** **HR: 3**
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN
mf: C₁₂H₂Cl₆O mw: 374.84

SYN: DIBENZOFURAN, 2,3,4,6,7,8-HEXACHLORO-

TOXICITY DATA with REFERENCE:

orl-gpg LD50:120 µg/kg PSSID2 5,367,82

SAFETY PROFILE: A poison by ingestion. When
heated to decomposition it emits toxic vapors of Cl⁻.

HCH475 **CAS: 3182-26-1** **HR: 2**
HEXACHLORO-2,2-DIFLUOROPROPANE
mf: C₃Cl₆F₂ mw: 286.73

SYNS: 2,2-DIFLUORO-1,1,1,3,3,3-HEXACHLOROPROPANE □

1,1,1,3,3,3-HEXACHLORO-2,2-DIFLUOROPROPANE □
PROPANE, 2,2-DIFLUORO-1,1,1,3,3,3-HEXACHLORO-

TOXICITY DATA with REFERENCE:

orl-rat LD50:540 µL/kg AIHAAP 30,470,69

skn-rbt LD50:4530 µL/kg AIHAAP 30,470,69

SAFETY PROFILE: Moderately toxic by ingestion and
skin contact. When heated to decomposition it emits toxic
vapors of F⁻ and Cl⁻.

HCH485 **CAS: 71859-30-8** **HR: D**
2,2',4,4',5,5'-HEXACHLORODIPHENYL ETHER
mf: C₁₂H₄Cl₆O mw: 376.86

SYNS: BENZENE, 1,1'-OXYBIS(2,4,5-TRICHLORO- □ 1,1'-
OXYBIS(2,4,5-TRICHLOROBENZENE) □ PCDE 32

SAFETY PROFILE: Experimental reproductive
effects. When heated to decomposition it emits toxic
vapors of Cl⁻.

HCH495 **CAS: 106220-81-9** **HR: D**
2,2',4,4',5,6'-HEXACHLORODIPHENYL ETHER
mf: C₁₂H₄Cl₆O mw: 376.88

SYN: BENZENE, 1,3,5-TRICHLORO-2-(2,4,5-
TRICHLOROPHENOXY)-

SAFETY PROFILE: Experimental reproductive
effects. When heated to decomposition it emits toxic
vapors of Cl⁻.

HCH500 **CAS: 13465-77-5** **HR: 3**
HEXACHLORODISILANE
mf: Cl₆Si₂ mw: 268.83

PROP: Colorless liquid; readily hydrolyzed. Mp: -1°, bp:
147°.

SAFETY PROFILE: Potentially explosive reaction with
chlorine above 300°C. Corrosive irritant to the eyes, skin
and mucous membranes. When heated to decomposition
or on contact with water it emits toxic fumes of HCl and
Cl⁻. See also CHLOROSILANES.

HCl000 **CAS: 67-72-1** **HR: 3**
HEXACHLOROETHANE
mf: C₂Cl₆ mw: 236.72

PROP: Rhombic, triclinic, or cubic crystals from EtOH/Et₂O; colorless, camphor-like odor. Mp: 186.6° (subl), d: 2.091, vap press: 1 mm @ 32.7°, bp: 186.8° (triple point). Sol in alc, benzene, chloroform, ether, oils; insol in water.

SYNS: AVLOTANE □ CARBON HEXACHLORIDE □ DISTOKAL □ DISTOPAN □ DISTOPIN □ EGITOL □ ETHANE HEXACHLORIDE □ ETHYLENE HEXACHLORIDE □ FALKITOL □ FASCIOLIN □ HEXACHLOR-AETHAN (GERMAN) □ 1,1,1,2,2,2-HEXACHLOROETHANE □ HEXACHLOROETHYLENE □ MOTTENHEXE □ NCI-C04604 □ PERCHLOROETHANE □ PHENOHEP □ RCRA WASTE NUMBER U131

TOXICITY DATA with REFERENCE:

sce-ham:ovr 330 mg/L EMMUEG 10(Suppl 10),1,87
 orl-rat LD50:4460 mg/kg AIHAAP 40,187,79
 ihl-rat LCLo:5900 ppm/8H AIHAAP 40,187,79
 ipr-rat LDLo:2900 mg/kg AIHAAP 40,187,79
 ipr-mus LD50:4500 mg/kg ARZNAD 11,902,61
 ivn-dog LDLo:325 mg/kg QJPPAL 7,205,34
 skn-rbt LD50:32 g/kg AIHAAP 40,187,79
 scu-rbt LDLo:4000 mg/kg QJPPAL 7,205,34
 orl-gpg LD50:4970 mg/kg AIHAAP 40,187,79

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 20,467,79. NCI Carcinogenesis Bioassay (gavage); Clear Evidence: mouse NCITR* NCI-CG-TR-68,78. NCI Carcinogenesis Bioassay (gavage); No Evidence: rat NCITR* NCI-CG-TR-68,78. Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 1 ppm (skin)

ACGIH TLV: TWA 1 ppm; Suspected Human Carcinogen

DFG MAK: 1 ppm (9.8 mg/m³)

NIOSH REL: (Hexachloroethane) Reduce to lowest level

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. A poison by intravenous route. Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Experimental reproductive effects. Mutation data reported. Liver injury has resulted from exposure to this material. An insecticide. Slightly explosive by spontaneous chemical reaction. Dehalogenation of this material by reaction with alkalis, metals, etc., will produce spontaneously explosive chloroacetylenes. When heated to decomposition it emits highly toxic fumes of Cl⁻ and phosgene. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Hydrocarbons, Halogenated, 1003.

HCl475 CAS: 14458-95-8 HR: 3
5,6,7,8,9,9-HEXACHLORO-1,4,4a,5,8,8a-HEXA-HYDRO-1,4:5,8-DIMETHANOPHTHALAZINE-2-OXIDE

mf: C₁₀H₆Cl₆N₂O mw: 382.88

SYNS: ENT 25,582 □ SD 3450 □ SHELL SD-3450

TOXICITY DATA with REFERENCE:

orl-rat LD50:2800 µg/kg TXAPA9 21,315,72
 orl-mus LDLo:5500 µg/kg AECTCV 14,111,85
 orl-bwd LD50:25 mg/kg TXAPA9 21,315,72

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of Cl⁻ and NO_x.

HCK000 CAS: 2592-62-3 HR: 3
6,7,8,9,10,10-HEXACHLORO-1,5,5a,6,9,9a-HEXAHYDRO-3-METHYL-6,9-METHANO-2,4-BENZDIOXEPIN

mf: C₁₁H₁₀Cl₆O₂ mw: 386.91

SYNS: BAYER 38920 □ ENT 25,700-X □ 6,7,8,9,10,10-HEXACHLORO-1,5,5a,6,9,9a-HEXAHYDRO-6,9-METHANO-3-METHYL-2,4-BENZODIOXEPIN

TOXICITY DATA with REFERENCE:

orl-rat LD50:120 mg/kg ARSIM* 20,4,66
 orl-bwd LD50:50 mg/kg TXAPA9 21,315,72

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of Cl⁻.

HCK500 CAS: 1335-87-1 HR: 3
HEXACHLORONAPHTHALENE

mf: C₁₀H₂Cl₆ mw: 334.82

PROP: White solid. IDLH 2 mg/m³.

SYNS: HALOWAX 1014 □ HEXACHLORNAFTALEN

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.2 mg/m³ (skin)

ACGIH TLV: TWA 0.2 mg/m³ (skin)

NIOSH REL: TWA 0.2 mg/m³ (skin)

SAFETY PROFILE: A poison by ingestion, skin contact, and inhalation. Causes severe acne-form eruptions and toxic narcosis of liver. Absorbed by skin. When heated to decomposition it emits toxic fumes of Cl⁻. See also CHLORINATED HYDROCARBONS, AROMATIC.

HCK550 CAS: 103426-96-6 HR: D
1,2,3,4,6,7-HEXACHLORONAPHTHALENE

mf: C₁₀H₂Cl₆ mw: 334.82

SYNS: 1,2,3,4,6,7-HEXACHLORINATED NAPHTHALENE □ NAPHTHALENE, 1,2,3,4,6,7-HEXACHLORO-

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of Cl⁻.

HCK600 CAS: 103426-97-7 HR: 3
1,2,3,5,6,7-HEXACHLORONAPHTHALENE

mf: C₁₀H₂Br₆ mw: 601.58

SYN: NAPHTHALENE, 1,2,3,5,6,7-HEXACHLORO-

TOXICITY DATA with REFERENCE:

orl-gpg LD50:>3610 µg/kg PSSID2 5,367,1982

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of Br⁻.

HCL000 CAS: 70-30-4 HR: 3
HEXACHLOROPHENE

DOT: UN 2875

mf: C₁₃H₆Cl₆O₂ mw: 406.89

PROP: Crystals, water insol. Mp: 165°. Sol in alc, acetone, ether, chloroform, propylene glycol, polyethylene glycols, olive oil, cottonseed oil, dil solns of alkalis.

SYNS: ACIGENA □ ALMEDERM □ AT 7 □ B32 □ BILEVON □ BIS(2-HYDROXY-3,5,6-TRICHLOROPHENYL)METHANE □ BIS-

2,3,5-TRICHLOR-6-HYDROXYFENYLMETHAN (CZECH) □
 BIS(3,5,6-TRICHLORO-2-HYDROXYPHENYL)METHANE □
 COMPOUND G-11 □ COTOFILM □ DERMADAX □ 2,2'-
 DIHYDROXY-3,3',5,5',6,6'-HEXACHLORODIPHENYLMETHANE
 □ 2,2'-DIHYDROXY-3,5,6,3',5',6'-HEXACHLORODIPHENYL-
 METHANE □ EXOFENE □ FOMAC □ FOSTRIL □ G-11 □
 GAMOPHENE □ G-ELEVEN □ GERMA-MEDICA □ HCP □
 HEXABALM □ 2,2',3,3',5,5'-HEXACHLORO-6,6'-DIHYDROXY-
 DIPHENYLMETHANE □ HEXACHLOROFEN (CZECH) □
 HEXACHLOROPHANE □ HEXACHLOROPHEN □ HEXA-
 CHLOROPHENE (DOT) □ HEXAFEN □ HEXIDE □
 HEXOPHENE □ HEXOSAN □ ISOBAC 20 □ 2,2'-METHYLENE-
 BIS(3,4,6-TRICHLOROPHENOL) □ NABAC □ NCI-C02653 □
 NEOSEPT □ PHISODANV □ PHISOHEX □ RCRA WASTE
 NUMBER U132 □ RITOSEPT □ SEPTISOL □ SEPTOFEN □
 STERAL □ STERASKIN □ SURGI-CEN □ SUROFENE □
 TERSASEPTIC □ TRICHLOROPHENE □ TURGEX

TOXICITY DATA with REFERENCE:

skn-hmn 50 µg/24H MLD JSCCA5 25,113,74
 eye-dog 3 mg/24H AAOPAF 53,817,55
 skn-rbt 30 µg open MLD JSCCA5 25,113,74
 eye-rbt 1500 mg/24H AAOPAF 53,817,55
 skn-gpg 30 µg open MLD JSCCA5 25,113,74
 skn-gpg 1250 µg/24H MLD JSCCA5 25,113,74
 orl-inf TDLo:257 mg/kg/7D-I:CNS,GIT AJDCAI
 111,333,66
 orl-cld LDLo:250 mg/kg MJAUJ 1,737,63
 orl-wmn TDLo:600 mg/kg:CVS,GIT JAMAAP 181,587,62
 orl-rat LD50:56 mg/kg TXAPA9 25,332,73
 ihl-rat LC50:340 mg/m³ GISAAA 49(8),25,84
 skn-rat LD50:1840 mg/kg GISAAA 47(10),26,82
 ipr-rat LD50:22 mg/kg TXAPA9 24,239,73
 scu-rat LD50:14,700 mg/kg 26UZAB 6,245,68/70
 ivn-rat LD50:7500 µg/kg TXAPA9 25,332,73
 orl-mus LD50:67 mg/kg CMJOAP 82,691,63
 ihl-mus LC50:290 mg/m³ GISAAA 49(8),25,84
 skn-mus LD50:270 mg/kg GISAAA 47(10),26,82
 ipr-mus LD50:20 mg/kg ZBPAA6 234,110,76
 orl-dog LDLo:40 mg/kg VEARA6 35,35,65
 ivn-dog LDLo:5 mg/kg SURGAZ 24,542,48

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Human Inadequate Evidence
 IMEMDT 20,241,79. NCI Carcinogenesis Bioassay (feed);
 No Evidence: rat NCITR* NCI-CG-TR-40,78. Reported
 in EPA TSCA Inventory. Chlorophenols are on the
 Community Right-To-Know List.

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY
 FROM FOOD

SAFETY PROFILE: A human poison by ingestion. An
 experimental poison by ingestion, intraperitoneal, and
 intravenous routes. Moderately toxic by skin contact.
 Human systemic effects by ingestion: cardiomyopathy
 (damage to the heart muscle), nausea or vomiting,
 diarrhea, shock. Unspecified human reproductive effects.
 Experimental teratogenic and reproductive effects. An eye
 and human skin irritant. Questionable carcinogen with
 experimental neoplastigenic and tumorigenic data. Strong
 concentrations may be irritating, but ordinary use of 1–2%
 solutions is not.

For many years, the toxicologic hazard of
 hexachlorophene was unrecognized and the compound
 had a wide and virtually unrestricted use. However, studies
 by FDA scientists demonstrated that brain lesions occur

from exposure in both rats and monkeys treated at levels
 only slightly higher than those of persons using soaps,
 toothpaste, shampoos, and a variety of other household
 products and cosmetics containing it. The FDA has now
 restricted sale of hexachlorophene, and most preparations
 containing higher levels of the compound are available
 only through prescription. In the recent FDA studies, it
 was found that 2 weeks after onset of exposure, rats fed
 500 ppm (25 mg/kg/day) of hexachlorophene in their diet
 showed weakness in their hindquarters that progressed to
 paralysis. Microscopic examination of the brain and spinal
 cord of these rats revealed a particular edema of the white
 matter resembling spongy degeneration noted in infants.
 When the animals were removed from the diet, they
 recovered gradually over a period of weeks. Similar
 symptoms were noted in monkeys. Following ingestion of
 hexachlorophene, early symptoms are primarily
 gastrointestinal in nature and include anorexia, nausea,
 vomiting, abdominal cramps, and diarrhea. Dehydration is
 sometimes severe and may be associated with shock.

Used as a germicidal agent. An additive
 permitted in the feed and drinking water of animals
 and/or for the treatment of food-producing animals. Also
 permitted in food for human consumption. When heated
 to decomposition it emits toxic fumes of Cl⁻. See also
 CHLOROPHENOLS.

HCL300 HR: D HEXACHLOROPLATINATE(2-) DISODIUM HEXAHYDRATE

mf: Cl₆Pt•2Na•6H₂O mw: 653.85

SYN: SODIUM HEXACHLOROPLATINATE HEXAHYDRATE

TOXICITY DATA with REFERENCE:

OSHA PEL: TWA 0.002 mg(Pt)/m³

ACGIH TLV: TWA 0.002 mg(Pt)/m³

SAFETY PROFILE: Experimental reproductive
 effects. When heated to decomposition it emits toxic
 fumes of Cl⁻.

HCL500 CAS: 116-16-5 HR: 3 HEXACHLORO-2-PROPANONE DOT: UN 2661

mf: C₃Cl₆O mw: 264.73

PROP: Liquid. Bp: 203°, fp: -2°, vap d: 9.2, d: 1.74 @
 12°/12°. Sltly sol in water.

SYNS: ACETONE, HEXACHLORO- □ GC-1106 □ HCA □ HCA
 WEEDKILLER □ HEXACHLOROACETONE (DOT) □ 1,1,1,3,3,3-
 HEXACHLORO-2-PROPANONE □ 2-PROPANONE,
 HEXACHLORO-

TOXICITY DATA with REFERENCE:

mno-sat 100 mg/plate BECTA6 24,590,80
 dnr-esc 700 µg/plate MUREAV 89,137,81
 mrc-smc 10 µL/L MUREAV 155,53,85
 orl-rat LD50:240 mg/kg 85GMAT -,72,82
 ihl-rat LC50:360 ppm/6H TXAPA9 7,592,65
 skn-rat LD50:2980 mg/kg TXAPA9 7,592,65
 ihl-mus LC50:920 mg/m³/2M 85GMAT -,72,82
 orl-dog LD50:700 mg/kg PCOC** -,580,66
 skn-rbt LD50:2980 mg/kg 85DPAN -,71/76

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: A poison by ingestion. Moderately toxic by inhalation, and skin contact. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- .

HCM000 CAS: 1888-71-7 HR: 3
HEXACHLOROPROPENE

mf: C_3Cl_6 mw: 248.73

PROP: D: 1.76 @ 20°/4°, bp: 209–210°.

SYN: HEXACHLOROPROPYLENE

TOXICITY DATA with REFERENCE:

mmo-sat 15 $\mu\text{mol/L}$ MUREAV 170,186

ihl-rat LC50:425 ppm/30M XEURAQ MDDC-1715

ipr-rat LD50:400 mg/kg XEURAQ MDDC-1715

ihl-mus LCLo:300 ppm/30M XEURAQ MDDC-1715

ipr-mus LDLo:64 mg/kg CBCCT* 1,46,49

ihl-rbt LCLo:85 ppm/30M XEURAQ MDDC-1715

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by inhalation and intraperitoneal routes. A powerful irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- . See also CHLORINATED HYDROCARBONS, ALIPHATIC.

HCM050 CAS: 15336-18-2 HR: D
HEXACHLORORHODATE(3-) TRIAMMONIUM

mf: $\text{Cl}_6\text{Rh}\cdot 3\text{H}_4\text{N}$ mw: 375.69

SYNS: AMMONIUM HEXACHLORORHODATE □ AMMONIUM HEXACHLORORHODATE(III) □ RHODATE(3-), HEXACHLORO-, TRIAMMONIUM □ RHODATE (3-), HEXACHLORO-, TRIAMMONIUM, (OC-6-11)- □ TRIAMMONIUM HEXACHLORO-RHODATE □ TRIAMMONIUM HEXACHLORO-RHODATE(3-)

TOXICITY DATA with REFERENCE:

uns-esc 200 $\mu\text{mol/L}$ MUREAV 389,191,1997

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x , Rh, and Cl^- .

HCM100 CAS: 63498-62-4 HR: 2
HEXACHLORO-m-XYLENE

mf: $\text{C}_8\text{H}_4\text{Cl}_6$ mw: 312.82

SYNS: BENZENE, 1,3-DIMETHYL-, HEXACHLORO DERIV. □ 1,3-DIMETHYLBENZENE HEXACHLORO DERIV.

TOXICITY DATA with REFERENCE:

orl-rat LD50:2924 mg/kg GISAAA 46(4),76,81

orl-mus LD50:2067 mg/kg GISAAA 46(4),76,81

orl-rbt LD50:1375 mg/kg GISAAA 46(4),76,81

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Cl^- .

HCM500 CAS: 68-36-0 HR: 2
 α,α' -HEXACHLOROXYLENE

mf: $\text{C}_8\text{H}_4\text{Cl}_6$ mw: 312.82

PROP: Crystals from hexane. Mp: 108–110°.

SYNS: 1,4-BIS-TRICHLOROMETHYL BENZENE □ $\alpha,\alpha,\alpha,\alpha',\alpha',\alpha'$ -HEXACHLORO-p-XYLENE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3200 mg/kg GNAMAP 21,34,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^- . See also CHLORINATED HYDROCARBONS, AROMATIC.

HCN000 CAS: 3734-48-3 HR: 2
4,5,6,7,8,8-HEXACHLOR- $\Delta^{1,5}$ -TETRAHYDRO-4,7-METHANOINDEN

mf: $\text{C}_{10}\text{H}_6\text{Cl}_6$ mw: 338.86

SYNS: ADDUKT HEXACHLORCYKLOPENTADIENU S

CYKLOPENTADIENEM (CZECH) □ CHLORDENE □ 4,5,6,7,8,8-HEXACHLORO-3a,4,7,7a-TETRAHYDRO-4,7-METHANOINDENE □ 4,7-METHANOINDENE, 4,5,6,7,8,8-HEXACHLORO-3a,4,7,7a-TETRAHYDRO-

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 85JCAE -,177,86

orl-hmn LDLo:583 mg/kg YKYUA6 30,505,79

ihl-hmn LCLo:2 g/m³ YKYUA6 30,505,79

skn-hmn LDLo:69 mg/kg YKYUA6 30,505,79

ihl-rat LC50:2 g/m³ YKYUA6 30,505,79

skn-rat LD50:690 mg/kg YKYUA6 30,505,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and skin contact. An experimental teratogen. A severe eye irritant. When heated to decomposition it emits toxic fumes of Cl^- . See also CHLORINATED HYDROCARBONS, ALIPHATIC.

HCN050 CAS: 79983-71-4 HR: 2
HEXACONAZOLE

mf: $\text{C}_{14}\text{H}_{17}\text{Cl}_2\text{N}_3\text{O}$ mw: 314.24

PROP: Colorless crystals. Mp: 111°.

SYNS: ANVIL □ α -BUTYL- α -(2,4-DICHLOROPHENYL)-1H-1,2,4-TRIAZOLE-1-ETHANOL (+-) □ (RS)-2-(2,4-DICHLOROPHENYL)-1-(1H-1,2,4-TRIAZOL-1-YL)HEXAN-2-OL □ PP 523 □ 1H-1,2,4-TRIAZOLE-1-ETHANOL, α -BUTYL- α -(2,4-DICHLOROPHENYL)-, (+-)

TOXICITY DATA with REFERENCE:

orl-rat LD50:2189 mg/kg PEMNDP 9,470,91

skn-rat LD50:>2 g/kg PEMNDP 9,470,91

orl-dck LD50:>4 g/kg PEMNDP 9,470,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic vapors of NO_x and Cl^- .

HCN100 CAS: 56187-09-8 HR: 3
HEXACYCLEN TRISULFATE

mf: $\text{C}_{12}\text{H}_{30}\text{N}_6\cdot 3\text{H}_2\text{O}_4\text{S}$ mw: 360.51

PROP: Sol in H_2O .

SYN: 1,4,7,10,13,16-HEXAAZACYCLOOCTADECANE SULFATE (1:3)

TOXICITY DATA with REFERENCE:

skn-rbt 100 mg/24H MLD DCTODJ 8,451,85

eye-rbt 50 mg MOD DCTODJ 8,451,85

ipr-rat LD50:852 mg/kg DCTODJ 8,451,85

ipr-mus LD50:327 mg/kg DCTODJ 8,451,85

SAFETY PROFILE: Poison by intraperitoneal route. A skin and eye irritant. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also SULFATES.

HCO000 CAS: 376-18-1 HR: 3
2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-HEXADECA-FLUORONANANOL

mf: C₉H₄F₁₆O mw: 432.13

SYNS: HEXADEC AFLUORO-1-NONANOL □ ω-h-HEXADEC-KAFLUORNANANOL-1 (GERMAN)

TOXICITY DATA with REFERENCE:

orl-rat LDLo:4400 mg/kg ZHYGAM 26,9,80

ipr-mus LD50:251 mg/kg ZHYGAM 26,9,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of F⁻.

HCO500 CAS: 143-27-1 HR: 3
1-HEXADECANAMINE

mf: C₁₆H₃₅N mw: 241.52

PROP: A solid. Mp: 46.2°, bp: 162–165° @ 5.2 mm.

SYNS: ALAMINE 6 □ ARMEEN 16D □ CETYLAMIN (GERMAN) □ CETYLAMINE □ N-HEXADECYLAMINE □ PALMITYL-AMINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

HCO600 CAS: 544-76-3 HR: 2
HEXADECANE

mf: C₁₆H₃₄ mw: 226.50

PROP: Clear, colorless liquid. D: 0.77, mp: 18°, bp: 287°. Insol in water.

SYNS: CETANE □ n-CETANE □ n-HEXADECANE

TOXICITY DATA with REFERENCE:

skn-man 50 mg/48H SEV CTOIDG 94(8),41,79

skn-rat 100 mg/24H SEV CTOIDG 94(8),41,79

skn-rbt 100 mg/24H SEV CTOIDG 94(8),41,79

skn-pig 50 mg/48H SEV CTOIDG 94(8),41,79

skn-gpg 100 mg/24H SEV CTOIDG 94(8),41,79

ivn-mus LDLo:9821 mg/kg APTOA6 37,56,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Slightly toxic by intravenous route. A severe human skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

HCP000 CAS: 36653-82-4 HR: 3
1-HEXADECANOL

mf: C₁₆H₃₄O mw: 242.50

PROP: Solid or leaf-like crystals. Mp: 50°, bp: 178–182° @ 12 mm, d: 0.8176 @ 50°/4°. Insol in water; sol in alc, chloroform, ether.

SYNS: ADOL □ ALCOHOL C-16 □ ATALCO C □ CACHALOT C-50 □ CETAFFINE □ CETAL □ CETALOL CA □ CETYL ALCOHOL □ CETYLIC ALCOHOL □ CETYLOL □ CO-1670 □ CRODACOL-CAS □ CYCLAL CETYL ALCOHOL □ DYTOL F-11 □ EPAL 16NF □ ETHAL □ ETHOL □ HEXADECANOL □ n-HEXADECANOL □ HEXADECAN-1-OL □ HEXADECYL ALCOHOL □ n-HEXADECYL ALCOHOL □ LOROL 24 □ LOXANOL K □ PALMITYL ALCOHOL □ PRODUCT 308

TOXICITY DATA with REFERENCE:

skn-hmn 75 mg/3D-I MLD 85DKA8 -,127,77

skn-man 50 mg/48H MLD CTOIDG 94(8),41,79

skn-rat 100 mg/24H SEV CTOIDG 94(8),41,79

skn-rbt 2600 mg/kg/24H MLD AIHAAP 34,493,73

eye-rbt 82 mg MLD AIHAAP 34,493,73

skn-gpg 100% MLD FCTXAV 16,683,78

orl-rat LD50:5 g/kg JACTDZ 7(3),359,88

ipr-rat LD50:1600 mg/kg FCTXAV 16,683,78

orl-mus LD50:3200 mg/kg FCTXAV 16,683,78

ipr-mus LD50:1600 mg/kg FCTXAV 16,683,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An eye and human skin irritant. Flammable when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.

HCP022 CAS: 56797-40-1 HR: 1
(Z)-7-HEXADECENAL

mf: C₁₆H₃₀O mw: 238.41

SYN: 7-HEXADECENAL, (Z)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5000 mg/kg HBPTO* 1,142,2001

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HCP032 CAS: 56219-04-6 HR: 1
(Z)-9-HEXADECENAL

mf: C₁₆H₃₀O mw: 238.41

SYN: 9-HEXADECENAL, (Z)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5000 mg/kg HBPTO* 1,142,2001

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HCP050 CAS: 53939-28-9 HR: 1
11-HEXADECENAL, (Z)-

mf: C₁₆H₃₀O mw: 238.46

SYNS: A13-35937 □ CHOKEGARD □ HERCON CHEK/MATE □ HERCON DISRUPT □ (Z)-11-HEXADECENAL □ NOMATE CHOKEGARD

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FMCHA2 -,C74,91

skn-rbt LD50:>2 g/kg FMCHA2 -,C74,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

**HCP060 CAS: 56683-54-6 HR: 1
(Z)-11-HEXADECENOL**mf: C₁₆H₃₂O mw: 240.43**SYN:** 11-HEXADECEN-1-OL, (Z)-**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5600 mg/kg HBPTO* 1,142,2001

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**HCP070 CAS: 23192-42-9 HR: 2
(Z)-7-HEXADECEN-1-OL ACETATE**mf: C₁₈H₃₄O₂ mw: 282.52**SYNS:** 7-HEXADECEN-1-OL, ACETATE, (Z)- □ (Z)-7-HEXADECENOL ACETATE □ (Z)-7-HEXADECENYL ACETATE □ ENT 33478 □ HEXALENE □ HEXALURE □ HEXAMONE □ cis-7-HEXADECENYL ACETATE**TOXICITY DATA with REFERENCE:**ihl-rat LC50:>3800 mg/m³ TXAPA9 31,421,1975

orl-rat LD50:>3460 mg/kg HBPTO* 1,142,2001

skn-rbt LD50:>2025 mg/kg HBPTO* 1,142,2001

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Low toxicity by inhalation. When heated to decomposition it emits acrid smoke and irritating vapors.**HCP100 CAS: 629-70-9 HR: 1
HEXADECYL ACETATE**mf: C₁₈H₃₆O₂ mw: 284.54**PROP:** Liquid or soft solid @ 25°.**SYNS:** 1-ACETOXYHEXADECANE □ CETYL ACETATE □ ENT 1025 □ 1-HEXADECANOL, ACETATE □ PALMITYL ACETATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTOD7 21,663,83

orl-rat LD50:>5 g/kg FCTOD7 21,663,83

skn-rbt LD50:>5 g/kg FCTOD7 21,663,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Slightly toxic by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**HCP500 CAS: 54460-46-7 HR: 2
HEXADECYL CYCLOPROPANECARBOXYLATE**mf: C₂₀H₃₈O₂ mw: 310.58**SYNS:** CYCLOPRATE □ CYCLOPROPANECARBOXYLIC ACID, HEXADECYL ESTER □ ZARDEX □ ZR-856**TOXICITY DATA with REFERENCE:**

orl-rat LD50:12,200 mg/kg 85ARAE 1,99,77

orl-dog LD50:2500 mg/kg SPEADM 78-1,19,78

skn-rbt LD50:2670 mg/kg SPEADM 78-1,19,78

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.**HCP525 CAS: 112-69-6 HR: 2
HEXADECYLDIMETHYLAMINE**mf: C₁₈H₃₉N mw: 269.58**PROP:** Clear liquid at room temp with odor of fatty amines. Freezing Pt: 8°. Flash pt: 287°.**SYNS:** ARMEEN DM16D □ BAIRDCAT B16 □ CETYLDI-METHYLAMINE □ DIMETHYLCETYLAMINE □ N,N-DIMETHYLCETYLAMINE □ N,N-DIMETHYLHEXADECYL-AMINE □ DIMETHYLPALMITYLAMINE □ GENAMIN 16R302D □ HEXADECYLAMINE, N,N-DIMETHYL- □ PALMITYLDI-METHYLAMINE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>3 g/kg OYYAA2 12,171,76

scu-mus LD50:>3 g/kg OYYAA2 12,171,76

SAFETY PROFILE: Slightly toxic by ingestion and subcutaneous routes. A combustible liquid. When heated to decomposition it emits toxic vapors of NO_x.**HCP550 CAS: 59130-69-7 HR: 2
HEXADECYL 2-ETHYLHEXANOATE**mf: C₂₄H₄₈O₂ mw: 368.72**PROP:** Water white.**SYNS:** CETYL 2-ETHYLHEXANOATE □ HEXANOIC ACID, 2-ETHYL-, HEXADECYL ESTER □ PERCELINE OIL**TOXICITY DATA with REFERENCE:**

skn-man 50 mg/48H MLD CTOIDG 94(8),41,79

skn-rat 100 mg/24H MLD CTOIDG 94(8),41,79

skn-rbt 100 mg/24H SEV CTOIDG 94(8),41,79

skn-gpg 100 mg/24H MOD CTOIDG 94(8),41,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A severe skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**HCP600 CAS: 67749-11-5 HR: 1
HEXADECYL NEODECANOATE**mf: C₂₆H₅₂O₂ mw: 396.78**SYNS:** HEXANATE D □ NEODECANOIC ACID, HEXADECYL ESTER □ OCTANOIC ACID, 2,2-DIMETHYL-, HEXADECYL ESTER**TOXICITY DATA with REFERENCE:**

skn-rat 100 mg/24H MLD CTOIDG 94(8),41,79

skn-rbt 100 mg/24H MOD CTOIDG 94(8),41,79

skn-gpg 100 mg/24H MOD CTOIDG 94(8),41,79

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**HCP700 CAS: 540-10-3 HR: 1
HEXADECYL PALMITATE**mf: C₃₂H₆₄O₂ mw: 480.96**SYNS:** CETIN □ CETYL PALMITATE □ HEXADECANOIC ACID, HEXADECYL ESTER □ PALMITIC ACID, HEXADECYL ESTER □ PALMITYL PALMITATE □ STANDAMUL 1616**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD JACTDZ 1(2),13,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**HCP750 CAS: 58066-85-6 HR: 3
N-HEXADECYLPHOSPHORYLCHOLINE**mf: C₂₁H₄₆NO₄P mw: 407.65**PROP:** A crystalline solid.

SYNS: CHOLINE PHOSPHATE, HEXADECYL ESTER, HYDROXIDE, INNER SALT (6CI) □ D 18506 □ ETHANAMINIUM,2-(((HEXADECYLOXY)HYDROXY-PHOSPHINYLOXY)-N,N,N-TRIMETHYL-, HYDROXIDE, INNER SALT □ 2-(((HEXADECYLOXY)HYDROXYPHOSPHINYLOXY)-N,N,N-TRIMETHYLETHANAMINIUMHYDROXIDE, INNER SALT □ HEXADECYLPHOSPHOCHOLINE □ HEXADECYLPHOSPHORYLCHOLINE □ MIL □ MILTEFOSINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:246 mg/kg LPDSAP 22,930,1987

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and PO_x.

HCP800 CAS: 140-72-7 HR: 3 HEXADECYLPYRIDINE BROMIDE

mf: C₂₁H₃₈N•Br mw: 384.51

PROP: Mp: 63°.

SYNS: ACETOQUAT CPB □ BROMOCET □ CETAPHARM □ CETASOL □ CETAZOL □ CETYLPYRIDINIUM BROMIDE □ N-CETYLPYRIDINIUM BROMIDE □ 1-CETYLPYRIDINIUM BROMIDE □ FIXANOL C □ HEXADECYLPYRIDINIUM BROMIDE □ N-HEXADECYLPYRIDINIUM BROMIDE □ 1-HEXADECYLPYRIDINIUM BROMIDE □ MORPAN CBP □ NITROGENOL □ PYRIDINIUM, 1-HEXADECYL-, BROMIDE □ SEPRISAN □ STEROGENOL □ T₅PB

TOXICITY DATA with REFERENCE:

dni-hmn:lyms 100 mg/L BECTA6 28,504,82

ipr-mus LDLo:50 mg/kg ARZNAD 21,121,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Human mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.

HCP900 CAS: 1120-01-0 HR: 3 HEXADECYL SODIUM SULFATE

mf: C₁₆H₃₃O₄S•Na mw: 344.54

PROP: White solid.

SYNS: AVITEX C □ AVITEX SF □ CETYL SODIUM SULFATE □ CETYL SULFATE SODIUM SALT □ CONCO SULFATE C □ 1-HEXADECANOL, HYDROGEN SULFATE, SODIUM SALT □ NIKKOL S.C.S □ SHS □ SODIUM CETYL SULFATE □ SODIUM HEXADECYL SULFATE □ SODIUM MONOHEXADECYL SULFATE □ SODIUM PALMITYL SULFATE □ TERGITOL ANIONIC 7

TOXICITY DATA with REFERENCE:

ipr-mus LD50:356 mg/kg JAPMA8 42,283,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of SO_x.

HCQ000 CAS: 5894-60-0 HR: 2 HEXADECYLTRICHLOROSILANE

DOT: UN 1781

mf: C₁₆H₃₃Cl₃Si mw: 359.93

PROP: Colorless to yellow liquid. D: 0.996 @ 25°/25°, bp: 269°, flash p: 295°F (COC).

SYN: TRICHLOROHEXADECYLSILANE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: A corrosive irritant to skin, eyes, and mucous membranes. Combustible when exposed to heat or flame. When heated to decomposition or on contact with water it emits toxic fumes of Cl⁻ and HCl. See also CHLOROSILANES.

HCQ500 CAS: 57-09-0 HR: 3 HEXADECYLTRIMETHYLAMMONIUM BROMIDE

mf: C₁₉H₄₂N•Br mw: 364.53

PROP: Microcrystals. Mp: 237–243°. Sol in H₂O, EtOH; insol in C₆H₆ and Et₂O.

SYNS: ACETOQUAT CTAB □ BROMAT □ CEE DEE □ CENTIMIDE □ CETAB □ CETAROL □ CETAVLON □ CETRIMIDE □ CETRIMONIUM BROMIDE □ CETYLAMINE □ CETYLTRIMETHYLAMMONIUM BROMIDE □ N-CETYLTRIMETHYLAMMONIUM BROMIDE □ CIRRASOL-OD □ CTAB □ CYCLOTON V □ N-HEXADECYLTRIMETHYL-AMMONIUM BROMIDE □ N-HEXADECYL-N,N,N-TRIMETHYLAMMONIUM BROMIDE □ (1-HEXADECYL)-TRIMETHYLAMMONIUM BROMIDE □ LISSOLAMINE □ MICOL □ POLLACID □ QUAMONIUM □ SUTICIDE □ TRIMETHYLCETYLAMMONIUM BROMIDE □ N,N,N-TRIMETHYL-1-HEXADECANAMINIUM BROMIDE □ TRIMETHYLHEXADECYLAMMONIUM BROMIDE

TOXICITY DATA with REFERENCE:

skn-mus 50 mg/1H open BJDEAZ 86,361,72

eye-rbt 450 mg SEV AROPAW 40,668,48

orl-rat LD50:410 mg/kg YKYUA6 31,471,80

ivn-rat LD50:44 mg/kg APTOA6 47,17,80

ipr-mus LD50:106 mg/kg FCTXAV 13,331,75

ivn-mus LD50:32 mg/kg APTOA6 47,17,80

ipr-rbt LD50:125 mg/kg PCOC** -,210,66

scu-rbt LD50:125 mg/kg PCOC** -,210,66

scu-gpg LD50:100 mg/kg 28ZEAL 5,40,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. Experimental teratogenic and reproductive effects. A skin and severe eye irritant. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and Br⁻. See also BROMIDES.

HCQ525 CAS: 112-02-7 HR: 3 HEXADECYLTRIMETHYLAMMONIUM CHLORIDE

mf: C₁₉H₄₂N•Cl mw: 320.07

SYNS: ADOGEN 444 □ ARQUAD 16 □ ARQUAD 16-29 □ ARQUAD 16-50 □ ARQUAD 16-25W □ BARQUAT CT 29 □ CETAC □ CETYLTRIMETHYLAMMONIUM CHLORIDE □ CTMA □ DEHYQUART A □ DODIGEN 1383 □ 1-HEXADECANAMINIUM, N,N,N-TRIMETHYL-, CHLORIDE □ INTEXAN CTC 29 □ INTEXSAN CTC 29 □ INTEXSAN CTC 50 □ LEBON TM 16 □ HTAC □ MORPAN CHA □ NISSAN CATION PB 40 □ PALMITYLTRIMETHYLAMMONIUM CHLORIDE □ PB 40 □ PIONIN B 611 □ SURFROYAL CTAC □ SWANOL CA 2350 □ TRIMETHYLHEXADECYLAMMONIUM CHLORIDE □ N,N,N-TRIMETHYL-1-HEXADECANAMINIUM CHLORIDE □ VARIQUART E 228

TOXICITY DATA with REFERENCE:

uns-ham-Ing 3600 µg/ TIVIEQ 4,717,1990
 orl-mus LDLo:400 mg/kg NTIS** OTS0543823
 skn-rbt LD50:4300 µL/kg/24H NTIS** OTS0538116
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion and skin contact. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

HCQ535 CAS: 53398-76-8 HR: D
2,4-HEXADIENAL, (2E,4Z)-

mf: C₆H₈O mw: 96.13

SYNS: (2E,4Z)-2,4-HEXADIENAL □ HEXDI

TOXICITY DATA with REFERENCE:

dnd-ham-fbr 400 µmol/l/1H MUREAV 497,185,2001

dnd-hmn-oth 250 µmol/l/1H MUREAV 497,185,2001

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HCQ600 CAS: 42296-74-2 HR: 3
HEXADIENE

DOT: UN 2458

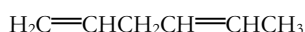
mf: C₆H₁₀ mw: 82.16

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

HCR000 CAS: 592-45-0 HR: 3
1,4-HEXADIENE

mf: C₆H₁₀ mw: 82.15



PROP: A liquid. Bp: 72.3–72.5°, flash p: –5.8°F; lel: 2.0%; uel: 6.1%.

SAFETY PROFILE: A very dangerous fire and explosion hazard when exposed to heat, flame or oxidizers. When heated to decomposition it emits acrid smoke and fumes.

HCR500 CAS: 592-42-7 HR: 3
1,5-HEXADIENE

mf: C₆H₁₀ mw: 82.16

PROP: Liquid. D: 0.691, mp: –141°, bp: 59.6°, flash p: –50.80°F. Insol in water.

SYNS: BIALLYL □ DIALLYL □ HEXA-1,5-DIENE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A very dangerous fire and explosion hazard when exposed to heat, flame, or oxidizers. When heated to decomposition it emits acrid smoke and fumes.

HCR600 CAS: 18409-46-6 HR: 3
2,4-HEXADIENEDIAL, (E,E)-

mf: C₆H₆O₂ mw: 110.12

SYNS: (E,E)-2,4-HEXADIENEDIAL □ (E,E)-

MUCONALDEHYDE □ trans,trans-MUCONALDEHYDE

TOXICITY DATA with REFERENCE:

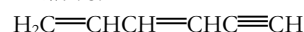
mic-sat 25 µLg/plate MUREAV 240,295,1990

uns-esc 50 nmol/tube MUREAV 248,35,1991
 sce-ipr-mus 9 mg/kg/3D-I MUREAV 240,295,1990
 mnt-ham-ovr 400 µg/ MUREAV 240,295,1990
 mnt-ham-emb 1 µmol/L MUREAV 248,35,1991
 mor-ham-emb 1 µmol/L MUREAV 248,35,1991
 msc-ham-Ing 2 µmol/L EMMUEG 24,112,1994
 mnt-ipr-mus 8 mg/kg/2D TOLED5 121,159,2001
 ipr-mus LD50:6700 µg/kg TXAPA9 80,511,1985

SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HCS100 CAS: 10420-90-3 HR: 3
1,3-HEXADIENE-5-YNE

mf: C₆H₆ mw: 78.11



PROP: D: 0.77 @ 20°/4°, bp: 82–83° @ 756 mm.

SAFETY PROFILE: An unstable material which may explode during distillation. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.

HCS500 CAS: 111-28-4 HR: 2
2,4-HEXADIEN-1-OL

mf: C₆H₁₀O mw: 98.16

PROP: Needles. Mp: 30.5–31.5°, bp: 76–77° @ 12 mm.

SYNS: HEXACOSE □ HEXADENOL □ 2,4-HEXADIENOL □ HEXAKOSE □ HEXENE-OL □ HEXENOL □ 1-HYDROXY-2,4-HEXADIENE □ SORBIC ALCOHOL □ SORBINIC ALCOHOL □ SORBYL ALCOHOL

TOXICITY DATA with REFERENCE:

skn-hmn TDLo:14 mg/kg;SKN JAPMA8 34,221,45

eye-rbt 750 µg/24H SEV 85JCAE -,199,86

skn-hmn TDLo:14 mg/kg;SKN JAPMA8 34,221,45

orl-rat LD50:2140 mg/kg TXAPA9 28,313,74

skn-rat LD50:1010 mg/kg TXAPA9 28,313,74

scu-rbt LDLo:5 g/kg JAPMA8 34,221,45

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Human systemic effects by skin contact: sweating. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.

HCS600 CAS: 16930-93-1 HR: 2
2,4-HEXADIENYL BUTYRATE

mf: C₁₀H₁₆O₂ mw: 168.26

SYNS: A13-32960 □ BUTANOIC ACID, 2,4-HEXADIENYL ESTER □ 2,4-HEXADIENOL BUTANOATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>3160 mg/kg SPEADM 78-1,50,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HCS700 CAS: 16491-24-0 HR: 1
2,4-HEXADIENYL ISOBUTYRATE

mf: C₁₀H₁₆O₂ mw: 168.26

SYNS: 2,4-HEXADIENYL 2-METHYLPROPANOATE □
ISOBUTYRIC ACID, 2,4-HEXADIENYL ESTER (8CI) □ 2-
METHYLPROPANOIC ACID 2,4-HEXADIENYL ESTER □
PROPANOIC ACID, 2-METHYL-, 2,4-HEXADIENYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 g/kg FCTOD7 26,339,88

skn-rbt LD50:>5 g/kg FCTOD7 26,339,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HCT500 CAS: 27310-21-0 HR: 2
2-(2,4-HEXADIENYLOXY)ETHANOL

mf: C₈H₁₄O₂ mw: 142.22

SYN: ETHYLENE GLYCOL, MONO-2,4-HEXADIENE ETHER

TOXICITY DATA with REFERENCE:

orl-rat LD50:3360 mg/kg TXAPA9 28,313,74

skn-rbt LD50:1010 mg/kg TXAPA9 28,313,74

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits acrid smoke and fumes. See also GLYCOL ETHERS.

HCU500 CAS: 821-08-9 HR: 3
1,5-HEXADIEN-3-YNE

mf: C₆H₆ mw: 78.11



PROP: A liquid with unusual onion-like odor. D: 0.785 @ 20°/4°, bp: 83.5°, flash p: <-4°F, lel: 1.5%.

SYN: DIVINYL ACETYLENE

SAFETY PROFILE: Upon exposure to air it readily forms explosively unstable polymeric peroxides. A very dangerous fire and explosion hazard when exposed to heat, flame or oxidizing materials. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS and PEROXIDES.

HCV000 CAS: 2749-79-3 HR: 3
4,5-HEXADIEN-2-YN-1-OL

mf: C₆H₆O mw: 94.114



SAFETY PROFILE: The concentrated residue from distillation may explode. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.

HCV500 CAS: 9011-04-5 HR: 3
HEXADIMETHRINE BROMIDE

mf: C₁₀H₂₄N₂•xC₃H₆Br₂ mw: 1585.73

PROP: White hygroscopic, amorphous polymer. Sol in water up to 10%.

SYNS: 1,3-DIBROMOPROPANE polymer with N,N,N',N'-TETRA-METHYL-1,6-HEXANEDIAMINE □ 1,5-DIMETHYL-1,5-d-DIAZAUNDECAMETHYLENE POLYMETHOBROMIDE □ POLYBREM □ POLY(N,N,N',N'-TETRAMETHYL-N-TRI-METHYLENEHEXAMETHYLENEDIAMMONIUM DIBROMIDE) □ N,N,N',N'-TETRAMETHYLHEXAMETHYLENE-DIAMINE-1,3-DIBROMOPROPANE copolymer

TOXICITY DATA with REFERENCE:

ivn-rat LD50:20 mg/kg TXAPA9 1,185,59

ipr-mus LD50:62 mg/kg TXAPA9 1,185,59

ivn-mus LD50:28 mg/kg TXAPA9 1,185,59

ivn-dog LD50:15 mg/kg TXAPA9 1,185,59

ivn-rbt LD50:10 mg/kg TXAPA9 1,185,59

SAFETY PROFILE: A poison by intravenous and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x and Br₂. See also BROMIDES.

HCV600 CAS: 32527-15-4 HR: D
2,4-HEXADIEN-1,6-BIS-p-TOLUENE-SULFONATE

mf: C₂₀H₁₈O₆S₂ mw: 418.50

SYN: 2,4-HEXADIENE-1,6-DIOL, DI-p-TOLUENESULFONATE

TOXICITY DATA with REFERENCE:

mno-sat 500 ng/plate ENMUDM 6,463,84

cyt-ham:ovr 1250 nmol/L ENMUDM 6,463,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of SO_x.

HCV850 CAS: 628-16-0 HR: 3
1,5-HEXADIENE

mf: C₆H₆ mw: 78.11

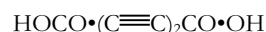


PROP: Bp: 87.5–88.5°.

SAFETY PROFILE: Explodes when heated to 100°C. Upon decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.

HCV875 CAS: 300-90-0 HR: 3
2,4-HEXADIENE-1,6-DIOIC ACID

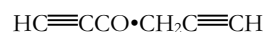
mf: C₆H₂O₄ mw: 138.08



SAFETY PROFILE: Explodes when heated. Upon decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.

HCV880 CAS: 300-90-0 HR: 3
1,5-HEXADIENE-3-ONE

mf: C₆H₄O mw: 92.10



SAFETY PROFILE: Explodes when heated. Upon decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS and KETONES.

HCW000 CAS: 300-90-0 HR: 3
2,4-HEXADIENYLENE BISCHLOROFORMATE

mf: C₈H₄Cl₂O₄ mw: 235.03



SAFETY PROFILE: May explode at 15°C/0.2 mbar. When heated to decomposition it emits toxic fumes of Cl⁻. See also ACETYLENE COMPOUNDS.

HCX000 CAS: 604-88-6 HR: 3
HEXAETHYLBENZENE

mf: C₁₈H₃₀ mw: 246.48

PROP: Colorless crystals from EtOH. Needles from heptane. Mp: 130°, bp: 298°, d: 0.831 @ 130°, vap press: 10 mm @ 150.3°. Insol in water; very sol in benzene.

TOXICITY DATA with REFERENCE:

imp-mus TDLo:1000 mg/kg;ETA CNREA8 26,105,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Flammable when exposed to heat or flame; can react with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes.

**HCX050 CAS: 1112-63-6 HR: 3
HEXAETHYLDISTANNOXANE**

mf: C₁₂H₃₀OSn₂ mw: 427.80

PROP: Air-sensitive liquid. D: 1.377 @ 20°, bp: 272°.

SYNS: DISTANNOXANE, HEXAETHYL- □ 1,1,1,3,3,3-HEXAETHYLDISTANNOXANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1 mg/kg RPTOAN 42,73,79

OSHA PEL: TWA 0.1 mg(Sn)/m³

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)

NIOSH REL: (Organotin Compound): 10H TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of Sn.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

**HCX100 CAS: 994-50-3 HR: 3
HEXAETHYLDISTANNTHIANE**

mf: C₁₂H₃₀SSn₂ mw: 443.86

PROP: A liquid. D: 1.431 @ 20°, bp: 187–188° @ 20 mm.

SYNS: DISTANNTHIANE, HEXAETHYL- □ 1,1,1,3,3,3-HEXAETHYLDISTANNTHIANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:7 mg/kg RPTOAN 42,73,79

OSHA PEL: TWA 0.1 mg(Sn)/m³

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)

NIOSH REL: (Organotin Compounds): 10H TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x and Sn.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

**HCY000 CAS: 757-58-4 HR: 3
HEXAETHYL TETRAPHOSPHATE**

DOT: UN 1611

mf: C₁₂H₃₀O₁₃P₄ mw: 506.30

PROP: Liquid. Mp: -40°; bp: decomp above 150°.

SYNS: BLADAN □ BLADAN BASE □ ETHYL TETRAPHOSPHATE □ ETHYL TETRAPHOSPHATE, HEXA- □ HET □ HETP □ HEXAETHYLTETRAFOSFAT □ HEXAETHYL TETRAPHOSPHATE, liquid or solid (DOT) □ HTP □ RCRA WASTE NUMBER P062 □ TETRAPHOSPHATE HEXAETHYLQUE (FRENCH)

TOXICITY DATA with REFERENCE:

orl-rat LD50:7 mg/kg FEPR7 6,335,47

skn-rat LDLo:15 mg/kg APTOA6 4,143,48

ipr-rat LD50:2500 µg/kg JAMAAP 144,104,50

scu-rat LD50:640 µg/kg APTOA6 4,143,48

orl-mus LD50:56 mg/kg FEPR7 6,335,47

ipr-mus LD50:6100 µg/kg JPETAB 92,173,48

scu-mus LDLo:1 mg/kg APTOA6 4,143,48

ivn-dog LDLo:1300 µg/kg JPETAB 92,173,48

ims-dog LDLo:1500 µg/kg JPETAB 92,173,48

scu-cat LDLo:3 mg/kg APTOA6 4,143,48

orl-rbt LD50:21 mg/kg FEPR7 6,335,47

scu-rbt LDLo:2 mg/kg APTOA6 4,143,48

ivn-rbt LD50:690 µg/kg FEPR7 6,335,47

orl-gpg LD50:16 mg/kg FEPR7 6,335,47

scu-gpg LD50:1500 µg/kg APTOA6 4,143,48

DOT CLASSIFICATION: 6.1; Label: Poison, KEEP AWAY FROM FOOD

SAFETY PROFILE: A poison by ingestion, skin contact, intraperitoneal, subcutaneous, intravenous, and intramuscular routes. When heated to decomposition it emits toxic fumes of PO_x. See also TETRAETHYL PYROPHOSPHATE.

**HCY500 CAS: 17548-36-6 HR: 3
HEXAETHYLTRIALUMINUM TRITHIOCYANATE**

mf: C₁₅H₃₀Al₃N₃S₃ mw: 429.56

PROP: Yellow oil.

SAFETY PROFILE: Explodes when heated to 210°C in a vacuum. When heated to decomposition it emits very toxic fumes of SO_x, NO_x, and CN⁻. See also ALUMINUM COMPOUNDS and THIOCYANATES.

**HCY600 CAS: 86479-06-3 HR: 1
HEXAFLUMURON**

mf: C₁₆H₁₈Cl₂F₆N₂O₃ mw: 471.26

PROP: A reduced risk pesticide registered with EPA.

SYNS: A13-29832 □ BENZAMIDE, N-(((3,5-DICHLORO-4-(1,1,2,2-TETRAFLUOROETHOXY)PHENYL)AMINO)CARBONYL)-2,6-DIFLUORO- □ 1-(3,5-DICHLORO-4-(1,1,2,2-TETRAFLUOROETHOXY)PHENYL)-3-(2,6-DIFLUOROBENZOYL)UREA (IUPAC) □ HEXAFLURON □ XRD 473

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg PEMNDP 9,471,91

ihl-rat LC50:>2500 mg/m³/4H PEMNDP 9,471,91

skn-rat LD50:>5 g/kg PEMNDP 9,471,91

orl-dck LD50:>2 g/kg PEMNDP 9,471,91

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Cl⁻.

**HCZ000 CAS: 684-16-2 HR: 3
HEXAFLUOROACETONE**

DOT: UN 2420

mf: C₃F₆O mw: 166.03

PROP: A colorless, nonflammable gas. D: 1.65 @ 25°, fp: -129°, bp: -26°.

SYNS: 6FK □ NCI-C56440

TOXICITY DATA with REFERENCE:

skn-rat TDLo:55 mg/kg (6-16D preg):TER TXAPA9 41,195,77

skn-rat TDLo:100 mg/kg (6-15D preg):REP FAATDF 2,73,82

orl-rat LDLo:191 mg/kg TXAPA9 6,341,64

ihl-rat LC50:275 ppm/3H TXAPA9 6,341,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 ppm (skin)

ACGIH TLV: TWA 0.1 ppm (skin)

DOT CLASSIFICATION: 2.3; Label: Poison Gas

SAFETY PROFILE: A poison by ingestion.

Moderately toxic by inhalation. A poisonous irritant to the skin, eyes, and mucous membranes. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of F⁻. See also FLUORINE and FLUORIDES.

HCZ100 CAS: 1478-61-1 HR: 2
HEXAFLUOROACETONE BISPHENOL A

mf: C₁₅H₁₀F₆O₂ mw: 336.25

SYNS: BIPHENOL AF □ BIPHENOL AF □ HEXAFLUORO-DIPHENYLPROPANE □ 3,3'-(HEXAFLUORO-ISOPROPYLIDENE)-DIPHENOL □ PHENOL, 4,4'-(TRIFLUORO-1-(TRIFLUOROMETHYL)ETHYLIDENE)DI- □ PHENOL, 4,4'-(2,2,2-TRIFLUORO-1-(TRIFLUOROMETHYL)ETHYLIDENE)BIS- □ 4,4'-(TRIFLUORO-1-(TRIFLUOROMETHYL)ETHYLIDENE)-DIPHENOL

TOXICITY DATA with REFERENCE:

mnt-ham-lng 50 µmol/L MUREAV 390,21,1997

orl-rat LD50:3400 mg/kg NTIS** OTS0555704

SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of F⁻.

HDA000 CAS: 10543-95-0 HR: 3
HEXAFLUOROACETONE HYDRATE
DOT: UN 2552

mf: C₃F₆O•H₂O mw: 184.05

PROP: Bp: 57° @ 93 mm.

SYN: HEXAFLUORO-2-PROPANONE HYDRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:190 mg/kg TXAPA9 7,592,65

skn-rbt LD50:113 mg/kg TXAPA9 7,592,65

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion and skin contact. When heated to decomposition it emits toxic fumes of F⁻. See also HEXAFLUOROACETONE.

HDA500 CAS: 34202-69-2 HR: 3
HEXAFLUORO ACETONE TRIHYDRATE

mf: C₃F₆O•3H₂O mw: 220.09

PROP: Colorless liquid. Mp: 18–21°.

SYN: GC 7787

TOXICITY DATA with REFERENCE:

orl-rat LD50:190 mg/kg 28ZEAL 5,128,76

skn-rbt LD50:113 mg/kg 28ZEAL 5,128,76

SAFETY PROFILE: A poison by ingestion and skin contact. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of F⁻. See also HEXAFLUOROACETONE.

HDB000 CAS: 392-56-3 HR: 3
HEXAFLUOROBENZENE

mf: C₆F₆ mw: 186.06

PROP: A liquid. Flash p: 50°F, d: 1.61 @ 20°/4°, mp: 3–4°, bp: 81–82° @ 743 mm.

TOXICITY DATA with REFERENCE:

ihl-mus LC50:95 g/m³/2H IZSBAI 3,91,65

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by inhalation.

Dangerous fire hazard when exposed to heat, flame, or oxidizers. Forms extremely heat-sensitive explosive complexes with metals (e.g., chromium, vanadium, and other transition metals). When heated to decomposition it emits toxic fumes of F⁻. See also FLUORIDES.

HDB100 CAS: 83805-11-2 HR: 3
HEXAFLUOROCALCITRIOL

mf: C₂₇H₃₈F₆O₃ mw: 524.65

SYNS: FALECALCITRIOL □ FLOCALCITRIOL □ (+)-1-α,25-DIHYDROXY-26,26,27,27,27-HEXAFLUOROCHLOR-ECALCIFEROL □ (+)-1-α,25-DIHYDROXY-26,26,27,27,27-HEXAFLUOROVITAMIN D3 □ 9,10-SECOCHOLESTA-5,7,10(19)-TRIENE-1,3,25-TRIOL, 26,26,26,27,27,27-HEXAFLUORO-, (1-α,3-β,5Z,7E)- □ RO 23-4194 □ ST 630

TOXICITY DATA with REFERENCE:

orl-rat LD50:41,700 ng/kg KSRNAM 30,2695,1996

ivn-rat LDLo:3 µg/kg KSRNAM 30,2695,1996

orl-mus LD50:55 µg/kg KSRNAM 30,2695,1996

orl-dog LDLo:5 µg/kg KSRNAM 30,2695,1996

SAFETY PROFILE: A poison by ingestion and intravenous routes. When heated to decomposition it emits toxic vapors of F⁻.

HDB500 CAS: 11111-49-2 HR: 3
HEXAFLUORODICHLOROBUTENE

SYN: HFCB

TOXICITY DATA with REFERENCE:

ihl-rat LC50:16 ppm/4H FLABAZ 5,4,72

ihl-mus LC50:26 ppm/4H FLABAZ 5,4,72

ihl-dog LC50:182 ppm/4H FLABAZ 5,4,72

ihl-mky LC50:54 ppm/3H FLABAZ 5,4,72

ihl-rbt LCLo:500 ppm/1H FLABAZ 5,4,72

SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits very toxic fumes of Cl⁻ and F⁻.

HDC000 CAS: 333-36-8 HR: 3
HEXAFLUORODIETHYL ETHER

mf: C₄H₄F₆O mw: 182.08

PROP: Mobile liquid with mild ethereal odor. D: 1.41 @ 20°/4°, bp: 63.9°. Practically insol in H₂O; sol in EtOH.

SYNS: BIS(TRIFLUOROETHYL)ETHER □ BIS(2,2,2-TRIFLUOROETHYL)ETHER □ FLUOROETHYL □ FLUOROTH-YL □ FLUROTHYL □ HFE □ INDOKLON □ SF6539 □ SKF 6539

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1260 mg/kg AIPTAK 129,223,60

ivn-mus LD50:46 mg/kg AIPTAK 129,223,60

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by intraperitoneal route. When heated to

decomposition it emits toxic fumes of F^- . See also ETHERS and FLUORIDES.

HDC100 CAS: 76-16-4 HR: 3
HEXAFLUOROETHANE

mf: C_2F_6 mw: 138.02

PROP: Odorless and colorless. Bp: -78.2° , d: 4.76. Atmospheric lifetime: 10,000 years.

SYNS: ETHANE, HEXAFLUORO- □ F 116 □ FREON 116 □ PERFLUOROETHANE □ R 116

TOXICITY DATA with REFERENCE:

ihl-rat LC: >20 pph/2H JOCMA7 4,262,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits acrid smoke and irritating vapors.

HDC300 CAS: 376-89-6 HR: 3
HEXAFLUOROGLUTARONITRILE

mf: $C_5F_6N_2$ mw: 202.07

PROP: Bp: 38° @ 745 mm.

SYNS: PERFLUOROGLUTARIC ACID DINITRILE □ PERFLUOROGLUTARONITRILE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2600 mg/kg 85GMAT -,97,82

orl-mus LD50:997 mg/kg 85GMAT -,97,82

ihl-mus LC50:58 mg/ m^3 /4H 85GMAT -,97,82

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of F^- , CN^- , and NO_x . See also NITRILES.

HDC425 CAS: 71359-64-3 HR: 3
HEXAFLUOROGLUTARYL DIHYPOCHLORITE

mf: $C_5Cl_2F_6O_4$ mw: 308.95

SAFETY PROFILE: Explodes above $-10^\circ C$. Upon decomposition it emits toxic fumes of F^- and Cl^- . See also FLUORIDES and HYPOCHLORITES.

HDC435 CAS: 13252-14-7 HR: 2
2-(1,1,2,3,3,3-HEXAFLUORO-2-(HEPTA-FLUOROPROPOXY)PROPOXY)-2,3,3,3-TETRAFLUOROPROPANOIC ACID

mf: $C_9HF_{17}O_4$ mw: 496.10

SYNS: NONANOIC ACID, 3,6-DIOXA-2,5-DI(TRIFLUOROMETHYL)-UNDECAFLUORO-, ACID FLUORIDE □ PROPANOIC ACID, 2-(1,1,2,3,3,3-HEXAFLUORO-2-(HEPTAFLUORO-PROPOXY)-PROPOXY)-2,3,3,3-TETRAFLUORO- □ X 70-540-3

TOXICITY DATA with REFERENCE:

eye-rbt 100 μL /24H MOD NTIS** OTS0555714

ihl-rat LCLo:39 mg/ m^3 /4H NTIS** OTS0555888

skn-rbt LCLo:670 mg/kg NTIS** OTS0555714

SAFETY PROFILE: Moderately toxic by inhalation and skin contact. A moderate eye irritant. When heated to decomposition it emits toxic vapors of F^- .

HDC450 CAS: 382-10-5 HR: 3
HEXAFLUOROISOBUTYLENE

mf: $C_4H_2F_6$ mw: 164.06

PROP: A colorless pressurized liquid. Bp: 14.5° , mp: 111° . Sol in water.

SYNS: 1,1-BIS(TRIFLUOROMETHYL)ETHENE □ 3,3,3,4,4-HEXAFLUOROISOBUTYLENE □ PROPENE, 3,3,3-TRIFLUORO-2-(TRIFLUOROMETHYL)- □ 3,3,3-TRIFLUORO-2-(TRIFLUOROMETHYL)PROPENE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:1425 ppm/4H EPASR* 8EHQ-0683-0476S

ihl-rat TCLo:53 ppm/6H/2W-I TXAPA9 86,327,86

ihl-rat TCLo:30 ppm/6H/13W-I TXAPA9 86,327,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by inhalation. When heated to decomposition it emits toxic vapors of F^- .

HDC500 CAS: 920-66-1 HR: 3
HEXAFLUOROISOPROPANOL

mf: $C_3H_2F_6O$ mw: 168.05

PROP: A liquid. D: 1.46, bp: $57-58^\circ$.

SYNS: 1,1,1,3,3,3-HEXAFLUORO-2-PROPANOL □ HFIP

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:3200 ppm/4H 34ZIAG -,310,69

orl-mus LD50:600 mg/kg JMCMA7 13,1215,70

ipr-mus LD50:300 mg/kg JMCMA7 13,1215,70

ivn-mus LD50:180 mg/kg CSLNX* NX#03623

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. Mildly toxic by inhalation. When heated to decomposition it emits toxic fumes of F^- . See also FLUORIDES.

HDD000 CAS: 1645-75-6 HR: 3
HEXAFLUOROISOPROPYLIDENEAMINE

mf: C_3HF_6N mw: 165.04

SYN: 2-IMINOHEXAFLUOROPROPANE

SAFETY PROFILE: Explosive reaction with concentrated solutions of butyllithium in hexane at $0^\circ C$. When heated to decomposition it emits toxic fumes of F^- and NO_x . See also FLUORIDES and AMINES.

HDD500 CAS: 31340-36-0 HR: 3
HEXAFLUOROISOPROPYLIDENEAMINO-LITHIUM

mf: C_3F_6LiN mw: 170.97

$(F_3C)_2C=NLi$

SAFETY PROFILE: Explosive reaction with thionyl chloride. Violent reaction at $25^\circ C$ with chloro- and fluoro-derivatives of arsenic, boron, phosphorus, silicon and sulfur. Incompatible with nonmetal halides. When heated to decomposition it emits very toxic fumes of NO_x and F^- . See also FLUORIDES and LITHIUM COMPOUNDS.

HDE000 CAS: 16940-81-1 HR: 3
HEXAFLUOROPHOSPHORIC ACID

DOT: UN 1782

mf: F_6HP mw: 145.98

PROP: Clear oil. Mp: 31° , d: 1.65. Strong aq solns fume in air and gradually decomp.

SYN: HYDROGEN HEXAFLUOROPHOSPHATE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2.5 mg(F)/m³

ACGIH TLV: TWA 2.5 mg(F)/m³; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.

NIOSH REL: (Inorganic Fluorides) TWA 2.5 mg(F)/m³

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: A poison by all routes. A corrosive irritant to skin, eyes, and mucous membranes. When heated to decomposition it emits highly toxic F⁻ and PO_x. See also HYDROFLUORIC ACID and PHOSPHORIC ACID.

HDE050 CAS: 431-63-0 HR: 1
1,1,1,2,3,3-HEXAFLUOROPROPANE

mf: C₃H₂F₆ mw: 152.05

SYNS: HFC 236EA □ HFC-236EA □ PROPANE, 1,1,1,2,3,3-HEXAFLUORO- □ R236EA

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:>85,000 ppm/4H TOXID9 30,289,1996

ihl-rat TCLo:24,000 ppm/4H IJOTO* 19,69,2000

ihl-dog TCLo:50,000 ppm/4H IJOTO* 19,69,2000

SAFETY PROFILE: Low toxicity by inhalation. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of F⁻.

HDE100 CAS: 690-39-1 HR: 2
1,1,1,3,3,3-HEXAFLUOROPROPANE

mf: C₃H₂F₆ mw: 152.05

SYNS: BISTRIFLUOROMETHYLMETHANE □ 2,2-DIHYDROPERFLUOROPROPANE □ HFC 236FA □ HFC-236FA □ PROPANE, 1,1,1,3,3,3-HEXAFLUORO- □ R 236FA

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:>19.5 pph/4H TOXID9 30,291,1996

ihl-rat TCLo:457,000 ppm/4H IJOTO* 19,69,2000

SAFETY PROFILE: Moderately toxic by inhalation route. When heated to decomposition it emits toxic vapors of F⁻.

HDE500 CAS: 13098-39-0 HR: 3
HEXAFLUORO-2-PROPANONE SESQUIHYDRATE

mf: C₃F₆O•3/2H₂O mw: 193.06

PROP: Clear colorless liquid. Sol in water: >=100 mg/mL @ 22°.

SYN: HEXAFLUOROACETONE SESQUIHYDRATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:300 mg/kg JMCMA 13,1215,70

ipr-mus LD50:250 mg/kg JMCMA 13,1215,70

ivn-mus LD50:180 mg/kg CSLNX* NX#03172

SAFETY PROFILE: A poison by ingestion, intraperitoneal, and intravenous routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of F⁻. See also HEXAFLUOROACETONE.

HDF000 CAS: 116-15-4 HR: 3
HEXAFLUOROPROPENE
DOT: UN 1858

mf: C₃F₆ mw: 150.03

PROP: Gas. Mp: -156°, bp: -29°, d: 1.583 @ -40°/4°.

SYNS: HEXAFLUOROPROPYLENE (DOT) □

PERFLUOROPROPENE □ PERFLUOROPROPYLENE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:11,200 mg/m³/4H GTPZAB 15(2),38,71

ihl-mus LC50:750 ppm/4H AMPMAR 27,509,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 2.2; Label: Nonflammable Gas

SAFETY PROFILE: Mildly toxic by inhalation.

Explosive reaction with Grignard reagents (e.g., phenylmagnesium bromide). Reacts with tetrafluoroethylene + air to form explosive peroxides.

When heated to decomposition it emits toxic fumes of F⁻.

HDF050 CAS: 428-59-1 HR: D
HEXAFLUOROPROPENE EPOXIDE

DOT: NA 1956

mf: C₃F₆O mw: 166.03

PROP: Bp: -27°.

SYNS: HEXAFLUOROEPPOXYPROPANE □ HEXAFLUORO-1,2-EPOXYPROPANE □ HEXAFLUOROPROPENE OXIDE □ HEXAFLUOROPROPYLENE OXIDE (DOT) □ OXIRANE, TRIFLUORO(TRIFLUOROMETHYL)- □ PERFLUORO(METHYL-OXIRANE) □ PERFLUOROPROPYLENE OXIDE □ PROPANE, 1,2-EPOXY-1,1,2,3,3,3-HEXAFLUORO- □ PROPYLENE OXIDE HEXAFLUORIDE □ (TRIFLUOROMETHYL)TRIFLUORO-OXIRANE □ TRIFLUORO(TRIFLUOROMETHYL)OXIRANE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 2.2; Label: Nonflammable Gas

SAFETY PROFILE: Nonflammable gas shipped under pressure. When heated to decomposition it emits toxic vapors of F⁻.

HDF075 CAS: 2378-02-1 HR: 1
1,1,1,3,3,3-HEXAFLUORO-2-(TRIFLUORO-METHYL)-2-PROPANOL

mf: C₄HF₉O mw: 236.05

SYNS: NONAFLUOR-terc.BUTANOL □ NONAFLUORO-terc-BUTANOL □ 2-PROPANOL, 1,1,1,3,3,3-HEXAFLUORO-2-(TRIFLUOROMETHYL)-

TOXICITY DATA with REFERENCE:

ihl-mus LC50:10,230 mg/m³/2H 85JCAE -,521,86

SAFETY PROFILE: Low toxicity by inhalation. When heated to decomposition it emits toxic vapors of F⁻.

HDF100 CAS: 61840-09-3 HR: 3
HEXAFUNGIN

TOXICITY DATA with REFERENCE:

orl-mus LD50:100 mg/kg 37XLA2 1,226,78

ipr-mus LD50:20 mg/kg 37XLA2 1,226,78

ivn-mus LD50:5 mg/kg 37XLA2 1,226,78

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes.

HDF300 CAS: 77-99-6 HR: 2

HEXAGLYCERINEmf: C₆H₁₄O₃ mw: 134.20**PROP:** Colorless solid, flake. Mp: 58°, bp: 285°. Flash pt: 172°. Sol in water: > 100 g/L at room temp.**SYNS:** ETHRIOL □ ETHYLTRIMETHYLOLMETHANE □ ETRIOL □ ETTRIOL □ 1,3-PROPANEDIOL, 2-ETHYL-2-(HYDROXYMETHYL)- □ TMP □ TMP (ALCOHOL) □ 1,1,1-TRI(HYDROXYMETHYL)PROPANE □ TRIMETHYLOLPROPANE □ 1,1,1-TRIMETHYLOLPROPANE □ TRIS(HYDROXYMETHYL)PROPANE □ 1,1,1-TRIS(HYDROXYMETHYL)-PROPANE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:14,100 mg/kg HYSAAV 32(5),288,67

orl-mus LD50:13,700 mg/kg HYSAAV 32(5),288,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**HDF500 CAS: 35281-34-6 HR: D
1,2,3,7,8,9-HEXAHYDROANTHANTHRENE**mf: C₂₂H₂₀ mw: 284.42**SYN:** 1,2,3,7,8,9-HEXAHYDRODIBENZO(def,mno)CHRYSENE**TOXICITY DATA with REFERENCE:**

mma-sat 100 µg/plate MUREAV 51,311,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Mutation data reported. Many chrysene compounds are carcinogens. When heated to decomposition it emits acrid smoke and fumes.**HDG000 CAS: 111-49-9 HR: 3
HEXAHYDRO-1H-AZEPINE****DOT:** UN 2493mf: C₆H₁₃N mw: 99.20**PROP:** A liquid. D: 0.864 @ 22°/4°, bp: 136–137°, flash p: 71.6°F. Partially misc in water.**SYNS:** AZACYCLOHEPTANE □ 1-AZACYCLOHEPTANE □ CYCLOHEXAMETHYLENIMINE □ G 0 □ HEXAHYDRO-AZEPINE □ HEXAMETHYLENE IMINE (DOT) □ HEXAMETHYLENIMINE □ HOMOPIPERIDINE □ PERHYDROAZEPINE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:410 mg/kg GTPZAB 18(2),29,74

ihl-rat LCLo:4800 ppm/4H 34ZIAG -,311,69

ihl-mus LC50:10,800 mg/m³/2H 85GMAT -,74,82

scu-mus LDLo:550 mg/kg AEXPBL 50,199,1903

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid, Corrosive**SAFETY PROFILE:** Moderately toxic by ingestion and subcutaneous routes. Mildly toxic by inhalation. A corrosive irritant to the eyes, skin, and mucous membranes. A dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizers. When heated to decomposition it emits toxic fumes of NO_x.**HDG600 HR: 3
(2-HEXAHYDRO-1-AZEPINYL)ETHYL-****GUANIDINE SULFATE (2:1)**mf: C₁₈H₄₀N₈•H₂O₄S mw: 466.74**TOXICITY DATA with REFERENCE:**

orl-mus LD50:2 g/kg YKKZAJ 83,629,63

scu-mus LD50:887 mg/kg YKKZAJ 83,629,63

ivn-mus LD50:97,400 µg/kg YKKZAJ 83,629,63

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x and SO_x. See also SULFATES.**HDH000 CAS: 63041-92-9 HR: 2
1,2,4,5,6,7-HEXAHYDROBENZ(e)ACEAN-
THRYLENE**mf: C₂₀H₁₈ mw: 258.38**SYN:** 1',2',3',4' -TETRAHYDRO-4,10-ACE-1,2-BENZANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.**HDH100 CAS: 98-89-5 HR: 2
HEXAHYDROBENZOIC ACID**mf: C₇H₁₂O₂ mw: 128.19**SYNS:** CARBOXYCYCLOHEXANE □ CYCLOHEXANECARBOXYLIC ACID □ CYCLOHEXANOIC ACID □ CYCLOHEXYLCARBOXYLIC ACID**TOXICITY DATA with REFERENCE:**

orl-rat LD50:3265 mg/kg DCTODJ 3,249,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**HDH200 CAS: 100-49-2 HR: 3
HEXAHYDROBENZYL ALCOHOL**mf: C₇H₁₄O mw: 114.21**PROP:** Additive for soaps or soap substitute.**SYNS:** BENZYL ALCOHOL, HEXAHYDRO- □ CYCLO-HEXANECARBINOL □ CYCLOHEXANEMETHANOL □ CYCLOHEXYLCARBINOL □ CYCLOHEXYLMETHANOL □ HYDROXYMETHYLCYCLOHEXANE □ METHANOL, CYCLOHEXYL- □ USAF DO-49**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:250 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.**HDK000 CAS: 153-32-2 HR: 2
1,2,3,4,12,13-HEXAHYDRODIBEN(a,h)-
ANTHRACENE**mf: C₂₂H₂₀ mw: 284.42**TOXICITY DATA with REFERENCE:**

mma-sat 1 µg/plate MUREAV 51,311,78

skn-mus TDLo:152 mg/kg/50W-I:NEO JNCIAM 34,1,65

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported.

When heated to decomposition it emits acrid smoke and fumes.

HDK100 CAS: 139157-71-4 HR: D
HEXAHYDRO-1,3-DICYCLOHEXYL-5-((1-METHYL-5-NITRO-1H-IMIDAZOL-2-YL)METHYLENE)PYRIMIDINE

mf: C₂₁H₃₃N₅O₂ mw: 387.59

SYN: PYRIMIDINE, HEXAHYDRO-1,3-DICYCLOHEXYL-5-((1-METHYL-5-NITRO-1H-IMIDAZOL-2-YL)METHYLENE)-

TOXICITY DATA with REFERENCE:

mic-bac-sat 7700 pmol/plate EMMUEG 19,167,92

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HDK200 CAS: 3369-52-6 HR: 1
1,3,3A,4,7,7A-HEXAHYDRO-4,5,6,7,8,8-HEXACHLORO-4,7-METHANOISO-BENZOFURAN

mf: C₉H₆Cl₆O mw: 342.85

SYNS: ENDOSULFAN ETHER □ 4,7-METHANOISOBENZOFURAN, 1,3,3A,4,7,7A-HEXAHYDRO-4,5,6,7,8,8-HEXACHLORO-

TOXICITY DATA with REFERENCE:

orl-rat LD50:>15 g/kg RREVAH 83,1-174,82

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of Cl⁻.

HDK210 CAS: 1021-19-8 HR: 2
1,3,3A,4,7,7A-HEXAHYDRO-4,5,6,7,8,8-HEXACHLORO-4,7-METHANOISOBENZOFURAN-1-OL

mf: C₉H₆Cl₆O₂ mw: 358.85

SYNS: ENDOSULFAN HYDROXYETHER □ ENDOSULFAN α -HYDROXY ETHER □ 1- α -HYDROXYENDOSULFAN ETHER □ 4,7-METHANOISOBENZOFURAN-1-OL, 1,3,3A,4,7,7A-HEXAHYDRO-4,5,6,7,8,8-HEXACHLORO-

TOXICITY DATA with REFERENCE:

orl-rat LD50:1750 mg/kg RREVAH 83,1-174,82

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Cl⁻.

HDO500 CAS: 100447-46-9 HR: 3
1,2,3a,4,5,9b-HEXAHYDRO-8-HYDROXY-3-METHYL-9b-PROPYL-3H-BENZ(e)INDOLE, HYDROCHLORIDE

mf: C₁₆H₂₃NO•ClH mw: 281.86

TOXICITY DATA with REFERENCE:

orl-mus LDLo:300 mg/kg CHTPBA 7,450,72

ipr-mus LDLo:100 mg/kg CHTPBA 7,450,72

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

HDP500 CAS: 18530-56-8 HR: 2
3-(HEXAHYDRO-4,7-METHANOINDAN-5-YL)-1,1-DIMETHYLUREA

mf: C₁₃H₂₂N₂O mw: 222.37

PROP: Crystals. Mp: 178°.

SYNS: ASEPTA HERBAN □ HERBAN □ HERCULES 7531 □ 1-(3a,4,5,6,7,7a-HEXAHYDRO-4,7-METHANO-5-INDANYL)-3,3-

DIMETHYLUREA □ 1-(5-(3a,4,5,6,7,7a-HEXAHYDRO-4,7-METHANOINDANYL))-3,3-DIMETHYLUREA □ 3-(5-(3a,4,5,6,7,7a-HEXAHYDRO-4,6-METHANOINDANYL))-1,1-DIMETHYLUREA □ NAREA □ NOREA □ NORES □ NORURON □ 1-(TETRAHYDRODICYCLOPENTADIENYL)-3,3-DIMETHYLUREA

TOXICITY DATA with REFERENCE:

orl-rat LD50:2000 mg/kg FMCHA2 -,C122,83

skn-rat LD50:23 g/kg PCOC** -,817,66

orl-mus LD50:4600 mg/kg PCOC** -,817,66

orl-dog LD50:3700 mg/kg PCOC** -,817,66

skn-rbt LD50:723 mg/kg 28ZEAL 5,167,76

SAFETY PROFILE: Moderately toxic by skin contact and ingestion. An herbicide. When heated to decomposition it emits toxic fumes of NO_x.

Hdq500 CAS: 15923-42-9 HR: 3
1,2,3,4,5,6-HEXAHYDRO-6-METHYL AZEPINO-(4,5-b)INDOLE HYDROCHLORIDE

mf: C₁₃H₁₆N₂•ClH mw: 236.77

SYN: U-22394A

TOXICITY DATA with REFERENCE:

orl-rat LD50:96 mg/kg 27ZQAG -,140,72

ipr-rat LD50:58 mg/kg 27ZQAG -,140,72

ipr-mus LD50:112 mg/kg 27ZQAG -,140,72

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

HDR500 CAS: 35281-27-7 HR: 2
6,7,8,9,10,12b-HEXAHYDRO-3-METHYL CHOLANTHRENE

mf: C₂₁H₂₂ mw: 274.43

SYNS: BENZ(j)ACEANTHRYLENE, 1,2,6,7,8,9,10,12b-OCTAHYDRO-3-METHYL- □ 1,2,6,7,8,9,10,12b-OCTAHYDRO-3-METHYLBENZ(j)ACEANTHRYLENE

TOXICITY DATA with REFERENCE:

mma-sat 1 μ g/plate MUREAV 51,311,78

skn-mus TDLo:140 mg/kg/50W-I:CAR ZKKOBW 77,226,72

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

HDR700 CAS: 52736-62-6 HR: 2
HEXAHYDRO-1-((2-METHYLCYCLOHEXYL)-CARBONYL)-1H-AZEPINE

SYNS: AI3-35770 □ 1H-AZEPINE, HEXAHYDRO-1-((2-METHYLCYCLOHEXYL)CARBONYL)- □ ENT 35770

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV NTIS** AD-A144-424

SAFETY PROFILE: A severe skin and eye irritant.

HDR800 CAS: 127380-62-5 HR: 3
(3A- α -4- β ,7- β ,7A α -HEXAHYDRO-3A-METHYL-4,7-EPOXYISOBENZOFURAN-1,3-DIONE

mf: C₉H₁₀O₄ mw: 182.19

SYN: 4,7-EPOXYISOBENZOFURAN-1,3-DIONE, HEXAHYDRO-3A-METHYL-, (3A- α -4- β ,7- β ,7A α -

TOXICITY DATA with REFERENCE:

ipr-mus LD50:3100 μ g/kg CRTOEC 3,318,90

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

HDS200 CAS: 7458-65-3 HR: 3
1,2,3,4,5,6-HEXAHYDRO-1-(2'-METHYL-3'-(N-METHYLAMINO)PROPYL)-1-BENZAZOCINE HYDROCHLORIDE

mf: C₁₆H₂₆N₂•ClH mw: 282.90

SYN: UCB 4268

TOXICITY DATA with REFERENCE:

orl-rat LD50:485 mg/kg 27ZQAG -,314,72

ivn-rat LD50:47 mg/kg 27ZQAG -,314,72

orl-mus LD50:280 mg/kg 27ZQAG -,314,72

ivn-mus LD50:37 mg/kg 27ZQAG -,314,72

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

HDS210 CAS: 61337-67-5 HR: D
1,2,3,4,10,14B-HEXAHYDRO-2-METHYL-PYRAZINO(2,1-A)PYRIDO(2,3-C)(2)-BENZAZEPINE

mf: C₁₇H₁₉N₃ mw: 265.39

SYNS: MIRTAZAPINE □ PYRAZINO(2,1-A)PYRIDO(2,3-C)(2)BENZAZEPINE, 1,2,3,4,10,14B-HEXAHYDRO-2-METHYL-

TOXICITY DATA with REFERENCE:

orl-man TDLo:1071 µg/kg/LBAH JCLPDE 59,233,1998

SAFETY PROFILE: Human systemic effects. When heated to decomposition it emits toxic vapors of NO_x.

HDS225 CAS: 16154-78-2 HR: 3
2,3,3A,4,5,6-HEXAHYDRO-8-METHYL-1H-PYRAZINO(3,2,1-J,K)CARBAZOLE HYDROCHLORIDE

mf: C₁₅H₁₈N₂•ClH mw: 262.81

SYNS: PIRLINDON □ PIRLINDOLE □ PIRLINDOLE

HYDROCHLORIDE □ PYRAZIDOL □ PYRAZIDOLE □ 1H-PYRAZINO(3,2,1-J,K)CARBAZOLE,2,3,3A,4,5,6-HEXAHYDRO-8-METHYL-, MONOHYDROCHLORIDE □ 1,10-TRIMETHYLENE-8-METHYLTETRAHYDROPYRAZINO(1,2-A)INDOLE

HYDROCHLORIDE □ 1,10-TRIMETHYLENE-8-METHYL-1,2,3,4-TETRAHYDROPYRAZINO(1,2-A)INDOLE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2060 mg/kg TOVEFN (3),17,1993

ipr-rat LD50:185 mg/kg TOVEFN (3),17,1993

orl-mus LD50:450 mg/kg PCJOAU 18,94,1984

ipr-mus LD50:112 mg/kg FATOAO 38,5,1975

scu-mus LD50:175 mg/kg RPTOAN 37,192,1974

ivn-mus LD50:67 mg/kg FATOAO 38,5,1975

SAFETY PROFILE: A poison by intraperitoneal, intravenous, and subcutaneous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and HCl.

HDS250 CAS: 10138-59-7 HR: 3
HEXAHYDROPHthalic ACID DIETHYL ESTER
 mf: C₁₂H₂₀O₄ mw: 228.32
SYNS: 1,2-CYCLOHEXANEDICARBOXYLIC ACID, DIETHYL ESTER (9CI) □ CYCLOHEXANE-1,2-DICARBOXYLIC ACID, DIETHYL ESTER □ DIETHYLESTER KYSELINY HEXAHYDRF-TALOVE □ DIETHYL HEXAHYDROPHthalate

TOXICITY DATA with REFERENCE:

orl-rat LD50:3900 µL/kg JPETAB 93,26,48

skn-rat LD50:>10 mL/kg JPETAB 93,26,48

orl-mus LD50:2400 µL/kg JPETAB 93,26,48

SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HDS300 CAS: 535-75-1 HR: 2
HEXAHYDROPICOLINIC ACID

mf: C₆H₁₁NO₂ mw: 129.18

PROP: Mp: 281.

SYNS: ACIDE PIPECOLIQUE □ ACIDE PIPERIDINE-CARBOXYLIQUE-2 □ DIHYDROBAIKIANE □ HOMOPROLINE □ PIPECOLATE □ PIPECOLIC ACID □ PIPECOLINIC ACID □ α-PIPECOLINIC ACID □ 2-PIPERIDINECARBOXYLIC ACID (9CI) □ PIPEROLINIC ACID

TOXICITY DATA with REFERENCE:

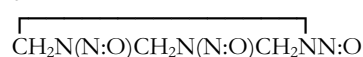
ivn-mus LD50:2200 mg/kg THERAP 23,1343,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

HDV500 CAS: 13980-04-6 HR: 3
HEXAHYDRO-1,3,5-s-TRIAZINE

mf: C₃H₆N₆O₃ mw: 174.15



PROP: Crystals. Mp: 105°.

SYNS: HEXAHYDRO-1,3,5-TRINITROSO-s-TRIAZINE □ HEXAHYDRO-1,3,5-TRINITROSO-1,3,5-TRIAZINE □ 1,3,5-TRINITROSO-1,3,5-TRIAZACYCLOHEXANE □ TRINITROSOTRIMETHYLENTRIAMIN (GERMAN) □ TRINITROSOTRIMETHYLENETRIAMINE □ TTT

TOXICITY DATA with REFERENCE:

orl-rat LD50:160 mg/kg ZEKBAI 69,103,67

SAFETY PROFILE: A poison by ingestion.

Questionable carcinogen with experimental tumorigenic data. Explodes on contact with sulfuric acid. When heated to decomposition it emits toxic fumes of NO_x.

HDW000 CAS: 7779-27-3 HR: 3
HEXAHYDRO-1,3,5-TRIETHYL-s-TRIAZINE

mf: C₉H₂₁N₃ mw: 171.33

PROP: A light yellow liquid. D: 0.89 @ 25°, bp: 190–196°. Sol in water.

SYN: VANCIDE TH

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg SEV DCTODJ 1(1),1,78

eye-rbt 100 mg/2S rns SEV DCTODJ 1(1),1,78

orl-rat LD50:316 mg/kg IMSUAI 39,56,70

orl-mus LD50:370 mg/kg TXAPA9 10,404,67

skn-rbt LDLo:2000 mg/kg TXAPA9 10,404,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. A severe eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

**HDW100 CAS: 108-74-7 HR: 3
HEXAHYDRO-1,3,5-TRIMETHYL-s-TRIAZINE**mf: C₆H₁₅N₃ mw: 129.24**SYNS:**

□ F 7771 □ s-TRIAZINE, HEXAHYDRO-1,3,5-TRIMETHYL- □
1,3,5-TRIAZINE, HEXAHYDRO-1,3,5-TRIMETHYL- □ 1,3,5-
TRIMETHYLHEXAHYDRO-sym-TRIAZINE □ 1,3,5-TRIMETHYL-
HEXAHYDRO-1,3,5-TRIAZINE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#03990

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.**HDW125 CAS: 27200-12-0 HR: 2
3,3',4',5,5',7-HEXAHYDROXY-2,3-DIHYDRO-
FLAVANONOL**mf: C₁₅H₁₂O₈ mw: 320.27

SYNS: AMPELOPSIN (FLAVANOL) □ AMPELOPTIN □ 4H-1-
BENZOPYRAN-4-ONE, 2,3-DIHYDRO-3,5,7-TRIHYDROXY-2-
(3,4,5-TRIHYDROXYPHENYL)-, (2R-trans)- □ DIHYDRO-
MYRICETIN □ (+)-DIHYDROMYRICETIN □ (2R-trans)-2,3-
DIHYDRO-3,5,7-TRIHYDROXY-2-(3,4,5-TRIHYDROXYPHENYL)-
4H-1-BENZOPYRAN-4-ONE □ FLAVANONE, 3,3',4',5,5',7-
HEXAHYDROXY-

TOXICITY DATA with REFERENCE:

orl-mus LD :>5 g/kg ZYZAEU 31,458,1996

ipr-mus LD50:1410 mg/kg ZYZAEU 31,458,1996

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**HDW150 CAS: 529-44-2 HR: D
3,3',4',5,5',7-HEXAHYDROXYFLAVONE**mf: C₁₅H₁₀O₈ mw: 318.25

SYNS: 4H-1-BENZOPYRAN-4-ONE, 3,5,7-TRIHYDROXY-2-(3,4,5-
TRIHYDROXYPHENYL)- □ CANNABISCETIN □ FLAVONE,
3,3',4',5,5',7-HEXAHYDROXY- □ 3,5,7,3',4',5'-HEXAHYDROXY-
FLAVONE □ MYRICETIN □ MYRICETOL □ MYRICITIN

TOXICITY DATA with REFERENCE: PYTCAS 26,2231,1987

dnd-hmn-hla 400 μmol/L MUREAV 390,141,1997

dni-hmn-hla 12500 μg/L PYTCAS 27,1017,1988

EXPEAM 44,882,1988

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HDW200 CAS: 13270-61-6 HR: D
3,3',4',5,5',7-HEXAHYDROXYFLAVYLUM**mf: C₁₅H₁₁O₇ mw: 303.26

SYNS: 1-BENZOPYRYLIUM, 3,5,7-TRIHYDROXY-2-(3,4,5-
TRIHYDROXYPHENYL)- □ FLAVYLUM, 3,3',4',5,5',7-
HEXAHYDROXY-

TOXICITY DATA with REFERENCE:

dnr-esc 2 g/L MUREAV 158,89,85

mnt-ham-lng 160 mg/L MUREAV 158,89,85

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HDX500 CAS: 18501-44-5 HR: 3
HEXAHYDROXYLAMINECOBALT(III) NITRATE**mf: CoH₁₈N₉O₁₅ mw: 443.14[(HONH₂)₆Co][NO₃]₃**CONSENSUS REPORTS:** Cobalt and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Explodes during preparation or handling. When heated to decomposition it emits toxic fumes of NO_x. See also COBALT COMPOUNDS and NITRATES.**HDY000 CAS: 531-18-0 HR: 3
HEXA(HYDROXYMETHYL)MELAMINE**mf: C₉H₁₈N₆O₆ mw: 306.33

SYNS: CILAG 61 □ HEXAKIS(HYDROXYMETHYL)MELAMINE
□ HEXAKIS(HYDROXYMETHYL)-1,3,5-TRIAZINE-2,4,6-
TRIAMINE □ HEXAMETHYLOLMELAMIN (CZECH) □
HEXAMETHYLOLMELAMINE □ RESLOOM M 75 □ (1,3,5-
TRIAZINE-2,4,6-TRIYLTRINITRILO)HEXAKIS METHANOL □ (s-
TRIAZINE-2,4,6-TRIYLTRINITRILO)HEXAMETHANOL □ 2,4,6-
TRIS(BIS(HYDROXYMETHYL)AMINO)-s-TRIAZINE □ 2,4,6-
TRIS(DI(HYDROXYMETHYL)AMINO)-1,3,5-TRIAZINE

TOXICITY DATA with REFERENCE:

skn-rbt 20 mg/24H MOD 85JCAE -,876,86

eye-rbt 100 mg/24H MOD 28ZPAK -,154,72

ivn-mus LD50:180 mg/kg CSLNX* NX#04006

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by intravenous route. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x.**HDY100 CAS: 3750-18-3 HR: 3
HEXAISOBUTYLDITIN**mf: C₂₄H₅₄Sn₂ mw: 580.16**SYNS:** BIS(TRIISOBUTYLSTANNANE) □ DISTANNANE, HEXAISOPROPYL-**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:10 mg/kg CSLNX* NX#05529

OSHA PEL: TWA 0.1 mg(Sn)/m³**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)**NIOSH REL:** (Organotin Compounds): 10H TWA 0.1 mg(Sn)/m³**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits toxic fumes of Sn. **ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**HDY500 CAS: 3089-11-0 HR: 2
N,N,N',N',N'',N''-HEXAKIS(METHOXYMETHYL)-
1,3,5-TRIAZINE-2,4,6-TRIAMINE**mf: C₁₅H₃₀N₆O₆ mw: 390.51

SYNS: CYMEL 303 □ CYREZ 963 RESIN □ HEXAKIS-
METHOXYMETHYLMELAMIN (CZECH) □ HEXAKIS-
(METHOXYMETHYL)MELAMINE □ HEXAKIS(METHOXY-
METHYL)-s-TRIAZINE-2,4,6-TRIAMINE □ HEXA(METHOXY-
METHYL)MELAMINE □ HEXAMETHYL METHYLOLMEL-
AMINE □ HEXAMETHYLOL-MELAMINHEXA-METHYLA-
ETHER □ LK 36 □ MALAMINE, HEXAKIS(METHOXYMETHYL)
□ METAZIN □ METAZINE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,156,72

eye-rbt 100 mg/24H SEV 28ZPAK -,156,72

ipr-rat LD50:560 mg/kg ARZNAD 6,734,66

ipr-mus LD50:1050 mg/kg ARZNAD 6,119,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and intraperitoneal routes. A skin and severe eye irritant. When heated to decomposition it emits toxic fumes of NO_x . See also AMINES.**HDY600 CAS: 695-06-7 HR: 1
 γ -HEXALACTONE**mf: $\text{C}_6\text{H}_{10}\text{O}_2$ mw: 114.16**SYNS:** γ -CAPROLACTONE \square 6-CAPROLACTONE \square γ -ETHYLBUTYROLACTONE \square γ -ETHYL-n-BUTYROLACTONE \square 2(3H)-FURANONE, 5-ETHYLDIHYDRO- \square γ -HEXANOLACTONE \square HEXANOLIDE-1,4 \square 4-HYDROXYHEXANOIC ACID LACTONE \square TONKALIDE \square TOUKALIDE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTXAV 17,791,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**HDZ000 HR: 3
HEXALITHIUM DISILICIDE**mf: Li_6Si_2 mw: 97.81**SAFETY PROFILE:** Explodes on contact with nitric acid. Violent reaction with water evolves silanes that ignite. Similar reaction with dilute acids. Ignites on contact with fluorine or when heated with chlorine, bromine, and iodine. Vigorous reaction with sulfur. Incandescent reaction with nonmetals (e.g., phosphorus; selenium; or tellurium); concentrated hydrochloric acid; sulfuric acid. See also LITHIUM COMPOUNDS.**HEA000 CAS: 55-97-0 HR: 3
HEXAMETHONIUM BROMIDE**mf: $\text{C}_{12}\text{H}_{30}\text{N}_2 \cdot 2\text{Br}$ mw: 362.26**PROP:** Crystals. Mp: 274–276°. Sol in water, alc, acid to litmus. Aq solns are stable.**SYNS:** α,ω -BIS(TRIMETHYL AMMONIUM)HEXANE DIBROMIDE \square C 6 \square ESAMETINA \square GANGLIOSTAT \square HB \square HEXAMETHONIUM BROMIDE \square HEXAMETHONIUM DIBROMIDE \square HEXAMETHYLENEBIS(TRIMETHYLAMMONIUM) BROMIDE \square N,N,N,N',N',N'-HEXAMETHYL-1,6-HEXANEDIAMINIUM DIBROMIDE \square HEXAMETON \square HEXONIUM DIBROMIDE \square SIMPATOBLOCK \square VEGOLYSEN \square VEGOLYSIN**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2891 mg/kg SKNEA7 10,15,60

ivn-rat LD50:64,130 $\mu\text{g}/\text{kg}$ SKNEA7 10,15,60

orl-mus LD50:838 mg/kg NIIRDN 6,356,82

ipr-mus LD50:70 mg/kg YKKZAJ 91,1307,71

scu-mus LD50:78 mg/kg YKKZAJ 91,1307,71

ivn-mus LD50:26,300 $\mu\text{g}/\text{kg}$ CPBTAL 23,1639,75ivn-rbt LD50:50,300 $\mu\text{g}/\text{kg}$ SKNEA7 10,15,60**SAFETY PROFILE:** A poison by intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion. Human reproductive and teratogenic effects by subcutaneous route: abnormal neonatal measurements and developmental abnormalities of the gastrointestinal system. Used to treat hypertension. When heated to decomposition it emits very toxic NH_3 , NO_x , and Br^- . See also BROMIDES.**HEA500 CAS: 60-25-3 HR: 3
HEXAMETHONIUM DICHLORIDE**mf: $\text{C}_{12}\text{H}_{30}\text{N}_2 \cdot 2\text{Cl}$ mw: 273.34**PROP:** Hygroscopic crystals. Decomp @ 289–292°. Very sol in water; insol in chloroform, ether.**SYNS:** α,ω -BIS(TRIMETHYLAMMONIUM)HEXANE DICHLORIDE \square BISTRIUM CHLORIDE \square CHLOOR-HEXAVIET \square DEPRESSIN \square ESOMID CHLORIDE \square HESTRIUM CHLORIDE \square HEXAMETHIONIUM CHLORIDE \square HEXAMETHONIUM CHLORIDE \square HEXAMETHYLENE-(BISTRIMETHYLAMMONIUM)CHLORIDE \square HEXAMETON CHLORIDE \square N,N,N,N',N',N'-HEXAMETHYL-1,6-HEXANEDIAMINIUM DICHLORIDE \square HEXON CHLORIDE \square HEXONE CHLORIDE \square HIOHEX CHLORIDE \square METHIUM CHLORIDE \square METON**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:100 mg/kg JAPMA8 46,346,57

ipr-mus LD50:62 mg/kg AIPTAK 155,69,65

ivn-mus LD50:26,700 $\mu\text{g}/\text{kg}$ AIPTAK 127,1,60

ivn-dog LD50:35 mg/kg JAPMA8 46,346,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NH_3 , NO_x , and Cl^- . See also CHLORIDES.**HEB000 CAS: 870-62-2 HR: 3
HEXAMETHONIUM DIODIDE**mf: $\text{C}_{12}\text{H}_{30}\text{N}_2 \cdot 2\text{I}$ mw: 456.24**SYNS:** ESAMETONIO IODURO (ITALIAN) \square HEXAMETHONIUM IODIDE \square HEXAMETHYLENEBIS(TRIMETHYLAMMONIUM IODIDE) \square N,N,N,N',N',N'-HEXAMETHYL-1,6-HEXANEDIAMINIUM DIODIDE \square HEXATHIDE \square HEXONIUM DIODIDE**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:20 mg/kg JPETAB 115,172,55

orl-mus LD50:850 mg/kg FRPSAX 20,482,65

scu-mus LD50:210 mg/kg FRPSAX 20,482,65

ivn-mus LD50:47 mg/kg FATOAO 25,428,62

SAFETY PROFILE: A poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x , NH_3 , and I^- . See also IODIDES.**HEC000 CAS: 87-85-4 HR: 2
HEXAMETHYLBENZENE**mf: $\text{C}_{12}\text{H}_{18}$ mw: 162.30**PROP:** Plates from ethanol. Mp: 165.5°, bp: 265°. Insol in water; very sol in ether.**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Questionable carcinogen with experimental neoplastigenic data. Potentially explosive

reaction with nitromethane. When heated to decomposition it emits acrid smoke and fumes.

HEC500 CAS: 7641-77-2 HR: 2
HEXAMETHYLBICYCLO(2.2.0)HEXA-2,5-DIENE

mf: $C_{12}H_{18}$ mw: 162.30

PROP: A liquid. Mp: 7°, bp: 43–45°.

SYNS: 2-BUTIN HEXAMETHYL-DEWAR-BENZOL (GERMAN)

□ HEXAMETHYL-BICYCLO(2.2.0)HEXA-2,5-DIEN (GERMAN)

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.

HEC600 CAS: 1009-93-4 HR: 2
HEXAMETHYLCYCLOTRISILAZANE

mf: $C_6H_{21}N_3Si_3$ mw: 219.57

SYNS: CYCLOTRISILAZANE, 2,2,4,4,6,6-HEXAMETHYL- □ DIMETHYLSILAZANE TRIMER □ 2,2,4,4,6,6-HEXAMETHYL-CYCLOTRISILAZANE □ NSC 139842

TOXICITY DATA with REFERENCE:

orl-rat LD50:500 mg/kg STGNBT-,217,1999

orl-unr LD50: 1330 mg/kg GTPZAB 27(11),50,1983

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x .

HED000 CAS: 4711-74-4 HR: 3
HEXAMETHYLDIPLATINUM

mf: $C_6H_{18}Pt_2$ mw: 480.37

$(CH_3)_3PtPt(CH_3)_3$

PROP: IDLH 4 mg/ m^3 (as Pt).

SAFETY PROFILE: Explodes when heated. Upon decomposition it emits acrid smoke and fumes. See also PLATINUM COMPOUNDS.

HED425 CAS: 1450-14-2 HR: 3
HEXAMETHYLDISILANE

mf: $C_6H_{18}Si_2$ mw: 146.38

$(CH_3)_3SiSi(CH_3)_3$

PROP: A liquid. D: 0.726 @ 20°/4°, mp: 13°, bp: 112–113°.

SAFETY PROFILE: Potentially explosive reaction with pyridine-N-oxide + tetrabutylammonium fluoride. When heated to decomposition it emits acrid smoke and fumes.

HED500 CAS: 999-97-3 HR: 3
HEXAMETHYLDISILAZANE

mf: $C_6H_{19}NSi_2$ mw: 161.44

PROP: A liquid. Flash p: 57.2°F, d: 0.76 @ 20°/4°, bp: 125°.

SYNS: BIS(TRIMETHYLSILYL)AMINE □ HEXAMETHYL-SILAZANE □ HMDS □ OAP □ 1,1,1-TRIMETHYL-N-(TRIMETHYLSILYL)SILANAMINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:850 mg/kg GTPZAB 30(5),52,86

ihl-rat LC50:8700 mg/ m^3 /4H GTPZAB 30(5),52,86

orl-mus LD50:850 mg/kg GTPZAB 30(5),52,86

ihl-mus LC50:12 g/ m^3 /2H GTPZAB 30(5),52,86

ipr-mus LDLo:650 mg/kg StoGD# 27May75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. A dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits toxic fumes of NO_x .

HEE000 CAS: 107-46-0 HR: 1
HEXAMETHYLDISILOXANE

mf: $C_6H_{18}OSi_2$ mw: 162.42

PROP: Viscous liquid. Vap d: 5.5, d: 0.76 @ 20°/4°, mp: –59°, bp: 101°.

SYNS: DOW CORNING 200 □ OXYBIS(TRIMETHYLSILANE)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,219,72

ipr-mus LD50:4500 mg/kg RCRVAB 38,975,69

orl-gpg LDLo:50 g/kg JIHTAB 30,332,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion and intraperitoneal routes. A skin irritant. When heated to decomposition it emits acrid smoke and fumes.

HEE500 CAS: 661-69-8 HR: 3
HEXAMETHYLDITIN

mf: $C_6H_{18}Sn_2$ mw: 327.62

PROP: Crystals from pet ether. Mp: 28°, bp: 182°.

SYNS: HEXAMETHYLDISTANNANE □ PENNSALT TD 5032 □ TD-5032

TOXICITY DATA with REFERENCE:

orl-rat LD50:25 mg/kg 28ZEAL 4,245,69

OSHA PEL: TWA 0.1 mg(Sn)/ m^3 (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/ m^3 ; STEL 0.2 mg(Sn)/ m^3 (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/ m^3

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits acrid smoke and fumes. See also TIN COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

HEE600 CAS: 37670-00-1 HR: 3
1,6-HEXAMETHYLEN-BIS(4-HYDROXYIMINO-FORMYLPYRIDINIUM)DIBROMIDE

mf: $C_{18}H_{24}N_4O_2 \cdot 2Br$ mw: 488.28

SYNS: N,N'-HEXAMETHYLENEBIS(4-HYDROXYIMINO-METHYLPYRIDINIUM BROMIDE) □ PRO 460 □ PYRIDINIUM, 1,1'-HEXAMETHYLENEBIS(4-FORMYL)-, DIBROMIDE, DIOXIME

TOXICITY DATA with REFERENCE:

ipr-mus LD50:23 mg/kg MEXPAG 4,313,61

scu-mus LD :>10 mg/kg BJPCAL 14,186,59

SAFETY PROFILE: A poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x and Br^- .

HEF200 CAS: 3818-69-7 HR: 3
HEXAMETHYLEN-1,6-(N-DIMETHYLCARBO-DESOXYMETHYL)AMMONIUM DICHLORIDE

mf: $C_{38}H_{78}N_2O_4 \cdot 2Cl$ mw: 698.08

SYNS: AMMONIUM, HEXAMETHYLENEBIS((CARBOXYMETHYL)DIMETHYL)-, DICHLORIDE, DIDODECYL ESTER □ DODECONIUM □ HEXAMETHYLENEBIS((CARBOXYMETHYL)DIMETHYLAMMONIUM), DICHLORIDE, DIDODECYL ESTER □ 1,6-HEXANEDIAMINE, N,N'-DICARBOXYMETHYL-N,N'-DIMETHYL-, DIMETHOCHLORIDE, DIDODECYL ESTER □ 1,6-HEXANEDIAMINIUM, N,N'-BIS(2-(DODECYLOXY)-2-OXOETHYL)-N,N,N',N'-TETRAMETHYL-, DICHLORIDE □ PREPARATION C (the Russian Drug) □ PREPARATION S

TOXICITY DATA with REFERENCE:

par-uns LD50:104 mg/kg RPTOAN 33,239,70

SAFETY PROFILE: Poison by parenteral route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and Cl⁻.

HEF300 CAS: 3613-89-6 HR: 2
N,N'-HEXAMETHYLENEBIS(2,2-DICHLORO-N-ETHYLACETAMIDE)

mf: C₁₄H₂₄Cl₄N₂O₂ mw: 394.20

SYNS: N,N'-BIS(DICHLOROACETYL)-N,N'-DIETHYL-1,6-HEXANEDIAMINE □ WIN 17,416

TOXICITY DATA with REFERENCE:

spm-hmn-orl 3650 mg/kg/28W TXAPA9 3,1,61

ipr-mus LD50:4400 mg/kg ANTCAO 11,245,61

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Human reproductive effects by ingestion: impaired spermatogenesis. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻ and NO_x.

HEF400 CAS: 871-67-0 HR: 3
HEXAMETHYLENEBIS(DITHIOCARBAMIC ACID) DISODIUM SALT

mf: C₈H₁₄N₂S₄•2Na mw: 312.46

SYN: CARBAMIC ACID, HEXAMETHYLENEBIS(DITHIO-, DISODIUM SALT

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:300 mg/kg ARZNAD 21,121,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

HEF500 CAS: 2271-93-4 HR: 3
1,6-HEXAMETHYLENEBIS(ETHYLENEUREA)

mf: C₁₂H₂₂N₄O₂ mw: 254.38

SYNS: AI3-50172 □ 1-AZIRIDINECARBOXAMIDE, N,N'-HEXAMETHYLENEBIS- □ 1-AZIRIDINECARBOXAMIDE, N,N'-1,6-HEXANEDIYLBIS-(9CI) □ ENT 50,172 □ HBC □ HDU □ N,N'-HEXAMETHYLENEBIS-1-AZIRIDINECARBOXAMIDE □ HEXAMETHYLENEBIS(ETHYLENEUREA) □ HEXAMETHYLENEDIETHYLENEUREA □ N,N'-1,6-HEXANEDIYLBIS-1-AZIRIDINECARBOXAMIDE □ OLIN 53139 □ OM 53139

TOXICITY DATA with REFERENCE:

orl-qal LD50:316 mg/kg JRPFA4 48,371,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HEG000 CAS: 317-52-2 HR: 3
HEXAMETHYLENE BIS(9-FLUORENYL DIMETHYLAMMONIUM)DIBROMIDE

mf: C₃₆H₄₂N₂•Br mw: 582.71

PROP: Crystals from propanol. Mp: 188–189°.

SYNS: 1,6-BIS(9-FLUORENYLDIMETHYLAMMONIUM)-HEXANE BROMIDE □ HEXAFLUORENIUM DIBROMIDE □ HEXAFLURONIUM BROMIDE □ HEXAMETHYLENEBIS-(DIMETHYL-9-FLUORENYLAMMONIUM BROMIDE) □ HEXAMETHYLENEBIS(FLUOREN-9-YLDIMETHYLAMMONIUM BROMIDE) □ IN-117 □ MILAXEN □ MYLAXEN □ NSC-19477

TOXICITY DATA with REFERENCE:

ivn-hmn TDLo:400 µg/kg;GIT,SYs 85IVAW 1,E1,82

ipr-rat LD50:20 mg/kg CLDND* 85,603,54

scu-mus LD50:240 mg/kg PSEBAA 85,603,54

ivn-mus LD50:1760 µg/kg BCPA6 2,233,59

ivn-rbt LD50:80 µg/kg PHTXA6 22,200,59

SAFETY PROFILE: A poison by intraperitoneal, subcutaneous, and intravenous routes. Human systemic effects by intravenous route: nausea or vomiting, cholinesterase changes. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and Br⁻. See also BROMIDES.

HEG010 CAS: 78232-23-2 HR: 3
1,1'-HEXAMETHYLENEBIS(2-FORMYLPYRIDINIUM BROMIDE OXIME)

mf: C₁₈H₂₄N₄O₂•2Br mw: 488.28

SYNS: N,N'-HEXAMETHYLENEBIS(2-HYDROXYIMINO-METHYLPYRIDINIUM BROMIDE) □ PYRIDINIUM, 1,1'-HEXAMETHYLENEBIS(2-FORMYL)-, DIBROMIDE, DIOXIME

TOXICITY DATA with REFERENCE:

scu-mus LD :>5 mg/kg BJPCAL 14,186,59

SAFETY PROFILE: A poison by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.

HEG020 CAS: 78232-24-3 HR: 3
N,N'-HEXAMETHYLENEBIS(3-HYDROXYIMINO-METHYLPYRIDINIUM BROMIDE)

mf: C₁₈H₂₄N₄O₂•2Br mw: 488.28

SYN: PYRIDINIUM, 1,1'-HEXAMETHYLENEBIS(3-FORMYL)-, DIBROMIDE, DIOXIME

TOXICITY DATA with REFERENCE:

scu-mus LD :>10 mg/kg BJPCAL 14,186,59

SAFETY PROFILE: A poison by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.

HEG050 CAS: 4856-87-5 HR: 3
N,N'-HEXAMETHYLENEBIS(MALEIMIDE)

mf: C₁₄H₁₆N₂O₄ mw: 276.32

SYNS: 1,6-DIMALEIMIDOHEXANE □ N,N'-HEXAMETHYLENEDIMALEIMIDE □ 1,1'-(1,6-HEXANEDIYL)BIS-1H-PYRROLE-2,5-DIONE (9CI) □ HMDM □ MALEIMIDE, N,N'-HEXAMETHYLENEDI-

TOXICITY DATA with REFERENCE:

orl-rat LD50:550 mg/kg GISAAA 40(11),109,75

ihl-rat LC50:900 mg/m³/4H EPASR* 8EHQ-0790-1023S

orl-mus LD50:215 mg/kg GISAAA 40(11),109,75

SAFETY PROFILE: A poison by ingestion. Moderately toxic by inhalation route. When heated to decomposition it emits toxic vapors of NO_x.

HEG100 CAS: 971-60-8 HR: 3
HEXAMETHYLENEBIS(TRIMETHYLAMMONIUM)
DIBENZENESULFONATE

mf: C₁₂H₃₀N₂•C₁₂H₁₀O₃S mw: 436.72

SYNS: AMMONIUM, HEXAMETHYLENEBIS(TRIMETHYL-, DIBENZENESULFONATE □ BENZOHEXONIUM □ 1,6-HEXANEDIAMINIUM, N,N,N,N',N',N'-HEXAMETHYL-, DIBENZENESULFONATE (9CI)

TOXICITY DATA with REFERENCE:

scu-mus LD50:166 mg/kg RPTOAN 31,53,68

SAFETY PROFILE: Poison by subcutaneous route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

HEG120 CAS: 3323-53-3 HR: 2
HEXAMETHYLENEDIAMINE ADIPATE (1:1)

mf: C₆H₁₆N₂•C₆H₁₀O₄ mw: 262.40

SYNS: ADIPAN HEXAMETHYLENEDIAMINU □ ADIPIC ACID, compd. with 1,6-HEXANEDIAMINE (1:1) □ HEXAMETHYLENEDIAMINE MONOADIPATE □ HEXAMETHYLENEDIAMMONIUM ADIPATE □ HEXANEDIOIC ACID, compd. with 1,6-HEXANEDIAMINE (1:1) (9CI) □ NYLON 66 SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:5900 mg/kg 85JCAE -,444,86

orl-mus LD50:1610 mg/kg 85JCAE -,444,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HEG130 CAS: 6422-99-7 HR: 2
HEXAMETHYLENEDIAMINE SEBACATE

mf: C₁₀H₁₈O₄•C₆H₁₆N₂ mw: 318.52

SYNS: DECANEDIOIC ACID, compd. with 1,6-HEXANEDIAMINE (1:1) (9CI) □ HEXAMETHYLENEDIAMMONIUM SEBACATE □ NYLON 610 SALT □ SEBACIC ACID, compd. with 1,6-HEXANEDIAMINE (1:1) □ SEBAKAN HEXAMETHYLENEDIAMINU

TOXICITY DATA with REFERENCE:

orl-rat LD50:10 g/kg 85JCAE -,444,86

orl-mus LD50:1850 mg/kg 85JCAE -,444,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HEG200 CAS: 629-09-4 HR: D
HEXAMETHYLENE DIIODIDE

mf: C₆H₁₂I₂ mw: 337.98

SYNS: 1,6-DIODOHEXANE □ HEXANE, 1,6-DIODO-

TOXICITY DATA with REFERENCE:

mno-sat 10 μmol/plate MUREAV 141,11,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of I⁻.

HEG300 CAS: 28182-81-2 HR: 1
HEXAMETHYLENE DIISOCYANATE POLYMER

mf: (C₆H₁₂N₂O₂)_x

PROP: Clear pale yellow liquid with negligible odor. Bp: 382° F, d: 1.14 @ 77° F. Insol in water.

SYNS: CORONATE EH □ 1,6-DIISOCYANATOHEXANE HOMOPOLYMER □ HEXAMETHYLENE DIISOCYANATE TRIMER □ HEXAMETHYLENE ISOCYANATE POLYMER □ HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER (9CI) □ ISOCYANIC ACID, HEXAMETHYLENE ESTER, POLYMERS □ POLY(HEXAMETHYLENE DIISOCYANATE)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD EPASR* 8EHQ-1086-0638

eye-rbt 100 mg MOD EPASR* 8EHQ-1086-0638

ihl-rat LC50:18,500 mg/m³/1H EPASR* 8EHQ-1086-0638

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by inhalation. A skin and eye irritant. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

HEG400 CAS: 5906-35-4 HR: 3
1,1-HEXAMETHYLENEHYDRAZINE

mf: C₆H₁₄N₂ mw: 114.22

SYNS: 1-AMINOHEXAHYDROAZEPINE □ N-AMINOHEXAMETHYLENEIMINE □ N-AMINOHOMOPIPERIDINE □ 1-AMINOHOMOPIPERIDINE □ 1-AMINOPERHYDROAZEPINE □ 1H-AZEPIN-1-AMINE, HEXAHYDRO-(9CI) □ 1H-AZEPINE, HEXAHYDRO-1-AMINO- □ HEXAHYDRO-1H-AZEPIN-1-AMINE

TOXICITY DATA with REFERENCE:

mno-sat 1 μmol/plate MUREAV 91,199,81

orl-rat LDLo:300 mg/kg JACTDZ 1,93,90

SAFETY PROFILE: A poison by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HEI000 CAS: 1169-26-2 HR: 3
1-(2-HEXAMETHYLENEIMINOETHYL)-2-
OXOCYCLOHEXANECARBOXYLIC ACID
BENZYL ESTER HYDROCHLORIDE

mf: C₂₂H₃₁NO₃•ClH mw: 394.00

SYN: 2-(β-HEXAMETHYLENIMINOETHYL)CYCLOHEXANON-2-CARBONSAUREBENZYLESTER-HYDROCHLORIDE (GERMAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:450 mg/kg ARZNAD 14,986,64

ipr-rat LD50:56 mg/kg ARZNAD 14,986,64

scu-rat LD50:72 mg/kg ARZNAD 14,986,64

orl-mus LD50:110 mg/kg ARZNAD 14,986,64

ipr-mus LD50:75 mg/kg ARZNAD 14,986,64

scu-mus LD50:10 g/kg ZGEMAZ 113,536,44

ivn-mus LD50:12 mg/kg ARZNAD 14,986,64

SAFETY PROFILE: A poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also ESTERS.

HEI500 CAS: 100-97-0 HR: 3

HEXAMETHYLENETETRAMINE**DOT:** UN 1328mf: $C_6H_{12}N_4$ mw: 140.22**PROP:** Odorless, volatile, rhombic crystals from alc. Mp: 280° (sublimes), flash p: 482°F, d: 1.33 @ -5°. Sol in water; very sltly sol in hot ether or hot water.**SYNS:** ACETO HMT □ AMINOFORM □ AMMOFORM □ AMMONIOFORMALDEHYDE □ CYSTAMIN □ CYSTOGEN □ ESAMETILENTETRAMINA (ITALIAN) □ FORMAMINE □ FORMIN □ HEXAFORM □ HEXAMETHYLENAMINE □ HEXAMETHYLENEAMINE □ HEXAMETHYLENETETRAMINE □ HEXAMETHYLENETETRAMIN (GERMAN) □ HEXAMINE (DOT) □ HEXILMETHYLENAMINE □ HMT □ METHAMIN □ METHENAMINE □ PREPARATION AF □ RESOTROPIN □ 1,3,5,7-TETRAAZAADAMANTANE □ URITONE □ UROTROPIN □ UROTROPINE**TOXICITY DATA with REFERENCE:**

dnr-bcs 1 mg/disc SAIGBL 26,147,84

cyt-hmn:hla 1 mmol/L HUMAA7 4,112,67

otr-ham:kdy 10 mg/L CRNGDP 4,457,83

scu-rat LDLo:200 mg/kg HBTXAC 1,84,56

ivn-rat LD50:9200 mg/kg AEPPAE 221,166,54

orl-mus LDLo:512 mg/kg NTIS** AD-A066-307

ipr-mus LDLo:512 mg/kg CBCCT* 3,126,51

scu-mus LD50:215 mg/kg AEPPAE 225,428,55

scu-cat LDLo:200 mg/kg HBTXAC 1,84,55

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 4.1; Label: Flammable Solid**SAFETY PROFILE:** A poison by subcutaneous route. Moderately toxic by ingestion and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. An irritant to skin, eyes, and mucous membranes. Some persons suffer a skin rash if they come in contact with this material or the fumes evolved when it is heated. Human mutation data reported. Pure hexamethylenetetramine may be taken internally in small amounts and has been used in medicine as a urinary antiseptic. Its major industrial use is in the manufacture of phenolic resins.

Combustible when exposed to heat or flame.

Can react with oxidizing materials. Explosive reaction with acetic acid + acetic anhydride + ammonium nitrate + nitric acid, 1-bromopenta borane(9) (above 90°C), iodoform (at 178°C), iodine (at 138°C). Reaction with nitric acid + acetic anhydride forms the military explosives RDX and HMX. Reacts violently with N_2O_2 . When heated to decomposition it emits toxic fumes of formaldehyde and NO_x . See also AMINES.**HEI650 CAS: 12001-65-9 HR: 3
HEXAMETHYLENE TETRAMINE TETRAIODIDE**mf: $C_6H_{12}I_4N_4$ mw: 647.81**SAFETY PROFILE:** The complex ignites or explodes weakly at 138°C. Upon decomposition it emits toxic fumes of I^- and NO_x . See also IODIDES and AMINES.**HEJ000 HR: 3
HEXAMETHYLENETETRAMMONIUM
TETRAPEROXOCHROMATE(V)**mf: $C_{18}H_{48}Cr_4N_{12}O_{32}$ mw: 1152.65**CONSENSUS REPORTS:** Chromium and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: May explode spontaneously. When heated to decomposition it emits toxic fumes of NH_3 and NO_x . See also CHROMIUM COMPOUNDS and PEROXIDES.**HEJ350 CAS: 66862-11-1 HR: 3
HEXAMETHYLERBIUM-HEXAMETHYLETHYLENEDIAMINE LITHIUM COMPLEX**mf: $C_6H_{18}Er \cdot 3C_2H_{16}N_2Li$ mw: 482.78 $Li_3[[(CH_3)_2NC_2H_4N(CH_3)_2]_3Er(CH_3)_6]$ **PROP:** Very air and moisture sensitive pink crystals from Et_2O . Mp: 138–139° (decomp). Sltly sol in Et_2O .**SAFETY PROFILE:** Ignites spontaneously in air. Upon decomposition it emits toxic fumes of NO_x . See also LITHIUM COMPOUNDS, ERBIUM, and AMINES.**HEJ375 CAS: 10369-17-2 HR: 3
2,4,6,8,9,10-HEXAMETHYLHEXA-AZA-1,3,5,7-TETRA-PHOSPHAADAMANTANE**mf: $C_6H_{18}N_6P_4$ mw: 258.14**PROP:** A solid. Mp: 122–123°, bp: 303–304° @ 737 mm.**SAFETY PROFILE:** Ignites on contact with strong oxidants. When heated to decomposition it emits toxic fumes of PO_x and NO_x .**HEJ400 CAS: 64058-43-1 HR: 3
1,1,2,3,3,6-HEXAMETHYLINDAN-5-YL METHYL KETONE**mf: $C_{17}H_{24}O$ mw: 244.41**SYN:** 5-ACETYL-1,1,2,3,3,6-HEXAMETHYLINDAN**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1700 mg/kg FCTXAV 13,693,75

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by ingestion. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**HEJ500 CAS: 645-05-6 HR: 3
HEXAMETHYLMELAMINE**mf: $C_9H_{18}N_6$ mw: 210.33**PROP:** Needles from alc. Mp: 172–174°. Insol in water; sol in acetone.**SYNS:** ALTRETAMINE □ ENT 50,852 □ HEMEL □ N,N,N',N',N',N'-HEXAMETHYL-1,3,5-TRIAZINE-2,4,6-TRIAMINE □ HEXASTAT □ HMM □ NCI-C50259 □ NSC-13875 □ 2,4,6-TRIS(DIMETHYLAMINO)-s-TRIAZINE □ 2,4,6-TRIS(DIMETHYLAMINO)-1,3,5-TRIAZINE**TOXICITY DATA with REFERENCE:**

mma-sat 200 µg/plate MUREAV 142,121,85

cyt-hmn:leu 250 µmol/L CHROAU 24,314,68

orl-hmn TDLo:8 mg/kg:GIT,BLD CCROBU 56,505,72

orl-rat LD50:350 mg/kg 85DZAJ -,315,68

ipr-rat LD50:265 mg/kg JPETAB 100,398,50

orl-mus LD50:437 mg/kg AIPTAK 160,83,66

ipr-mus LD10:200 mg/kg CNREA8 40,2762,80

ivn-mus LD50:171 mg/kg NTIS** PB293-046

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: A poison by ingestion, intraperitoneal, and intravenous routes. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental neoplastic data. Human mutation data reported. Human systemic effects by ingestion: nausea or vomiting and leukopenia (reduced white blood cell count). When heated to decomposition it emits toxic fumes of NO_x . See also AMINES.

HEK000 CAS: 680-31-9 HR: 3

HEXAMETHYLPHOSPHORAMIDE

mf: $\text{C}_6\text{H}_{18}\text{N}_3\text{OP}$ mw: 179.24

PROP: Clear, colorless, mobile liquid; spicy odor. Mp: 7° , bp: 233° , d: 1.024 @ $25^\circ/25^\circ$, vap d: 6.18. Misc in water.

SYNS: EASTMAN INHIBITOR HPT \square ENT 50,882 \square HEMPA \square HEXAMETAPOL \square HEXAMETHYLPHOSPHORIC ACID TRIAMIDE (MAK) \square HEXAMETHYLPHOSPHORIC TRIAMIDE \square N,N,N,N,N-HEXAMETHYLPHOSPHORIC TRIAMIDE \square HEXAMETHYLPHOSPHOTRIAMIDE \square HEXAMETHYLPHOSPHOTRIAMIDE \square HEXAMETHYLPHOSPHORAMIDE \square HMPA \square HMPT \square HPT \square MEMPA \square PHOSPHORIC TRIS(DIMETHYLAMIDE) \square PHOSPHORYL HEXAMETHYLTRIAMIDE \square TRI(DIMETHYLAMINO)PHOSPHINE OXIDE \square TRIS(DIMETHYLAMINO)PHOSPHINE OXIDE \square TRIS(DIMETHYLAMINO)PHOSPHORUS OXIDE

TOXICITY DATA with REFERENCE:

dns-hmn:hla 125 mg/L PMRSDJ 5,375,85
 cyt-hmn:lym 500 mg/L MUREAV 156,19,85
 sce-rat:lvf 2 g/L PMRSDJ 5,287,85
 ihl-rat TCLO:50 ppb/52W-C:CAR APAA4 106,8,82
 orl-rat LD50:2650 mg/kg NATUAS 211,146,66
 skn-rat LDLo:3500 mg/kg NATUAS 211,146,66
 orl-mus LD50:2400 mg/kg NYKZAU 70,114P,74
 ipr-mus LD50:1600 mg/kg PMRSDJ 1,682,81
 ivn-mus LD50:800 mg/kg CHINAG (36),1529,66
 orl-rbt LDLo:1500 mg/kg JEENAI 48,139,55
 skn-rbt LD50:2600 mg/kg TXAPA9 18,499,71
 orl-gpg LD50:1600 mg/kg 85DZAJ -,315,68
 skn-gpg LD50:1175 mg/kg 85DZAJ -,315,68

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 15,211,77. Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

ACGIH TLV: Animal Carcinogen, Suspected Human Carcinogen

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Moderately toxic by ingestion, skin contact, intraperitoneal, and intravenous routes. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of phosphine, PO_x , and NO_x .

HEK050 CAS: 3732-82-9 HR: D
HEXAMETHYLPHOSPHOROTHIOIC TRIAMIDE

mf: $\text{C}_6\text{H}_{18}\text{N}_3\text{PS}$ mw: 195.30

SYNS: ENT 50918 \square PHOSPHOROTHIOIC TRIAMIDE, HEXAMETHYL- \square HEXAMETHYLTHIOPHOSPHORAMIDE \square

HEXAMETHYLTHIOPHOSPHORIC TRIAMIDE \square HMPTS \square THIO-HMPA \square THIOPOL

TOXICITY DATA with REFERENCE:

mor-ham-kdy 2500 $\mu\text{g}/\text{L}$ BJCAAI 38,418,1978

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x , SO_x , and PO_x .

HEK100 CAS: 1608-26-0 HR: D
HEXAMETHYLPHOSPHORUS TRIAMIDE

mf: $\text{C}_6\text{H}_{18}\text{N}_3\text{P}$ mw: 163.24

PROP: Colorless liquid.

SYN: PHOSPHORUS TRIAMIDE, HEXAMETHYL-

TOXICITY DATA with REFERENCE:

sln-oin-dmg-trl 1 mmol/L MUREAV 212,193,89
 sln-oin-dmg-par 3 mmol/L MUREAV 212,193,89
 otr-ham:kdy 2500 $\mu\text{g}/\text{L}$ BJCAAI 38,418,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and PO_x .

HEK550 CAS: 56090-02-9 HR: 3
HEXAMETHYLRENIUM

mf: $\text{C}_6\text{H}_{18}\text{Re}$ mw: 276.42

PROP: Air sensitive green crystals from hexane or pet ether. Sublimes at 0.0001. Sol in hexane, CS_2 , CCl_4 , Et_2O , and C_6H_6 .

SAFETY PROFILE: A dangerous explosive. It is unstable above -20°C and explodes on contact with oxygen or moisture. See also RHENIUM.

HEL000 CAS: 828-26-2 HR: 3
2,2,4,4,6,6-HEXAMETHYLTRITHIANE

mf: $\text{C}_9\text{H}_{18}\text{S}_3$ mw: 222.44



SYNS: HEXAMETHYL-s-TRITHIANE \square HEXAMETHYL-1,3,5-TRITHIANE \square TRITHIOACETONE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

TOXICITY DATA with REFERENCE:

orl-mus LD50:2400 mg/kg DCTODJ 3,249,80

SAFETY PROFILE: Moderately toxic by ingestion. Explosive reaction with nitric acid. When heated to decomposition it emits toxic fumes of SO_x .

HEL500 CAS: 1164-33-6 HR: 3
HEXAMID

mf: $\text{C}_{18}\text{H}_{25}\text{N}_3\text{O}_3\cdot\text{ClH}$ mw: 367.92

SYNS: 3-(2-(DIETHYLAMINO)ETHYL)-5-ETHYL-5-PHENYL-BARBITURIC ACID HYDROCHLORIDE \square F 156 \square 5,5-PHENYL-AETHYL-3-(β -DIAETHYLAMINO-AETHYL)-2,4,6-TRIOXO-HEXAHYDROPYRIMIDIN-HCl (GERMAN)

TOXICITY DATA with REFERENCE:

orl-mus LD50:190 mg/kg ARZNAD 6,482,56
 scu-mus LD50:490 mg/kg ARZNAD 6,482,56
 ivn-mus LD50:94 mg/kg ARZNAD 6,482,56

SAFETY PROFILE: A poison by ingestion and intravenous routes. Moderately toxic by subcutaneous

route. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also BARBITURATES.

HEM000 CAS: 66-25-1 HR: 3
1-HEXANAL

DOT: UN 1207

mf: C₆H₁₂O mw: 100.18

PROP: Colorless liquid; powerful fatty-green odor. Reported in about a dozen essential oils (FCTXAV 11,95,73). Mp: -56.3°, bp: 131°, flash p: 90°F (OC), d: 0.808-0.812, refr index: 1.402-1.407, vap press: 8.6 mm @ 20°, vap d: 3.45. Sol in alc, fixed oils, propylene glycol; very sltly sol in water.

SYNS: ALDEHYDE C-6 □ CAPROALDEHYDE □ CAPROIC ALDEHYDE □ CAPRONALDEHYDE □ n-CAPROYLALDEHYDE □ FEMA No. 2557 □ HEXALDEHYDE (DOT) □ HEXANAL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,272,86
skn-rbt 14,178 µg/24H open MLD AIHAAP 23,95,62
eye-rbt 500 mg/24H MLD 85JCAE -,272,86
orl-rat LD50:4890 mg/kg AMIHBC 10,61,54
ihl-rat LCLo:2000 ppm/4H AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mildly toxic by ingestion and inhalation. An irritant to skin and eyes. Flammable liquid. A dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes. See also ALDEHYDES.

HEM500 CAS: 628-02-4 HR: 2
HEXANAMIDE

mf: C₆H₁₃NO mw: 115.20

PROP: A solid. Mp: 100°. Mod sol in hot water.

SYNS: CAPROAMIDE □ CAPRONAMIDE □ NCI-C02142

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes such as NO_x.

HEN000 CAS: 110-54-3 HR: 3
n-HEXANE

DOT: UN 1208

mf: C₆H₁₄ mw: 86.20

PROP: Colorless clear liquid; faint odor. Fp: -93.6°, bp: 69°, ULC: 90-95, lel: 1.2%, uel: 7.5%, flash p: -9.4°F, d: 0.655 @ 25°/4°, autoign temp: 437°F, vap press: 100 mm @ 15.8°, vap d: 2.97. Insol in water; misc in chloroform, ether, alc. Very volatile liquid. IDLH 1100 ppm [10%LEL].

SYNS: ESANI (ITALIAN) □ GETTYSOLVE-B □ HEKSAN (POLISH) □ HEXANE (DOT) □ HEXANEN (DUTCH) □ HEXANES (FCC) □ NCI-C60571

TOXICITY DATA with REFERENCE:

eye-rbt 10 mg MLD TXAPA9 55,501,80
cyt-ham:fbr 500 mg/L FCTOD7 22,623,84
ihl-hmn TCLo:190 ppm/8W:PNS AJIMD8 10,111,86
orl-rat LD50:28,710 mg/kg TXAPA9 19,699,71

ipr-rat LDLo:9100 mg/kg TXAPA9 1,156,59

ihl-mus LCLo:120 g/m³ AEPPAE 143,223,29

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 50 ppm

ACGIH TLV: TWA 50 ppm (skin); BEI: 5 mg(2,5-hexanedione)/g creatinine in urine at end of shift; 40 ppm n-hexane in end-exhaled air during shift

DFG MAK: 50 ppm (180 mg/m³)

NIOSH REL: TWA (Alkanes) 350 mg/m³

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Slightly toxic by ingestion and inhalation. Human systemic effects: hallucinations, structural change in nerve or sheath. Experimental teratogenic and reproductive effects. Mutation data reported. An eye irritant. Can cause a motor neuropathy in exposed workers. May be irritating to respiratory tract and narcotic in high concentrations. Inhalation of 5000 ppm for 1/6 hour produces marked vertigo; 2500-1000 ppm for 12 hours produces drowsiness, fatigue, loss of appetite, paresthesia in distal extremities; 2500-500 ppm for 1/6 hour produces muscle weakness, cold pulsation in extremities, blurred vision, headache, anorexia, and onset of polyneuropathy; 2000 ppm for 1/6 hour produces no symptoms; 1000-500 ppm for 3-6 months produces fatigue, loss of appetite, distal paresthesia. Dangerous if abused.

Flammable liquid. A very dangerous fire and explosion hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Mixtures with dinitrogen tetroxide may explode at 28°. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Hydrocarbons, Bp: 36-126°C, 1500.

HEN500 CAS: 4536-23-6 HR: D
2-HEXANECARBOXYLIC ACID

mf: C₇H₁₄O₂ mw: 130.21

SYNS: HEXANOIC ACID, 2-METHYL- □ α-METHYLCAPROIC ACID □ 2-METHYLCAPROIC ACID □ 2-METHYLHEXANOIC ACID

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

HEO000 CAS: 124-09-4 HR: 3
1,6-HEXANEDIAMINE

DOT: UN 1783/UN 2280

mf: C₆H₁₆N₂ mw: 116.24

PROP: Colorless leaflets, long needles by sublimation; odor of piperidine. Mp: 39-42°, bp: 205°. Absorbs water and CO₂ from air; very sol in water; sltly sol in alc, benzene.

SYNS: 1,6-DIAMINOHEXANE □ HEXAMETHYLENEDIAMINE □ 1,6-HEXAMETHYLENEDIAMINE □ HEXAMETHYLENE-DIAMINE, solid (UN 2280) (DOT) □ HEXAMETHYLENEDIAMINE, solution (UN 1783) (DOT) □ HMDA □ NCI-C61405

TOXICITY DATA with REFERENCE:

orl-rat LD50:750 mg/kg TXAPA9 42,417,77
ihl-mus LCLo:750 mg/m³/10M NDRC** NDCrc-132,Sept,42

ipr-mus LD50:320 mg/kg GISAAA 43(11),110,78

scu-mus LD50:1300 mg/kg 85GMAT -,74,82

ivn-mus LD50:180 mg/kg CSLNX* NX#02313

skn-rbt LD50:1110 mg/kg TXAPA9 42,417,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 0.5 ppm

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion, inhalation, and skin contact. An experimental teratogen. A corrosive irritant to skin, eyes, and mucous membranes. Combustible when exposed to heat or flame; can react with oxidizing materials. See also AMINES.

HEO100 CAS: 6055-52-3 HR: 2
1,6-HEXANEDIAMINE, DIHYDROCHLORIDE

mf: C₆H₁₆N₂•2ClH mw: 189.16

SYNS: 1,6-DIAMINOHEXANE DIHYDROCHLORIDE □
HEXAMETHYLENEDIAMINE DIHYDROCHLORIDE □ 1,6-
HEXAMETHYLENEDIAMINE DIHYDROCHLORIDE □
HEXANEDIAMINE DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat TDLo:3682 mg/kg/2W-C NTPTR* NIH-93-3347

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and HCl.

HEO120 CAS: 19090-60-9 HR: 1
HEXANEDIOIC ACID, AMMONIUM SALT

mf: C₆H₁₀O₄•xH₃N mw: 265.44

SYNS: ADIPIC ACID, AMMONIUM SALT (8CI) □ AMMONIUM ADIPATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:10,040 mg/kg MTPEKO (1),45,93

orl-mus LD50:6 g/kg MTPEKO (1),45,93

orl-gpg LD50:6700 mg/kg MTPEKO (1),45,93

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NH₃.

HEO150 CAS: 4074-90-2 HR: 1
HEXANEDIOIC ACID, DIETHENYL ESTER (9CI)

mf: C₁₀H₁₄O₄ mw: 198.24

SYNS: ADIPIC ACID, DIVINYL ESTER □ DIVINYL ADIPATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:6400 mg/kg GISAAA 35(10),88,1970

orl-mus LD50:6400 mg/kg GISAAA 35(10),88,1970

orl-gpg LD50:4300 mg/kg GISAAA 35(10),88,1970

orl-rbt LD50:4300 mg/kg GISAAA 35(10),88,1970

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HEO200 CAS: 110-33-8 HR: 1
HEXANEDIOIC ACID, DIHEXYL ESTER (9CI)

mf: C₁₈H₃₄O₄ mw: 314.52

SYNS: ADIPIC ACID, DIHEXYL ESTER □ DIHEXYL ADIPATE
□ DIHEXYL HEXANEDIOATE □ PLASTICIZER DIHEXYL ADIPATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:19,600 mg/kg GTPZAB 28(12),56,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HEP000 CAS: 142-88-1 HR: 2
HEXANEDIOIC ACID, compound with
PIPERAZINE (1:1)

mf: C₁₀H₂₀N₂O₄ mw: 232.32

PROP: Prisms. Mp: 256–257°.

SYNS: ADIPRAZINE □ DIETELMIN □ ENTACYL □
OXURASIN □ OXYPAAT □ OXYZIN (TABL.) □ PIPADOX □
PIPERAZINE ADIPATE □ VERMICOMPEN (TABL.) □
VERMILASS

TOXICITY DATA with REFERENCE:

orl-rat LD50:7900 mg/kg APFRAD 13,539,55

orl-mus LD50:8 g/kg 85GMAT -,100,82

ipr-mus LD50:1640 mg/kg 85GMAT -,100,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Used as an anthelmintic (anti-worm agent). When heated to decomposition it emits toxic fumes such as NO_x.

HEP500 CAS: 629-11-8 HR: 2
1,6-HEXANEDIOL

mf: C₆H₁₄O₂ mw: 118.20

PROP: Needles from water. Mp: 42°, bp: 250°, flash p: 266°F, d: 0.967 @ 0°/4°, vap d: 4.07.

SYNS: 1,6-DIHYDROXYHEXANE □ HDO □
HEXAMETHYLENEDIOL □ HEXAMETHYLENE GLYCOL □ α-
ω-HEXANEDIOL □ ω-HEXANEDIOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,210,86

eye-rbt 500 mg/24H MLD 85JCAE -,210,86

orl-rat LD50:3730 mg/kg TXAPA9 28,313,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. A skin and eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

HEQ000 CAS: 2935-44-6 HR: 1
2,5-HEXANEDIOL

mf: C₆H₁₄O₂ mw: 118.20

PROP: Liquid. Bp: 220.8°, flash p: 230°F, d: 0.9617 @ 20°/20°, vap d: 4.07.

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open JIHTAB 30,63,48

eye-rbt 100 mg open JIHTAB 30,63,48

orl-rat LD50:2 g/kg JAFCAU 23,418,75

orl-mus LD50:4846 mg/kg JAPMA8 45,669,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin and eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

HEQ100 CAS: 13048-33-4 HR: 2
1,6-HEXANEDIOL DIACRYLATE

mf: C₁₂H₁₈O₄ mw: 226.30

PROP: Clear yellow liquid. Sol in water: <0.1 mg/mL @ 18°.

SYNS: ACRYLIC ACID, HEXAMETHYLENE ESTER □ 2-PROPENOIC ACID, 1,6-HEXANEDIYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV JTEHD6 19,149,86

orl-rat LD50:5 g/kg JTEHD6 19,149,86

skn-rbt LD50:3600 mg/kg JTEHD6 19,149,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by skin contact. Low toxicity by ingestion. A severe skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

HEQ120 CAS: 25724-54-3 HR: 3
HEXANEDIOL, 2-ETHYL-, DIBENZOATE

mf: C₂₂H₂₆O₄ mw: 354.48

SYN: BENZOIC ACID, 2-ETHYLHEXANEDIOL DIESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:29,200 µL/kg AIHAAP 30,470,69

skn-rbt LD50:20 mL/kg AIHAAP 30,470,69

SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HEQ200 CAS: 3848-24-6 HR: 3
2,3-HEXANEDIONE

mf: C₆H₁₀O₂ mw: 114.16

PROP: Bp: 128°, d: 0.934, flash p: 83°F.

SYNS: ACETYLBUTYRYL □ METHYL PROPYL DIKETONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,697,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. Flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

HEQ500 CAS: 110-13-4 HR: 2
2,5-HEXANEDIONE

mf: C₆H₁₀O₂ mw: 114.16

PROP: Colorless liquid. Gradually turns yellow. Mp: -9°, bp: 188°, flash p: 174°F (CC), d: 0.970 @ 20°/4°, autoign temp: 920°, vap d: 3.94. Misc in water and alc.

SYNS: ACETONYL ACETONE □ α,β-DIACETYLETHANE □ 1,2-DIACETYLETHANE □ 2,5-DIKETOHEXANE

TOXICITY DATA with REFERENCE:

eye-rbt 19 mg AJOPAA 29,1363,46

orl-rat LD50:2076 mg/kg IJBA6 24,371,86

ihl-rat LCLo:2000 ppm/4H JIDHAN 31,343,49

orl-mus LD50:2386 mg/kg JAMPA2 45,669,56

skn-gpg LD50:6422 mg/kg JIHTAB 26,269,44

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and inhalation. Mildly toxic by skin contact. An eye irritant. Experimental reproductive effects. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO₂, dry chemical (multi-purpose dry chemical), water spray or mist, alcohol foam. When heated to decomposition it emits acrid smoke and fumes.

HEQ600 CAS: 23605-74-5 HR: 1
(1,6-HEXANEDIYLBIS(NITRILOBIS(METHYLENE)))TETRAKISPHOSPHONIC ACID

mf: C₁₀H₂₈N₂O₁₂O₄ mw: 432.40

SYNS: DEQUEST 2051 □ DEQUEST 2051 DEFLOCCULANT and SEQUESTANT □ HDTMP □ PHOSPHONIC ACID, HEXAMETHYLENEBIS(NITRILODIMETHYLENE)TETRA-(7Cl,8Cl) □ PHOSPHONIC ACID, (1,6-HEXANEDIYLBIS-(NITRILOBIS(METHYLENE)))TETRAKIS-

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MLD JACTDZ 1,99,90

orl-rat LDLo:10 g/kg JACTDZ 1,99,90

skn-rbt LD50:>7940 mg/kg JACTDZ 1,99,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. An eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

HEQ610 CAS: 38820-59-6 HR: 1
(1,6HEXANEDIYLBIS(NITRILOBIS(METHYLENE)))TETRAKISPHOSPHONIC ACID POTASSIUM SALT

mf: C₁₀H₂₈N₂O₁₂P₄•xK mw: 765.98

SYNS: DEQUEST 2054 □ DEQUEST 2054 DEFLOCCULANT and SEQUESTANT □ PHOSPHONIC ACID, (1,6-HEXANEDIYLBIS(NITRILOBIS(METHYLENE)))TETRAKIS-, POTASSIUM SALT

TOXICITY DATA with REFERENCE:

orl-rat LDLo:10 g/kg JACTDZ 1,100,90

skn-rbt LD50:>7940 mg/kg JACTDZ 1,100,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits toxic vapors of NO_x and PO_x.

HER000 CAS: 69-65-8 HR: 1
1,2,3,4,5,6-HEXANEHEXOL

mf: C₆H₁₄O₆ mw: 182.20

PROP: White, crystalline powder or needles; odorless. D: 1.52, mp: 16-167°, bp: 290-295° @ 3-5 mm. Sol in water; sltly sol in lower alc and amines; almost insol in org solvs. Sol in H₂O and Py; sltly sol in EtOH; insol in Et₂O.

SYNS: MANNA SUGAR □ MANNITE □ MANNITOL □ d-MANNITOL □ NCI-C50362

□ OSMITROL

TOXICITY DATA with REFERENCE:

oms-omi 1 mol/L ARMKA7 91,305,73

dni-hmn:lym 50 mmol/L PNASA6 79,1171,82
ivn-man TDLo:17,143 mg/kg/2D-C:CVS,GIT,KID
AIMDAP 144,2053,84

orl-rat LD50:13,500 mg/kg YKYUA6 32,1367,81

ivn-rat LD50:9690 mg/kg YKYUA6 32,1367,81

orl-mus LD50:22 g/kg FAONAU 40,161,67

ipr-mus LD50:14 g/kg PSEBAA 35,98,36

ivn-mus LD50:7470 mg/kg YKYUA6 32,1367,81

CONSENSUS REPORTS: NTP Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NTPTR* NTP-TR-236,82. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion, intraperitoneal, and intravenous routes. Human systemic effects by intravenous route: blood pressure elevation, bladder tubule changes, nausea or vomiting. Human mutation data reported. Used as a nutrient and/or dietary supplement food additive. When heated to decomposition it emits acrid smoke and fumes.

**HER500 CAS: 628-73-9 HR: 3
HEXANENITRILE**

mf: C₆H₁₁N mw: 97.18

PROP: Bp: 163.6°.

SYNS: CAPRONITRILE □ NC5

TOXICITY DATA with REFERENCE:

orl-mus LD50:463 mg/kg NEZAAQ 39,423,84

ivn-rbt LDLo:42 mg/kg COREAF 153,895,11

scu-gpg LDLo:310 mg/kg COREAF 153,895,11

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Cyanide and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: A poison by intravenous and subcutaneous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

**HES000 CAS: 111-31-9 HR: 2
1-HEXANETHIOL**

DOT: UN 1228/UN 3071

mf: C₆H₁₄S mw: 118.26

SYNS: HEXYL MERCAPTAN □ USAF EK-4628

TOXICITY DATA with REFERENCE:

orl-rat LD50:1254 mg/kg AIHAAP 19,171,58

ihl-rat LC50:1080 ppm/4H AIHAAP 19,171,58

ihl-mus LD50:528 mg/kg AIHAAP 19,171,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

NIOSH REL: (n-Alkane Mono Thiols) CL 0.5 ppm/15M

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison (UN 1228); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3071)

SAFETY PROFILE: Moderately toxic by inhalation and ingestion. A flammable liquid. When heated to decomposition it emits very toxic fumes of SO_x. See also MERCAPTANS.

**HES500 CAS: 106-69-4 HR: 2
1,2,6-HEXANETRIOL**

mf: C₆H₁₄O₃ mw: 134.20

PROP: Colorless liquid. Fp: -20°, bp: 155-159° @ 1.5 mm, flash p: 375°F (COC), d: 1.1063 @ 20°/20°, vap press: <0.01 mm @ 20°, vap d: 4.63. Misc in water.

SYNS: HEXANETRIOL-1,2,6 □ HEXANE-1,2,6-TRIOL

TOXICITY DATA with REFERENCE:

skn-rbt 555 mg open MLD UCDS** 7/13/71

eye-rbt 500 mg open AMIHBC 10,61,54

orl-rat LD50:15,500 mg/kg 34ZIAG -,731,69

ipr-rat LD50:10 g/kg TXAPA9 15,282,69

ivn-rat LD50:5600 mg/kg TXAPA9 15,282,69

orl-mus LD50:11,400 mg/kg SCCUR* -,5,61

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. An eye and skin irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, spray, mist, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

**HET000 CAS: 6091-44-7 HR: 3
HEXANHIDROPYRIDINE HYDROCHLORIDE**

mf: C₅H₁₁N•ClH mw: 121.63

PROP: Prisms from EtOH. Mp: 244-245°.

SYN: PIPERIDINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:133 mg/kg 27ZQAG -,289,72

ipr-mus LD50:330 mg/kg JJPAAZ 17,475,67

scu-mus LD50:430 mg/kg AIPTAK 112,36,57

ivn-mus LD50:160 mg/kg AIPTAK 112,36,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

**HET350 CAS: 13232-74-1 HR: 3
HEXANITROBENZENE**

mf: C₆N₆O₁₂ mw: 270.11

C₆(NO₂)₆

PROP: Yellow prisms from CHCl₃. Mp: 246-262°.

SAFETY PROFILE: A powerful explosive. When heated to decomposition it emits toxic fumes of NO_x. See also EXPLOSIVES, NITRO COMPOUNDS of AROMATIC HYDROCARBONS, and NITROBENZENE.

**HET500 CAS: 131-73-7 HR: 3
2,4,6,2',4',6'-HEXANITRODIPHENYLAMINE**

DOT: UN 0079

mf: C₁₂H₅N₇O₁₂ mw: 439.24

PROP: Prisms from AcOH. Mp: 245-246°. Sol in AcOH.

SYNS: AURANTIA □ BIS(2,4,6-TRINITRO-PHENYL)-AMIN (GERMAN) □ C.I. 10360 □ DIPHENYLAMINE, HEXANITRO- □ DIPICRYLAMINE □ DIPICRYLAMINE (DOT) □ DIPIKRYLAMIN □ DPA □ ESANITRODIFENILAMINA (ITALIAN) □ 2,2',4,4',6,6'-HEXANITRODIFENYLAMIN □ HEXANITRODIFENYLAMINE (DUTCH) □ HEXANITRODIPHENYLAMINE □ HEXANITRO-DIPHENYLAMINE (FRENCH) □ 2,2',4,4',6,6'-HEXANITRODI-

PHENYLAMINE □ 2,4,6,2',4',6'-HEXANITRODIPHENYLAMINE □
HEXYL (GERMAN, DUTCH)

TOXICITY DATA with REFERENCE:

mmo-sat 228 nmol/plate MUREAV 136,209,84
mma-sat 456 nmol/plate MUREAV 136,209,84
orl-rat TDLo:14 g/kg/76W-C:NEO NATUAS 180,509,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: EXPLOSIVE 1.1D; Label: EXPLOSIVE 1.1D

SAFETY PROFILE: Questionable carcinogen with experimental neoplastic data. Mutation data reported. A powerful and violent explosive used as a booster explosive; its use is superior to TNT. It is not as good for this purpose as tetryl, but is extremely stable and much safer to handle. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

HET675 CAS: 918-37-6 HR: 3
HEXANITROETHANE

mf: C₂N₆O₁₂ mw: 300.06

PROP: A solid. Mp: 150° (decomp). Sol in CCl₄ and CH₂Cl₂.

SYN: ETHANE, HEXANITRO-

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: A powerful oxidant which explodes above 140°C. Explosive reaction with boron. Hypergolic reaction with dimethyl hydrazine or other strong organic bases. Forms powerfully explosive mixtures with nitrogen containing organic compounds (e.g., 2-nitroaniline). Upon decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

HET700 CAS: 29135-62-4 HR: 3
HEXANITROOXANILIDE

mf: C₁₄H₆N₈O₁₄ mw: 510.28

SYNS: DIPICRYLOXAMIDE □ OXAMIDE, N,N'-DIPICRYL- □ 2,2',4,4',6,6'-HEXANITROOXANILIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: An unstable substance forbidden for transport. When heated to decomposition it emits toxic vapors of NO_x.

HEU000 CAS: 142-62-1 HR: 2
HEXANOIC ACID

DOT: UN 2829

mf: C₆H₁₂O₂ mw: 116.18

PROP: Oily, colorless liquid; odor of Limburger cheese. Fp: -1.5°, bp: 205.0°, flash p: 215°F (COC), d: 0.9295 @ 20°/20°, refr index: 1.415-1.418, vap press: 0.18 mm @ 20°, vap d: 4.0, autoign temp: 716°F. Sol in alkalis, EtOH, and Et₂O; sltly sol in H₂O.

SYNS: BUTYLACETIC ACID □ CAPROIC ACID □ n-CAPROIC ACID □ CAPRONIC ACID □ FEMA No. 2559 □ HEXACID 698 □ n-HEXANOIC ACID □ n-HEXOIC ACID □ PENTIFORMIC ACID □ PENTYLFORMIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 10,61,54
skn-rbt 465 mg open MLD UCDS** 11/2/71
eye-rbt 695 µg SEV AJOPAA 29,1363,46
oms-nml:oth 10 mmol/L CHROAU 40,1,73
cyt-nml:oth 10 mmol/L CHROAU 40,1,73
orl-rat LD50:3000 mg/kg JIHTAB 26,269,44
orl-mus LD50:5 g/kg 85GMAT -,32,82
ihl-mus LC50:4100 mg/m³/2H 85GMAT -,32,82
ipr-mus LD50:3180 mg/kg JPPMAB 21,85,69
scu-mus LD50:3180 mg/kg JPPMAB 21,85,69
skn-rbt LD50:630 mg/kg AMIHBC 10,61,54
skn-gpg LD50:4635 mg/kg JIHTAB 26,269,44

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, intraperitoneal, and subcutaneous routes. Mutation data reported. A corrosive material. A skin and severe eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO₂, dry chemical, fog, mist. When heated to decomposition it emits acrid smoke and fumes.

HEU500 HR: 1
HEXANOIC ACID, VINYL ESTER (mixed isomers)

mf: C₈H₁₄O₂ mw: 142.22

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62
orl-rat LD50:20 g/kg AIHAAP 23,95,62
ihl-rat LCLo:4000 ppm/4H AIHAAP 23,95,62

SAFETY PROFILE: Mildly toxic by ingestion and inhalation. A skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

HEU600 CAS: 626-93-7 HR: 2
2-HEXANOL

mf: C₆H₁₄O mw: 102.20

PROP: Colorless liquid. Bp: 139°, d: 0.814. Flash pt: 41° C.

SYN: 2-HYDROXYHEXANE

TOXICITY DATA with REFERENCE:

ipr-rat TDLo:24,895 mg/kg/34W-I TXAPA9 46,421,78
orl-gpg TDLo:78,926 mg/kg/24W-C AIHAAP 39,94,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and intraperitoneal routes. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

HEV000 CAS: 591-78-6 HR: 3
2-HEXANONE

mf: C₆H₁₂O mw: 100.18

PROP: Clear liquid; odor of nail-polish remover. Mp: -56.9°, bp: 127.2°, lel: 1.22%, uel: 8.0%, flash p: 95°F (OC), d: 0.830 @ 0°/4°, vap press: 10 mm @ 38.8°, vap d: 3.45, autoign temp: 991°F. Sltly sol in water; sol in alc and ether. IDLH 1600 ppm.

SYNS: BUTYL METHYL KETONE □ n-BUTYL METHYL KETONE □ HEXANONE-2 □ MBK □ METHYL n-BUTYL KETONE (ACGIH) □ MNBK

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,283,86
 eye-rbt 100 mg open AMIHBC 10,61,54
 eye-rbt 500 mg/24H MLD 85JCAE -,283,86
 ihl-rat TCLo:2000 ppm/6H (1-21D preg):REP EESADV 5,291,81
 ihl-rat TCLo:1000 ppm/6H (1-21D preg):TER EESADV 5,291,81
 ihl-hmn TCLo:1000 ppm:EYE,CNS,GIT NPRI* 1,78,74
 orl-rat LD50:2590 mg/kg AMIHBC 10,61,54
 ihl-rat LC50:8000 ppm/4H NPRI* 1,78,74
 ipr-rat LDLo:914 mg/kg RalRL# 01MAR74
 orl-mus LD50:2430 mg/kg TOLED5 30,13,86
 skn-rbt LD50:4800 mg/kg NPRI* 1,78,74
 orl-gpg LDLo:914 mg/kg RalRL# 01MAR74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 5 ppm

ACGIH TLV: TWA 5 ppm; STEL 10 ppm

DFG MAK: 5 ppm (21 mg/m³)

NIOSH REL: (Ketones) TWA 4 mg/m³

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by inhalation and skin contact. Experimental teratogenic and reproductive effects. Human systemic effects by inhalation: unspecified eye effects, headache, nausea or vomiting. A skin and eye irritant. Dangerous fire and explosion hazard when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. See also KETONES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ketones I (Desorption in CS₂) 1300.

HEV500 CAS: 589-38-8 HR: 3
3-HEXANONE

mf: C₆H₁₂O mw: 100.18

PROP: Colorless liquid. Bp: 124°, d: 0.813 @ 21.8°/4°, flash p: 57.2°F (OC).

SYNS: AETHYLPROPYLKETON (GERMAN) □ ETHYL PROPYL KETONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,284,86
 eye-rbt 500 mg/24H MLD 85JCAE -,284,86
 orl-rat LD50:3360 mg/kg TXAPA9 28,313,74
 ihl-rat LCLo:4000 ppm/4H TXAPA9 28,313,74
 skn-rbt LD50:3170 mg/kg TXAPA9 28,313,74
 scu-gpg LDLo:700 mg/kg BDKS** -,34

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and subcutaneous routes. Mildly toxic by inhalation. A skin and eye irritant. Flammable liquid. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also KETONES.

HEV600 CAS: 621-15-8 HR: 2
N-(N-HEXANOYL)ANILINE

mf: C₁₂H₁₇NO mw: 191.30

SYNS: CAPROIC ACID ANILIDE □ HEXANAMIDE, N-PHENYL- □ HEXANANILIDE □ N-PHENYLCAPROAMIDE □ N-PHENYLHEXANAMIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:2510 mg/kg TXAPA9 19,20,1971

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HEW000 CAS: 45776-10-1 HR: 2
1-HEXANOYL LAZIRIDINE

mf: C₈H₁₅NO mw: 141.24

SYNS: 1-CAPROYLAZIRIDINE □ CAPROYLETHYLENEIMINE □ HEXANOYLETHYLENEIMINE

TOXICITY DATA with REFERENCE:

cyt-rat-ipr 50 mg/kg BJPCAL 9,306,54

scu-mus TDLo:360 mg/kg/41W-I:ETA BJPCAL 9,306,54

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HEW050 CAS: 23389-74-4 HR: 3
4-HEXANOYLPYRIDINE

mf: C₁₁H₁₅NO mw: 177.27

SYNS: 1-HEXANONE, 1-(4-PYRIDYL)- □ KETONE, PENTYL 4-PYRIDYL □ PENTYL 4-PYRIDYL KETONE □ PYRIDINE, 4-HEXANOYL- □ 1-(4-PYRIDYL)-1-HEXANONE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:325 mg/kg JMCAR 14,551,71

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

HEW100 CAS: 2787-93-1 HR: 2
1,1,1,3,3,3-HEXAOCTYLDISTANNOXANE

mf: C₄₈H₁₀₂OSn₂ mw: 932.88

SYNS: DISTANNOXANE, HEXAOCTYL- □ HEXAOCTYLDISTANNOXANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2725 mg/kg RPTOAN 42,73,79

OSHA PEL: TWA 0.1 mg(Sn)/m³

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)

NIOSH REL: (Organotin Compounds): 10H TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of Sn.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

HEW150 CAS: 13413-18-8 HR: 2
HEXAOCTYLDISTANNTHIANE

mf: C₄₈H₁₀₂SSn₂ mw: 948.94

SYNS: DISTANNTHIANE, HEXAOCTYL- □ 1,1,1,3,3,3-HEXAOCTYLDISTANNTHIANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:3069 mg/kg RPTOAN 42,73,79

OSHA PEL: TWA 0.1 mg(Sn)/m³**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)**NIOSH REL:** (Organotin Compounds): 10H TWA 0.1 mg(Sn)/m³**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x and Sn.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**HEW200 CAS: 7328-05-4 HR: 3
HEXAPROPYLDISTANNTHIANE**mf: C₁₈H₄₂SSn₂ mw: 528.04**SYNS:** DISTANNTHIANE, HEXAPROPYL- □ 1,1,1,3,3,3-HEXAPROPYLDISTANNTHIANE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:97 mg/kg RPTOAN 42,73,79

OSHA PEL: TWA 0.1 mg(Sn)/m³**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)**NIOSH REL:** (Organotin Compounds): 10H TWA 0.1 mg(Sn)/m³**SAFETY PROFILE:** Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x and Sn.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**HEY000 CAS: 23129-50-2 HR: 3
HEXAPYRIDINEIRON(II) TRIDECACARBONYL
TETRAFERRATE(2-)**mf: C₄₃H₃₀Fe₅N₆O₁₃ mw: 1117.9**PROP:** Black air-sensitive crystals. Sol in Me₂CO; insol in C₆H₆ and Et₂O.**SYN:** HEXAKIS(PYRIDINE)IRON(II) TRIDECACARBONYL-TETRAFERRATE(2-)**SAFETY PROFILE:** Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of NO_x. See also CARBONYLS.**HEY500 CAS: 14986-84-6 HR: 2
HEXASODIUM TETRAPHOSPHATE**mf: Na₆O₁₃P₄ mw: 469.82**SYNS:** HEXANATRIUMTETRAPOLYPHOSPHAT (GERMAN) □ HEXASODIUM TETRAPOLYPHOSPHATE □ SODIUM PHOSPHATE □ SODIUM TETRAPHOSPHATE □ SODIUM TETRAPOLYPHOSPHATE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:3920 mg/kg ARZNAD 7,445,57

scu-mus LD50:875 mg/kg ARZNAD 7,445,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of Na₂O and PO_x. See also PHOSPHATES.**HEY600 CAS: 180-72-3 HR: 1****2,3,4,8,9,10-HEXATHIOSPIRO(5.5)UNDECANE**mf: C₅H₈S₆ mw: 260.49**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:>4 g/kg BCPA6 11,453,62

SAFETY PROFILE: Low toxicity by intraperitoneal route. When heated to decomposition it emits toxic vapors of SO_x.**HEZ000 CAS: 2235-12-3 HR: 3
1,3,5-HEXATRIENE**mf: C₆H₈ mw: 80.14**SYN:** DIVINYLETHYLENE**TOXICITY DATA with REFERENCE:**

eye-rbt 369 mg IHFCAY 6,1,67

orl-rat LD50:210 mg/kg IHFCAY 6,1,67

ihl-rat LCLo:100,000 ppm/15M IHFCAY 6,1,67

skn-rbt LD50:6730 mg/kg IHFCAY 6,1,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion. Mildly toxic by skin contact and inhalation. An eye irritant. When heated to decomposition it emits acrid smoke and fumes.**HEZ375 CAS: 3161-99-7 HR: 3
1,3,5-HEXATRIENE**mf: C₆H₂ mw: 74.08H(C≡C)₃H**PROP:** Microcrystals or solid at -1°.**SAFETY PROFILE:** Polymerizes rapidly in air at room temperature to form a friction-sensitive explosive solid which is probably a peroxide. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS and PEROXIDES.**HEZ800 CAS: 14023-01-9 HR: 3
HEXAUREA CHROMIC CHLORIDE**mf: C₆H₂₄CrN₁₂O₆•3Cl mw: 518.77**PROP:** Green needles. Sol in H₂O; insol in EtOH. IDLH 25 mg/m³ [as Cr(III)].**SYNS:** CHROMIUM CHLORIDE, HEXAUREA □ CHROMIUM(3+), HEXAKIS(UREA-O)-, TRICHLORIDE, (OC-6-11)-(9Cl) □ CHROMIUM(3+), HEXAKIS(UREA)-, TRICHLORIDE (8Cl) □ CHROMIUM(III) HEXA-UREA CHLORIDE**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:180 mg/kg EQSFAP 1,1,75

OSHA PEL: TWA 0.5 mg(Cr)/m³**ACGIH TLV:** TWA 0.5 mg(Cr)/m³; Not Classifiable as a Carcinogen.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x, Cr, and Cl⁻.**HFA000 CAS: 22471-42-7 HR: 3
HEXAUREACHROMIUM(III) NITRATE**mf: C₆H₂₄CrN₁₅O₁₅ mw: 598.34[(H₂NCO•NH₂)₆Cr][NO₃]₃**PROP:** IDLH 25 mg/m³ [as Cr(III)].**CONSENSUS REPORTS:** Chromium and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** An explosive sensitive to impact and heating to 265°C. Upon decomposition it emits toxic

fumes of NO_x. See also EXPLOSIVES, NITRATES, and CHROMIUM COMPOUNDS.

**HFA225 CAS: 31332-72-6 HR: 3
HEXAUREAGALLIUM(III) PERCHLORATE**

mf: C₆H₂₄Cl₃GaN₁₂O₁₈ mw: 728.40
[(H₂NCO•NH₂)₆Ga][ClO₄]₃

SAFETY PROFILE: Explodes violently when heated above its melting point of 179°C. Upon decomposition it emits toxic fumes of Cl⁻ and NO_x. See also GALLIUM and PERCHLORATES.

**HFA300 CAS: 51235-04-2 HR: 2
HEXAZINONE**

mf: C₁₂H₂₀N₄O₂ mw: 252.36

PROP: Crystals. Very sol in CHCl₃, MeOH; sol in Me₂CO, C₆H₆; mod sol in H₂O.

SYNS: 3-CYCLOHEXYL-6-(DIMETHYLAMINO)-1-METHYL-S-TRIAZINE-2,4(1H,3H)-DIONE □ 3-CYCLOHEXYL-6-(DIMETHYLAMINO)-1-METHYL-1,3,5-TRIAZINE-2,4(1H,3H)-DIONE □ DPX 3674 □ VELPAR □ VELPAR WEED KILLER

TOXICITY DATA with REFERENCE:

eye-rbt 48 mg MOD FAATDF 4,603,84
orl-rat LD50:1690 mg/kg 85ARAE 2,135,77
skn-rat LD50:5278 mg/kg FMCHA2 -,C126,83
ipr-rat LD50:530 mg/kg FAATDF 4,603,84
orl-gpg LD50:860 mg/kg PESTC* 9,21,80
ipr-qal LD50:2258 mg/kg FAATDF 4,603,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by skin contact. Experimental reproductive effects. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

**HFA500 CAS: 505-57-7 HR: 3
2-HEXENAL**

mf: C₆H₁₀O mw: 98.16

PROP: Colorless liquid. Flash pt: 104° F.

SYNS: HEX-2-ENAL □ HEX-2-EN-1-AL □ HEXYLENIC ALDEHYDE □ LEAF ALDEHYDE

TOXICITY DATA with REFERENCE:

mno-sat 500 nmol/plate MUREAV 148,25,85
ipr-mus LD50:290 mg/kg ZolH## 23OCT75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. A combustible liquid. When heated to decomposition it emits acrid smoke and fumes. See also ALDEHYDES.

**HFA515 CAS: 6789-80-6 HR: 2
3-HEXENAL, (Z)-**

mf: C₆H₁₀O mw: 98.16

PROP: Green apple like aroma.

SYNS: cis-3-HEXENAL □ 3-(Z)-HEXENAL □ cis-β,γ-HEXYLENIC ALDEHYDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1560 mg/kg FCTOD7 20,709,82
skn-rbt LD50:3700 mg/kg FCTOD7 20,709,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

**HFA525 HR: 3
trans-2-HEXEN-1-AL**

mf: C₆H₁₀O mw: 98.15

PROP: Pale-yellow liquid; fruity, vegetable odor. D: 0.841–0.848, refr index: 1.445–1.449, flash p: 100°F. Sol in alc, propylene glycol, fixed oils; very sltly sol in water.

SYN: FEMA No. 2560

SAFETY PROFILE: Flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

**HFA600 CAS: 67746-30-9 HR: 2
trans-2-HEXENAL DIETHYL ACETAL**

mf: C₁₀H₂₀O₂ mw: 172.30

SYNS: 1,1-DIETHOXY-trans-2-HEXENE □ 2-HEXENE, 1,1-DIETHOXY-, (E)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:860 mg/kg FCTOD7 26,345,88
skn-rbt LD50:5 g/kg FCTOD7 26,345,88
skn-gpg LD50:>5 g/kg FCTOD7 26,345,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

**HFA620 CAS: 18318-83-7 HR: 2
trans-2-HEXENAL DIMETHYL ACETAL**

mf: C₈H₁₆O₂ mw: 144.24

SYNS: 1,1-DIMETHOXY-trans-2-HEXENE □ 2-HEXENE, 1,1-DIMETHOXY-, (E)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:1700 mg/kg FCTOD7 26,347,88
skn-rbt LDLo:5 g/kg FCTOD7 26,347,88
skn-gpg LD50:>5 g/kg FCTOD7 26,347,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

**HFA650 CAS: 25264-93-1 HR: 3
HEXENE**

mf: C₆H₁₂ mw: 84.18

PROP: Colorless liquid.

SYN: HEXYLENE

TOXICITY DATA with REFERENCE:

ihl-mus LC50:4 pph/2H 85JCAE -,13,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits acrid smoke and irritating vapors.

HFB000 CAS: 592-41-6 HR: 3

1-HEXENEmf: C₆H₁₂ mw: 84.158**PROP:** Colorless liquid. Bp: 64.5°, mp: -139.9°, flash p: -14.8°F, d: 0.6732 @ 20°/4°, vap press: 310 mm @ 38°, vap d: 3.0, lel: 1.2%, uel: 6.9%**SYNS:** BUTYL ETHYLENE □ HEXENE □ HEXYLENE**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**ACGIH TLV:** TWA 50 ppm**SAFETY PROFILE:** Moderately toxic irritant to skin, eyes, and mucous membranes. A very dangerous fire and explosion hazard when exposed to heat, flame, or oxidizers. Can react vigorously with oxidizing materials. To fight fire, use dry chemical, CO₂, foam. When heated to decomposition it emits acrid smoke and fumes.**HFB500****HR: 3****2-HEXENE**mf: C₆H₁₂ mw: 84.158**PROP:** Flash p: -5.8°F.**SAFETY PROFILE:** A very dangerous fire and explosion hazard when exposed to heat, flame, or oxidizers. To fight fire, use dry chemical, CO₂, foam. Incompatible with oxidizers, heat, flame. When heated to decomposition it emits acrid smoke and fumes.**HFB600****CAS: 13042-02-9****HR: 3****2-HEXENEDINITRILE**mf: C₆H₆N₂ mw: 106.14**SYNS:** DIHYDROMUCODINITRILE □ DIHYDROMUCON-SAEUREDINITRIL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:380 mg/kg ZAARAM 19,225,69

ipr-mus LD50:70 mg/kg ZAARAM 19,225,69

scu-gpg LD50:49 mg/kg MELAAD 47,192,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x.**HFC000****CAS: 1119-85-3****HR: 3****3-HEXENEDINITRILE**mf: C₆H₆N₂ mw: 106.14**PROP:** A solid. Mp: 76°.**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#05212

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.**HFC100****CAS: 1436-34-6****HR: D****1,2-HEXENE OXIDE**mf: C₆H₁₂O mw: 100.18**SYNS:** BUTYLOXIRANE □ 2-BUTYLOXIRANE □ EPOXY-N-HEXANE □ 1,2-EPOXYHEXANE □ HEXANE, 1,2-EPOXY- □ 1-HEXENE EPOXIDE □ 1-HEXENE OXIDE □ OXIRANE, BUTYL-**TOXICITY DATA with REFERENCE:**

mmo-sat 20 μmol/plate BCPA6 29,1068,80

sce-ham:lng 1250 μmol/L MUREAV 249,55,91

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HFC500****HR: 3****trans-2-HEXENE OZONIDE**mf: C₆H₁₂O₃ mw: 132.16**SYN:** 3-METHYL-5-PROPYL-1,2,4-TRIOXOLANE**SAFETY PROFILE:** A powerful explosive. When heated to decomposition it emits acrid smoke and fumes.**HFD000****CAS: 4219-24-3****HR: 2****3-HEXENOIC ACID**mf: C₆H₁₀O₂ mw: 114.16**PROP:** A liquid. Mp: 12°, bp: 208°.**SYN:** HYDROSORBIC ACID**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:1840 mg/kg JPPMAB 21,85,69

scu-mus LD50:1840 mg/kg JPPMAB 21,85,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal and subcutaneous routes. When heated to decomposition it emits acrid smoke and fumes.**HFD500****CAS: 928-95-0****HR: 3****2-HEXEN-1-OL, (E)-**mf: C₆H₁₂O mw: 100.18**PROP:** Colorless liquid; fruity-green odor. Bp: 158–160°, d: 0.836–0.841, refr index: 0.437–1.442, flash p: 129°F. Sol in alc, propylene glycol, fixed oils; very sltly sol in water.**SYNS:** FEMA No. 2562 □ 2-HEXENOL □ trans-2-HEXENOL □ trans-2-HEXEN-1-OL (FCC)**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H FCTXAV 12,911,74

orl-rat LD50:3500 mg/kg FCTXAV 12,911,74

skn-rbt LD50:4500 mg/kg FCTXAV 12,911,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. Mildly toxic by skin contact. A skin irritant. Flammable liquid when exposed to heat, sparks, or flame. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.**HFE000****CAS: 928-96-1****HR: 3****cis-3-HEXENOL**mf: C₆H₁₂O mw: 100.18**PROP:** Colorless liquid; powerful grassy-green odor. D: 0.846–0.850, refr index: 1.43–1.441, bp: 157°, flash p: 111°F. Sol in alc, propylene glycol, fixed oils; very sltly sol in water.**SYNS:** BLAETTERALKOHOL □ FEMA No. 2563 □ β-γ-HEXENOL □ cis-3-HEXEN-1-OL (FCC) □ LEAF ALCOHOL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4700 mg/kg FCTXAV 12,909,74

ipr-rat LD50:600 mg/kg FCTXAV 7,451,69
 orl-mus LD50:7000 mg/kg FCTXAV 7,451,69
 ipr-mus LD50:400 mg/kg FCTXAV 7,451,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Mildly toxic by ingestion. Flammable liquid. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.

HFE100 CAS: 2497-18-9 HR: 1
2-HEXEN-1-OL ACETATE

mf: C₈H₁₄O₂ mw: 142.22

PROP: Green grassy, spicy, fruity ester like aroma.

SYNS: HEX-2-ENYL ACETATE □ 2-HEXENYL ACETATE □ 2-HEXEN-1-YL-ACETATE □ (E)-2-HEXENYL ACETATE □ trans-2-HEXENYL ACETATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,793,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

HFE150 CAS: 3681-71-8 HR: 1
cis-3-HEXENOL ACETATE

mf: C₈H₁₄O₂ mw: 142.22

PROP: Green grassy, herbaceous, fruity ester like aroma.

SYNS: 3-HEXEN-1-OL ACETATE, (Z)- □ cis-3-HEXENYL ACETATE □ (Z)-3-HEXENYL ACETATE □ cis-3-HEXENYL ETHANOATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTXAV 13,454,75

skn-rbt LD50:>5 g/kg FCTXAV 13,454,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HFE200 CAS: 2497-21-4 HR: 2
2-HEXEN-4-ONE

mf: C₆H₁₀O mw: 98.16

SYN: 2-HEXENE-4-ONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:780 mg/kg DCTODJ 3,249,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HFE300 CAS: 65405-76-7 HR: 1
3-HEXEN-1-YL 2-AMINOBENZOATE

mf: C₁₃H₁₇NO₂ mw: 219.31

PROP: Fresh, balsamic, floral green.

SYNS: 3-HEXEN-OL, 2-AMINOBENZOATE, (Z)- □ cis-3-HEXENYL ANTHRANILATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 20,711,82

orl-rat LD50:>5 g/kg FCTOD7 20,711,82

skn-rbt LD50:>5 g/kg FCTOD7 20,711,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. When heated to decomposition it emits toxic vapors of NO_x.

HFE500 CAS: 25152-85-6 HR: 1
cis-3-HEXENYL BENZOATE

mf: C₁₃H₁₆O₂ mw: 204.29

SYN: 3-HEXENYL ESTER, BENZOIC ACID (Z)-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,773,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and fumes.

HFE510 CAS: 31501-11-8 HR: 1
cis-3-HEXENYL CAPROATE

mf: C₁₂H₂₂O₂ mw: 198.34

SYNS: HEXANOIC ACID, 3-HEXENYL ESTER, (Z)- □ cis-3-HEXENYL HEXANOATE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5 g/kg FCTOD7 30,45S,92

skn-rbt LD50:5 g/kg FCTOD7 30,45S,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HFE513 CAS: 34687-46-2 HR: 1
2-(2-HEXENYL CYCLOPENTANONE)

mf: C₁₁H₁₈O mw: 166.29

SYNS: CYCLOPENTANONE, 2-(2-HEXENYL)- □ HEXENYL CYCLOPENTANONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,795,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

HFE516 CAS: 33467-73-1 HR: 1
cis-3-HEXENYL FORMATE

mf: C₇H₁₂O₂ mw: 128.19

SYNS: 3-HEXEN-1-OL, FORMATE, (Z)- □ β,γ-HEXENYL METHANOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,797,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

HFE518 CAS: 57859-47-9 HR: 1
3-HEXENYL ISOBUTYRATE

mf: C₁₀H₁₈O₂ mw: 170.28

SYNS: 3-HEXENYL ISOBUTANOATE □ 3-HEXENYL 2-METHYPROPANOATE □ PROPANOIC ACID, 2-METHYL-, 3-HEXENYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:>25 g/kg DCTODJ 3,249,1980

orl-mus LD50:>25 g/kg DCTODJ 3,249,1980

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HFE520 CAS: 41519-23-7 HR: 1
***cis*-3-HEXENYL ISOBUTYRATE**

mf: C₁₀H₁₈O₂ mw: 170.28

SYNS: ENT 33,348 □ β,γ-HEXENYL ISOBUTANOATE □ PROPANOIC ACID, 2-METHYL-, 3-HEXENYL ESTER, (Z)-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,799,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

HFE550 HR: 2
***cis*-3-HEXENYL 2-METHYLBUTYRATE**

mf: C₁₁H₂₀O₂ mw: 184.28

PROP: Colorless liquid; powerful, fruity odor like that of unripe apples. D: 0.876–0.880, refr index: 1.430, flash p: 153°F. Sol in alc, fixed oils; insol in water.

SYN: FEMA No. 3497

SAFETY PROFILE: Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

HFE600 CAS: 68133-72-2 HR: 2
***cis*-HEXENYL OXYACETALDEHYDE**

mf: C₈H₁₄O₂ mw: 142.22

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,801,79

orl-rat LD50:4100 mg/kg FCTXAV 17,801,79

skn-rbt LD50:2350 mg/kg FCTXAV 17,801,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by skin contact and ingestion. A skin irritant. See also ALDEHYDES.

HFE625 CAS: 42436-07-7 HR: 1
***cis*-3-HEXENYL PHENYLACETATE**

mf: C₁₄H₁₈O₂ mw: 218.32

SYNS: BENZENEACETIC ACID, 3-HEXENYL ESTER, (Z)- □ β,γ-HEXENYL α-TOLUATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 17,803,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

HFE650 CAS: 33467-74-2 HR: 1
***cis*-3-HEXENYL PROPIONATE**

mf: C₉H₁₆O₂ mw: 156.25

SYNS: 3-HEXEN-1-OL, PROPANOATE (Z)- □ β,γ-HEXENYL PROPANOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,805,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

HFE700 CAS: 53398-80-4 HR: 1
***trans*-2-HEXENYL PROPIONATE**

mf: C₉H₁₆O₂ mw: 156.25

SYNS: 2-HEXEN-1-OL, PROPANOATE, (E)- □ 2-HEXENYL PROPANOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,807,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

HFE710 CAS: 67883-79-8 HR: 1
***cis*-3-HEXENYL TIGLATE**

mf: C₁₁H₁₈O₂ mw: 182.29

PROP: Flavor and fragrance chemical.

SYNS: 2-BUTENOIC ACID, 2-METHYL-, 3-HEXENYL ESTER, (E,Z)- □ *cis*-3-HEXENYL-2-METHYL-*trans*-2-BUTENOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,809,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

HFE800 CAS: 35852-46-1 HR: 1
***cis*-3-HEXENYL VALERATE**

mf: C₁₁H₂₀O₂ mw: 184.31

SYNS: *cis*-3-HEXENYL PENTANOATE □ Z-3-HEXENYL VALERATE □ PENTANOIC ACID, 3-HEXENYL ESTER, (Z)- □ VALERIC ACID, 3-HEXENYL ESTER, (Z)-

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5 g/kg FCTOD7 30,47S,92

skn-rbt LDLo:5 g/kg FCTOD7 30,47S,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HFF000 CAS: 10138-60-0 HR: 3
4-HEXEN-1-YN-3-OL

mf: C₆H₈O mw: 96.14

SYN: 4-HEXENE-1-YN-3-OL

TOXICITY DATA with REFERENCE:

skn-rbt 9090 µg/24H open MLD AIHAAP 23,95,62

orl-rat LD50:34 mg/kg AIHAAP 23,95,62

ihl-rat LCLo:62 ppm/4H AIHAAP 23,95,62

skn-rbt LDLo:71 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: A poison by ingestion, inhalation, and skin contact. A skin irritant. When heated to

decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS and ALCOHOLS.

HFF300 CAS: 13061-80-8 HR: 3
4-HEXEN-1-YN-3-ONE

mf: C₆H₆O mw: 94.12

PROP: Bp: 145° @ 747 mm.

SYN: 4-HEXENE-1-YNE-3-ONE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62

orl-rat LD50:71 mg/kg AIHAAP 23,95,62

ihl-rat LCLo:13 ppm/4H AIHAAP 23,95,62

skn-rbt LD50:100 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: A poison by ingestion, inhalation, and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS and KETONES.

HFF500 CAS: 50-62-4 HR: 3
HEXOBENDINE DIHYDROCHLORIDE

mf: C₃₀H₄₄N₂O₁₀•2ClH mw: 665.68

PROP: A solid. Mp: 170–174°. Insol in Et₂O; sol in H₂O.

SYNS: ANDIAMINE □ N,N'-DIMETHYL-N,N'-BIS(3-(3',4',5'-TRIMETHOXYBENZOXY)PROPYL)ETHYLENEDIAMINE DIHYDROCHLORIDE □ REOXYL

TOXICITY DATA with REFERENCE:

orl-rat LD50:2550 mg/kg GNRIDX 3,77,69

scu-rat LD50:930 mg/kg GNRIDX 3,77,69

ivn-rat LD50:52 mg/kg GNRIDX 3,77,69

orl-mus LD50:682 mg/kg GNRIDX 3,77,69

scu-mus LD50:328 mg/kg GNRIDX 3,77,69

ivn-mus LD50:35,200 µg/kg GNRIDX 3,77,69

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

HFG000 CAS: 6004-98-4 HR: 3
HEXOCYCLIUM

mf: C₂₁H₃₆N₂O₅S mw: 428.61

PROP: Crystals. Mp: 200–210°, sltly sol in chloroform, insol in ether, sol in H₂O.

SYNS: 4-(β-CYCLOHEXYL-β-HYDROXYPHENETHYL)-1,1-DIMETHYL PIPERAZINIUM SULFATE □ TRAL

TOXICITY DATA with REFERENCE:

mno-sat 32 µg/plate JEPTDQ 4,345,80

orl-mus LD50:600 mg/kg 27ZIAQ -,65

ipr-mus LD50:55 mg/kg 27ZIAQ -,119,73

scu-mus LD50:360 mg/kg 27ZIAQ -,119,73

ivn-mus LD50:11 mg/kg 27ZIAQ -,119,73

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

HFG400 CAS: 115-63-9 HR: 3
HEXOCYCLIUM METHYLSULFATE

mf: C₂₀H₃₃N₂O•CH₃O₄S mw: 428.65

PROP: Crystals. Mp: 200–210°.

SYNS: 4-(β-CYCLOHEXYL-β-HYDROXYPHENETHYL)-1,1-DIMETHYLPIPERAZINIUM METHYLSULFATE □ N-(β-CYCLOHEXYL-β-HYDROXY-β-PHENYLETHYL)-N'-METHYLPIPERAZINE DIMETHYLSULFATE □ PIPERAZINIUM, 4-(β-CYCLOHEXYL-β-HYDROXYPHENETHYL)-1,1-DIMETHYL-, METHYL SULFATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:8900 µg/kg CSLNX* NX#01104

SAFETY PROFILE: Poison by intravenous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

HFG500 CAS: 108-10-1 HR: 3
HEXONE

DOT: UN 1245

mf: C₆H₁₂O mw: 100.18

CH₃CO•CH₂CH(CH₃)₂

PROP: Colorless mobile liquid; fruity, ethereal odor. Fp: –80.2°, bp: 116.8°, lel: 1.4%, uel: 7.5%, flash p: 62.6°F, d: 0.801, autoign temp: 858°F, vap press: 16 mm @ 20°. Misc with alc, ether; sol in water. IDLH 500 ppm.

SYNS: FEMA No. 2731 □ HEXON (CZECH) □ ISOBUTYL-METHYLKETON (CZECH) □ ISOBUTYL METHYL KETONE □ ISOPROPYLACETONE □ METHYL-ISOBUTYL-CETONE (FRENCH) □ METHYLISOBUTYLKETON (DUTCH, GERMAN) □ METHYL ISOBUTYL KETONE (ACGIH, DOT) □ 4-METHYL-PENTAN-2-ON (DUTCH, GERMAN) □ 4-METHYL-2-PENTANON (CZECH) □ 2-METHYL-4-PENTANONE □ 4-METHYL-2-PENTANONE (FCC) □ METILISOBUTYLCHETONE (ITALIAN) □ 4-METILPENTAN-2-ONE (ITALIAN) □ METYLOIZOBUTYLOKETON (POLISH) □ MIBK □ MIK □ RCRA WASTE NUMBER U161 □ SHELL MIBK

TOXICITY DATA with REFERENCE:

eye-hmn 200 ppm/15M JIHTAB 28,262,46

skn-rbt 500 mg/24H MLD 28ZPAK -,42,72

eye-rbt 500 mg/24H MLD 85JCAE -,284,86

eye-rbt 40 mg SEV UCDS** 4/25/58

eye-rbt 500 mg/24H MLD 28ZPAK -,42,72

orl-rat LD50:2080 mg/kg UCDS** 4/25/58

ipr-rat LD50:400 mg/kg 38MKAJ 2C,4748,82

orl-mus LD50:2671 mg/kg TOLED5 30,13,86

ihl-mus LC50:23,300 mg/m³ GTPZAB 17(11),52,73

ipr-mus LD50:268 mg/kg SCCUR* -,7,61

orl-gpg LD50:1600 mg/kg 38MKAJ 2C,4748,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Community Right-To-Know List.

OSHA PEL: TWA 50 ppm; STEL 75 ppm

ACGIH TLV: TWA 50 ppm; STEL 75 ppm; BEI: 2 mg/L of MIBK in urine at end of shift

DFG MAK: 20 ppm (83 mg/m³)

NIOSH REL: (Ketones) TWA 200 mg/m³

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. Mildly toxic by inhalation. Very irritating to the skin, eyes, and mucous membranes. An experimental teratogen. A human systemic irritant by inhalation. Narcotic in high concentration. Flammable liquid when exposed to heat, flame, or oxidizers. Ignites on contact with potassium-tert-butoxide. Moderately explosive in the form of vapor when exposed to heat or flame. May form explosive peroxides upon exposure to

air. Can react vigorously with reducing materials. To fight fire, use alcohol foam, CO₂, dry chemical. Incompatible with air, potassium-tert-butoxide. See also KETONES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ketones I (Desorption in CS₂), 1300.

**HFG550 CAS: 6556-11-2 HR: 3
HEXOPAL**

mf: C₄₂H₃₀N₆O₁₂ mw: 810.71

PROP: Crystals. Mp: 254.3–254.9°. Practically insol in water; sol in dil acids.

SYNS: DILCIT □ DILEXPAL □ ESANTENE □ HAMOVANNID □ HEXANICIT □ HEXANICOTINOYL INOSITOL □ HEXANICOTOL □ HEXA-3-PYRIDINECARBOXYLATE-myo-INOSITOL (9CI) □ INOSITOL HEXANICOTINATE □ m-INOSITOL HEXANICOTINATE □ meso-INOSITOL HEXANICOTINATE □ myo-INOSITOL HEXANICOTINATE □ INOSITOL NIACINATE □ INOSITOL NICOTINATE □ LINODIL □ MESONEX □ MESOTAL □ PALOHEX

TOXICITY DATA with REFERENCE:

scu-rat LD50:1180 mg/kg NIIRDN 6,77,82

ivn-rat LD50:268 mg/kg NIIRDN 6,77,82

ipr-mus LD50:6400 mg/kg OYYAA2 7,149,73

ivn-mus LD50:345 mg/mg NIIRDN 6,77,82

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x.

**HFG600 CAS: 4323-43-7 HR: 3
HEXOPRENALINE DIHYDROCHLORIDE**

mf: C₂₂H₃₂N₂O₆•2ClH mw: 493.48

PROP: Crystals from MeOH/Et₂O. Mp: 197.5–198°.

SYNS: N,N'-BIS(2-(3',4'-DIHYDROXYPHENYL)-2-HYDROXY-ETHYL)HEXAMETHYLENEDIAMINE DIHYDROCHLORIDE □ ST-1512 DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:10 g/kg OYYAA2 26,811,83

ipr-rat LD50:139 mg/kg KSRNAM 6,1286,72

scu-rat LD50:143 mg/kg KSRNAM 6,1286,72

ivn-rat LD50:58 mg/kg OYYAA2 26,811,83

orl-mus LD50:2036 mg/kg KSRNAM 6,1286,72

ipr-mus LD50:133 mg/kg KSRNAM 6,1286,72

scu-mus LD50:110 mg/kg KSRNAM 6,1286,72

ivn-mus LD50:88 mg/kg KSRNAM 6,1286,72

SAFETY PROFILE: Poison by subcutaneous, intravenous and intraperitoneal routes. Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

**HFG650 CAS: 32266-10-7 HR: 3
HEXOPRENALINE SULFATE**

mf: C₂₂H₃₂N₂O₆•H₂O₄S mw: 518.64

PROP: Crystals from EtOH (aq). Mp: 222–228°.

SYNS: N,N'-BIS(2-(3',4'-DIHYDROXYPHENYL)-2-HYDROXYETHYL)HEXAMETHYLENEDIAMINE SULFATE □ ST-1512 SULFATE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:145 mg/kg NIIRDN 6,745,82

scu-rat LD50:150 mg/kg NIIRDN 6,745,82

ipr-mus LD50:158 mg/kg YKYUA6 28,1451,77

scu-mus LD50:274 mg/kg NIIRDN 6,745,82

SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Experimental teratogenic effects. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also SULFATES.

**HFG700 CAS: 17597-95-4 HR: 1
HEXOXYACETALDEHYDE DIMETHYLACETAL**

mf: C₁₀H₂₂O₃ mw: 190.32

SYNS: ACETALDEHYDE, (HEXYLOXY)-, DIMETHYL ACETAL □ β-HEXOXYACETALDEHYDE DIMETHYLACETAL □ 2-HEXOXYACETALDEHYDE DIMETHYLACETAL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,811,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

**HFH500 CAS: 63916-83-6 HR: 3
p-HEXOXYBENZOIC ACID-3-(2'-METHYL-PIPERIDINO)PROPYL ESTER**

mf: C₂₂H₃₅NO₃ mw: 361.58

TOXICITY DATA with REFERENCE:

scu-mus LD50:222 mg/kg RCPAN 15,143,54

ivn-mus LD50:23 mg/kg RCPAN 15,143,54

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS.

**HFI500 CAS: 142-92-7 HR: 3
HEXYL ACETATE**

mf: C₈H₁₆O₂ mw: 144.24

PROP: Colorless liquid; fruity odor. D: 0.878, mp: –60.9°, bp: 171.5°, refr index: 1.407, flash p: 109°F. Insol in water; very sol in alc and ether.

SYNS: ACETIC ACID HEXYL ESTER □ FEMA No. 2565 □ n-HEXYL ACETATE (FCC) □ 1-HEXYL ACETATE □ HEXYL ALCOHOL, ACETATE □ HEXYL ETHANOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,359,86

eye-rbt 500 mg/24H MLD 85JCAE -,359,86

orl-rat LD50:42 g/kg TXAPA9 28,313,74

skn-rbt LD50:>5 g/kg FCTXAV 12,913,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin and eye irritant. A flammable liquid. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Esters I, 1450.

**HFJ000 CAS: 108-84-9 HR: 3
sec-HEXYL ACETATE**

DOT: UN 1233

mf: C₈H₁₆O₂ mw: 144.24

PROP: Clear liquid; pleasant odor. Bp: 146.3°, fp: –63.8°, flash p: 113°F (COC), d: 0.8598 @ 20°/20°, vap press: 3.8 mm @ 20°, vap d: 4.97. IDLH 500 ppm.

SYNS: ACETIC ACID-1,3-DIMETHYLBUTYL ESTER □ 1,3-DIMETHYLBUTYL ACETATE □ MAAC □ METHYLAMYL

ACETATE □ METHYL AMYL ACETATE (DOT) □ METHYLISO-
 AMYL ACETATE □ METHYLISOBUTYLCARBINOL ACETATE □
 METHYLISOBUTYLCARBINYL ACETATE □ 4-METHYL-2-
 PENTANOL, ACETATE □ 4-METHYL-2-PENTYL ACETATE

TOXICITY DATA with REFERENCE:

eye-hmn 100 ppm/15M JIHTAB 28,262,46
 skn-rbt 500 mg open MLD UCDS** 7/28/66
 eye-rbt 500 mg/24H MLD 85JCAE -,359,86
 ihl-hmn TCLo:100 ppm:NOSE,EYE,PUL JIHTAB
 28,262,46
 orl-rat LD50:6160 mg/kg UCDS** 7/28/66
 ihl-rat LCLo:2000 ppm/4H UCDS** 7/28/66
 skn-rbt LD50:20 g/kg UCDS** 7/28/66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 50 ppm

ACGIH TLV: TWA 50 ppm

DFG MAK: 50 ppm (300 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mildly toxic by ingestion, skin contact, and inhalation. Human systemic effects by inhalation: conjunctiva irritation, unspecified changes in olfactory and respiratory systems. A skin and human eye irritant. Flammable liquid when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. See also ESTERS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Esters I 1450.

HFJ500 CAS: 111-27-3 HR: 3 n-HEXYL ALCOHOL

mf: C₆H₁₄O mw: 102.20

PROP: Colorless liquid. Fp: -46.7°, bp: 157.2°, flash p: 145°F, d: 0.8204 @ 20°/20°, vap press: 1 mm @ 24.4°, vap d: 3.52. Misc in alc, ether; sltly sol in water.

SYNS: AMYLCARBINOL □ CAPROYL ALCOHOL □ EPAL 6 □
 FEMA No. 2567 □ HEXANOL □ n-HEXANOL □ 1-HEXANOL □
 HEXYL ALCOHOL □ 1-HYDROXYHEXANE □
 PENTYLCARBINOL

TOXICITY DATA with REFERENCE:

skn-rbt 410 mg open MLD UCDS** 4/21/67
 skn-rbt 10 mg/24H open MLD AMIHBC 4,119,51
 eye-rbt 250 µg open SEV AMIHBC 4,119,51
 orl-rat LD50:720 mg/kg SAMJAF 43,795,69
 orl-mus LD50:1950 mg/kg HYSAAV 31,310,66
 ivn-mus LD50:103 mg/kg AIPTAK 135,330,62
 skn-rbt LD50:3100 mg/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and skin contact. A skin and severe eye irritant. Flammable liquid when exposed to heat, sparks, or flame. Can react with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. See also ALCOHOLS.

HFJ600 CAS: 26401-20-7 HR: 3 tert-HEXYL ALCOHOL

mf: C₆H₁₄O mw: 102.20

SYN: tert-HEXANOL (9CI, DOT)

TOXICITY DATA with REFERENCE:

orl-rat LD50:500 mg/kg 85GMAT -,74,82

orl-mus LD50:350 mg/kg 85GMAT -,74,82
 ivn-mus LD50:243 mg/kg AIPTAK 135,330,62

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits acrid smoke and fumes. Flammable when exposed to heat or flame; can react vigorously with oxidizing materials. A fire hazard. See also ALCOHOLS.

HFK000 CAS: 111-26-2 HR: 3 HEXYLAMINE

DOT: UN 2733/UN 2734

mf: C₆H₁₅N mw: 101.22

PROP: Liquid. Mp: -22.9°, fp: -19°, bp: 131.4°, flash p: 85°F (OC), d: 0.7675 @ 20°/20°, vap d: 3.49.

SYNS: 1-AMINOHEXANE □ 1-HEXANAMINE □ N-
 HEXYLAMINE □ MONO-N-HEXYLAMINE

TOXICITY DATA with REFERENCE:

eye-rbt 750 µg/24H SEV 85JCAE -,434,86
 skn-rbt 500 mg open SEV UCDS** 11/3/71
 eye-rbt 5 mg MOD UCDS** 11/3/71
 orl-rat LD50:670 mg/kg AMIHBC 10,61,54
 ihl-rat LCLo:500 ppm/4H AEHLAU 1,343,60
 ipr-mus LDLo:16 mg/kg CBCCT* 2,188,50
 skn-rbt LD50:420 mg/kg AEHLAU 1,343,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive, Flammable Liquid (UN 2734); DOT Class: 3; Label: Flammable Liquid, Corrosive (UN 2733)

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion, inhalation, and skin contact. A severe skin and eye irritant. Dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. Upon decomposition it emits toxic fumes of NO_x. See also AMINES.

HFK500 CAS: 77280-91-2 HR: 3 9-((3-(HEXYLAMINO)PROPYL)AMINO)-1- NITROACRIDINE DIHYDROCHLORIDE

mf: C₂₂H₂₈N₄O₂·2ClH mw: 453.46

SYNS: ACRIDINE, 9-((3-(HEXYLAMINO)PROPYL)AMINO)-1-
 NITRO-, DIHYDROCHLORIDE □ C 1006 □ 1-NITRO-9-(3-
 HEXYLAMINOPROPYLAMINO)ACRIDINE DIHYDRO-
 CHLORIDE □ 1,3-PROPANEDIAMINE, N-HEXYL-N'-(1-NITRO-
 9-ACRIDINYL)-, DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

dnd-hmn-hla 2500 nmol/L CBINA8 49,311,84
 dns-hmn-hla 1 µmol/L CBINA8 49,311,84
 hma-mus-hla 44 mg/kg BCPA6 38,1301,89
 ipr-mus LD50:3820 µg/kg AITEAT 30,385,82
 ivn-pgn LD50:10,500 µg/kg AITEAT 28,777,80

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. Human mutation data reported.

HFL000 CAS: 63019-34-1 HR: 2 5-n-HEXYL-1,2-BENZANTHRACENE

mf: C₂₄H₂₄ mw: 312.48

SYN: 8-HEXYL-BENZ(a)ANTHRACENE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.

HFL500 CAS: 6789-88-4 HR: 1
n-HEXYLBENZOATEmf: C₁₃H₁₈O₂ mw: 206.31**SYNS:** BENZOIC ACID, HEXYL ESTER □ HEXYL BENZOATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD 85JCAE -,382,86

eye-rbt 500 mg open AMIHBC 4,119,51

orl-rat LD50:12,300 mg/kg AMIHBC 4,119,51

skn-rbt LD50:21,000 mg/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion and skin contact. A skin and eye irritant. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.**HFM500 CAS: 111-25-1 HR: 2**
HEXYL BROMIDEmf: C₆H₁₃Br mw: 165.10**PROP:** A liquid. Fp: -84.7°, bp: 155.3°.**SYN:** BROMOHEXANE**TOXICITY DATA with REFERENCE:**ihl-rat LC50:550 g/m³/30M FAVUAI 7,35,75

ipr-mus LD50:1226 mg/kg GTPZAB 20(12),52,76

ihl-uns LC50:13,600 mg/m³ GTPZAB 18(4),55,74**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Mildly toxic by inhalation. When heated to decomposition it emits very toxic fumes of Br⁻. See also BROMIDES.**HFM600 CAS: 19089-92-0 HR: 1**
HEXYL-2-BUTENOATEmf: C₁₀H₁₈O₂ mw: 170.28**PROP:** Colorless liquid; fruity odor. D: 0.880, refr index: 1.428-1.449. Sol in alc, fixed oils; insol in water, propylene glycol.**SYNS:** 2-BUTENOIC ACID, HEXYL ESTER □ FEMA No. 3354 □ n-HEXYL 2-BUTENOATE □ HEXYL CROTONATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTOD7 20,715,82

orl-rat LD50:>5 g/kg FCTOD7 20,715,82

skn-rbt LD50:>5 g/kg FCTOD7 20,715,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**HFM700 CAS: 2639-63-6 HR: 1**
1-HEXYL BUTYRATEmf: C₁₀H₂₀O₂ mw: 172.30**PROP:** Flavor and fragrance chemical.**SYNS:** BUTYRIC ACID, HEXYL ESTER □ HEXYL BUTANOATE □ n-HEXYL BUTANOATE □ n-HEXYL n-BUTANOATE □ HEXYL BUTYRATE □ n-HEXYL BUTYRATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTXAV 17,815,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**HFN000 CAS: 112-59-4 HR: 2**
n-HEXYL CARBITOLmf: C₁₀H₂₂O₃ mw: 190.32**PROP:** Liquid. Bp: 258.2°, fp: -33.3°, flash p: 285°F (OC), d: 0.9346 @ 20°/20°, vap press: 0.01 mm @ 20°.**SYNS:** DIETHYLENE GLYCOL-n-HEXYL ETHER □ DIETHYLENE GLYCOL MONOHEXYL ETHER □ 3,6-DIOXADODECANOL-1 □ n-HEXOXYETHOXYETHANOL □ HEXYL CARBITOL □ 2-((2-HEXYLOXY)ETHOXY)ETHANOL**TOXICITY DATA with REFERENCE:**

skn-rbt 10 mg/24H open MLD AMIHBC 4,119,51

skn-rbt 500 mg/24H SEV JPETAB 82,377,44

skn-rbt 500 mg open MLD UCDS** 11/3/71

eye-rbt 5 mg MOD UCDS** 11/3/71

orl-rat LD50:4920 mg/kg AMIHBC 4,119,51

skn-rbt LD50:1500 mg/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Glycol ether compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Moderately toxic by skin contact route. Mildly toxic by ingestion. An eye and severe skin irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also GLYCOL ETHERS.**HFN500 CAS: 20740-05-0 HR: 3**
n-HEXYL CARBORANEmf: C₈H₂₄B₁₀ mw: 228.42**PROP:** A liquid. Bp: 326.7° @ 760 mm.**SYNS:** HEXYLDICARBADODECABORANE(12) □ NHC**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD AEHA** 51-044-74/76

ipr-rat LDLo:1900 mg/kg AEHA** 51-044-74/76

ivn-rbt LDLo:150 mg/kg NTIS** AD-A041-973

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Moderately toxic by intraperitoneal route. An experimental teratogen. A skin irritant. When heated to decomposition it emits toxic fumes of boron. See also BORANES and BORON COMPOUNDS.**HFO500 CAS: 101-86-0 HR: 2**
HEXYL CINNAMALDEHYDEmf: C₁₅H₂₀O mw: 216.35**PROP:** Pale-yellow liquid; jasmine odor. D: 0.953-0.959, mp: 4°, bp: 169° @ 20 mm, refr index: 1.548-1.552. Sol in fixed oils; insol in propylene glycol, glycerin.**SYNS:** FEMA No. 2569 □ α-HEXYLCINNAMALDEHYDE (FCC) □ HEXYL CINNAMIC ALDEHYDE □ α-HEXYLCINNAMIC ALDEHYDE □ α-n-HEXYL-β-PHENYLACROLEIN □ 2-(PHENYLMETHYLENE)OCTANOL**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 12,915,74

orl-rat LD50:3100 mg/kg FCTXAV 12,915,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also ALDEHYDES.

HFO600 CAS: 13074-65-2 HR: 1
2-HEXYLCYCLOPENTANONE

mf: $C_{11}H_{20}O$ mw: 168.31

PROP: Green, floral jasmine like odor.

SYNS: CYCLOPENTANONE, 2-HEXYL- □ 2-n-HEXYLCYCLOPENTANONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTOD7 26,349,88

skn-rbt LDLo:5 g/kg FCTOD7 26,349,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HFO700 CAS: 95-41-0 HR: 3
2-n-HEXYL-2-CYCLOPENTEN-1-ONE

mf: $C_{11}H_{18}O$ mw: 166.29

PROP: Bp: 126–129° @ 30 mm.

SYNS: 2-CYCLOPENTEN-1-ONE, 2-HEXYL- □ DIHYDRO-ISOJASMONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,713,78

ivn-mus LD50:320 mg/kg CSLNX* NX#00920

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

HFP500 CAS: 25354-97-6 HR: 3
2-HEXYLDECANOIC ACID

mf: $C_{16}H_{32}O_2$ mw: 256.48

PROP: Viscous oil. Bp: 140–150° @ 0.02 mm; sol in water.

SYNS: 2-HEXYLDECANSAEURE (GERMAN) □ 7-PENTADECANECARBOXYLIC ACID

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:300 mg/kg ARZNAD 3,86,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes.

HFP600 CAS: 64049-22-5 HR: 3
HEXYLDICHLORARSINE

mf: $C_6H_{13}AsCl_2$ mw: 231.01

SYNS: ARSINE, DICHLOROHEXYL- □ TL 231

TOXICITY DATA with REFERENCE:

ihl-mus LC50:1500 mg/m³/10M NTIS** PB158-508

skn-mus LD50:20 mg/kg NTIS** PB158-508

OSHA PEL: TWA 0.5 mg(As)/m³

SAFETY PROFILE: Poison by skin contact. When heated to decomposition it emits toxic fumes of As and Cl₂.

HFP650 CAS: 60254-65-1 HR: 1
HEXYL N,N-DIETHYLOXAMATE

mf: $C_{12}H_{23}NO_3$ mw: 229.36

SYNS: ACETIC ACID, (DIETHYLAMINO)OXO-, HEXYL ESTER

□ HEXYL (DIETHYLAMINO)OXOACETATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:18,700 mg/kg VETNAL 52(5),42,1975

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HFP700 CAS: 5434-57-1 HR: 1
HEXYL 2,2-DIMETHYLPROPANOATE

mf: $C_{11}H_{22}O_2$ mw: 186.33

PROP: Cosmetic fragrance ingredient.

SYNS: HEXYL NEOPENTANOATE □ PIVALIC ACID, HEXYL

ESTER □ PROPANOIC ACID, 2,2-DIMETHYL-, HEXYL ESTER

(9CI) □ PROPANOIC ACID, 2,2-DIMETHYL-, n-HEXYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 20,723,82

orl-rat LD50:>5 g/kg FCTOD7 20,723,82

skn-rbt LD50:>5 g/kg FCTOD7 20,723,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

HFP875 CAS: 107-41-5 HR: 2
HEXYLENE GLYCOL

mf: $C_6H_{14}O_2$ mw: 118.20

PROP: Mild odor, colorless liquid, water-sol. Bp: 197.1°, fp: -50°, flash p: 205°F (OC), d: 0.9234 @ 20°/20°, vap press: 0.05 mm @ 20°.

SYNS: 2,4-DIHYDROXY-2-METHYLPENTANE □ DIOLANE □

1,2-HEXANEDIOL □ ISOL □ 2-METHYL PENTANE-2,4-DIOL □

2-METHYL-2,4-PENTANEDIOL □ PINAKON □ α,α'-

TRIMETHYLTRIMETHYLENE GLYCOL

TOXICITY DATA with REFERENCE:

skn-rbt 465 mg open MLD UCDS** 11/3/71

skn-rbt 465 mg/24H MOD JPETAB 82,377,44

skn-rbt 500 mg/24H MOD FCTXAV 16,777,78

eye-rbt 93 mg SEV BIOFX* 12-4/70

ihl-hmn TCLo:50 ppm/15M:EYE,NOSE,PUL 34ZIAG -312,69

ihl-hmn TCLo:50 ppm:EYE,NOSE,PUL JIHTAB 28,262,46

orl-rat LD50:3700 mg/kg NPIRI* 1,68,74

ipr-rat LDLo:1500 mg/kg JPPMAB 11,150,59

orl-mus LD50:3097 mg/kg JAPMA8 45,669,56

ipr-mus LD50:1299 mg/kg SCCUR* -,5,61

orl-rbt LD50:3200 mg/kg FEPRA7 4,142,45

skn-rbt LD50:8560 mg/kg 34ZIAG -,731,69

scu-rbt LD50:13 g/kg FCTXAV 16,777,78

orl-gpg LD50:2800 mg/kg FEPRA7 4,142,45

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 25 ppm

ACGIH TLV: CL 25 ppm

DFG MAK: 10 ppm**SAFETY PROFILE:** Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by skin contact.Human systemic effects by inhalation: conjunctiva and other eye, olfactory, and pulmonary changes. Mutation data reported. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemicals. When heated to decomposition it emits acrid smoke and fumes. See also GLYCOLS.**HFQ000 CAS: 1637-24-7 HR: 2
HEXYLENE GLYCOL DIACETATE**mf: C₁₀H₁₈O₄ mw: 202.28**PROP:** Liquid. Bp: 95° @ 12 mm.**SYNS:** ACETIC ACID, HEXYLENE GLYCOL □ ACETIC ACID, 2-METHYL-2,4-PENTANEDIOL DIESTER**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 12/13/67

orl-rat LD50:3360 mg/kg AIHAAP 30,470,69

skn-rbt LD50:16 g/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. Mildly toxic by skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and fumes.**HFQ100 CAS: 629-33-4 HR: 1
n-HEXYL FORMATE**mf: C₇H₁₄O₂ mw: 130.21**PROP:** Strong apple aroma.**SYNS:** FORMIC ACID, HEXYL ESTER □ HEXYL FORMATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FCTOD7 26,351,88

skn-rbt LD50:>5 g/kg FCTOD7 26,351,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.**HFQ500 CAS: 6378-65-0 HR: 1
HEXYL HEXOATE**mf: C₁₂H₂₄O₂ mw: 200.36**PROP:** Fruity ester like, tropical odor.**SYNS:** HEXANOIC ACID, HEXYL ESTER □ HEXYL CAPROATE □ n-HEXYL HEXANOATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTXAV 16,775,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.**HFQ510 CAS: 60075-69-6 HR: 3
3-HEXYL-p-IODOBENZYL CARBONATE**mf: C₁₄H₁₉IO₃ mw: 362.23**SYNS:** CARBONIC ACID, 1-ETHYLBUTYL p-IODOBENZYL ESTER □ CARBONIC ACID, 1-ETHYLBUTYL (4-IODOPHENYL)-METHYL ESTER □ 1-ETHYLBUTYL p-IODOBENZYL CARBONATE**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:3 mL/kg JMCMA 19,1362,76

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of I⁻.**HFQ520 CAS: 60075-68-5 HR: 3
N-HEXYL-p-IODOBENZYL CARBONATE**mf: C₁₄H₁₉IO₃ mw: 362.23**SYNS:** CARBONIC ACID, HEXYL p-IODOBENZYL ESTER □ CARBONIC ACID, HEXYL (4-IODOPHENYL)METHYL ESTER**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:7 mL/kg JPMSAE 67,1154,78

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of I⁻.**HFQ550 CAS: 2349-07-7 HR: 1
n-HEXYL ISOBUTYRATE**mf: C₁₀H₂₀O₂ mw: 172.30**SYNS:** HEXYL ISOBUTANOATE □ n-HEXYL ISOBUTANOATE

□ HEXYL ISOBUTYRATE □ 1-HEXYL ISOBUTYRATE □

ISOBUTYRIC ACID, HEXYL ESTER □ PROPANOIC ACID, 2-METHYL-, HEXYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 20,719,82

orl-rat LD50:>5 g/kg FCTOD7 20,719,82

skn-rbt LD50:>5 g/kg FCTOD7 20,719,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**HFQ575 CAS: 10032-13-0 HR: 1
HEXYL ISOVALERATE**mf: C₁₁H₂₂O₂ mw: 186.33**PROP:** Somewhat pungent, slightly herbaceous, but rich and natural odor like unripe fruit.**SYNS:** BUTANOIC ACID, 3-METHYL-, HEXYL ESTER □ n-HEXYL ISOPENTANOATE □ HEXYL 3-METHYL BUTANOATE □ ISOVALERIC ACID, HEXYL ESTER (8CI) □ 3-METHYLBUTYRIC ACID HEXYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FCTOD7 26,353,88

skn-rbt LD50:>5 g/kg FCTOD7 26,353,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.**HFQ600 CAS: 186-30-3 HR: D
HEXYL ISOVALERATE**mf: C₁₁H₂₂O₂ mw: 186.30**PROP:** Colorless liquid; pungent, fruity odor. D: 0.853, refr index: 1.417. Sol in alc, fixed oils; insol in water.**SYN:** FEMA No. 3500**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**HFR000 CAS: 5431-31-2 HR: 1
HEXYL MANDELATE**

mf: $C_{14}H_{20}O_3$ mw: 236.34**TOXICITY DATA with REFERENCE:**

skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62

orl-rat LD50:17 g/kg AIHAAP 23,95,62

skn-rbt LD50:15 g/kg AIHAAP 23,95,62

SAFETY PROFILE: Mildly toxic by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.**HFR100 CAS: 18431-36-2 HR: 3
n-HEXYLMERCURIC BROMIDE**mf: $C_6H_{13}BrHg$ mw: 365.69**SYNS:** BROMOHEXYLMERCURY \square HEXYLMERCURIC BROMIDE \square HEXYL MERCURY BROMIDE \square HMB \square MERCURY, BROMOHEXYL**TOXICITY DATA with REFERENCE:**

cyt-ham:oth 1400 nmol/L HERAY 79,306,75

scu-mus LD50:56,100 μ g/kg OSDIAF 5,388,56**OSHA PEL:** TWA 0.01 mg(Hg)/ m^3 ; CL 0.03 mg(Hg)/ m^3 (skin)**ACGIH TLV:** TWA 0.01 mg(Hg)/ m^3 ; BEI: 35 μ g/g creatinine total inorganic mercury in urine preshift; 15 μ g/g creatinine total inorganic mercury in blood at end of shift at end of workweek.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (Mercury, Organo) TWA 0.01 mg/ m^3 ; STEL 0.03 mg/ m^3 (skin)**SAFETY PROFILE:** Poison by subcutaneous route. Mutation data reported. When heated to decomposition it emits toxic fumes of Hg and Br.**HFR200 CAS: 10032-15-2 HR: 3
HEXYL 2-METHYLBUTYRATE**mf: $C_{11}H_{22}O_2$ mw: 186.33**PROP:** Colorless liquid; strong, fresh-green, fruity odor. D: 0.854, refr index: 1.416–1.421, flash p: 122°F. Sol in alc, fixed oils; insol in water.**SYNS:** FEMA No. 3499 \square 2-METHYLBUTANOIC ACID, n-HEXYL ESTER**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTOD7 20,721,82

orl-rat LD50:>5 g/kg FCTOD7 20,721,82

skn-rbt LD50:>5 g/kg FCTOD7 20,721,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. A skin irritant. Flammable liquid when exposed to heat, sparks, or flame. When heated to decomposition it emits acrid smoke and irritating fumes.**HFR500 CAS: 4351-10-4 HR: 2
2-HEXYL-4-METHYL-1,3-DIOXOLANE**mf: $C_{10}H_{20}O_2$ mw: 172.30**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:500 mg/kg CBCCT* 8,742,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes.**HFR600 CAS: 35089-70-4 HR: D
1-HEXYL-3-NITRO-1-NITROSOGUANIDINE**mf: $C_7H_{15}N_5O_3$ mw: 217.27**SYN:** GUANIDINE, 1-HEXYL-3-NITRO-1-NITROSO-**TOXICITY DATA with REFERENCE:**

mic-sat 100 nmol/plate IDZAAW 50,403,1975

mic-esc 10 mg/L ESKHA5 (88),118,1970

dnr-smc 2 μ mol/well IDZAAW 50,403,1975**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .**HFS500 CAS: 18774-85-1 HR: 2
1-HEXYL-1-NITROSOUREA**mf: $C_7H_{15}N_3O_2$ mw: 173.25**SYN:** NITROSO-N-HEXYLUREA**TOXICITY DATA with REFERENCE:**mmo-sat 1 μ g/plate MUREAV 68,179mma-sat 10 μ g/plate TCMUE9 1,13,84

skn-mus TDLo:693 mg/kg/50W-I:CAR JCROD7 102,13,81

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also N-NITROSO COMPOUNDS.**HFS600 CAS: 1117-55-1 HR: 1
HEXYL OCTANOATE**mf: $C_{14}H_{28}O_2$ mw: 228.42**SYNS:** HEXYL CAPRYLATE \square n-HEXYL CAPRYLATE \square OCTANOIC ACID, HEXYL ESTER**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTOD7 20,713,82

orl-rat LD50:>5 g/kg FCTOD7 20,713,82

skn-rbt LD50:>5 g/kg FCTOD7 20,713,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**HFS759 CAS: 53370-90-4 HR: 2
o-HEXYLOXYBENZAMIDE**mf: $C_{13}H_{19}NO_2$ mw: 221.33**PROP:** Crystals from ethanol. Mp: 71°. Sol in methanol, acetone, chloroform, benzene. Sltly sol in ether. Practically insol in water.**SYNS:** EXALAMIDE \square 2-(HEXYLOXY)BENZAMIDE \square 2-n-HEXYLOXYBENZAMIDE \square H.P. 216 \square HYPERAN**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:530 mg/kg NIIRDN 6,100,82

orl-mus LD50:13,210 mg/kg NIIRDN 6,100,82

ipr-mus LD50:650 mg/kg NIIRDN 6,100,82

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x . See also AMIDES.**HFT500 CAS: 112-25-4 HR: 2
2-(HEXYLOXY)ETHANOL**

mf: C₈H₁₈O₂ mw: 146.26**PROP:** Liquid. Bp: 208.3°, fp: -45.1°, flash p: 195°F (OC), d: 0.8894 @ 20°/20°, vap press: 0.1 mm @ 20°, vap d: 5.04.**SYNS:** ETHYLENE GLYCOL-N-HEXYL ETHER □ ETHYLENE GLYCOL MONOHEXYL ETHER □ N-HEXYL CELLOSOLVE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 1/19/58

eye-rbt 1 mg MLD UCDS** 1/19/58

orl-rat LD50:830 mg/kg VHTODE 29,361,87

skn-rbt LD50:890 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Glycol ether compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Moderately toxic by ingestion and skin contact. A skin and eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. See also GLYCOL ETHERS.**HFT550 CAS: 25961-89-1 HR: 3
2-(2-(2-(HEXYLOXY)ETHOXY)ETHOXY)-
ETHANOL**mf: C₁₂H₂₆O₄ mw: 234.38**SYNS:** CHR 9 □ C6E3 □ ETHANOL, 2-(2-(2-(HEXYLOXY)-ETHOXY)ETHOXY)- □ SRI 10163-71 □ TRIETHYLENE GLYCOL MONOHEXYL ETHER**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:10 mL/kg NTIS** AD-A122-732

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**HFT600 CAS: 63918-91-2 HR: 3
2-HEXYLOXY-2-ETHOXYETHYL ETHER**mf: C₂₀H₄₂O₅ mw: 362.62**SYNS:** ETHER, BIS(2-HEXYLOXY-2-ETHOXY)ETHYL □ 2-HEXYLOXY-2-ETHYLOXYETHYL ETHER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:3730 µL/kg AIHAAP 30,470,69

skn-rbt LD50:6300 µL/kg AIHAAP 30,470,69

SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.**HFU500 CAS: 5289-93-0 HR: 3
4-HEXYLOXY-β-(1-PIPERIDYL)PROPIOPHEN-
ONE HYDROCHLORIDE**mf: C₂₀H₃₁NO₂•ClH mw: 353.98**SYN:** 4'-(HEXYLOXY)-3-PIPERIDINOPROPIOPHENONE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:52 mg/kg JPETAB 115,419,55

ivn-mus LD50:15 mg/kg COREAF 241,1523,55

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl.**HFU550 CAS: 77248-43-2 HR: 3
((HEXYLOXY)SULFINYL)METHYLCARBAMIC****ACID-2,3-DIHYDRO-2,2-DIMETHYL-7-
BENZOFURANYL ESTER**mf: C₁₈H₂₇NO₅S mw: 369.52**SYNS:** 2,3-DIHYDRO-2,2-DIMETHYLBENZOFURANYL 7-(METHYL)(HEXOXYSULFINYL)CARBAMATE □ CARBAMIC ACID, ((HEXYLOXY)SULFINYL)METHYL-, 2,3-DIHYDRO-2,2-DIMETHYL-7-BENZOFURANYL ESTER**TOXICITY DATA with REFERENCE:**

orl-mus LD50:280 mg/kg JAFCAU 29,567,1981

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**HFU600 CAS: 3226-32-2 HR: 2
2-HEXYLPHENOL**mf: C₁₂H₁₈O mw: 178.30**SYNS:** o-HEXYLPHENOL □ PHENOL, o-HEXYL- □ PHENOL, 2-HEXYL-(9CI)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1300 mg/kg JPETAB 53,218,35

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**HFU700 CAS: 64532-96-3 HR: 1
p-HEXYLPHENYL DIPHENYL PHOSPHATE**mf: C₂₄H₂₇O₄P mw: 410.48**SYN:** PHOSPHORIC ACID, 4-HEXYLPHENYL DIPHENYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>15,800 mg/kg TXAPA9 41,291,77

skn-rbt LD50:>7900 mg/kg TXAPA9 41,291,77

orl-ckn LD50:>10 g/kg TXAPA9 41,291,77

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits toxic vapors of PO_x.**HFV000 CAS: 67049-51-8 HR: 3
2-(1-HEXYL-3-PIPERIDYL)ETHYL ESTER,
BENZOIC ACID HYDROCHLORIDE**mf: C₂₀H₃₁NO₂•ClH mw: 353.98**TOXICITY DATA with REFERENCE:**

ivn-rat LDLo:32 mg/kg JACSAT 55,816,33

scu-mus LDLo:1000 mg/kg JACSAT 55,816,33

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also ESTERS.**HFV100 CAS: 2445-76-3 HR: 1
1-HEXYL PROPANOATE**mf: C₉H₁₈O₂ mw: 158.27**SYNS:** HEXYL PROPANOATE □ HEXYL PROPIONATE □ 1-HEXYL PROPIONATE □ PROPANOIC ACID, HEXYL ESTER □ PROPIONIC ACID, HEXYL ESTER (6CI,7CI,8CI)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FCTOD7 26,355,88

skn-rbt LD50:>5 g/kg FCTOD7 26,355,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

**HFV500 CAS: 136-77-6 HR: 3
HEXYLRESORCINOL**

mf: $C_{12}H_{18}O_2$ mw: 194.30

PROP: Colorless liquid to pale-yellow, heavy liquid becoming solid on standing at room temp; needles from benzene or pet ether. Pungent odor, sharp astringent taste. Bp: 179°, mp: 67.5–69°. Very sol in water; sol in benzene, ether, acetone, chloroform, alc, vegetable oils; sltly sol in pet ether.

SYNS: ASCARYL □ CAPROKOL □ CRYSTOIDS □ CYSTOIDS ANTHELMINTIC □ 4-HEXYL-1,3-BENZENEDIOL □ 4-HEXYL-1,3-DIHYDROXYBENZENE □ HEXYLRESORCINOL (GERMAN) □ 4-HEXYLRESORCINE □ p-HEXYLRESORCINOL □ 4-HEXYLRESORCINOL □ 4-n-HEXYLRESORCINOL □ NCI-C55787 □ S.T. 37 □ SUCRETS □ WORM-AGEN

TOXICITY DATA with REFERENCE:

eye-rbt 2 mg AEPPAE 219,119,53
dnr-esc 3 mg/disc MUREAV 188,111,87
mma-mus:lyms 5 µg/L NTPTR* NTP-TR-330,88
sce-ham:ovr 18 µg/L NTPTR* NTP-TR-330,88
orl-rat LD50:550 mg/kg JPETAB 53,198,35
orl-mus LD50:1040 mg/kg PHARAT 30,147,75
ipr-mus LDLo:50 mg/kg HBTXAC 5,148,59
scu-mus LDLo:750 mg/kg HBTXAC 5,148,59
orl-gpg LDLo:400 mg/kg PSEBAA 28,609,31

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. Moderately toxic by subcutaneous route. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. An eye irritant. Concentrated solutions can cause burns on the skin and mucous membranes in humans. An anthelmintic and topical antiseptic. When heated to decomposition it emits acrid smoke and fumes.

**HFV500 CAS: 41956-90-5 HR: 3
3-(5-(HEXYLTHIO)PENTYL)THIAZOLIDINE
HYDROCHLORIDE**

mf: $C_{14}H_{29}NS_2 \cdot ClH$ mw: 312.02

TOXICITY DATA with REFERENCE:

orl-mus LD50:500 mg/kg JMCAR 16,328,73
ipr-mus LD50:75 mg/kg JMCAR 16,328,73

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x , SO_x , and HCl.

**HFV500 CAS: 16930-96-4 HR: 2
HEXYL TILGLATE**

mf: $C_{11}H_{20}O_2$ mw: 184.31

PROP: Colorless liquid. Bp: 108°. Flash pt: 98.33° C. Insol in water.

SYNS: ENT 33,335 □ n-HEXYL trans-2-METHYL-2-BUTENOATE □ n-HEXYL TIGLATE □ 2-METHYL-2-BUTENOIC ACID, HEXYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,779,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. A combustible liquid. When heated to decomposition it emits acrid smoke and fumes.

**HFV500 CAS: 928-65-4 HR: 3
HEXYLTRICHLOROSILANE**

DOT: UN 1784

mf: $C_6H_{13}Cl_3Si$ mw: 219.63

PROP: A liquid. D: 1.11 @ 20°/4°, bp: 191–192°.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: A poison by ingestion and inhalation. Corrosive. A severe irritant to skin, eyes, and mucous membranes. When heated to decomposition or in reaction with water or steam it produces toxic and corrosive fumes of Cl^- and HCl. See also CHLOROSILANES.

**HFV500 CAS: 21961-08-0 HR: 2
n-HEXYL VINYL SULFONE**

mf: $C_8H_{16}O_2S$ mw: 176.30

TOXICITY DATA with REFERENCE:

orl-rat LDLo:570 mg/kg AIHAAP 30,470,69
skn-rbt LD50:840 mg/kg AIHAAP 30,470,69

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic fumes of SO_x . See also SULFONATES.

**HFV500 CAS: 3031-66-1 HR: 2
3-HEXYNE-2,5-DIOL**

mf: $C_6H_{10}O_2$ mw: 114.16

PROP: Liquid with yellowish color and pungent odor. Bp: 100° C. Completely sol in water.

SYN: HEXYNE-3-DIOL-2,5

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:500 mg/kg CBCCT* 4,378,52

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.

**HFZ000 CAS: 25898-71-9 HR: 3
HEXYNOL**

mf: $C_9H_{16}Cl_2OSi$ mw: 239.24

SYN: 1-(DICHLOROMETHYLDIMETHYLSILYL)-1-HEXYN-3-OL

TOXICITY DATA with REFERENCE:

orl-mus LD50:175 µg/kg 37ASAA 1,244,78
ivn-mus LD50:56 mg/kg CSLNX* NX#02569

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of Cl^- . See also ACETYLENE COMPOUNDS and ALCOHOLS.

HGA000 CAS: 105-31-7 HR: 3

1-HEXYN-3-OLmf: C₆H₁₀O mw: 98.16**TOXICITY DATA with REFERENCE:**

orl-rat LD50:126 mg/kg 38MKAJ 2C,4674,82
 orl-mus LD50:210 mg/kg THERAP 11,692,56
 ivn-mus LD50:56 mg/kg CSLNX* NX#00219

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS and ALCOHOLS.

**HGA050
HGG-12****HR: 3**mf: C₂₀H₁₉N₃O₃•2I•H₂O mw: 621.24

SYN: 3'-BENZOYL-2-FORMYL-1,1'-(OXYDIMETHYLENE)DI-PYRIDINIUM DIODIDE DIHYDRATE

TOXICITY DATA with REFERENCE:

ims-rat LD50:1179 mg/kg FAATDF 4(2, Pt 2),S106,84
 ipr-mus LD50:136 mg/kg FAATDF 1,193,81
 ims-dog LD50:60 mg/kg FAATDF 4(2, Pt 2),S106,84
 ims-gpg LD50:281 mg/kg FAATDF 4(2, Pt 2),S106,84

SAFETY PROFILE: Poison by intramuscular and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and I⁻. See also IODIDES.

**HGA100 CAS: 68917-43-1 HR: 1
HIBAWOOD OIL**

PROP: Yellow viscous liquid. Fresh sweet cedar woody aroma. Perfume uses.

SYN: OIL, HIBAWOOD

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,817,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

**HGA500 CAS: 14612-92-1 HR: 3
HIBERNON HYDROCHLORIDE**mf: C₁₆H₂₀BrN₃•ClH mw: 370.76

SYNS: 2-((p-BROMOBENZYL)(2-(DIMETHYLAMINO)ETHYL)-AMINO)PYRIDINE HYDROCHLORIDE □ N-p-BROMOBENZYL-N',N'-DIMETHYL-N-2-PYRIDYLETHYLENE-DIAMINE HYDROCHLORIDE □ N-p-BROMOBENZYL-N-α-PYRIDYL-N',N'-DIMETHYL-AETHYLENDIAMIN-HYDROCHLORIDE (GERMAN)

TOXICITY DATA with REFERENCE:

orl-mus LD50:600 mg/kg ARZNAD 14,940,64
 scu-mus LD50:165 mg/kg ARZNAD 14,940,64
 ivn-mus LD50:25,800 µg/kg ARZNAD 14,940,64

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Br⁻, HCl, and NO_x.

**HGA550 HR: 2
HIBISCUS MANIHOT Linn., extract**

PROP: Indian plant belonging to the family Malvaceae IJBA6 22,312,84

SYN: ABELMOSCHUS MANIHOT (Linn.) Medik., extract

TOXICITY DATA with REFERENCE:

ipr-mus LD50:562 mg/kg IJBA6 24,48,86

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

**HGA600 HR: D
HIBISCUS ROSA-SINENSIS, flower extract
SAFETY PROFILE:** Experimental reproductive effects.**HGB000 HR: 3
HICAL-2**

PROP: Contains 10% decaborane, and a mixture of monoethyldecaborane, diethyl decaborane and triethyldecaborane (NTIS** AD224006)

TOXICITY DATA with REFERENCE:

ihl-rat LC50:103 mg/m³/4H NTIS** AD224-006
 skn-rat LD50:502 mg/kg XAWPA2 CWL 2-10,58
 ipr-rat LD50:71 mg/kg XAWPA2 CWL 2-10,58
 ihl-mus LC50:90 mg/m³/4H NTIS** AD224-006
 skn-cat LD50:126 mg/kg XAWPA2 CWL 2-10,58
 skn-rbt LD50:104 mg/kg XAWPA2 CWL 2-10,58
 ivn-rbt LD50:4 mg/kg XAWPA2 CWL 2-10,58
 skn-gpg LD50:251 mg/kg XAWPA2 CWL 2-10,58
 ipr-gpg LD50:40 mg/kg XAWPA2 CWL 2-10,58

SAFETY PROFILE: Poison by inhalation, skin contact, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic fumes of BO_x. See also individual components.

**HGB100 HR: D
HIGH-FRUCTOSE CORN SYRUP**

PROP: Water-white to light yellow viscous liquid; sweet taste. Misc with water.

SYN: CORN SYRUP, HIGH-FRUCTOSE

SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

**HGB200 CAS: 133-17-5 HR: 2
HIPPODIN**mf: C₉H₈INO₃•Na mw: 328.07

PROP: Dihydrate, crystals. Freely sol in water; sol in alc and in dil solns of alkalies.

SYNS: HIPPURAN □ IODAIRAL □ N-(2-IODOBENZOYL)-GLYCIN MONOSODIUM SALT (9CI) □ IODOHIPURA □ IODOHIPPURATE SODIUM □ o-IODOHIPPURATE SODIUM □ JODAIROL □ o-JODHIPPURSAEURE NATRIUM (GERMAN) □ MEDOPAQUE □ ORTHOIODIN □ RENUMBRAL □ SODIUM IODOHIPPURATE □ SODIUM o-IODOHIPPURATE □ UROCONTRAST

TOXICITY DATA with REFERENCE:

ivn-rat LD50:4000 mg/kg JPETAB 116,394,56
 ivn-mus LD50:3800 mg/kg MECHAN 6,290,63

SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic fumes of I⁻, Na₂O, NO_x, and Na₂O.

**HGB300 CAS: 495-69-2 HR: 2
HIPPURIC ACID**

mf: $C_9H_9NO_3$ mw: 179.19

PROP: Colorless crystals with weak smell. Mp: 187–191°. Sol in water.

SYNS: ACIDO IPPURICO □ BENZAMIDOACETIC ACID □ BENZOYLGLYCINE □ GLYCINE, N-BENZOYL- □ PHENYLCARBONYLAMINOACETIC ACID

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1500 mg/kg BCFAAI 112,53,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x .

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: (analysis in urine) see Hippuric Acid in Urine, 8300.

HGB500 CAS: 1403-74-3 HR: 3
HIRSUTIC ACID N

TOXICITY DATA with REFERENCE:

orl-mus LD50:1000 mg/kg 85GDA2 6,109,81

ivn-mus LDLo:25 mg/kg 85GDA2 6,109,81

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion.

HGC000 CAS: 1936-15-8 HR: 2
HISPAICID FAST ORANGE 2G

mf: $C_{16}H_{10}N_2O_7S_2 \cdot 2Na$ mw: 452.38

PROP: Orange colored hygroscopic powder. Sol in H_2O ; sltly sol in EtOH.

SYNS: ACIDAL FAST ORANGE □ ACID FAST ORANGE EGG □ ACID LEATHER ORANGE PGW □ ACID LIGHT ORANGE G □ ACID ORANGE 10 □ ACILAN ORANGE GX □ APOCID ORANGE 2G □ ATUL ACID CRYSTAL ORANGE G □ BRASILAN ORANGE 2G □ BUCACID FAST ORANGE G □ CALCOCID FAST LIGHT ORANGE 2G □ CERTICOL ORANGE GS □ CETIL LIGHT ORANGE GG □ C.I. 27 □ C.I. ACID ORANGE 10 □ C.I. FOOD ORANGE 4 □ CRYSTAL ORANGE 2G □ D&C ORANGE No. 3 □ ENIACID LIGHT ORANGE G □ ERIO FAST ORANGE AS □ FAST LIGHT ORANGE GA □ HEXACOL ORANGE GG CRYSTALS □ HIDACID FAST ORANGE G □ 7-HYDROXY-8-(PHENYLAZO)-1,3-NAPHTHALENEDISULFONIC ACID, DISODIUM SALT □ 7-HYDROXY-8-(PHENYLAZO)-1,3-NAPHTHALENEDISULPHONIC ACID, DISODIUM SALT □ INK ORANGE JSN □ INTRACID FAST ORANGE G □ JAVA ORANGE 2G □ KITON FAST ORANGE G □ NAPHTHALENE FAST ORANGE 2GS □ NCI-C53838 □ NEKLACID FAST ORANGE 2G □ ORANGE #10 □ ORANGE G (biological stain) □ ORANGE G DYE □ ORANGE G (indicator) □ ORANZ G (POLISH) □ 1-PHENYLAZO-2-NAPHTHOL-6,8-DISULFONIC ACID, DISODIUM SALT □ 1-PHENYLAZO-2-NAPHTHOL-6,8-DISULPHONIC ACID, DISODIUM SALT □ SCHULTZ No. 39 □ SOLAR LIGHT ORANGE GX □ STANDACOL ORANGE G □ SULFACID LIGHT ORANGE J □ TERTRACID LIGHT ORANGE G □ UNITERTRACID LIGHT ORANGE G □ VENDACID LIGHT ORANGE 2G □ WOOL ORANGE 2G □ XYLENE FAST ORANGE G

TOXICITY DATA with REFERENCE:

pic-esc 100 mmol/L MDMIAZ 31,11,79

cyt-ham:ovr 20 μ mol/L/5H-C ENMUDM 1,27,79

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence

IMEMDT 8,181,75. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen. Mutation data reported. Used as a drug and cosmetic colorant. When heated to decomposition it emits very toxic SO_x , Na_2O , and NO_x .

HGC400 HR: 2
HISTAGLOBIN

PROP: White powder.

TOXICITY DATA with REFERENCE:

ivn-rat LD50:6110 mg/kg KSRNAM 13,89,79

scu-mus LD50:11,960 mg/kg KSRNAM 13,89,79

ivn-mus LD50:3320 mg/kg KSRNAM 13,89,79

SAFETY PROFILE: Moderately toxic by intravenous route. Experimental reproductive effects.

HGC500 CAS: 569-65-3 HR: 3
HISTAMETHIZINE

mf: $C_{25}H_{27}ClN_2$ mw: 390.99

PROP: Bp: 230° @ 2 mm.

SYNS: ANCOLAN □ BONADETTES □ BONADOXIN □ BONAMINE □ CALMONAL □ CHICLIDA □ 1-(p-CHLOROBENZHYDRYL)-4-(m-METHYLBENZYL)DIETHYLENE-DIAMINE □ 1-p-CHLOROBENZHYDRYL-4-m-METHYLBENZYLPIPERAZINE □ 1-(p-CHLORO- α -PHENYLBENZYL)-4-(m-METHYLBENZYL)PIPERAZINE □ HISTAMETHINE □ HISTAMETIZINE □ HISTAMETIZYNE □ ITINEROL □ LONGIFENE □ MAREX □ MECLIZINE □ MECLOZINE □ NAVICALM □ NEO-ISTAFENE □ NEO-SUPRIMAL □ NEO-SUPRIMEL □ PARACHLORAMINE □ PEREMESIN □ POSTAFEN □ SABARI □ SEA-LEGS □ SIGURAN □ SUBARI □ SUPRIMAL □ TRAVELON □ UCB 170 □ VIBAZINE □ VOMISSELS

TOXICITY DATA with REFERENCE:

orl-rat LD50:1750 mg/kg PSDTAP 9,134,68

ivn-rat LD50:75 mg/kg MEXPAG 4,145,61

orl-mus LD50:1650 mg/kg CLDND*

ims-mus LD50:625 mg/kg CLDND*

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous route. Moderate toxicity by ingestion and intramuscular routes. Human reproductive effects by an unspecified route: reduced viability of newborn. Experimental teratogenic and reproductive effects. An antihistamine. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x .

HGD000 CAS: 51-45-6 HR: 3
HISTAMINE

mf: $C_5H_9N_3$ mw: 111.17

PROP: White crystals. Mp: 86°, bp: 167° @ 0.8 mm. Very sol in water; sol in hot chloroform; insol in ether.

SYNS: β -AMINOETHYLGLYOXALINE □ β -AMINOETHYL-IMIDAZOLE □ 4-(2-AMINOETHYL)IMIDAZOLE □ ERAMIN □ ERGAMINE □ ERGOTIDINE □ FREE HISTAMINE □ 1H-IMIDAZOLE-4-ETHANAMINE □ IMIDAZOLE-4-ETHYLAMINE □ 4-IMIDAZOLEETHYLAMINE □ 5-IMIDAZOLEETHYLAMINE □ β -IMIDAZOLYL-4-ETHYLAMINE □ 2-(4-IMIDAZOLYL)-ETHYLAMINE □ 2-IMIDAZOL-4-YL-ETHYLAMINE □ THERAMINE

TOXICITY DATA with REFERENCE:

dni-hmn:oth 2 µmol/L JIDEAE 65,400,75
 cyt-mus:emb 200 mg/L DANKAS 282,173,85
 scu-rat LDLo:250 mg/kg AEPPAE 185,461,37
 ivn-rat LD50:630 mg/kg KSRNAM 13,89,79
 ipr-mus LD50:725 mg/kg BJPCAL 17,137,61
 scu-mus LD50:2500 mg/kg KSRNAM 13,89,79
 ivn-mus LD50:385 mg/kg KSRNAM 13,89,79
 ivn-dog LD50:7 mg/kg IVEJAC 57,31,80
 scu-cat LDLo:34 mg/kg AEPPAE 185,461,37
 ivn-rbt LDLo:100 mg/kg HBAMAK 4,1289,35
 ivn-gpg LD50:180 µg/kg JPETAB 95,45,49

SAFETY PROFILE: A poison by intravenous and subcutaneous routes. Moderately toxic by intraperitoneal route. Experimental reproductive effects. Human mutation data reported. A neurotransmitter. The most potent capillary dilator known. Ingestion or inhalation produces the following effects: flushing followed by pallor, dizziness, fainting, fall in blood pressure, headache, rapid, weak pulse. Allergic effects on skin (hives) may occur. When heated to decomposition it emits toxic fumes of NO_x.

HGD500 CAS: 56-92-8 HR: 3
HISTAMINE DICHLORIDE

mf: C₅H₉N₃•2ClH mw: 184.09

PROP: Prisms of aqueous ethyl alc. Mp: 239–246° (decomp). Sol in water, methanol; sltly sol in alc; insol in ether.

SYN: HISTAMINE DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:2534 mg/kg ARTODN 2,371,79
 ipr-mus LD50:184 mg/kg YKKZAJ 97,1117,77
 scu-mus LDLo:1300 mg/kg AEPPAE 166,437,32
 ivn-mus LD50:370 mg/kg ATSUDG 2,371,79
 ipr-rbt LDLo:200 mg/kg JIDIAQ 42,473,28
 ipr-gpg LD50:4602 µg/kg JPETAB 77,54,43
 scu-gpg LD50:1250 µg/kg TXAPA9 8,339,66
 ivn-gpg LD50:294 µg/kg JAPMA8 33,80,44
 par-gpg LDLo:570 µg/kg AEPPAE 211,328,50

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by subcutaneous, intravenous, intraperitoneal, and parenteral routes. Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also HISTAMINE.

HGE000 CAS: 51-74-1 HR: 3
HISTAMINE DIPHOSPHATE

mf: C₅H₉N₃•2H₃O₄P mw: 307.17

PROP: Powder.

SYNS: 4-(2-AMINOETHYL)IMIDAZOLE BIS(DIHYDROGEN PHOSPHATE) □ 4-(2-AMINOETHYL)IMIDAZOLE DI-ACID PHOSPHATE □ HISTAMINE ACID PHOSPHATE □ HISTAMINE PHOSPHATE (1:2) □ 1H-IMIDAZOLE-4-ETHANAMINE PHOSPHATE (1:2)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1781 mg/kg JPETAB 119,444,57
 orl-mus LD50:807 mg/kg PSEBAA 122,685,66
 ipr-mus LD50:913 mg/kg JPMSAE 59,1659,70
 ivn-mus LD50:333 mg/kg PSEBAA 90,726,55

ivn-rbt LD50:2763 µg/kg JPETAB 75,299,42
 ivn-gpg LD50:608 µg/kg JPMSAE 57,1543,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A deadly poison by intravenous and parenteral routes. Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x and PO_x.

HGE500 HR: 2
HISTAMINE HYDROCHLORIDE

mf: C₅H₉N₃•xClH mw: 366.39

PROP: Colorless, corrosive, nonflammable gas with a pungent odor. Fumes in air. Mp: -114°, bp: -85°. Dissolves in H₂O to give a strong, highly-corrosive acid. Very sol in H₂O; sol in MeOH, EtOH, and Et₂O.

SYNS: 4-AMINOETHYLIMIDAZOLE HYDROCHLORIDE □ CHLORHYDRATE d'HISTAMINE (FRENCH)

TOXICITY DATA with REFERENCE:

scu-mus TDLo:1140 mg/kg/28W-I:ETA BAFEAG 36,305,49

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also HISTAMINE.

HGE700 CAS: 71-00-1 HR: D
HISTIDINE

mf: C₆H₉N₃O₂ mw: 155.18

PROP: l-Histidine, the natural form. White needles, plates, or crystalline powder; sltly bitter taste. Decomp 287° (softens at 277°). Solubility in water at 25°: 41.9 g/L. Sol in water; very sltly sol in alc; insol in ether.

SYNS: l-α-AMINO-4(OR 5)-IMIDAZOLEPROPIONIC ACID □ GLYOXALINE-5-ALANINE □ l-HISTIDINE (FCC)

TOXICITY DATA with REFERENCE:

dni-hmn:oth 1 mmol/L JIDEAE 65,400,75
 cyt-ham:lng 2500 ppm TOLED5 28,117,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HGE750 CAS: 645-35-2 HR: 2
I-HISTIDINE HYDROCHLORIDE

mf: C₆H₉N₃O₂•ClH mw: 191.64

SYN: HISTIDINE, MONOHYDROCHLORIDE, l-

TOXICITY DATA with REFERENCE:

ipr-rat LD50:4407 mg/kg ABBIA4 64,319,1956

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and HCl.

HGE800 HR: D
HISTIDINE MONOHYDROCHLORIDE

mf: C₆H₉N₃O₂•HCl•H₂O mw: 209.63

PROP: White needles, plates, or crystalline powder; sltly bitter taste. Decomp 250°. Sol in water; insol in alc, ether.

SYNS: 1- α -AMINO-4(OR 5)-IMIDAZOLEPROPIONIC ACID
MONOHYDROCHLORIDE \square GLYOXALINE-5-ALANINE
MONOHYDROCHLORIDE

SAFETY PROFILE: When heated to decomposition it emits toxic fumes of NO_x .

HGE820 CAS: 5638-76-6 HR: 3
 β -HISTINE

mf: $\text{C}_8\text{H}_{12}\text{N}_2$ mw: 136.22

SYNS: BETAHISTINE \square 2-(2-

(METHYLAMINO)ETHYL)PYRIDINE \square N-METHYL-2-PYRIDINEETHANAMINE \square N-METHYL-N- β -(2-PYRIDYL)ETHYL-AMINE \square 2-PYRIDINEETHANAMINE, N-METHYL-(9CI) \square PYRIDINE, 2-(2-(METHYLAMINO)ETHYL)- \square (2-(2-PYRIDYL)-ETHYL)METHYLAMINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:6110 mg/kg PBFMAV 13,63,85

ipr-rat LD50:980 mg/kg PBFMAV 13,63,85

orl-mus LD50:2920 mg/kg PBFMAV 13,63,85

ipr-mus LD50:320 mg/kg PBFMAV 13,63,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x .

HGE900 CAS: 34433-31-3 HR: 3
HJ 6

mf: $\text{C}_{14}\text{H}_{16}\text{N}_4\text{O}_3 \cdot 2\text{Cl}$ mw: 359.24

SYNS: (((4-(AMINOCARBONYL)PYRIDINO)METHOXY)-2-((HYDROXYIMINO)METHYL)PYRIDINIUM DICHLORIDE \square 1-(((4-(AMINOCARBONYL)PYRIDINO)METHOXY)METHYL)-2-((HYDROXYIMINO)METHYL) PYRIDINIUM 2Cl \square 4'-CARBAMOYL-2-FORMYL-1,1'-(OXYDIMETHYLENE)DI-PYRIDINIUM-DICHLORIDE-2-OXIME \square HI-6

TOXICITY DATA with REFERENCE:

ims-rat LD50:819 mg/kg FAATDF 4(2, Pt 2),S106,84

ipr-mus LD50:514 mg/kg FAATDF 1,193,81

ivn-mus LD50:168 mg/kg FAATDF 2,88,82

ims-mus LD50:451 mg/kg ATXKA8 26,293,70

ims-dog LD50:333 mg/kg FAATDF 4(2, Pt 2),S106,84

ims-gpg LD50:476 mg/kg FAATDF 4(2, Pt 2),S106,84

SAFETY PROFILE: Poison by intramuscular and intravenous routes. Moderately toxic by intraperitoneal routes. When heated to decomposition it emits toxic fumes of Cl^- and NO_x .

HGE925 CAS: 8004-86-2 HR: 1
HOFMAN'S VIOLET

SYNS: C.I. 42530 \square DAHLIA \square RED VIOLET WASHABLE \square VIOLET K \square VIOLET R

TOXICITY DATA with REFERENCE:

skn-rat LD50:9 g/kg GNAMAP 14,152,75

SAFETY PROFILE: Low toxicity by skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HGF000 CAS: 8022-91-1 HR: 2
HO LEAF OIL

PROP: Chief constituent is Linalool, found in tree *Cinnamomum camphora* L. (FCTXAV 12,807,74).

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,917,74

orl-rat LD50:3270 mg/kg FCTXAV 12,807,74

skn-rbt LD50:>5 g/kg FCTXAV 12,917,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and fumes.

HGF100 HR: 2
HOLLY

PROP: Evergreen tree with stiff leaves. Most have bright red berries but some trees may have yellow berries. They are native to the eastern United States from the Atlantic to Texas. Some are cultivated in the Pacific coast states and British Columbia.

SYNS: AMERICAN HOLLY \square APPALACHIAN TEA \square CAROLINA TEA \square CASSENA \square DEER BERRY \square EMETIC HOLLY \square ENGLISH HOLLY \square EVERGREEN CASSENA \square EUROPEAN HOLLY \square ILEX AQUIFOLIUM \square ILEX OPACA \square ILEX VOMITORIA \square INDIAN BLACK DRINK \square OREGON HOLLY \square YAUPON

SAFETY PROFILE: The berries contain poisonous saponins. Ingestion may cause nausea, severe vomiting, and diarrhea. See also SAPONIN.

HGF500 HR: 2
HOLMIUM

af: Ho aw: 164.93

PROP: Bright metallic luster; soft, malleable metal; stable in dry air; oxidizes rapidly in moist air. Bp: 2720°, d: 8.78 @ 25°, vap press: 2 mm @ 1630°.

SAFETY PROFILE: It may be an anticoagulant like the lanthanides. The toxicity (intravenous administration) of the salts decreases as follows: nitrate >sulfate >3-sulfoisonicotinate >acetate >propionate >chloride. Can react violently with air or halogens. See also RARE EARTHS.

HGG000 CAS: 10138-62-2 HR: 3
HOLMIUM CHLORIDE

mf: Cl_3Ho mw: 271.28

PROP: Hygroscopic, bright yellow, crystalline solid. Mp: 718°. Sol in water.

TOXICITY DATA with REFERENCE:

orl-mus LD50:5165 mg/kg EQSSDX 1,1,75

ipr-mus LD50:312 mg/kg AEHLAU 5,437,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Mildly toxic by ingestion. When heated to decomposition it emits highly toxic fumes of Cl^- . See also HOLMIUM and RARE EARTHS.

HGG500 CAS: 13455-50-0 HR: 3
HOLMIUM CITRATE

mf: $\text{C}_6\text{H}_5\text{O}_7 \cdot \text{Ho}$ mw: 354.04

TOXICITY DATA with REFERENCE:

ipr-rat LD50:117 mg/kg AEHLAU 5,437,62

ipr-gpg LD50:63 mg/kg AEHLAU 5,437,62

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes. See also HOLMIUM and RARE EARTHS.

**HGH000 CAS: 35725-31-6 HR: 3
HOLMIUM(III) NITRATE, HEXAHYDRATE (1:3:6)**

mf: $\text{N}_3\text{O}_9 \cdot \text{Ho} \cdot 6\text{H}_2\text{O}$ mw: 459.08

SYN: NITRIC ACID, HOLMIUM(3+) SALT, HEXAHYDRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3000 mg/kg TXAPA9 5,750,63

ipr-rat LD50:270 mg/kg TXAPA9 5,750,63

ipr-mus LD50:320 mg/kg TXAPA9 5,750,63

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x . See also HOLMIUM and RARE EARTHS.

**HGH100 CAS: 10168-82-8 HR: 3
HOLMIUM TRINITRATE**

mf: HoN_3O_9 mw: 350.96

PROP: Hygroscopic yellow solid. Sol in H_2O and EtOH.

SYN: HOLMIUM NITRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2313 mg/kg EQSSDX 1,1,75

ipr-rat LD50:208 mg/kg EQSSDX 1,1,75

ipr-mus LD50:247 mg/kg EQSSDX 1,1,75

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x . See also HOLMIUM, RARE EARTHS, and NITRATES.

**HGH150 CAS: 51-56-9 HR: 3
HOMATROPINE HYDROBROMIDE**

mf: $\text{C}_{16}\text{H}_{21}\text{NO}_3 \cdot \text{BrH}$ mw: 356.30

SYNS: (\pm)-HOMATROPINE BROMIDE \square 1- α -H,5- α -H-TROPAN-3- α -OL, MANDELATE (ester), HYDROBROMIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:154 mg/kg DRUGAY 6,789,82

ivn-mus LD50:107 mg/kg JPETAB 96,1,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x and Br^- .

**HGH200 HR: 2
#2 HOME HEATING OILS**

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 52MLA2 1,1,83

eye-rbt 100 mg/30S MLD 52MLA2 1,1,83

orl-rat LD50:14,500 mg/kg 52MLA2 1,1,83

SAFETY PROFILE: Mildly toxic by ingestion. A skin and eye irritant. Combustible when exposed to heat and flame; can react vigorously with oxidizers.

**HGI000 CAS: 602-52-8 HR: 3
HOMIDIUM CHLORIDE**

mf: $\text{C}_{21}\text{H}_{20}\text{N}_3 \cdot \text{Cl}$ mw: 349.89

PROP: Dark red cryst powder. Sol in 5 parts water at room temp.

SYNS: BABIDIUM CHLORIDE \square 3,8-DIAMINO-5-ETHYL-6-PHENYLPHENANTHRIDINIUM CHLORIDE \square 2,7-DIAMINO-9-PHENYL-10-ETHYLPHENANTHRIDINIUM CHLORIDE \square ETHIDIUM CHLORIDE \square NOVIDIUM CHLORIDE \square NSC-84423

TOXICITY DATA with REFERENCE:

ivn-rat LD50:21 mg/kg NCINS* -,107,65

scu-mus LD50:56,730 $\mu\text{g}/\text{kg}$ NCISP* JAN86

ivn-mus LD50:14 mg/kg NCINS* -,107,65

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and Cl^- .

**HGI050 CAS: 17132-74-0 HR: 3
HOMOAROMOLINE**

mf: $\text{C}_{37}\text{H}_{40}\text{N}_2\text{O}_6$ mw: 608.79

SYNS: (+)-HOMOAROMOLINE \square HOMOTHALICRINE \square OXYACANTHAN-7-OL, 6,6',12'-TRIMETHOXY-2,2'-DIMETHYL- \square THALRUGOSAMINE \square (+)-THALRUGOSAMINE \square 6,6',12'-TRIMETHOXY-2,2'-DIMETHYLOXYACANTHAN-7-OL

TOXICITY DATA with REFERENCE:

ipr-rat LD50:24,500 $\mu\text{g}/\text{kg}$ YHHPAL 15,513,1980

ipr-mus LD50:6,370 $\mu\text{g}/\text{kg}$ YHHPAL 15,513,1980

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x .

**HGI100 CAS: 848-53-3 HR: 3
HOMOCHLOROCYCLIZINE**

mf: $\text{C}_{19}\text{H}_{23}\text{ClN}_2$ mw: 314.89

SYNS: CUROSAMIN \square 1H-1,4-DIAZEPINE, HEXAHYDRO-1-(p-CHLORO- α -PHENYLBENZYL)-4-METHYL- \square HOMOCHLOROCYCLIZINE \square HOMOCLOMINE \square HOMODAMON \square HOMO-RESTAR \square LYSILAN \square SA 97 \square SANKUMIN \square WICRON

TOXICITY DATA with REFERENCE:

orl-rat LD50:490 mg/kg YAKUD5 22,375,80

ipr-rat LD50:81 mg/kg YAKUD5 22,375,80

ivn-rat LD50:36 mg/kg YAKUD5 22,375,80

orl-mus LD50:343 mg/kg YAKUD5 22,375,80

ipr-mus LD50:98 mg/kg YKKZAJ 92,1339,72

scu-mus LD50:164 mg/kg YAKUD5 22,375,80

ivn-mus LD50:47,800 $\mu\text{g}/\text{kg}$ YAKUD5 22,375,80

orl-dog LD50:>200 mg/kg OYYAA2 1,168,67

ipr-dog LD50:50 mg/kg OYYAA2 1,168,67

ivn-dog LD50:20 mg/kg OYYAA2 1,168,67

orl-gpg LD50:370 mg/kg OYYAA2 1,168,67

ipr-gpg LD50:76 mg/kg OYYAA2 1,168,67

ivn-gpg LD50:19 mg/kg OYYAA2 1,168,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x and Cl^- .

**HGI200 CAS: 24342-55-0 HR: 3
HOMOCHLOROCYCLIZINE HYDROCHLORIDE**

mf: $\text{C}_{19}\text{H}_{23}\text{ClN}_2 \cdot x\text{ClH}$ mw: 570.11

SYNS: 1-((p-CHLORO- α -PHENYLBENZYL)HEXAHYDRO-4-METHYL)-1H-1,4-DIAZEPINE HYDROCHLORIDE \square 1-((4-CHLOROPHENYL)PHENYLMETHYL)HEXAHYDRO-4-METHYL-1H-1,4-DIAZEPINE HYDROCHLORIDE (9CI) \square HOMOCHLOROCYCLIZINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:490 mg/kg NIIRDN 6,790,82
 ivn-rat LD50:36 mg/kg NIIRDN 6,790,82
 orl-mus LD50:390 mg/kg NIIRDN 6,790,82
 scu-mus LD50:135 mg/kg NIIRDN 6,790,82
 ivn-mus LD50:47 mg/kg NIIRDN 6,790,82
 ivn-dog LD50:20 mg/kg NIIRDN 6,790,82
 ivn-rbt LD50:20 mg/kg NIIRDN 6,790,82

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

HGI300 CAS: 454-29-5 HR: 2
dl-HOMOCYSTEINE

mf: C₄H₉NO₂S mw: 135.20

SYNS: dl-2-AMINO-4-MERCAPTOBUTYRIC ACID □ BUTYRIC ACID, 2-AMINO-4-MERCAPTO-, dl- (9CI) □ (+)-HOMOCYSTEINE □ USAF B-12

TOXICITY DATA with REFERENCE:

pic-esc 125 mg/L APMBAY 12,234,1964
 ipr-mus LD50:500 mg/kg NTIS** AD277-689
 ivn-mus LD50:770 mg/kg YKKZAJ 89,1138,1969

SAFETY PROFILE: Moderately toxic by intraperitoneal and intravenous route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

HGI525 CAS: 3566-25-4 HR: D
HOMOFOLATE

mf: C₂₀H₂₁N₇O₆ mw: 455.48

SYNS: HOMOFOLIC ACID □ 9-METHYLFOLIC ACID

TOXICITY DATA with REFERENCE:

dns-mus-scu 300 mg/kg LIFSAC 14,1541,74
 orl-rat TDLo:12,800 µg/kg (8-9D preg):REP TXAPA9 10,413,67
 orl-mus TDLo:400 mg/kg (8D preg):TER NCIMAV 2,41,60

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HGI575 CAS: 26833-87-4 HR: 3
HOMOHARRINGTONINE

mf: C₂₉H₃₉NO₉ mw: 545.69

PROP: A solid. Mp: 144–146°.

SYNS: (3(R))-CEPHALOTAXINE-4-METHYL-2-HYDROXY-2-(4-HYDROXY-4-METHYLPENTYL)BUTANEDIOATE (ESTER) □ NSC-141633

TOXICITY DATA with REFERENCE:

orl-mus LD50:7456 µg/kg NCISP* JAN86
 ipr-mus LD50:1960 µg/kg CMJODS 92,175,79
 scu-mus LD50:3948 µg/kg NCISP* JAN86
 ivn-mus LD50:6879 µg/kg NCISP* JAN86

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

HGI585 CAS: 61931-80-4 HR: 1
HOMOLINALYL ACETATE

mf: C₁₃H₂₂O₂ mw: 210.35

SYNS: 3,7-DIMETHYL-1,6-NONADIEN-3-YL ACETATE □ ETHYL LINALYL ACETATE □ 1,6-NONADIEN-3-OL, 3,7-DIMETHYL-, ACETATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTOD7 20,681,82
 orl-rat LD50:>5 g/kg FCTOD7 20,681,82
 skn-rbt LD50:>5 g/kg FCTOD7 20,681,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

HGI600 CAS: 1516-27-4 HR: 3
HOMONEURINE CHLORIDE

mf: C₆H₁₄N•Cl mw: 135.66

SYNS: ALLYLTRIMETHYLAMMONIUM CHLORIDE □ AMMONIUM, ALLYLTRIMETHYL-, CHLORIDE

TOXICITY DATA with REFERENCE:

scu-mus LDLo:180 mg/kg JPETAB 6,477,14/15

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

HGI700 CAS: 19882-03-2 HR: 1
18-HOMO-OESTRIOL

mf: C₁₉H₂₆O₃ mw: 302.45

SYNS: GONA-1,3,5(10)-TRIENE-3,16-α-17-β-TRIOL, 13-ETHYL- □ GONA-1,3,5(10)-TRIENE-3,16,17-TRIOL, 13-ETHYL-, (16-α-17-β)-(9CI) □ 18-HOMO-ESTRIOL □ WY-5090

TOXICITY DATA with REFERENCE:

orl-rat LD50:5010 mg/kg TXAPA9 18,185,71
 orl-mus LD50:5010 mg/kg TXAPA9 18,185,71

SAFETY PROFILE: Mildly toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

HGI900 CAS: 505-66-8 HR: 3
HOMOPIPERAZINE

mf: C₅H₁₂N₂ mw: 100.19

PROP: Hygroscopic solid. Mp: 38–40°, bp: 169°, flash p: 148°F.

SYNS: 1,4-DIAZACYCLOHEPTANE □ 1H-1,4-DIAZEPINE, HEXAHYDRO- □ HEXAHYDRO-1,4-DIAZEPINE □ TRIMETHYLENEETHYLENEDIAMINE

TOXICITY DATA with REFERENCE:

skn-rbt 100 µg/24H open AIHAAP 23,95,62
 skn-rbt 5 mg/24H SEV 85JCAE -,882,86
 eye-rbt 250 µg/24H SEV 85JCAE -,882,86
 orl-rat LD50:2830 mg/kg AIHAAP 23,95,62
 skn-rbt LD50:1050 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A corrosive and severe skin and eye irritant. Flammable liquid when exposed to heat, sparks, or flame. When heated to decomposition it emits toxic fumes of NO_x.

HGI980 CAS: 102-32-9 HR: D
HOMOPROTOCOLATECHUIC ACIDmf: C₈H₈O₄ mw: 168.16**SYNS:** ACETIC ACID, (3,4-DIHYDROXYPHENYL)- □ BENZ-ENEACETIC ACID, 3,4-DIHYDROXY- □ 3,4-DIHYDROXYBENZENE-ACETIC ACID □ DIHYDROXY-PHENYLACETIC ACID □ 3,4-DIHYDROXY-PHENYLACETIC ACID □ DOPAC □ DOPACETIC ACID □ BA 2773**TOXICITY DATA with REFERENCE:**mic-esc 750 µLg/plate MUREAV 467,41,2000
dni-hmn-lym 1 mmol/L BCPA6 29,1275,1980
cyt-ham-ovr 100 mg/L CALEDQ 14,251,1981**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HGK500 CAS: 117-51-1 HR: 3**
3-HOMOTETRA HYDRO CANNIBINOLmf: C₂₂H₃₂O₂ mw: 328.54**SYNS:** 3-HEXYL-7,8,9,10-TETRAHYDRO-6,6,9-TRIMETHYL-6H-DIBENZO(B,D)PYRAN-1-OL □ 1-HYDROXY-3-N-HEXYL-6,6,9-TRIMETHYL-7,8,9,10-TETRAHYDRO-6-DIBENZOPYRAN □ PARAHEXYL □ PYRAHEXYL □ SYNHEXYL**TOXICITY DATA with REFERENCE:**ivn-mus LD50:170 mg/kg JPETAB 88,154,46
orl-dog LDLo:930 mg/kg JPETAB 88,154,46
ivn-dog LD50:223 mg/kg JPETAB 88,154,46
ivn-rbt LD50:143 mg/kg JPETAB 88,154,46
ipr-gpg LD50:850 mg/kg JPETAB 88,154,46**SAFETY PROFILE:** A poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and fumes.**HGK550 CAS: 87-00-3 HR: 3**
HOMOTROPINEmf: C₁₆H₂₁NO₃ mw: 275.38**SYNS:** HOMATROPIN □ HOMATROPINE □ HOMOATROPINE □ MANDELIC ACID, 3d-TROPANYL ESTER □ MANDELYL-TROPEINE □ MANDELYLTROPEINE □ 1-α-H,5-α-H-TROPAN-3-α-OL, MANDELATE (ESTER) □ TROPINE, MANDELATE (ESTER)**TOXICITY DATA with REFERENCE:**ipr-rat LDLo:180 mg/kg TXAPA9 1,156,1959
orl-mus LD50:1307 mg/kg FRXXBL #2035763
ipr-mus LD50:370 mg/kg FRXXBL #2035763
scu-mus LD50:1800 mg/kg FRXXBL #2035763**SAFETY PROFILE:** A poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x.**HGK600 CAS: 93-40-3 HR: 3**
HOMOVERATRIC ACIDmf: C₁₀H₁₂O₄ mw: 196.22**SYNS:** ACETIC ACID, (3,4-DIMETHOXYPHENYL)- □ BENZENEACETIC ACID, 3,4-DIMETHOXY-(9CI) □ 3,4-DIMETHOXYBENZENEACETIC ACID □ 3,4-DIMETHOXYPHENYL ACETIC ACID**TOXICITY DATA with REFERENCE:**dni-hmn:lyms 1 mmol/L BCPA6 29,1275,80
ivn-mus LD50:180 mg/kg CSLNX# NX#04366**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HGK725 CAS: 8007-04-3 HR: 2**
HOP EXTRACT EI**SYN:** HOPFENEXTRAKTE EI**TOXICITY DATA with REFERENCE:**orl-rat LD50:2700 mg/kg ARZNAD 17,79,67
orl-mus LD50:3500 mg/kg ARZNAD 17,79,67**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**HGK750 HR: D**
HOP EXTRACT, MODIFIED**PROP:** An extract of hops by a variety of organic solvent extractions.**SYN:** MODIFIED HOP EXTRACT.**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**HGK800 HR: D**
HOPS OIL**PROP:** From steam distillation of cones from female *Humulus lupulus* L. or *Humulus americanus* Nutt. (Fam. Moraceae). Yellow liquid; aromatic odor. D: 0.825–0.926, refr index: 1.470–1.494 @ 20°. Sol in fixed oils, mineral oil; insol in glycerin, propylene glycol.**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**HGL575 HR: 1**
HORSE CHESTNUT**PROP:** A large flowering tree found in temperate North America in an area bounded by the Gulf coast, California, and Newfoundland. The seeds are a waxy brown with a white spot and form in pods.**SYNS:** A. CALIFORNICA □ AESCULUS (VARIOUS SPECIES) □ A. FLAVA □ A. GLABRA □ A. HIPPOCASTANUM □ BONGAY □ BUCKEYE □ CONQUERORS □ FISH POISON □ MARRONNIER (CANADA)**SAFETY PROFILE:** The nuts and twigs contain escin, a cytotoxic mixture of saponins. This toxin is poorly absorbed by the gastrointestinal tract so effects are limited to severe inflammation of the stomach and intestines, resulting in fluid loss and electrolyte imbalance. Generally, multiple doses are required to cause severe poisoning or death. See also SAPONIN, α-ESCIN, β-ESCIN, and ESCIN, SODIUM SALT.**HGL600 CAS: 13104-70-6 HR: 2**
HP 1325mf: C₁₀H₁₈N₄O₂•2ClH mw: 299.24**SYN:** 1,1'-(p-PHENYLENEBIS(OXYETHYLENE))DIHYDRAZINE DIHYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1000 mg/kg JOENAK 27,147,63

ipr-mus LD50:983 mg/kg 27ZQAG -,394,72

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also HYDRAZINE.

**HGL630 CAS: 20866-13-1 HR: 3
HQ-275**

mf: C₂₁H₂₃N₃O₃•ClH mw: 401.93

SYN: 2,3-DIHYDRO-2-METHYL-1-(MORPHOLINOACETYL)-3-PHENYL-4(1H)-QUINAZOLINONE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1708 mg/kg JPPAAZ 22,235,72

ipr-rat LD50:534 mg/kg JPPAAZ 22,235,72

scu-rat LD50:587 mg/kg JPPAAZ 22,235,72

orl-mus LD50:700 mg/kg JPPAAZ 22,235,72

scu-mus LD50:409 mg/kg JPPAAZ 22,235,72

ivn-mus LD50:387 mg/kg JPPAAZ 22,235,72

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

**HGL650 CAS: 25487-36-9 HR: 3
HS 3**

mf: C₁₄H₁₆N₄O₃•2Cl mw: 359.24

SYN: 2,4'-DIFORMYL-1,1'-(OXYDIMETHYLENE)DIPYRIDINIUM DICHLORIDE, DIOXIME

TOXICITY DATA with REFERENCE:

ipr-rat LD50:149 mg/kg ARTODN 41,301,79

ivn-rat LD50:168 mg/kg ARTODN 41,301,79

ims-mus LD50:100 mg/kg ATXKA8 26,293,70

SAFETY PROFILE: Poison by intramuscular, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of Cl⁻ and NO_x.

**HGL670 CAS: 148498-78-6 HR: D
HUMAN ADRENOMEDULLIN**

mf: C₂₆₄H₄₀₆N₈₀O₇₇S₃ mw: 6029.68

SYN: ADRENOMEDULLIN (HUMAN)

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

**HGL680 CAS: 89213-87-6 HR: 3
HUMAN ATRIAL NATRIURETIC PEPTIDE (99-126)**

mf: Cl₂₇H₂₀₃N₄₅O₃₉S₃ mw: 2512.81

SYNS: α -ATRIOPEPTIN (HUMAN) \square ATRIOPEPTIN-33(RAT), 1-DE-I-LEUCINE-2-DE-I-ALANINE-3-DEGLYCINE-4-DE-I-PROLINE-5-DE-I-ARGININE-1 7-I-METHIONINE- \square ANTRIOPEPTIN (HUMAN α -COMPONENT) \square ATRIOPEPTIN-28 (HUMAN) \square CARPERITIDE \square HORSE ATRIAL NATRIURETIC PEPTIDE-28 \square HUMAN ATRIAL NATRIURETIC FACTOR (99-126) \square α -hmn ATRIAL NATRIURETIC HORMONE \square HUMAN ATRIAL NATRIURETIC PEPTIDE (1-28) (99-126) \square HUMAN ATRIOPEPTIN(1-28) \square HUMAN ATRIOPEPTIN(99-126) \square (99-126)-hmn PROATRIOPEPTIN \square SUN-4936 \square TRIOPEPTIN (HUMAN α -COMPONENT)

TOXICITY DATA with REFERENCE:

ivn-rat LD50:21 mg/kg YAKUD5 37,1383,1995

ivn-mus LD50:>100 mg/kg YAKUD5 37,1383,1995

ivn-dog LD50:>100 mg/kg YAKUD5 37,1383,1995

SAFETY PROFILE: A poison by intravenous route. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

**HGL700 CAS: 86784-80-7 HR: 2
HUMAN CORTICOTROPIN-RELEASING FACTOR**

mf: C₂₀₈H₃₄₄N₆₀O₆₃S₂ mw: 4758.24

SYNS: CORTICOBISS \square CORTICOTROPIN-RELEASING FACTOR (HORSE) \square CORTICOTROPIN-RELEASING FACTOR (HUMAN) \square CORTICOTROPIN-RELEASING FACTOR (RAT) \square CORTICOTROPIN-RELEASING FACTOR (SHEEP), 2-I-GLUTAMIC ACID-22-I-ALANINE-23-I-ARGININE-25-I-GLUTAMIC ACID-38-I-METHIONINE-39-I-GLUTAMIC ACID-41-I-ISOLEUCINAMIDE- \square CORTICOTROPIN-RELEASING HORMONE (HUMAN) \square CRF 41 \square HUMAN CORTICOTROPIN-RELEASING HORMONE \square HUMAN CORTICOTROPIN-RELEASING HORMONE-41 \square HUMAN CRF \square HUMAN CRF (1-41) \square MCI 028 \square RAT ACTH-RELEASING HORMONE \square RAT CORTICOTROPIN-RELEASING FACTOR \square RAT CORTICOTROPIN-RELEASING FACTOR-41 \square RAT CRF \square RAT CRF(1-41) \square RAT HYPOTHALAMIC CRF

TOXICITY DATA with REFERENCE:

ivn-rat LD50:>1 mg/kg YACHDS 20(Suppl 5),S1241,92

ivn-dog LD50:>1 mg/kg YACHDS 20(Suppl 5),S1241,92

SAFETY PROFILE: Moderately toxic by intravenous route. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

**HGL800 HR: D
HUMAN IMMUNOGLOBULIN COG-78
SAFETY PROFILE:** An experimental teratogen. Other experimental reproductive effects.

**HGL900 CAS: 69344-77-0 HR: D
HUMAN PLATELET EXTRACT, CTAP-III
SYN:** CTAP-III

TOXICITY DATA with REFERENCE:

dns-hmn-lng 19 mg/L PSEBAA 171,109,1982

dns-gpg-lng 21 mg/L PSEBAA 171,109,1982

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

**HGL920 CAS: 94948-59-1 HR: 3
HUMAN RECOMBINANT TUMOR NECROSIS FACTOR- α**

SYNS: RECOMBINANT HUMAN TUMOR NECROSIS FACTOR α \square RECOMBINANT HUMAN TUMOR NECROSIS FACTOR- α \square TNF- α \square TUMOR NECROSIS FACTOR- α

TOXICITY DATA with REFERENCE:

sce-hmn-lym 10 ku/L CRNGDP 12,1355,1991

uns-mus-lvr 5000 mg/L MUREAV 448,193,2000

ivn-mus LD :>400 μ g/kg BJPCBM 99,499,1990

ivn-mus TDLo:10 μ g/kg BIPBU* 25,627,2002

SAFETY PROFILE: A poison by intravenous route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HGL930 CAS: 9048-46-8 HR: 1
HUMAN SERUM ALBUMIN

SYN: NHSA

TOXICITY DATA with REFERENCE:

ivn-rat LD :>12,500 mg/kg YACHDS 25(Suppl 8),S1805,1997

ivn-mky LD :>12,500 mg/kg YACHDS 25(Suppl 8),S1805,1997

SAFETY PROFILE: Low toxicity by intravenous. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

HGM000 HR: D
HUMAN SPERM

SYN: SPERM, HUMAN

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:56 g/kg/15D-I-CAR 13BYAH -,279,62

ipr-mus LDLo:16 g/kg 13BYAH -,279,62

SAFETY PROFILE: Slightly toxic by intraperitoneal route. Questionable carcinogen with experimental carcinogenic data.

HGM100 CAS: 68131-04-4 HR: 3
HUMIC ACID, SODIUM SALT

SYNS: CH 02 □ CHA 02 □ DOLAFLUX □ HUMINSAURE NATRIUM □ NATRIUM-HUMAT □ SODIUM HUMATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:111 mg/kg ARZNAD 13,329,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous route. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

HGM500 CAS: 101670-43-3 HR: 3
HUMIDIN

mf: C₁₂H₂₀O₄ mw: 228.32

TOXICITY DATA with REFERENCE:

orl-mus LD50:54 mg/kg 85ERAY 2,112,78

ipr-mus LD50:4500 µg/kg 85FZAT -,331,67

ivn-mus LD50:1 mg/kg 85GDA2 2,348,80

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits acrid smoke and fumes.

HGM550 CAS: 6753-98-6 HR: 3
α-HUMULENE (6CI,7CI)

mf: C₁₅H₂₄ mw: 204.39

SYNS: α-CARYOPHYLLENE □ 1,4,8-CYCLOUNDECATRIENE, 2,6,6,9-TETRAMETHYL-, (E,E,E)- □ HUMULENE □ 2,6,6,9-TETRAMETHYL-1,4,8-CYCLOUNDECATRIENE (E,E,E)-

TOXICITY DATA with REFERENCE:

itr-rat LD :>48 mg/kg ARTODN 59,78,86

SAFETY PROFILE: A poison by intratracheal route. When heated to decomposition it emits acrid smoke and irritating vapors.

HGM600 HR: 3
HUNDRED PACE SNAKE VENOM

SYNS: AGKISTRODON ACUTUS VENOM □ VENOM, SNAKE, AGKISTRODON ACUTUS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2800 µg/kg TIHHAH 61,239,62

scu-mus LD50:9200 µg/kg TIHHAH 61,239,62

ivn-mus LD50:380 µg/kg BCPCA6 20,1549,71

SAFETY PROFILE: A deadly poison by subcutaneous, intravenous, and intraperitoneal routes.

HGN000 CAS: 7722-73-8 HR: 3
HX-868

mf: C₂₁H₂₇N₃O₃ mw: 369.51

SYNS: 1,3,5-TRIS(CARBONYL-2-ETHYL-1-AZIDINE)BENZENE

□ 1,3,5-TRIS(2-ETHYL-AZIRIDINYL)-CARBONYL)BENZENE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:100 mg/kg NTIS** AD441-640

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.

HGN500 CAS: 8023-94-7 HR: 1
HYACINTH ABSOLUTE

PROP: Extracted from the flowers of *Hyacinthus orientalis* (FCTXAV 14,659,76).

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,795,76

orl-rat LD50:4200 mg/kg FCTXAV 14,795,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and fumes.

HGN600 CAS: 9067-32-7 HR: 2
HYALURONIC ACID, SODIUM SALT

SYNS: HEALON □ SODIUM HYALURONATE □ SPH

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1770 mg/kg YACHDS 12,5369,84

ipr-mus LD50:1500 mg/kg OYAA2 28,1013,84

ipr-rbt LD50:1820 mg/kg YACHDS 12,5369,84

SAFETY PROFILE: Moderately toxic by intraperitoneal route. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of Na₂O.

HGO500 CAS: 23255-93-8 HR: 3
HYCANTHONE METHANESULFONATE

mf: C₂₀H₂₄N₂O₂S•CH₄O₃S mw: 452.63

SYNS: 1-(2-(DIETHYLAMINO)ETHYL)AMINO-4-(HYDROXY-METHYL)-9H-THIOXANTHEN-9-ONE MONOMETHANE-SULFONATE (SALT) □ ETRENOL □ HCT □ HYCANTHONE MESYLATE □ HYCANTHONE METHANESULPHONATE □ HYCANTHONE MONOMETHANESULPHONATE

TOXICITY DATA with REFERENCE:

dnr-esc 16 µg/well ENMUDM 3,429,81

cyt-hmn:leu 1 µmol/L MUREAV 21,287,73

cyt-hmn:lym 2400 µg/L JTEHD6 1,211,76

dni-hmn:lym 50 mg/L BCPCA6 22,1253,73

sln-dmg-par 4400 µmol/L MUREAV 82,111,81

sln-dmg-orl 4400 µmol/L MUREAV 82,111,81

otr-rat-ipr 30 mg/kg CNREA8 40,1157,80

ipr-mus TDLo:815 mg/kg/33W-I:CAR IJCNAW 23,97,79
 ims-hmn TDLo:3 mg/kg:CNS,GIT PACHAS 42,209,75
 ipr-rat LDLo:100 mg/kg JPETAB 187,437,73
 orl-mus LD50:565 mg/kg NCISP* JAN86
 ipr-mus LD50:252 mg/kg NCISP* JAN86
 scu-mus LD50:204 mg/kg NCISP* JAN86
 ivn-mus LD50:79 mg/kg JPETAB 186,402,73
 ims-mus LD50:320 mg/kg JPETAB 186,402,73

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 13,91,77. EPA Genetic Toxicology Program.

SAFETY PROFILE: A poison by intraperitoneal, subcutaneous, intravenous, and intramuscular routes. Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Other experimental reproductive effects. Human systemic effects by intramuscular route: hallucinations, muscle weakness, nausea or vomiting. Human mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x. See also SULFONATES.

**HGO550 CAS: 130607-26-0 HR: 3
HYDANTOCIDIN**

mf: C₇H₁₀N₂O₆ mw: 218.19

TOXICITY DATA with REFERENCE:

orl-mus LD:>1 g/kg JANTAJ 44,293,1991
 ivn-mus LD:>100 mg/kg JANTAJ 44,293,1991

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

**HGO600 CAS: 461-72-3 HR: D
HYDANTOIN**

mf: C₃H₄N₂O₂ mw: 100.09

PROP: Needles from methanol. Mp: 220°. Sltly sol in water or ether; sol in alc and in solns of fixed alkali hydroxides.

SYNS: GLYCOLYLUREA □ 2,4-IMIDAZOLIDINEDIONE (9CI)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.

**HGO700 CAS: 24615-84-7 HR: 2
HYDRACRYLIC ACID, ACRYLATE**

mf: C₆H₈O₄ mw: 144.14

SYNS: β-(ACRYLOYLOXY)PROPIONIC ACID □ β-CARBOXYETHYL ACRYLATE □ 2-CARBOXYETHYL ACRYLATE □ 2-CARBOXYETHYL 2-PROPENOATE □ 2-PROPENOIC ACID, 2-CARBOXYETHYL ESTER □ SIPOMER B-CEA

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL SEV NTIS** OTS0570647

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A severe skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

HGP000 CAS: 109-78-4 HR: 3

HYDRACRYLONITRILE

mf: C₃H₅NO mw: 71.09



PROP: Colorless to straw-colored liquid or oil. Fp: -46°, bp: 220° decomp, flash p: 265°F (OC), d: 1.0404 @ 25°, vap press: 0.08 mm @ 25°, vap d: 2.45. Misc with water, acetone, methyl ethyl ketone, and ethanol. Sltly sol in ether; insol in benzene, pet ether, carbon disulfide, and carbon tetrachloride.

SYNS: 2-CYANOETHANOL □ 2-CYANOETHYL ALCOHOL □ ETHYLENE CYANOHYDRIN □ GLYCOL CYANOHYDRIN □ β-HPN □ 3-HYDROXYPROPANENITRILE □ β-HYDROXY-PROPIONITRILE □ 3-HYDROXYPROPIONITRILE □ METHANOLACETONITRILE □ USAF RH-7

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open JIHTAB 26,269,44
 skn-rbt 520 mg open MLD UCDS** 8/18/67
 eye-rbt 500 mg AJOPAA 29,1363,46
 orl-rat LD50:3200 mg/kg 38MKAJ 2C,4875,82
 orl-mus LD50:1800 mg/kg AMIHBC 8,371,53
 ihl-mus LC33:300 mg/m³/2H 85GMAT -,66,82
 ipr-mus LD50:500 mg/kg NTIS** AD277-689
 orl-rbt LDLo:900 mg/kg AMIHBC 8,371,53
 skn-rbt LD50:5000 mg/kg UCDS** 8/18/67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Cyanide compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by skin contact. A skin and eye irritant. Combustible when exposed to heat or flame. Reacts violently with mineral acids (e.g., chlorosulfonic acid, oleum, sulfuric acid), amines, or inorganic bases (e.g., NaOH). Reacts with water or steam to produce toxic and flammable vapors. To fight fire, use CO₂, dry chemical, alcohol foam. When heated to decomposition or on contact with acid or acid fumes it emits highly toxic fumes of CN⁻. See also NITRILES.

**HGP495 CAS: 86-54-4 HR: 3
HYDRALAZINE**

mf: C₈H₈N₄ mw: 160.20

PROP: Yellow crystal from MeOH. Mp: 171-173°.

SYNS: APPRESSIN □ APRESOLIN □ APREZOLIN □ BA5968 □ C-5068 □ C 5968 □ CIBA 5968 □ HIDRALAZIN □ HIPOFTALIN □ HYDRALLAZINE □ HYDRAZINOPHTHALAZINE □ 1-HYDRAZINOPHTHALAZINE □ HYPOPHTHALIN □ IDRALAZINA (ITALIAN) □ 1(2H)-PHTHALAZINONE HYDRAZONE

TOXICITY DATA with REFERENCE:

mma-sat 500 µg/plate MUREAV 66,247,79
 slt-dmg-unr 200 mmol/L/6H MUREAV 120,233,83
 orl-man TDLo:2086 mg/kg/2Y-I:SKN BMJOAE 289,410,84
 orl-wmn TDLo:730 mg/kg/2Y-I:SKN BMJOAE 289,410,84
 ims-man TDLo:89 µg/kg:CVS EJPEDT 145,318,86
 orl-rat LD50:90 mg/kg PLRCAT 8,295,76
 ipr-rat LD50:25 mg/kg JPETAB 143,7,64
 ivn-rat LD50:34 mg/kg JAPMA8 40,559,51
 orl-mus LD50:122 mg/kg PLRCAT 8,295,76
 ipr-mus LD50:100 mg/kg JMCMA 22,671,79

scu-mus LD50:150 mg/kg RPTOAN 31,53,68

ivn-dog LD50:50 mg/kg ARZNAD 35,818,85

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,222,87; Human Inadequate Evidence IMEMDT 24,85,80.

SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. Human systemic effects by ingestion: allergic dermatitis, cardiomyopathy, changes in coronary arteries. Human teratogenic effects by an unspecified route: developmental abnormalities of the blood and lymphatic system. Questionable carcinogen. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HGP500 CAS: 304-20-1 HR: 3
HYDRALAZINE HYDROCHLORIDE

mf: C₈H₈N₄•ClH mw: 196.66

PROP: Yellow crystals. Decomp @ 273°. Very sltly sol in ether.

SYNS: AISELAZINE □ APPRESINUM □ APRELAZINE □ APRESAZIDE □ APRESINE □ APRESOLIN □ APRESOLINE-ESIDRIX □ APRESOLINE HYDROCHLORIDE □ APREZOLIN □ BA 5968 □ CIBA 5968 □ DRALZINE □ HIDRALAZIN □ HIPOFTALIN □ HYDRALAZINE CHLORIDE □ HYDRALAZINE MONOHYDROCHLORIDE □ HYDRALLAZINE HYDROCHLORIDE □ HYDRAPRESS □ 1-HYDRAZINO-PHTHALAZINE HYDROCHLORIDE □ 1-HYDRAZINO-PHTHALAZINE MONOHYDROCHLORIDE □ HYPERAZIN □ HYPOPTHALIN □ HYPOS □ IPOLINA □ LOPRESS □ NOR-PRESS 25 □ 1(2H)-PHTHALAZINONE HYDRAZONE HYDROCHLORIDE □ 1(2H)-PHTHALAZINONE, HYDRAZONE, MONOHYDROCHLORIDE □ PRAPARAT 5968 □ ROLAZINE □ SERPASIL APRESOLINE No. 2

TOXICITY DATA with REFERENCE:

mno-sat 500 µg/plate RCOB8 49,415,85

dni-hmn:hla 150 µmol/L MUREAV 92,427,82

orl-mus TDLo:2950 mg/kg/78W-C:NEO JJIND8 61,1363,78

ivn-rat LD50:34 mg/kg NIIRDN 6,619,82

orl-mus LD50:188 mg/kg OYYAA2 3,97,69

ipr-mus LD50:83 mg/kg JPETAB 101,368,51

scu-mus LD50:73 mg/kg NIIRDN 6,619,82

ivn-mus LD50:84 mg/kg OYYAA2 3,97,69

CONSENSUS REPORTS: IARC Cancer Review:

Animal Limited Evidence IMEMDT 24,85,80. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Suspected carcinogen with experimental neoplastigenic data. A poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Human mutation data reported. An experimental teratogen. An antihypertensive agent. When heated to decomposition it emits very toxic NO_x and HCl.

HGP525 CAS: 67485-29-4 HR: 2
HYDRAMETHYLNON

mf: C₂₅H₂₄F₆N₄ mw: 494.53

SYNS: AC 217300 □ AMDRO □ CL 217300 □ COMBAT □ MATOX □ MAXFORCE □ 2(H)-PYRIMIDINONE, TETRA-HYDRO-5,5-DIMETHYL-, (3-(4-(TRIFLUOROMETHYL)PHENYL)-1-(2-(4-(TRIFLUOROMETHYL)PHENYL)ETHENYL)-2-PROPENYLIDENE)HYDRAZONE □ WIPEOUT

TOXICITY DATA with REFERENCE:

orl-rat LD50:1131 mg/kg FMCHA2 -,C167,91

ihl-rat LC50:>5 g/m³/4H PEMNDP 9,474,91

skn-rbt LD50:>5 g/kg PEMNDP 9,475,91

orl-qal LD50:1828 mg/kg FMCHA2 -,C167,91

orl-dck LD50:>2510 mg/kg PEMNDP 9,475,91

SAFETY PROFILE: Moderately toxic by ingestion.

Low toxicity by inhalation and skin contact routes. When heated to decomposition it emits toxic vapors of NO_x and F⁻.

HGP550 CAS: 10592-13-9 HR: 3
HYDRAMYCIN

mf: C₂₂H₂₄N₂O₈•ClH mw: 480.94

SYNS: BIOCAMYCIN □ DOXIGALUMICINA □ DOXY-CYCLINE HYCLATE □ DOXYCYCLINE HYDROCHLORIDE □ DOXY-II □ DOXY-TABLINEN □ ECODOX □ LIOMYCIN □ MESPAFIN □ MIDOXIN □ NIVOCILIN □ NOVADOX □ RETENS □ ROXIMYCIN □ SAMECIN □ TANAMICIN □ TECACIN □ TETRADOX □ VIBRADOX □ VIBRAMYCIN HYCLATE □ VIBRA-TABS

TOXICITY DATA with REFERENCE:

orl-rat LD50:1700 mg/kg YACHDS 8,1447,80

ipr-rat LD50:262 mg/kg TXAPA9 18,185,71

scu-rat LD50:700 mg/kg YACHDS 8,1447,80

ivn-rat LD50:137 mg/kg YACHDS 8,1447,80

orl-mus LD50:1890 mg/kg NIIRDN 6,505,82

scu-mus LD50:700 mg/kg YACHDS 8,1447,80

ivn-mus LD50:290 mg/kg YACHDS 8,1447,80

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and subcutaneous routes. Experimental reproductive effects. An antibacterial agent. When heated to decomposition it emits toxic fumes of NO_x and HCl.

HGP600 HR: 2
HYDRANGAEA

PROP: A large bush that grows to 15 feet tall with red-brown stems. The 6-inch leaves have a dark green top and a fuzzy gray bottom. It produces small white, rose, blue or green-white flowers that stay on the plant until they dry. It is used as an ornamental throughout the United States and Canada.

SYNS: HILLS-OF-SNOW □ HORTENSIA (CUBA) □ HYDRANGAEA MACROPHYLLA □ POPO-HAU (HAWAII) □ SEVEN BARK

SAFETY PROFILE: The flower bud contains the poison hydrangin, a cyanogenetic glycoside. Ingestion of the buds may produce, after a delay period, the symptoms of cyanide poisoning: abdominal pain, vomiting, lethargy, sweating, coma, convulsions, and lack of muscle control. See also CYANIDE.

HGQ500 CAS: 5936-28-7 HR: 2
HYDRASTINE HYDROCHLORIDE

mf: C₂₁H₂₁NO₆•ClH mw: 419.89

PROP: Hygroscopic powder. Mp: 116°, sltly sol in CHCl₃; very sltly sol in ether. Keep well closed.

TOXICITY DATA with REFERENCE:

orl-rat LD50:1000 mg/kg 29ZVAB -,57,69

scu-rat LD50:1270 mg/kg 29ZVAB -,57,69

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl .

HGR000 CAS: 6592-85-4 HR: 3
HYDRASTININE

mf: $\text{C}_{11}\text{H}_{13}\text{NO}_3$ mw: 207.25

PROP: White-yellowish needles from pet ether. Mp: 116–117°. Very sol in alc, chloroform, ether, dil acids; insol in cold water; mod sol in hot water.

SYN: 5,6,7,8-TETRAHYDRO-6-METHYL-1,3-DIOXO-(4,5-g)ISOQUINOLIN-5-OL

TOXICITY DATA with REFERENCE:

scu-rat LDLo: 1 g/kg HBAMAK 4,1289,35

scu-rbt LDLo: 300 mg/kg HBAMAK 4,1289,35

SAFETY PROFILE: Poison by subcutaneous route. Can cause paralysis of vasomotor nerves and vagus endings. When heated to decomposition it emits highly toxic fumes of NO_x .

HGR500 HR: 2
HYDRASTIS CANADENSIS L., ROOT EXTRACT

PROP: Plant containing berberine-type alkaloids (YKKZAJ 82,726,62).

TOXICITY DATA with REFERENCE:

orl-mus LD50: 1620 mg/kg YKKZAJ 82,726,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. See also BERBERINE.

HGR600 CAS: 1123-85-9 HR: 2
HYDRATROPIC ALCOHOL

mf: $\text{C}_9\text{H}_{12}\text{O}$ mw: 136.21

SYNS: BENZENEETHANOL, β -METHYL-(9CI) \square HYDRA-TROPYL ALCOHOL \square β -METHYLBENZENEETHANOL \square β -METHYLPHENETHYL ALCOHOL \square α -METHYL PHENYL-ETHYL ALCOHOL \square PHENETHYL ALCOHOL, β -METHYL- \square 2-PHENYLPROPAN-1-OL \square β -PHENYLPROPYL ALCOHOL \square 2-PHENYLPROPYL ALCOHOL

TOXICITY DATA with REFERENCE:

orl-rat LD50: 2300 mg/kg FCTXAV 13,547,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HGS000 CAS: 302-01-2 HR: 3
HYDRAZINE

DOT: UN 2029

mf: H_4N_2 mw: 32.06
 H_2NNH_2

PROP: Colorless, oily, fuming liquid or white crystals. Mp: 254°, bp: 113.5°, flash p: 100°F (OC), d: 1.1011 @ 15° (liquid), autoign temp: can vary from 74°F in contact with iron rust, 270°F in contact with black iron, 313°F in contact with stainless steel, 518°F in contact with glass. Vap d: 1.1, lel: 4.7%, uel: 100%. Misc in H_2O , alcohols; sltly sol in org solvs. IDLH 50 ppm.

SYNS: DIAMIDE \square DIAMINE \square HYDRAZINE, anhydrous (DOT) \square HYDRAZINE AQUEOUS SOLUTIONS with >64% hydrazine, by weight (DOT) \square HYDRAZYNA (POLISH) \square RCRA WASTE NUMBER U133

TOXICITY DATA with REFERENCE:

mno-omi 70 $\mu\text{g}/\text{L}$ MUREAV 173,233,86

dni-hmn:hla 50 $\mu\text{mol}/\text{L}$ CNREA8 44,59,84

ihl-rat LC50: 570 ppm/4H AMIHAB 12,609,55

ipr-rat LD50: 59 mg/kg MEPAAX 24,71,73

ivn-rat LD50: 55 mg/kg MEPAAX 24,71,73

orl-mus LD50: 59 mg/kg MEPAAX 24,71,73

ihl-mus LC50: 252 ppm/4H AMIHAB 12,609,55

ipr-mus LD50: 62 mg/kg MEPAAX 24,71,73

ivn-mus LD50: 57 mg/kg MEPAAX 24,71,73

skn-dog LDLo: 96 mg/kg TXAPA9 21,186,72

ivn-dog LD50: 25 mg/kg MEPAAX 24,71,73

skn-rbt LD50: 91 mg/kg AMIHBC 9,199,54

ivn-rbt LD50: 20 mg/kg AMIHBC 9,199,54

skn-gpg LD50: 190 mg/kg XAWPA2 CWL 2-10,58

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,223,87; Animal Sufficient Evidence IMEMDT 4,127,74. EPA Extremely Hazardous Substances List. Community Right-To-Know List. Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 ppm (skin)

ACGIH TLV: TWA 0.01 ppm (skin), Confirmed Animal Carcinogen.

DFG MAK: DFG TRK: Animal Carcinogen, Suspected Human Carcinogen

NIOSH REL: (Hydrazines) CL 0.04 $\text{mg}/\text{m}^3/2\text{H}$

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison, Corrosive

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. A poison by ingestion, skin contact, intraperitoneal, and intravenous routes. Moderately toxic by inhalation. An experimental teratogen. Other experimental reproductive effects. Human mutation data reported. A powerful reducing agent that is corrosive to the eyes, skin, and mucous membranes. May cause skin sensitization as well as systemic poisoning. Hydrazine and some of its derivatives may cause damage to the liver and destruction of red blood cells.

Flammable liquid. A very dangerous fire hazard when exposed to heat, flame, or oxidizing agents. Severe explosion hazard when exposed to heat or flame, or by chemical reaction. Explodes on contact with barium oxide; calcium oxide; chromate salts; chromium dioxide; dicyanofurazan; mercury oxide; trioxxygen difluoride; N-haloimides; potassium; silver compounds; sodium hydroxide; titanium compounds (at 130°). Potentially explosive reactions with alkali metals; NH_3 ; Cl_2 ; chromates; CuO ; Cu^{++} salts; F_2 ; metallic oxides; Ni; $\text{Ni}(\text{ClO}_4)_2$; O_2 ; liquid O_2 ; $\text{K}_2\text{Cr}_2\text{O}_7$; $\text{Na}_2\text{Cr}_2\text{O}_7$; tetryl; zinc diamide; $\text{Zn}(\text{C}_2\text{H}_5)_2$. Forms sensitive, explosive mixtures with 2-chloro-5-methylnitrobenzene; metal salts [e.g., cadmium perchlorate; copper chlorate (heat-sensitive); manganese nitrate (heat-sensitive); mercury(I) chloride; mercury(II) chloride; mercury(I) nitrate; mercury(II) nitrate; tin(II) chloride]; methanol + nitromethane; air; lithium perchlorate; sodium perchlorate; sodium. Ignites

on contact with cotton waste + heavy metals; dinitrogen oxide; rhenium + alumina; catalysts; nitric acid; hydrogen peroxide; N,2,4,6-tetranitroaniline; rust + heat. Ignites spontaneously in air when absorbed on earth, asbestos, cloth, wood. Violent reaction with 1-chloro-2,4-dinitrobenzene; oxidants (e.g., iron oxide; chlorates; peroxides); thiocarbonyl azide thiocyanate. Vigorous reaction with benzene-seleninic acid or anhydride; carbon dioxide + stainless steel; copper oxide; lead oxide; potassium peroxodisulfate; ruthenium(III) chloride. On contact with metal catalysts (e.g., platinum black; Raney nickel; copper-iron oxide; molybdenum; molybdenum oxides; iridium), it decomposes to ammonia, hydrogen and nitrogen gases which may ignite or explode. A hypergolic reaction with dinitrogen tetroxide is the basis of a liquid rocket fuel mixture. The vapor will burn without air. It is a powerful explosive. It is very sensitive and must not be used without full and complete instructions from the manufacturer for handling, storage, and disposal. Dangerous; when heated to decomposition it emits highly toxic fumes of NO_x and NH₃.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #20 or NIOSH: Hydrazine, 3503.

HGS100 CAS: 14546-44-2 HR: 3
HYDRAZINE AZIDE

mf: H₃N₅ mw: 73.08

SYN: HYDRAZINE, AZIDO-

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: A highly unstable substance forbidden for transport. When heated to decomposition it emits toxic vapors of NO_x.

HGT500 HR: 3
HYDRAZINE BISBORANE

mf: B₂H₁₀N₂ mw: 59.71

SAFETY PROFILE: Explodes on impact or above 100°C. Highly flammable. When heated to decomposition it emits toxic fumes of NO_x and BO_x. See also HYDRAZINE and BORANE.

HGU000 CAS: 57-56-7 HR: 3
HYDRAZINE CARBOXAMIDE

mf: CH₃N₃O mw: 75.09

PROP: Prisms from EtOH. Mp: 96°.

SYNS: AMINOUREA □ CARBAMIC ACID HYDRAZIDE □ CARBAMOYLHYDRAZINE □ CARBAMYLHYDRAZINE □ CARBAZAMIDE □ SEMICARBAZIDE

TOXICITY DATA with REFERENCE:

mmo-sat 67 µmol/plate CNREA8 41,1469,81

spm-grh-par 100 mmol/L

ivn-man TDLo:40 mg/kg:CNS JPETAB 122,110,58

ipr-rat LD50:140 mg/kg APEPA2 257,296,67

scu-rat LD50:140 mg/kg ARZNAD 18,645,68

orl-mus LD50:176 mg/kg JPETAB 122,110,58

ipr-mus LD50:123 mg/kg JPETAB 122,110,58

scu-mus LD50:105 mg/kg JPETAB 119,444,57

ivn-mus LD50:126 mg/kg JPETAB 122,110,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Human systemic effects by intravenous route: convulsions. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also HYDRAZINE.

HGU025 CAS: 14931-40-9 HR: 3
HYDRAZINE, COMPD. WITH BORANE (1:1)

mf: BH₃N₂ mw: 45.90

SYNS: BORANE, COMPD. WITH N₂H₄ □ BORON, (HYDRAZINE-N)TRIHYDRO-, (T-4)- □ BORON, (HYDRAZINE-KAPPAN)TRIHYDRO-, (T-4)- □ HYDRAZINE BORANE (1:1) □ (T-4)-(HYDRAZINE-KAPPAN)TRIHYDROBORON

TOXICITY DATA with REFERENCE:

orl-rat LD50:40,300 µg/kg STGNBT-,34,1999

ihl-rat LC50:24 mg/m³ STGNBT-,34,1999

ipr-rat LDLo:75 mg/kg STGNBT-,34,1999

scu-rat LD50:71 mg/kg STGNBT-,34,1999

orl-mus LD50:35 mg/kg STGNBT-,34,1999

ihl-mus LC50:12 mg/m³ STGNBT-,34,1999

scu-mus LD50:44 mg/kg STGNBT-,34,1999

orl-rbt LD50:25 mg/kg STGNBT-,34,1999

SAFETY PROFILE: A poison by ingestion, inhalation, and subcutaneous routes. may be unstable at. When heated to decomposition it emits toxic vapors of NO_x and B.

HGU050 CAS: 110-21-4 HR: 2
1,2-HYDRAZINEDICARBOXAMIDE

mf: C₂H₆N₄O₂ mw: 118.12

SYNS: N,N'-BISCARBAMOYLHYDRAZINE □ BICARBAM-AMIDE □ BICARBAMIMIDIC ACID □ BIUREA (6CI,7CI,8CI) □ HYDRADICARBONAMIDE □ HYDRAZINEDICARBOXYLIC ACID DIAMIDE □ 1,1'-HYDRAZOBIS(FORMAMIDE) □ HYDRAZOCARBONAMIDE □ HYDRAZODICARBONAMIDE □ HYDRAZODICARBOXAMIDE □ UREIDOUREAARBOXAMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>2 g/kg ATDAEI 15(Suppl 1),S92,1996

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HGU100 CAS: 13537-45-6 HR: 3
HYDRAZINE DIFLUORIDE

mf: H₄N₂•2FH mw: 72.08

SYN: HYDRAZINE, DIHYDROFLUORIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#04254

OSHA PEL: TWA 2.5 mg(F)/m³

ACGIH TLV: TWA 2.5 mg(F)/m³; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.

NIOSH REL: (Fluorides, Inorganic): 10H TWA 2.5 mg(F)/m³

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and HF.

HGU500 CAS: 10217-52-4 HR: 3

HYDRAZINE HYDRATE**DOT:** UN 2030mf: $\text{H}_4\text{N}_2 \cdot \text{H}_2\text{O}$ mw: 50.08

PROP: Colorless, fuming, refractive liquid. Mp: -51.7° , bp: 118.5° @ 740 mm, d: 1.03 @ 21° . Faint characteristic odor. A strong base, very corrosive; attacks glass, rubber, and cork. Very powerful reducing agent. Misc with water and alc; insol in chloroform and ether.

SYNS: HYDRAZINE AQUEOUS SOLUTIONS, with not >64% hydrazine, by weight (DOT) ☐ HYDRAZINE HYDRATE, with not >64% hydrazine, by weight (DOT)

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:10 $\mu\text{g}/\text{m}^3/2\text{H}$ GTPZAB 4(8),27,60
 skn-rat LDLo:70 mg/kg GTPZAB 5(10),48,61
 scu-rat LDLo:50 mg/kg GTPZAB 4(8),27,60
 skn-rbt LDLo:20 mg/kg GTPZAB 4(8),27,60
 scu-rbt LDLo:10 mg/kg GTPZAB 4(8),27,60
 ihl-rat TCLo:900 $\mu\text{g}/\text{m}^3/30\text{W-I}$ GTPZAB 4(8),27,60
 ihl-rbt TCLo:900 $\mu\text{g}/\text{m}^3/30\text{W-I}$ GTPZAB 4(8),27,60
 skn-rbt TDLo:70 mg/kg/7D-I GTPZAB 4(8),27,60

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

NIOSH REL: (Hydrazines) CL 0.04 mg/ $\text{m}^3/2\text{H}$

DOT CLASSIFICATION: 8; Label: Corrosive, Poison

SAFETY PROFILE: A poison by ingestion, inhalation, skin contact, and subcutaneous routes. A corrosive irritant to the eyes, skin, and mucous membranes. Incompatible with HgO , Na, SnCl_2 , 2,4-dinitrochlorobenzene. When heated to decomposition it emits toxic fumes of NO_x . See also HYDRAZINE.

HGU501 CAS: 7803-57-8 HR: 3
HYDRAZINE HYDRATE
mf: $\text{H}_4\text{N}_2 \cdot \text{H}_2\text{O}$ mw: 50.08

SYNS: HYDRAZINE, MONOHYDRATE ☐ IDRAZINA IDRATA

TOXICITY DATA with REFERENCE:

mno-sat 10 $\mu\text{mol}/\text{plate}$ CNREA8 41,1469,81
 dnr-esc 15 $\mu\text{g}/\text{well}$ MUREAV 133,161,84
 dnr-mus:ivr 10 $\mu\text{mol}/\text{L}$ JJCREF 79,204,88
 orl-rat LD50:129 mg/kg HYSAAV 30(7-9),191,65
 orl-mus LD50:83 mg/kg HYSAAV 30(7-9),191,65
 ipr-mus LD50:156 mg/kg CNREA8 41,1469,81
 orl-rbt LD50:55 mg/kg HYSAAV 30(7-9),191,65
 orl-gpg LD50:40 mg/kg HYSAAV 30(7-9),191,65

NIOSH REL: (Hydrazines) CL 0.03 ppm/120M

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. Questionable carcinogen with experimental carcinogenic data. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .

HGV000 CAS: 2644-70-4 HR: 3
HYDRAZINE, HYDROCHLORIDE
mf: $\text{H}_4\text{N}_2 \cdot \text{ClH}$ mw: 68.52

SYNS: HYDRAZINE MONOCHLORIDE ☐ HYDRAZINIUM CHLORIDE ☐ HYDRAZINIUM MONOCHLORIDE

TOXICITY DATA with REFERENCE:

slt-mus-ipr 80 mg/kg MUREAV 191,111,87
 sce-ham:lng 500 $\mu\text{mol}/\text{L}$ HUGEDQ 54,155,80
 orl-rat LD50:128 mg/kg AMIHAB 13,34,56
 ipr-rat LD50:126 mg/kg AMIHAB 13,34,56
 ivn-rat LD50:118 mg/kg AMIHAB 13,34,56

orl-mus LD50:126 mg/kg AMIHAB 13,34,56
 ipr-mus LD50:133 mg/kg AMIHAB 13,34,56
 ivn-mus LD50:122 mg/kg AMIHAB 13,34,56
 ivn-dog LD50:53 mg/kg AMIHAB 13,34,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

NIOSH REL: (Hydrazines) CL 0.04 mg/ $\text{m}^3/2\text{H}$

SAFETY PROFILE: A poison by ingestion, intravenous, and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x . See also HYDRAZINE.

HGV500 HR: 3
HYDRAZINE MONOBORANE
mf: BH_7N_2 mw: 45.86

SAFETY PROFILE: A shock-sensitive explosive. Highly flammable. When heated to decomposition it emits toxic fumes of NO_x and BO_x . See also HYDRAZINE and BORANES.

HGV600 CAS: 27978-54-7 HR: 3
HYDRAZINE, PERCHLORATE
mf: $\text{ClHO}_4 \cdot x\text{H}_4\text{N}_2$ mw: 324.88

SYN: HYDRAZINE PERCHLORATE (DOT)

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: An unstable substance forbidden for transport. When heated to decomposition it emits toxic vapors of NO_x , CN^- , and Cl^- . See also PERCHLORATES.

HGW000 CAS: 63884-40-2 HR: 3
HYDRAZINE PROPANEMETHANE SULFONATE
mf: $\text{C}_4\text{H}_{11}\text{N}_2\text{O}_3\text{S} \cdot \text{Na}$ mw: 190.22

SYNS: N-ISOPROPYL HYDRAZINOMETHANESULFONIC ACID, SODIUM SALT ☐ K 653

TOXICITY DATA with REFERENCE:

orl-rat LD50:330 mg/kg 27ZQAG -,430,72
 ivn-mus LD50:500 mg/kg 27ZQAG -,430,72

SAFETY PROFILE: Poison by ingestion. Moderately toxic by intravenous route. When heated to decomposition it emits very toxic fumes of Na_2O , SO_x , and NO_x . See also HYDRAZINE and SULFONATES.

HGW100 CAS: 73506-32-8 HR: 3
HYDRAZINE SELENATE
mf: $\text{H}_4\text{N}_2 \cdot x\text{H}_2\text{O}_4\text{Se}$ mw: 1046.92

SYNS: HYDRAZINE, SELENATE ☐ SELENIC ACID, compd. with HYDRAZINE

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: An unstable substance forbidden for transport. When heated to decomposition it emits toxic vapors of NO_x .

HGW500 CAS: 10034-93-2 HR: 3
HYDRAZINE SULFATE (1:1)
mf: $\text{H}_4\text{N}_2 \cdot \text{H}_2\text{O}_4\text{S}$ mw: 130.14

PROP: Colorless crystals. D: 1.378, mp: 254° (decomp). Sol in water; insol in alc; very sol in hot water.

SYNS: HS ☐ HYDRAZINE HYDROGEN SULFATE ☐ HYDRAZINE MONOSULFATE ☐ HYDRAZINE SULPHATE ☐ HYDRAZINIUM SULFATE ☐ HYDRAZONIUM SULFATE ☐

IDRAZINA SOLFATO (ITALIAN) □ NSC-150014 □ SIRAN
HYDRAZINU (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 20 mg/24H MOD 28ZPAK -,15,72
dnr-bcs 20 µL/disc MUREAV 97,1,82
mmo-omi 1500 µg/L MUREAV 173,233,86
dns-hmn:fbr 1 mg/L PMRSDJ 1,528,81
orl-mus TDLo:1892 mg/kg (MGN):NEO,TER JCROD7
105,258,83
orl-hmn TDLo:201 mg/kg/8D:GIT,PNS,CNS
CCROBU 59,1151,75
orl-rat LD50:601 mg/kg 28ZPAK -,15,72
ipr-rat LD50:230 mg/kg RPTOAN 41,74,78
orl-mus LD50:740 mg/kg RPTOAN 41,74,78
ipr-mus LD50:152 mg/kg AEHLAU 17,315,68
orl-dog LDLo:100 mg/kg HBAMAK 4,1289,35
orl-rbt LDLo:100 mg/kg HBAMAK 4,1289,35

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Sufficient Evidence IMEMDT 4,127,74. Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

NIOSH REL: (Hydrazines) CL 0.04 mg/m³/2H

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. A poison by ingestion and intraperitoneal routes. Human systemic effects by ingestion: paresthesia (abnormal sensations), somnolence, nausea or vomiting. An experimental teratogen. Human mutation data reported. An eye irritant. A reducing agent. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also HYDRAZINE and SULFATES.

HGX000 **HR: 3**

HYDRAZINIUM CHLORATE

mf: ClH₅N₂O₃ mw: 116.51

SAFETY PROFILE: Explodes violently when heated to its melting point of 80°C. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also CHLORATES.

HGX500 **HR: 3**

HYDRAZINIUM CHLORITE

mf: ClH₅N₂O₂ mw: 100.50

SAFETY PROFILE: It is spontaneously flammable when dry. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also CHLORITES.

HGX550 **CAS: 83483-14-1** **HR: 3**

HYDRAZINIUM, 1,1-DIMETHYL-1-(2,3-DIMETHYL-2-HYDROXY-3-BUTENYL)-2-(1-OXOPROPYL)-, HYDROXIDE, INNER SALT

mf: C₁₁H₂₂N₂O₂ mw: 214.35

TOXICITY DATA with REFERENCE:

orl-mus LD50:>1 g/kg EJMCA5 17,265,82
ipr-mus LD50:300 mg/kg EJMCA5 17,265,82
ivn-mus LD50:145 mg/kg EJMCA5 17,265,82

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HGY000 **CAS: 13812-39-0** **HR: 2**

HYDRAZINIUM DIPERCHLORATE

mf: Cl₂H₆N₂O₈ mw: 232.97

SAFETY PROFILE: An explosive salt. Mixtures with metal compounds (e.g., copper chromate; copper chloride; nickel oxide; iron(III) oxide; magnesium oxide) have enhanced sensitivity to heat, impact or friction. Used as a rocket propellant component. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also PERCHLORATES.

HGY500 **HR: 3**

HYDRAZINIUM HYDROGENSELENATE

mf: H₆N₂O₄Se mw: 177.02

CONSENSUS REPORTS: Selenium and its compounds are on the Community Right-To-Know List.

OSHA PEL: TWA 0.2 mg(Se)/m³

ACGIH TLV: TWA 0.2 mg(Se)/m³

DFG MAK: 0.1 mg(Se)/m³

SAFETY PROFILE: A heat-sensitive explosive. When heated to decomposition it emits very toxic fumes of NO_x and Se. See also SELENIUM COMPOUNDS.

HGZ000 **CAS: 13464-97-6** **HR: 3**

HYDRAZINIUM NITRATE

mf: H₃N₃O₃ mw: 95.06

H₂NN⁺H₃NO₃⁻

SAFETY PROFILE: Explodes if heated rapidly to 300°C or if heated in a sealed container. Explodes above 70°C on contact with metals (e.g., cobalt; copper; zinc; and most other metals) and metal compounds (e.g., metal acetylides; -nitrides; -oxides; -sulfides). Explosive reaction with potassium dichromate above 100°C. Mixture with 2-hydroxyethylamine + water is an impact-sensitive explosive. Upon decomposition it emits toxic fumes of NO_x. See also EXPLOSIVES and NITRATES.

HHA000 **CAS: 13762-80-6** **HR: 3**

HYDRAZINIUM PERCHLORATE

mf: ClH₅N₂O₄ mw: 132.50

H₂NN⁺H₃ClO₄⁻

SAFETY PROFILE: An impact-sensitive explosive. Sensitivity to heat, impact, or friction is increased by the presence of metal salts or metal oxides (e.g., copper(II) chloride; copper chromite; copper chloride; nickel oxide; iron oxide; magnesium oxide). A component of some solid rocket fuels. Upon decomposition it emits toxic fumes of Cl⁻ and NO_x. See also PERCHLORATES.

HHA100 **CAS: 73953-53-4** **HR: 3**

HYDRAZINIUM TRIFLUOROSTANNITE

mf: H₄N₂•F₃HSn mw: 208.76

SYN: HYDRAZINE, TRIFLUOROSTANNITE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:18 mg/kg CSLNX* NX#04255

OSHA PEL: TWA 2 mg(Sn)/m³; TWA 2.5 mg(F)/m³

ACGIH TLV: TWA 2 mg(Sn)/m³; TWA 2.5 mg(F)/m³;
BEI: 3 mg/g creatinine of fluorides in urine prior to shift;
10 mg/g creatinine of fluorides in urine at end of shift.

NIOSH REL: (Fluorides, Inorganic): 10H TWA 2.5 mg(F)/m³

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x, Sn, and F⁻.

HHB000 CAS: 26049-71-8 HR: 2
2-HYDRAZINO-4-(p-AMINOPHENYL)THIAZOLE

mf: C₉H₁₀N₄S mw: 206.29

SYN: 2-HYDRAZINO-4-(4-AMINOPHENYL)THIAZOLE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

HHB100 CAS: 619-67-0 HR: 2
4-HYDRAZINOBENZOIC ACID

mf: C₇H₈N₂O₂ mw: 152.17

SYNS: BENZOIC ACID, 4-HYDRAZINO-(9CI) □ BENZOIC ACID, p-HYDRAZINO- □ p-CARBOXYPHENYLHYDRAZINE □ (4-CARBOXYPHENYL)HYDRAZINE □ p-HYDRAZINOBENZOIC ACID

TOXICITY DATA with REFERENCE:

mmo-sat 3 μmol/plate ZLUFAR 183,85,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HHB500 CAS: 615-21-4 HR: 3
2-HYDRAZINOBENZOTHAZOLE

mf: C₇H₇N₃S mw: 165.23

PROP: Needles from EtOH. Mp: 197–199°.

SYN: USAF EK-3967

TOXICITY DATA with REFERENCE:

orl-rat LDLo:100 mg/kg NCNSA6 5,23,53

ipr-mus LD50:100 mg/kg NTIS** AD277-689

par-mus LDLo:200 mg/kg CBCCT* 7,686,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and parenteral routes. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

HHB600 CAS: 1754-57-0 HR: 3
2-HYDRAZINO-N,N-DIMETHYLETHANAMINE

mf: C₄H₁₃N₃ mw: 103.20

SYNS: (β-(DIMETHYLAMINO)ETHYL)HYDRAZINE □ N-(2-(DIMETHYLAMINO)ETHYL)HYDRAZINE □ 2-(DIMETHYLAMINO)ETHYLHYDRAZINE □ ETHANAMINE, 2-HYDRAZINO-N,N-DIMETHYL- □ HYDRAZINE, (2-(DIMETHYLAMINO)-ETHYL)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:2110 mg/kg STGNBT-,81,1999

orl-mus LD50:1510 mg/kg STGNBT-,81,1999

ihl-mus LC50:649 mg/m³ STGNBT-,81,1999

ipr-mus LD50:145 mg/kg STGNBT-,81,1999

scu-mus LD50:1440 mg/kg STGNBT-,81,1999

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion, inhalation, and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x.

HHC000 CAS: 109-84-2 HR: 3
2-HYDRAZINOETHANOL

mf: C₂H₈N₂O mw: 76.12

PROP: Colorless, sltly viscous liquid. Mp: -70°, bp: 148–152° @ 25 mm, flash p: 224°F, vap d: 2.63, d: 1.11. Misc with water; sol in lower alcs; sltly sol in ether.

SYNS: BOH □ HYDROXYETHYL HYDRAZINE □ β-HYDROXYETHYLHYDRAZINE □ N-(2-HYDROXYETHYL)-HYDRAZINE □ OMAFLORA

TOXICITY DATA with REFERENCE:

mmo-esc 1 pph MUREAV 40,19,76

mma-esc 500 μg/plate MUREAV 116,185,83

orl-mus LD50:139 mg/kg OYYAA2 2,76,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits toxic fumes such as NO_x.

HHD000 CAS: 56393-22-7 HR: 3
3-HYDRAZINO-6-((2-HYDROXYPROPYL)-METHYLAMINO)PYRIDAZINE DIHYDRO-CHLORIDE

mf: C₈H₁₅N₅O•2ClH mw: 270.20

SYNS: 3-IDRAZINO-6-(N-(2-IDROSSIPROPIL)METILAMINO)-PIRIDAZINA DICLORIDRATO (ITALIAN) □ PROPILDAZINA (ITALIAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1230 mg/kg PLRCAT 8,295,76

ipr-rat LD50:355 mg/kg PLRCAT 8,295,76

orl-mus LD50:1170 mg/kg PLRCAT 8,295,76

ipr-mus LD50:600 mg/kg FRPSAX 34,299,79

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

HHD500 CAS: 26049-68-3 HR: 2
2-HYDRAZINO-4-(5-NITRO-2-FURYL)THIAZOLE

mf: C₇H₆N₄O₃S mw: 226.23

SYNS: HNT □ 2-HYDRAZINO-4-(5-NITRO-2-FURANYL)THIAZOLE

TOXICITY DATA with REFERENCE:

mmo-esc 10 μg/plate MUREAV 26,3,74

pic-esc 100 μg/L MUREAV 26,3,74

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

HHE000 CAS: 26049-70-7 HR: 2
2-HYDRAZINO-4-(4-NITROPHENYL)THIAZOLE

mf: $C_9H_8N_4O_2S$ mw: 236.27

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and SO_x . See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

HHE500 CAS: 56173-18-3 HR: D
1-HYDRAZINOPHTHALAZINE ACETONE HYDRAZONE

mf: $C_{11}H_{12}N_4$ mw: 200.27

SYN: 1-PHTHLAZINYLHYDRAZONE ACETONE

TOXICITY DATA with REFERENCE:mmo-sat 500 μg /plate MUREAV 68,79,79dnr-esc 200 μg /disc MUREAV 68,79,79

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .

HHF500 CAS: 63981-09-9 HR: 3
4-HYDRAZINO-2-THIOURACIL

mf: $C_4H_6N_4S$ mw: 142.20

SYN: 2-THIO-4-HYDRAZINOURACIL

TOXICITY DATA with REFERENCE:

ipr-rat LD50:360 mg/kg NEOLA4 22,255,75

ipr-mus LD50:340 mg/kg NEOLA4 22,255,75

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x .

HHG000 CAS: 122-66-7 HR: 3
HYDRAZOBENZENE

mf: $C_{12}H_{12}N_2$ mw: 184.26

PROP: Light or yellow crystals from ethanol. D: 1.58, mp: 126–127°, bp: decomp. Very sltly sol in water; insol in acetylene.

SYNS: N,N'-BIANILINE □ sym-DIPHENYLHYDRAZINE □ 1,2-DIPHENYLHYDRAZINE □ HYDRAZOBENZEN (CZECH) □ HYDRAZODIBENZENE □ NCI-C01854 □ RCRA WASTE NUMBER U109

TOXICITY DATA with REFERENCE:

mma-sat 10 ng/plate ENMUDM 7(Suppl 5),1,85

dni-mus-ipr 100 mg/kg MUREAV 46,305,77

scu-rat TDLo:6 g/kg/27W-I:ETA,REP VOONAW 20(4),53,74

orl-rat TD:36 g/kg/53W-I:ETA,TER VOONAW 20(4),53,74

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-92,78. Community Right-To-Know List. Reported in EPA TSCA Inventory.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Poison by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .

HHG500 CAS: 7782-79-8 HR: 3
HYDRAZOIC ACID

mf: HN_3 mw: 43.04

PROP: Colorless liquid; intolerable pungent odor. Mp: –80°, bp: 37°, d: 1.09 @ 25°/4°. Very sol in water.

SYNS: AZOIMIDE □ DIAZOIMIDE □ HYDROGEN AZIDE □ HYDRONITRIC ACID □ STICKSTOFFWASSERSTOFFSAEURE (GERMAN) □ TRIAZOIC ACID

TOXICITY DATA with REFERENCE:

ihl-hmn TCLo:300 ppb:CNS,BRN,CVS JIHTAB 30,98,48

ihl-rat LCLo:1100 ppm/1H PHRPA6 58,607,43

ipr-mus LD50:22 mg/kg JIHTAB 30,98,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

ACGIH TLV: CL 0.1 ppm (vapor)**DFG MAK:** 0.1 ppm (0.18 mg/m³)

SAFETY PROFILE: Poison by intraperitoneal route. Mildly toxic by inhalation. A severe irritant to skin, eyes, and mucous membranes. Continued inhalation causes central nervous system problems in humans (changes in EEG, somnolence, cough, headache, change in heart rate, fall in blood pressure, collapse, chills, and fever). High concentrations can cause fatal convulsions. Chronic exposure has been reported to cause injury to kidneys and spleen, hypotension, palpitation, ataxia, weakness. A dangerously sensitive explosive hazard when shocked or exposed to heat. Reacts with heavy metals to form very unstable heavy metal azides. Reacts violently with Cd, Cu, Ni, HNO_3 , F_2 . When heated to decomposition it emits toxic fumes of NO_x . See also AZIDES.

HHH000 CAS: 13529-51-6 HR: 3
2,2'-HYDRAZONODIETHANOL

mf: $C_4H_{12}N_2O_2$ mw: 120.18

SYNS: 1,1-BIS(2-HYDROXYETHYL)HYDRAZINE □ DEH □ 1,1-DIETHANOLHYDRAZINE

TOXICITY DATA with REFERENCE:

scu-rat LD50:110 mg/kg ARZNAD 12,260,62

scu-ham LD50:70 mg/kg CALEDQ 4,55,77

SAFETY PROFILE: A poison by subcutaneous route. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes such as NO_x .

HHH100 CAS: 67255-31-6 HR: 2
HYDREL

mf: $C_4H_{14}ClN_4OP$ mw: 200.64

SYN: p-(2-CHLOROETHYL)-2,2'-DIMETHYL PHOSPHONIC DIHYDRAZIDE (9CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:2313 mg/kg FATOAO 47(2),57,84

orl-mus LD50:1380 mg/kg GISAAA 51(10),85,86

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl^- , PO_x , and NO_x .

HHH500 HR: 3
HYDRIDES

SAFETY PROFILE: Variable toxicity. The highly toxic hydrides of phosphorus, arsenic, sulfur, selenium, tellurium, and boron produce local irritations and destroy red blood cells. They are particularly dangerous because of their volatility and ease of entry into the body. The hydrides of the alkali metals, alkaline earths, aluminum, zirconium, and titanium react with moisture to evolve

hydrogen and leave behind the hydroxide of the metallic element, which is usually caustic. See also SODIUM HYDROXIDE. The primary metallic hydrides include those of calcium, lithium, magnesium, potassium, sodium, and strontium. In the presence of moisture, they are readily converted to hydroxides that are highly irritating to the skin by caustic and thermal action. Similar effects can occur on contact with the eyes and respiratory mucous membranes. The volatile hydrides are flammable, some spontaneously so in air. All hydrides react violently on contact with powerful oxidizing agents. When heated or on contact with moisture or acids, an exothermic reaction evolving hydrogen occurs. Often, enough heat is evolved to cause ignition. Hydrides require special handling instructions that should be obtained from the manufacturers. The volatile hydrides (such as hydrides of boron, arsenic, phosphorus, selenium, tellurium) form explosive mixtures with air. The nonvolatile hydrides (such as sodium, lithium, calcium) readily liberate hydrogen when heated or on contact with moisture or acids. Furthermore, hydrides form dust clouds which can explode upon contact with flames, sparks, heat, or oxidizers. Highly dangerous; when heated, they can ignite at once or liberate explosive hydrogen. They react with moisture or acids to evolve heat and hydrogen. Violent reaction on contact with powerful oxidizers.

HHI000 CAS: 5950-69-6 HR: 3
HYDRINDANTIN, anhydrous

mf: $C_{18}H_{14}O_4$ mw: 294.32

SYN: 2,2',3,3',3',3'-HEXAHYDROXY(2,2'-BI INDAN)-1,1'-DIONE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:320 mg/kg CSLNX* NX#00810

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and fumes.

HHI500 CAS: 10034-85-2 HR: 3
HYDRIODIC ACID

DOT: UN 1787/UN 2197

mf: HI mw: 127.91

PROP: Acrid gas; colorless when freshly made, but rapidly turns yellowish or brown on exposure to light or air. Mp: -50.8° , bp: -35.38° @ 5 atm, d: 5.66 g/L @ 0° . Keep protected from light and air, preferably not above 3° . When heated, decomp to H_2 and I_2 . Aq solns are strongly acid. Attacks natural rubber. Misc with water and alc.

SYNS: ANHYDROUS HYDRIODIC ACID □ HYDRIODIC ACID, solution (UN 1787) (DOT) □ HYDROGEN IODIDE □ HYDROGEN IODIDE, anhydrous (UN 2197) (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive (UN 1787); DOT Class: 2.2; Label: Nonflammable Gas, Corrosive (UN 2197)

SAFETY PROFILE: Poison by ingestion and inhalation. A corrosive and poisonous irritant to skin, eyes, and mucous membranes. Explodes on contact with ethyl hydroperoxide. Ignites on contact with magnesium,

perchloric acid, potassium + heat, potassium chlorate + heat, oxidants (e.g., fluorine, dinitrogen trioxide, dinitrogen tetroxide, fuming nitric acid). Violent reaction with $HClO_4 + Mg, O_3$, metals. Potentially violent reaction with phosphorus. Reacts with water or steam to produce toxic and corrosive fumes. When heated to decomposition it emits highly toxic fumes of I^- . See also IODIDES.

HHJ000 CAS: 10035-10-6 HR: 3
HYDROBROMIC ACID

DOT: UN 1048/UN 1788

mf: BrH mw: 80.92

PROP: Colorless with an acrid odor, or pale-yellow liquid. Mp: -87° , bp: -66.5° , d: 3.50 g/L @ 0° . Misc with water, alc. Keep protected from light. IDLH 30 ppm.

SYNS: ACIDE BROMHYDRIQUE (FRENCH) □ ACIDO BROMIDICO (ITALIAN) □ ANHYDROUS HYDROBROMIC ACID □ BROMOWODOR (POLISH) □ BROMWASSERSTOFF (GERMAN) □ BROOMWATERSTOF (DUTCH) □ HYDROBROMIC ACID SOLUTION, >49% hydrobromic acid (UN 1788) (DOT) □ HYDROBROMIC ACID SOLUTION, not >49% hydrobromic acid (UN 1788) (DOT) □ HYDROGEN BROMIDE (ACGIH, OSHA, MAK) □ HYDROGEN BROMIDE, anhydrous (UN 1048) (DOT)

TOXICITY DATA with REFERENCE:

ihl-rat LC50:2858 ppm/1H NTIS** PB214-270

ihl-mus LC50:814 ppm/1H NTIS** PB214-270

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 3 ppm

ACGIH TLV: CL 3 ppm; (Proposed: CL 2 ppm)

DFG MAK: 2 ppm (6.7 mg/m³)

DOT CLASSIFICATION: 8; Label: Corrosive (UN 1788); DOT Class: 2.3; Label: Poison Gas, Corrosive (UN 1048)

SAFETY PROFILE: A poison gas. A corrosive irritant to the eyes, skin, and mucous membranes. Reacts violently with F_2 , Fe_2O_3 , NH_3 , O_3 . When heated to decomposition or in reaction with water or steam it emits toxic and corrosive fumes of Br^- and HBr. See also BROMIDES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Acids, Inorganic, 7903.

HHJ500 HR: 3
HYDROCARBON GAS

DOT: UN 1023/UN 1964/UN 1965

PROP: Contains hydrogen, methane, carbon monoxide, lel: 5.3%, uel: 31%, autoign temp: 1200°F.

SYNS: COAL GAS (UN 1023) (DOT) □ HYDROCARBON GASES, COMPRESSED, N.O.S. (UN 1964) (DOT) □ HYDROCARBON GASES, LIQUEFIED, N.O.S. (UN 1965) (DOT) □ HYDROCARBON GASES MIXTURES, COMPRESSED, N.O.S. (UN 1964) (DOT) □ HYDROCARBON GASES MIXTURES, LIQUEFIED, N.O.S. (UN 1965) (DOT)

DOT CLASSIFICATION: 2.1; Label: Flammable Gas (UN 1964, UN 1965); DOT Class: 2.3; Label: Poison Gas, Flammable Gas (UN 1023)

SAFETY PROFILE: A poison by inhalation. Very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Moderately explosive when exposed to heat or flame. To fight fire, stop flow of gas; CO_2 , dry chemical, or water spray. See

also CARBON MONOXIDE, HYDROGEN, and METHANE.

HHK000 CAS: 9034-34-8 HR: 2
HYDROCELLULOSE

SYN: REGENERATED CELLULOSE

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and fumes.

HHK050 CAS: 17692-34-1 HR: 3
HYDROCHLORBENZETHYLAMINE

mf: $C_{23}H_{31}ClN_2O_3$ mw: 419.01

SYNS: 8-(4-(4-CHLOROPHENYLPHENYLMETHYL)PIPERAZINYL)-3,6-DIOXAOctANOL □ 3,6-DIOXAOctANOL, 8-(4-(4-CHLOROPHENYLPHENYLMETHYL)PIPERAZINYL)- □ ETHANOL, 2-(2-(2-(4-(p-CHLORO- α -PHENYLBENZYL)-1-PIPERAZINYL)ETHOXY)ETHOXY)- □ ETHANOL, 2-(2-(2-(4-(4-CHLOROPHENYL)PHENYLMETHYL)-1-PIPERAZINYL)-ETHOXY)ETHOXY)- □ ETODROXINE □ ETODROXYZINE □ VESPARAX-WIRKSTOFF □ UCB 1414

TOXICITY DATA with REFERENCE:

orl-rat LD50:920 mg/kg 27ZQAG-,236,1972

ivn-rat LD50:58 mg/kg 27ZQAG-,236,1972

orl-mus LD50:540 mg/kg 27ZQAG-,236,1972

ivn-mus LD50:70 mg/kg 27ZQAG-,236,1972

SAFETY PROFILE: A poison by intravenous. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Cl^- .

HHK100 CAS: 17692-34-1 HR: 2
HYDROCHLORBENZETHYLAMINE DIMALEATE

mf: $C_{23}H_{31}ClN_2O_5 \cdot 2C_4H_4O_4$ mw: 651.17

SYNS: 2-(2-(2-(4-(p-CHLORO- α -PHENYLBENZYL)-1-PIPERAZINYL)ETHOXY)ETHOXY)ETHANOL DIMALEATE □ ETHANOL, 2-(2-(2-(4-(p-CHLORO- α -PHENYLBENZYL)-1-PIPERAZINYL)ETHOXY)ETHOXY)-, DIMALEATE □ ETODROXIZINE DIMALEATE □ ETODROXYZINE DIMALEATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:920 mg/kg PSDTAP 9,134,68

SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and Cl^- .

HHL000 CAS: 7647-01-0 HR: 3
HYDROCHLORIC ACID

DOT: UN 1050/UN 1789/UN 2186

mf: ClH mw: 36.46

PROP: Colorless, corrosive, gas or fuming liquid; strongly corrosive with pungent odor. Dissolves in H_2O to give a strong, highly corrosive acid. Mp: -114.3° , bp: -84.8° , d: (gas) 1.639 g/L @ 0° , (liquid) 1.194 @ -26° , vap press: 4.0 atm @ 17.8° . Very sol in H_2O ; sol in MeOH, EtOH, and Et_2O . IDLH 50 ppm.

SYNS: ACIDE CHLORHYDRIQUE (FRENCH) □ ACIDO CLORIDRICO (ITALIAN) □ ANHYDROUS HYDROCHLORIC ACID □ CHLOORWATERSTOF (DUTCH) □ CHLOROHYDRIC ACID □ CHLOROWODOR (POLISH) □ CHLORWASSERSTOFF (GERMAN) □ HYDROCHLORIC ACID, solution (UN 1789) (DOT)

□ HYDROCHLORIDE □ HYDROGEN CHLORIDE, anhydrous (UN 1050) (DOT) □ HYDROGEN CHLORIDE, refrigerated liquid (UN 2186) (DOT) □ MURIATIC ACID □ SPIRITS of SALT

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg rns MLD TXYCAY 23,281,82

dnr-esc 25 μ g/well ENMUDM 3,429,81

cyt-grh-par 20 mg NULSAK 9,119,66

ihl-hmn LCLo:1300 ppm/30M 29ZWAE -,207,68

ihl-hmn LCLo:3000 ppm/5M TABIA2 3,231,33

unr-man LDLo:81 mg/kg 85DCAI 2,73,70

ihl-rat LC50:3124 ppm/1H AMRL** TR-74-78,74

ihl-mus LC50:1108 ppm/1H JCTODH 3,61,76

ipr-mus LD50:1449 mg/kg COREAF 256,1043,63

orl-rbt LD50:900 mg/kg BIZEA2 134,437,23

ihl-rbt LCLo:4416 ppm/30M JIHTAB 24,222,42

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: CL 5 ppm

ACGIH TLV: CL 2 ppm; Not Classifiable as a Human Carcinogen

DFG MAK: 5 ppm (7.6 mg/ m^3)

DOT CLASSIFICATION: 8; Label: Corrosive (UN 1789); DOT Class: 2.3; Label: Poison Gas, Corrosive (UN 1050, UN 2186)

SAFETY PROFILE: A human poison by an unspecified route. Mildly toxic to humans by inhalation. Moderately toxic experimentally by ingestion. A corrosive irritant to the skin, eyes, and mucous membranes. Mutation data reported. An experimental teratogen. A concentration of 35 ppm causes irritation of the throat after short exposure. In general, hydrochloric acid causes little trouble in industry other than from accidental splashes and burns. It is a common air contaminant and is heavily used in industry.

Nonflammable gas. Explosive reaction with alcohols + hydrogen cyanide, potassium permanganate, sodium, tetraselenium tetranitride. Ignition on contact with fluorine, hexalithium disilicide, metal acetylides or carbides (e.g., cesium acetylide, rubidium acetylide). Violent reactions with acetic anhydride, 2-amino ethanol, NH_4OH , Ca_3P_2 , chlorosulfonic acid, 1,1-difluoroethylene, ethylene diamine, ethylene imine, oleum, $HClO_4$, β -propiolactone, propylene oxide, ($AgClO_4 + CCl_4$), NaOH, H_2SO_4 , U_3P_4 , vinyl acetate, CaC_2 , Cs_2H , Cs_2C_2 , Mg_3B_2 , $HgSO_4$, RbC_2H , Rb_2C_2 , Na. Vigorous reaction with aluminum, chlorine + dinitroanilines (evolves gas). Potentially dangerous reaction with sulfuric acid releases HCl gas. When heated to decomposition it emits toxic fumes of Cl^- . See also HYDROGEN CHLORIDE.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Acids, Inorganic, 7903.

HHM000 CAS: 8007-56-5 HR: 3
HYDROCHLORIC ACID, mixed with NITRIC ACID (3:1)

DOT: UN 1798

mf: $ClH \cdot HNO_3$

PROP: Yellow, fuming, corrosive, volatile liquid; suffocating odor. Misc with water.

SYNS: AQUA REGIA □ NITROHYDROCHLORIC ACID (DOT) □ NITROHYDROCHLORIC ACID, diluted (DOT) □ NITRO-MURIATIC ACID (DOT)

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: A corrosive irritant to the eyes, skin, and mucous membranes. When heated to decomposition it emits very toxic HCl, HNO₃, Cl⁻, and NO_x. See also HYDROCHLORIC ACID, NITRIC ACID, and NITROSYL CHLORIDE.

HHM500 CAS: 455-80-1 HR: 3
**HYDROCHLORIDE of DI-n-BUTYLAMINO-
 PROPYL-3-iodo-4-FLUOROBENZOATE**

mf: C₁₈H₂₇FINO₂•ClH mw: 471.82

SYN: 4-FLUORO-3-iodobenzoic acid-3-(dibutylamino)propyl ester, hydrochloride

TOXICITY DATA with REFERENCE:

scu-mus LD50:3000 mg/kg JAPMA8 39,4,50

ivn-mus LDLo:55 mg/kg JAPMA8 39,4,50

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of F⁻, NO_x, I⁻, and HCl.

HHP000 CAS: 104-53-0 HR: 3
HYDROCINNAMALDEHYDE

mf: C₉H₁₀O mw: 134.19

PROP: Colorless to sltly yellow liquid; strong floral, hyacinth odor. Bp: 221–224°, d: 1.010–1.020, refr index: 1.520–1.532, flash p: 203°F. Misc with alc, ether; insol in water.

SYNS: BENZENEPROPANAL □ BENZYLACETALDEHYDE □ DIHYDROCINNAMALDEHYDE □ FEMA No. 2887 □ HYDROCINNAMIC ALDEHYDE □ 3-PHENYLPROPANAL □ 3-PHENYL-1-PROPANAL □ 3-PHENYLPROPIONALDEHYDE (FCC) □ β-PHENYLPROPIONALDEHYDE □ 3-PHENYLPROPYL ALDEHYDE

TOXICITY DATA with REFERENCE:

skn-hmn 100% FCTXAV 12,967,74

ivn-mus LD50:56 mg/kg CSLNX* NX#05219

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous route. A human skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and fumes. See also ALDEHYDES.

HHP050 CAS: 122-97-4 HR: 2
HYDROCINNAMIC ALCOHOL

mf: C₉H₁₂O mw: 136.21

PROP: Colorless sltly viscous liquid; sweet, hyacinth-mignonette odor. D: 0.998–1.002, bp: 235°, refr index: 1.524–1.528, flash p: 228°F. Sol in fixed oils, propylene glycol; insol in glycerin.

SYNS: 3-BENZENEPROPANOL □ FEMA No. 2885 □ HYDROCINNAMYL ALCOHOL □ (3-HYDROXYPROPYL)-BENZENE □ γ-PHENYLPROPANOL □ 3-PHENYLPROPANOL □ 3-PHENYL-1-PROPANOL (FCC) □ PHENYLPROPYL ALCOHOL □ γ-PHENYLPROPYL ALCOHOL □ 3-PHENYLPROPYL ALCOHOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,893,79

orl-rat LD50:2300 mg/kg FCTXAV 17,893,79

skn-rbt LD50:5000 mg/kg FCTXAV 17,893,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. A skin irritant. Combustible liquid. When heated to decomposition it emits toxic fumes. See also ALCOHOLS.

HHP100 CAS: 645-59-0 HR: 3
HYDROCINNAMONITRILE

mf: C₉H₉N mw: 131.19

PROP: Bp: 261°.

SYNS: BENZENEPROPANENITRILE (9CI) □ BENZENEPROPIONITRILE □ (2-CYANOETHYL)BENZENE □ HYDROCINNAMIQUE NITRILE (FRENCH) □ PHENETHYL CYANIDE □ 2-PHENYLETHYL CYANIDE □ 3-PHENYLPROPANENITRILE □ PHENYLPROPIONITRILE □ β-PHENYLPROPIONITRILE □ 3-PHENYLPROPIONITRILE

TOXICITY DATA with REFERENCE:

orl-mus LD50:116 mg/kg ARTODN 55,47,84

ivn-rbt LDLo:39 mg/kg COREAF 153,895,11

scu-gpg LDLo:150 mg/kg COREAF 153,895,11

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List. **SAFETY PROFILE:** Poison by ingestion, intravenous, and subcutaneous routes. When heated to decomposition it emits toxic fumes of CN⁻. See also NITRILES.

HHP500 CAS: 122-72-5 HR: 2
HYDROCINNAMYL ACETATE

mf: C₁₁H₁₄O₂ mw: 178.25

PROP: Colorless liquid; spicy, floral odor. D: 1.012, refr index: 1.494, flash p: 212°F. Sol in alc; insol in water.

SYNS: FEMA No. 2890 □ 3-PHENYL-1-PROPANOL ACETATE □ PHENYLPROPYL ACETATE □ 3-PHENYLPROPYL ACETATE (FCC) □ 3-PHENYL-1-PROPYL ACETATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4700 mg/kg FCTXAV 12,965,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. Combustible liquid. When heated to decomposition it emits acrid smoke and fumes.

HHQ000 CAS: 104-64-3 HR: 1
HYDROCINNAMYL FORMATE

mf: C₁₀H₁₂O₂ mw: 164.22

SYNS: PHENYLPROPYL FORMATE □ 3-PHENYL-1-PROPYL FORMATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,659,76

orl-rat LD50:4090 mg/kg FCTXAV 14,659,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also FORMIC ACID.

HHQ500 CAS: 103-58-2 HR: 1
HYDROCINNAMYL ISOBUTYRATE

mf: C₁₃H₁₈O₂ mw: 206.31**SYNS:** ISOBUTYRIC ACID-3-PHENYLPROPYL ESTER □ 3-PHENYLPROPYL ISOBUTYRATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H FCTXAV 16,851,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.**HHQ550 CAS: 122-74-7 HR: 1
HYDROCINNAMYL PROPIONATE**mf: C₁₂H₁₆O₂ mw: 192.28**SYNS:** BENZENEPROPANOL, PROPANOATE (9CI) □ PHENYLPROPYL PROPIONATE □ β-PHENYLPROPYL PROPIONATE □ 3-PHENYLPROPYL PROPIONATE □ 1-PROPANOL, 3-PHENYL-, PROPIONATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTOD7 20,809,82

orl-rat LD50:>5 g/kg FCTOD7 20,809,82

skn-rbt LD50:>5 g/kg FCTOD7 20,809,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**HHQ800 CAS: 50-03-3 HR: 3
HYDROCORTISONE-21-ACETATE**mf: C₂₃H₃₂O₆ mw: 404.55**PROP:** Monoclinic, sphenoidal, tabular crystals from dil acetone; tasteless, somewhat hygroscopic. D: 1.289, decomp @ 223°, mp: 225°. Solubility in water: 1 mg/100 mL; in ethanol: 0.45 g/100 mL; in methanol: 3.9 mg/mL; in acetone: 1.1 mg/g; in ether: 0.15 mg/mL. One gram dissolves in about 200 mL chloroform. Very sol in DMF. Also sol in dioxane.**SYNS:** ABBOCORT □ ACETATE-AS □ ACETO-CORT □ 21-ACETOXY-11-β,17-α-DIHYDROXYPREGN-4-ENE-3,20-DIONE □ (11-β)-21-(ACETOXY)-11,17-DIHYDROXY-PREGN-4-ENE-3,20-DIONE □ (11-β)-21-(ACETYLOXY)-11,17-DIHYDROXY-PREGN-4-ENE-3,20-DIONE (9CI) □ BAMBICORT □ BERLISON F □ BIOCORTAR □ CARMOL HC □ CHEMYNONE □ COLLUSUL-HC □ COMPOUND F ACETATE □ CORTACREAM □ CORTAID □ CORTEF ACETATE □ CORTELL □ CORTES □ CORTIFOAM □ CORTISOL ACETATE □ CORTIL ACETATE □ CORTIL ACETATE-AS □ 11-β,17-α-DIHYDROXY-21-ACETOXYPREGESTERONE □ EPIFOAM □ EYE-CORT □ FERNISONE □ HA □ HCA □ HYCORTOLE ACETATE □ HYDRIN-2 □ 17-HYDROXY-CORTICOSTERONE 21-ACETATE □ 17-α-HYDROXYCORTICOSTERONE ACETATE □ HYSONE-A □ ISOPTO-HYDROCORTISONE □ LANACORT □ MYNONE □ NSC-741 □ PABRACORT □ 11-β,17,21-TRIHYDROXY-PREGN-4-ENE-3,20-DIONE 21-ACETATE**TOXICITY DATA with REFERENCE:**

dnd-mus-ipr 60 mg/kg OFAJAE 51,174

oms-mus-ipr 150 mg/kg BEXBAN 77,437,74

scu-rat LDLo:250 mg/kg ARZNAD 27,2102,77

ipr-mus LD50:2300 mg/kg CLDND* JAN86

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by intraperitoneal route. Experimental teratogenic and reproductive effects. Mutation data

reported. A steroid. When heated to decomposition it emits acrid smoke and fumes. See also other hydrocortisone entries.

**HHQ825 CAS: 13609-67-1 HR: 2
HYDROCORTISONE-17-BUTYRATE**mf: C₂₅H₃₆O₆ mw: 432.61**PROP:** A solid. Mp: 208–210°.**SYNS:** (11-β)-11,21-DIHYDROXY-17-(1-OXOBUTOXY)-PREGN-4-ENE-3,20-DIONE □ HB¹⁷ □ H.17B □ HYDROCORTISONE BUTYRATE □ HYDROCORTISONE 17-α-BUYTRATE □ LOCOID**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:1550 mg/kg NIIRDN 6,628,82

scu-mus LD50:2150 mg/kg JTSCDR 6(Suppl),1,81

SAFETY PROFILE: Moderately toxic by subcutaneous and intraperitoneal routes. Experimental teratogenic and reproductive effects. A steroid. When heated to decomposition it emits acrid smoke and fumes. See also other hydrocortisone entries.**HHQ850 CAS: 72590-77-3 HR: 2
HYDROCORTISONE-17-BUTYRATE-21-PROPIONATE**mf: C₂₄H₄₀O₇ mw: 488.68**PROP:** A solid. Mp: 122°.**SYNS:** 17-BUTYRLOXY-11-β-HYDROXY-21-PROPIONYLOXY-4-PREGNENE-3,20-DIONE □ HBP □ HYDROCORTISONE BUYTRATE PROPIONATE □ (11-β)-11-HYDROXY-17-(1-OXOBUTOXY)-21-(1-OXOPROPOXY)-PREGN-4-ENE-3,20-DIONE □ 11-β,17,21-TRIHYDROXY-PREGN-4-ENE-3,30-DIONE 17-BUTYRATE, 21-PROPIONATE**TOXICITY DATA with REFERENCE:**

skn-rbt 1000 ppm MLD YACHDS 9,3023,81

orl-rat LD50:5120 mg/kg JTSCDR 6(Suppl),1,81

ipr-rat LD50:1420 mg/kg JTSCDR 6(Suppl),1,81

scu-rat LD50:3260 mg/kg JTSCDR 6(Suppl),1,81

orl-mus LD50:6720 mg/kg JTSCDR 6(Suppl),1,81

ipr-mus LD50:1660 mg/kg JTSCDR 6(Suppl),1,81

scu-mus LD50:1980 mg/kg JTSCDR 6(Suppl),1,81

SAFETY PROFILE: Moderately toxic by subcutaneous and intraperitoneal routes. Mildly toxic by ingestion. Experimental reproductive effects. An experimental teratogen. A skin irritant. A steroid. When heated to decomposition it emits toxic fumes. See also other hydrocortisone entries.**HHQ875 CAS: 3863-59-0 HR: D
HYDROCORTISONE-21-PHOSPHATE**mf: C₂₁H₃₁O₈P mw: 442.49**SYNS:** CORPHOS □ CORTIPHATE INJECTABLE □ CORTISOL PHOSPHATE □ CORTISOL-21-PHOSPHATE □ (11-β)-11,17-DIHYDROXY-21-(PHOSPHONOXY)-PREGN-4-ENE-3,20-DIONE (9CI) □ HYDROCORTISONE PHOSPHATE □ 21-HYDROCORTISONEPHOSPHORIC ACID**TOXICITY DATA with REFERENCE:**

ivn-rbt TDLo:900 mg/kg (female 8-16D post):TER

TJADAB 12,195,75

ivn-rbt TDLo:1800 mg/kg (8-16D preg):REP TJADAB 12,195,72

SAFETY PROFILE: Experimental teratogenic and reproductive effects. A steroid. When heated to decomposition it emits toxic fumes of PO_x. See also other hydrocortisone entries.

HHR000 CAS: 125-04-2 HR: 2**HYDROCORTISONE SODIUM SUCCINATE**mf: $C_{25}H_{35}O_9 \cdot Na$ mw: 502.59

PROP: White, odorless, hygroscopic, amorph solid or powder. Mp: 169–171°. Very sol in water and alc; insol in chloroform; very sltly sol in acetone.

SYNS: A-HYDROCORT □ BUCCALSONE □ CORLAN □ CORTISOL HEMISUCCINATE SODIUM SALT □ CORTISOL SODIUM HEMISUCCINATE □ CORTISOL SODIUM SUCCINATE □ CORTISOL-21-SODIUM SUCCINATE □ CORTISOL SUCCINATE, SODIUM SALT □ EL-CORTELAN SOLUBLE □ EMI-CORLIN □ FLEBOCORTID □ HYCORACE □ HYDROCORTISONE-21-SODIUM SUCCINATE □ 21-(HYDROGEN SUCCINATE)-CORTISOL, MONOSODIUM SALT □ INTRACORT □ NORDICORT □ ORALSONE □ SODIUM HYDROCORTISONE SUCCINATE □ SODIUM HYDROCORTISONE-21-SUCCINATE □ SOLU-CORTEF □ SOLU-GLYC □ U 4905

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1320 mg/kg NIIRDN 6,625,82

ipr-mus LD50:1050 mg/kg NIIRDN 6,625,82

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of Na_2O . See also other hydrocortisone entries.

HHR500 CAS: 119-84-6 HR: 3**HYDROCUMARIN**mf: $C_9H_8O_2$ mw: 148.17

PROP: Colorless to pale-yellow liquid or crystals; coconut odor. Mp: 25°, bp: 272°, d: 1.186, refr index: 1.555, flash p: 266°F.

SYNS: 1,2-BENZODIHYDROPYRONE (FCC) □ 2-CHROMANONE □ DIHYDROCUMARIN □ 3,4-DIHYDROCUMARIN □ o-HYDROXY-HYDROCINNAMIC ACID-Δ-LACTONE □ FEMA No. 2381 □ MELILOTIN □ MELILOTOL □ NCI-C55890 □ 2-OXOCHROMAN □ USAF DO-12

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,521,74

skn-gpg 1%/48H MOD JSCCA5 28,357,77

orl-rat LD50:1460 mg/kg FCTXAV 2,327,64

ipr-mus LD50:200 mg/kg NTIS** AD277-689

orl-gpg LD50:1760 mg/kg FCTXAV 2,327,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and fumes.

HHR700 CAS: 522-60-1 HR: 3**HYDROCUPREINE ETHYL ETHER**mf: $C_{21}H_{28}N_2O_2$ mw: 340.51

PROP: White, bitter, crystalline powder or crystals. Mp: 123–128° when solvent-free. Practically insol in water; sol in alc, benzene, chloroform, ether, dil acids, oils, fats.

SYNS: ETHYLHYDROCUPREINE □ NUMOQUIN □ OPTOCHIN □ OPTOQUINE

TOXICITY DATA with REFERENCE:

eye-rbt 1% OPHTAD 143,154,62

scu-mus LDLo:5000 mg/kg JPETAB 8,53,16

orl-mus LDLo:400 mg/kg HBAMAK 4,1289,35

scu-mus LDLo:24 mg/kg HBAMAK 4,1289,35

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x . See also ETHERS.

HHS000 CAS: 74-90-8 HR: 3**HYDROCYANIC ACID**

DOT: NA 1051/UN 1613/UN 1614

mf: CHN mw: 27.03

PROP: Very volatile liquid or colorless gas smelling of bitter almonds. Mp: -13° , bp: 25.7° , lel: 5.6%, uel: 40%, flash p: $0^\circ F$ (CC), d: 0.715 @ 0° , autoign temp: $1000^\circ F$, vap press: 400 mm @ 9.8° , vap d: 0.932. Misc in water, alc, and ether. IDLH 50 ppm.

SYNS: ACIDE CYANHYDRIQUE (FRENCH) □ ACIDO CIANIDRICO (ITALIAN) □ AERO liquid HCN □ BLAUSAEURE (GERMAN) □ BLAUWZUUR (DUTCH) □ CARBON HYDRIDE NITRIDE (CHN) □ CYANWATERSTOF (DUTCH) □ CYANWASSERSTOFF (GERMAN) □ CYCLON □ CYCLONE B □ CYJANOWODOR (POLISH) □ EVERCYN □ FORMIC ANAMMONIDE □ FORMONITRILE □ HYDROCYANIC ACID, aqueous solutions <5% HCN (NA 1613) (DOT) □ HYDROCYANIC ACID, aqueous solutions not >20% hydrocyanic acid (UN 1613) (DOT) □ HYDROCYANIC ACID (PRUSSIC), unstabilized (DOT) □ HYDROGEN CYANIDE □ HYDROGEN CYANIDE (ACGIH, OSHA) □ HYDROGEN CYANIDE, anhydrous, stabilized (UN 1051) (DOT) □ HYDROGEN CYANIDE, anhydrous, stabilized, absorbed in a porous inert material (UN 1614) (DOT) □ PRUSSIC ACID □ PRUSSIC ACID, UNSTABILIZED □ RCRA WASTE NUMBER P063 □ ZACLONDISCOIDS

TOXICITY DATA with REFERENCE:

orl-hmn LDLo:570 µg/kg PCOC** -,596,66

ihl-man TCLo:500 mg/m³/3M-C HUTODJ 3,57,84

ihl-hmn LCLo:200 ppm/5M TABIA2 3,231,33

ihl-hmn LCLo:120 mg/m³/1H JIHTAB 24,255,42ihl-hmn LCLo:200 mg/m³/10M WHOTAC -,30,70ihl-man LCLo:400 mg/m³/2M 85GMAT -,75,82

scu-hmn LDLo:1 mg/kg SCJUAD 4,33,67

ivn-hmn LD50:1 mg/kg SCJUAD 4,33,67

ivn-man TDLo:55 µg/kg:PUL NTIS** PB158-508

unr-man LDLo:1471 µg/kg 85DCAI 2,73,70

ims-rbt LD50:486 µg/kg JACTDZ 1(3),120,82

ocu-rbt LD50:1040 µg/kg JTOTDO 2,119,83

ihl-rat LC50:160 ppm/30M FAATDF 9,236,87

ivn-rat LD50:810 µg/kg NTIS** AD-A028-501

orl-mus LD50:3700 µg/kg APFRAD 19,740,61

ihl-mus LC50:323 ppm/5M TXAPA9 42,417,77

ipr-mus LD50:2990 µg/kg BJPCAL 23,455,64

scu-mus LDLo:3 mg/kg HBAMAK 4,1340,35

ivn-mus LD50:990 µg/kg NTIS** AD-A028-501

ims-mus LD50:2700 µg/kg BJPCAL 23,455,64

orl-dog LDLo:4 mg/kg HBAMAK 4,1340,35

ihl-dog LC50:616 mg/m³/1M NTIS** AD-A028-501

scu-dog LDLo:1700 µg/kg HBAMAK 4,1340,35

ivn-dog LD50:1340 µg/kg NTIS** AD-A028-501

ihl-mky LC50:1616 mg/m³/1M NTIS** AD-A028-501

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: STEL 4.7 ppm (skin)

ACGIH TLV: CL 4.7 ppm (skin)**DFG MAK:** 10 ppm (11 mg/m³)**NIOSH REL:** (Cyanide) CL 5 mg(CN)/m³/10M**DOT CLASSIFICATION:** 6.1; Label: Poison (NA 1613, UN 1613, UN 1614); DOT Class: Forbidden (unstabilized); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 1051)

SAFETY PROFILE: A deadly human and experimental poison by all routes. Hydrocyanic acid and the cyanides are true protoplasmic poisons, combining in the tissues with the enzymes associated with cellular oxidation. They thereby render the oxygen unavailable to the tissues and cause death through asphyxia. The suspension of tissue oxidation lasts only while the cyanide is present; upon its removal, normal function is restored, provided death has not already occurred. HCN does not combine easily with hemoglobin, but it does combine readily with methemoglobin to form cyanmethemoglobin. This property is utilized in the treatment of cyanide poisoning when an attempt is made to induce methemoglobin formation. The presence of cherry-red venous blood in cases of cyanide poisoning is due to the inability of the tissues to remove the oxygen from the blood. Exposure to concentrations of 100–200 ppm for periods of 30–60 minutes can cause death. In cases of acute cyanide poisoning death is extremely rapid, although sometimes breathing may continue for a few minutes. In less acute cases, there is cyanosis, headache, dizziness, unsteadiness of gait, a feeling of suffocation, and nausea. Where the patient recovers, there is rarely any disability.

Very dangerous fire hazard when exposed to heat, flame, or oxidizers. Can polymerize explosively at 50–60°C or in the presence of traces of alkali. Severe explosion hazard when exposed to heat or flame or by chemical reaction with oxidizers. The anhydrous liquid is stabilized at or below room temperature by the addition of acid. The gas forms explosive mixtures with air. Reacts violently with acetaldehyde. To fight fire, use CO₂, non-alkaline dry chemical, foam. When heated to decomposition or in reaction with water, steam, acid, or acid fumes it produces highly toxic fumes of CN⁻. An insecticide. See also CYANIDE.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Cyanides, 7904.

HHS500 HR: 3 HYDROCYANIC ACID, mixed with CYANOGEN CHLORIDE (3:2 BY WT)

SYN: HCN-CNCL MIXTURE**TOXICITY DATA with REFERENCE:**ihl-mus LC50:820 mg/m³/2M NDRC** No. 9-4-1-9,43

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.

NIOSH REL: CL (Cyanide) 5 mg(CN)/m³/10M

SAFETY PROFILE: A poison by all routes. When heated to decomposition it emits very toxic fumes of HCN, NO_x, Cl⁻, and CN⁻. See also HYDROCYANIC ACID and CYANOGEN CHLORIDE.

HHT000 HR: 3 HYDROCYANIC ACID, SALTS

SYN: CYANIDES

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.

OSHA PEL: TWA 5 mg(CN)/m³**ACGIH TLV:** CL 5 mg(CN)/m³ (skin)**DFG MAK:** 5 mg/m³**NIOSH REL:** (Cyanide) CL 5 mg/m³/10M

SAFETY PROFILE: A deadly poison. When heated to decomposition it emits toxic fumes of CN⁻. See also CYANIDE and SODIUM CYANIDE.

HHS600 CAS: 16872-11-0 HR: 2 HYDROFLUOBORIC ACID

DOT: UN 1775mf: BF₄•H mw: 87.82

PROP: Colorless liquid. Bp: 130° (decomposes). Miscible in water.

SYNS: BORATE(1-), TETRAFLUORO-, HYDROGEN □ BOROFUORIC ACID □ FLUOBORIC ACID □ FLUOBORIC ACID (DOT) □ HYDROGEN TETRAFLUOROBORATE □ TETRAFLUOROBORIC ACID

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2.5 mg(F)/m³**NIOSH REL:** (Fluorides, inorganic) TWA 2.5 mg(F)/m³**DOT CLASSIFICATION:** 8; Label: Corrosive

SAFETY PROFILE: A severe corrosive. A severe skin and eye irritant. When heated to decomposition it emits toxic vapors of boron and F⁻.

HHU500 CAS: 7664-39-3 HR: 3 HYDROFLUORIC ACID

DOT: UN 1052/UN 1790

mf: FH mw: 20.01

PROP: Clear, colorless, nonflammable, fuming, corrosive liquid or gas. One of the most acidic substances known, but aq solns are only weakly acid. Dissolves silica to give H₂SiF₆. Mp: -83.1°, bp: 19.54°, d: 0.901 g/L (gas), 0.699 @ 22° (liquid), vap press: 400 mm @ 2.5°. Very sol in H₂O, EtOH; sltly sol in Et₂O. IDLH 30 ppm.

SYNS: ACIDE FLUORHYDRIQUE (FRENCH) □ ACIDO FLUORIDRICO (ITALIAN) □ FLUOROWODOR (POLISH) □ FLUORWASSERSTOFF (GERMAN) □ FLUORWATERSTOF (DUTCH) □ HYDROFLUORIC ACID, solution, >60% strength (UN 1790) (DOT) □ HYDROFLUORIC ACID, solution, not >60% strength (UN 1790) (DOT) □ HYDROFLUORIDE □ HYDROGEN FLUORIDE, anhydrous (UN 1052) (DOT) □ RCRA WASTE NUMBER U134 □ RUBIGINE

TOXICITY DATA with REFERENCE:

dnd-dmg-ihl 1300 ppb/6W ATENBP 5,117,71

sln-dmg-ihl 2900 ppb FLUOA4 4,25,71

ihl-man TLo:100 mg/m³/1M:NOSE,EYE,PUL JIDHAN 16,129,34

ihl-hmn LLo:50 ppm/30M 34ZIAG -,318,69

ihl-rat LC50:966 ppm/1H TXAPA9 42,417,77

ipr-rat LDLo:25 mg/kg TXAPA9 13,76,68

ihl-mus LC50:342 ppm/1H JCTODH 3,61,76

skn-mus LDLo:500 mg/kg SAIGBL 17,281,75

ihl-mky LC50:1774 ppm/1H AMRL** TR-70-77/70

ihl-rbt LLo:260 mg/m³/7H AMIHBC 2,716,50

ihl-gpg LC50:4327 ppm/15M AIHAAP 24,253,63

scu-frg LDLo:112 mg/kg CRSBAW 124,133,37

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 3 ppm; STEL 6 ppm (F)

ACGIH TLV: CL 3 ppm (F); BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.

DFG MAK: 3 ppm (2.5 mg/m³); BAT 7.0 mg/g creatinine in urine at end of shift

NIOSH REL: (HF) TWA 2.5 mg(F)/m³; CL 5.0 mg(F)/m³/15M

DOT CLASSIFICATION: 8; Label: Corrosive, Poison

SAFETY PROFILE: A human poison by inhalation. A poison experimentally by inhalation, subcutaneous, and intraperitoneal routes. A corrosive irritant to skin, eyes (@ 0.05 mg/L), and mucous membranes. Experimental teratogenic effects. Experimental reproductive effects. Mutation data reported. Inhalation of the vapor may cause ulcers of the upper respiratory tract. Concentrations of 50–250 ppm are dangerous, even for brief exposures. Hydrofluoric acid produces severe skin burns that are slow in healing. The subcutaneous tissues may be affected, becoming blanched and bloodless. Gangrene of the affected areas may follow. It is a common air contaminant.

Explosive reaction with cyanogen fluoride; glycerol + nitric acid; sodium (with aqueous acid); methanesulfonic acid (evolves oxygen difluoride that explodes). Violent reaction with As₂O₃; P₂O₅; acetic anhydride; 2-amino ethanol; NH₄OH; HBiO₃; bismuthic acid (evolves oxygen); CaO; chlorosulfonic acid; ethylene diamine; ethylene imine; F₂; mercury(II) oxide + organic materials (above 0°C); n-phenylazopiperidine; potassium permanganate; potassium tetrafluorosilicate(2-)(evolves silicon tetrafluoride gas); (HNO₃ + lactic acid); oleum; β-propiolactone; propylene oxide; Na; NaOH; H₂SO₄; vinyl acetate; HgO; sodium tetrafluoro silicate; n-phenyl azo piperidine. Incandescent reaction of liquid HF with oxides (e.g., arsenic trioxide, calcium oxide). Dangerous storage hazard with nitric acid + lactic acid; nitric acid + propylene glycol (mixtures evolve gas which may burst a sealed container). Reacts with water or steam to produce toxic and corrosive fumes. When heated to decomposition it emits highly corrosive fumes of F⁻. See also FLUORIDES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Fluorides, 7902; Acids, Inorganic, 7903.

HHV000

HR: 3

HYDROFLUORIC ACID mixed with SULFURIC ACID

DOT: UN 1786

SYNS: HYDROFLUORIC and SULFURIC ACIDS, MIXTURE (DOT) □ SULFURIC AND HYDROFLUORIC ACIDS, MIXTURE (DOT)

DOT CLASSIFICATION: 8; Label: Corrosive, Poison

SAFETY PROFILE: Poison by ingestion, inhalation, and skin contact. A corrosive irritant to the eyes, skin and mucous membranes. When heated to decomposition it

emits very toxic fumes of HF and SO_x. See also HYDROFLUORIC ACID and SULFURIC ACID.

HHW000

CAS: 109-82-0

HR: 3

α-HYDROFORMAMINE CYANIDE

mf: C₃H₄N₂ mw: 68.09

PROP: A solid. Mp: 129°.

SYNS: METHYLENEAMINOACETONITRILE □ N-METHYLENE GLYCINONITRILE □ METHYLENIMINOACETONITRILE □ USAF DO-5

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg NTIS** AD277-689

par-mus LDLo:2000 mg/kg CBCCT* 7,689,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Cyanide and its compounds are on The Community Right-To-Know List.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by parenteral route. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

HHW500

CAS: 1333-74-0

HR: 3

HYDROGEN

DOT: UN 1049/UN 1966

mf: H₂ mw: 2.02

PROP: Stable, colorless, odorless, tasteless gas. Forms compounds with almost every other element. Mp: -259.18°, bp: -252.8°, lel: 4.1%, uel: 74.2%, d: 0.0899 g/L, autoign temp: 752°F, vap d: 0.069. Very low solubility in most liquids.

SYNS: HYDROGEN (DOT) □ HYDROGEN, compressed (DOT) □ HYDROGEN, refrigerated liquid (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: Practically no toxicity except that it may asphyxiate. Highly dangerous fire and severe explosion hazard when exposed to heat, flame, or oxidizers. Flammable or explosive when mixed with air, O₂, chlorine. To fight fire, stop flow of gas.

Explodes on contact with bromine trifluoride; chlorine trifluoride; fluorine; hydrogen peroxide + catalysts; acetylene + ethylene. Explodes when heated with calcium carbonate + magnesium; 3,4-dichloronitrobenzene + catalysts; vegetable oils + catalysts; ethylene + nickel catalysts; difluorodiazene (above 90°C); 2-nitroanisole (above 250°C/34 bar + 12% catalyst); copper(II) oxide; nitril fluoride (above 200°C); polycarbon monofluoride (above 500°C).

Forms sensitive explosive mixtures with bromine; chlorine; iodine heptafluoride (heat- or spark-sensitive); chlorine dioxide; dichlorine oxide; iodine heptafluoride (heat- or spark-sensitive); dinitrogen oxide; dinitrogen tetroxide; oxygen (gas); 1,1,1-trisazidomethylethane + palladium catalyst. Mixtures with liquid nitrogen react with heat to form an explosive product.

Violent reaction or ignition with air + catalysts (platinum and similar metals containing adsorbed oxygen or hydrogen); bromine; iodine; dioxane + nickel; lithium; nitrogen trifluoride; oxygen difluoride; palladium + isopropyl alcohol; 3-methyl-2-penten-4-yn-1-ol; lead

trifluoride; bromine fluoride (ignition on contact); nickel + oxygen; fluorine perchlorate (ignition on contact); xenon hexafluoride (violent reaction); nitrogen oxide + oxygen (ignition above 360°C); palladium powder + 2-propanol + air (spontaneous ignition); platinum catalyst; polycarbon monofluoride (ignition above 400°C).

Vigorous exothermic reaction with benzene + Raney nickel catalyst; metals (e.g., lithium; calcium; barium; strontium; sodium; potassium; above 300°C); palladium(II) oxide; palladium trifluoride; 1,1,1-tris(hydroxymethyl)nitromethane + nickel catalyst.

HHW502 CAS: 8001-78-3 HR: 1
HYDROGENATED CASTOR OIL

PROP: White flakes or powder. Mp: 85°, d: 0.98.

SYNS: CASTOR OIL, HYDROGENATED □ CASTORWAX □ CASTORWAX MP-70 □ CASTORWAX MP-80 □ CASTORWAX NF □ OLIO DI RICINO IDROGENATO □ RICE SYN WAX □ UNITINA HR

TOXICITY DATA with REFERENCE:

orl-rat LD50:>10 g/kg BCFAAI 120,557,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA FIFRA 1988 pesticide subject to registration or re-registration.

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HHW509 HR: 3
HYDROGENATED COAL OIL FRACTION 1

PROP: Centrifugation residue obtained through the direct hydrogenation of coal by Bergius process; liquid phase, highly viscous, black material (IMSUI 25,51,56).

SYN: BERGIUS COAL HYDROGENATION PRODUCTS FRACTION 1

TOXICITY DATA with REFERENCE:

ims-rat TDLo:600 mg/kg/32W-I:ETA,REP IMSUI 25,51,56

skn-mus TDLo:443 mg/kg/60W-I:ETA IMSUI 25,51,56

SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data by skin contact and intramuscular routes. A fire hazard. When heated to decomposition it emits acrid smoke and fumes.

HHW519 HR: 3
HYDROGENATED COAL OIL FRACTION 3

PROP: Light oil bottoms obtained through the direct hydrogenation of coal by the Bergius process, liquid phase; a viscous, brown oil containing a scaly admixture (IMSUI 25,51,56).

SYN: BERGIUS COAL HYDROGENATION PRODUCTS FRACTION 3

TOXICITY DATA with REFERENCE:

ims-rat TDLo:600 mg/kg/32W-I:ETA,REP IMSUI 25,51,56

SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data by skin contact and intramuscular routes. A fire hazard. When heated to decomposition it emits acrid smoke and fumes.

HHW529 HR: 3
HYDROGENATED COAL OIL FRACTION 4

PROP: Middle oil obtained through the direct hydrogenation of coal by the Bergius process; liquid phase, a thin, reddish-brown oil having an aromatic odor (IMSUI 25,51,56).

SYN: BERGIUS COAL HYDROGENATION PRODUCTS FRACTION 4

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data by skin contact and intramuscular routes data. A fire hazard. When heated to decomposition it emits acrid smoke and fumes.

HHW539 HR: 3
HYDROGENATED COAL OIL FRACTION 7

PROP: Raw gasoline obtained through the direct hydrogenation of coal by the Bergius process; a thin dark brown liquid that quickly evaporates leaving a brownish-red, oily residue (IMSUI 25,51,56).

SYN: BERGIUS COAL HYDROGENATION PRODUCTS FRACTION 7

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data by skin contact and intramuscular routes data. A dangerous fire hazard. When heated to decomposition it emits acrid smoke and fumes.

HHW549 HR: 3
HYDROGENATED COAL OIL FRACTION 9

PROP: Pitch flash distillation residue obtained through the direct hydrogenation of coal by the Bergius process; a solid, black, coke-like material (IMSUI 25,51,56).

SYN: BERGIUS COAL HYDROGENATION PRODUCTS FRACTION 4

TOXICITY DATA with REFERENCE:

ims-rat TDLo:600 mg/kg/32W-I:ETA,REP IMSUI 25,51,56

SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data by skin contact and intramuscular routes. Flammable. When heated to decomposition it emits acrid smoke and fumes.

HHW560 CAS: 8016-14-6 HR: D
HYDROGENATED FISH OIL

PROP: Oil. Mp: >32°.

SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

HHW575 HR: D
HYDROGENATED SPERM OIL

SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

HHW800 CAS: 61788-32-7 HR: 3
HYDROGENATED TERPHENYLS

PROP: Complex mixtures of o-, m-, and p-terphenyls in various stages of hydrogenation. Five such stages exist for each of the three above isomers.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.5 ppm

ACGIH TLV: TWA 0.5 ppm

NIOSH REL: (Hydrogenated Terphenyls) TWA 0.5 ppm

SAFETY PROFILE: Contact with hot coolant can cause severe damage to lungs, skin, and eyes from burns. May cause chronic damage to liver, kidney, and blood-forming organs; metabolic disorders. Inhalation has caused bronchopneumonia. When heated to decomposition they emit acrid smoke and fumes.

HHX000 CAS: 7647-01-0 HR: 3
HYDROGEN CHLORIDE

mf: ClH mw: 36.46

PROP: Colorless, corrosive, nonflammable gas. Pungent odor, fumes in air. D: 1.639 @ -137.77°, bp: -154.37° @ 1.0 mm.

TOXICITY DATA with REFERENCE:

ihl-rat LC50:4701 ppm/30M AIHAAP 35,623,74

ihl-mus LC50:2644 ppm/30M AIHAAP 35,623,74

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: CL 5 ppm

ACGIH TLV: CL 5 ppm

DFG MAK: 5 ppm (7 mg/m³)

SAFETY PROFILE: A highly corrosive irritant to the eyes, skin, and mucous membranes. Mildly toxic by inhalation. Explosive reaction with alcohols + hydrogen cyanide, potassium permanganate, sodium (with aqueous HCl), tetraselenium tetranitride. Ignition on contact with aluminum-titanium alloys (with HCl vapor), fluorine, hexalithium disilicide, metal acetylides or carbides (e.g., cesium acetylide, rubidium acetylide). Violent reaction with 1,1-difluoroethylene. Vigorous reaction with aluminum, chlorine + dinitroanilines (evolves gas). Potentially dangerous reaction with sulfuric acid releases HCl gas. Adsorption of the acid onto silicon dioxide is exothermic. See also HYDROGEN CHLORIDE (AEROSOL) and HYDROCHLORIC ACID.

HHX500 CAS: 7647-01-0 HR: 3
HYDROGEN CHLORIDE (aerosol)

mf: ClH mw: 36.46

PROP: Saturated water aerosol mist (NTIS** AD744-829).

TOXICITY DATA with REFERENCE:

ihl-rat LC50:5666 ppm/30M NTIS** AD744-829

ihl-mus LC50:2142 ppm/30M NTIS** AD744-829

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Mildly toxic by inhalation. A very powerful human skin, eye, and mucous membrane irritant. See also HYDROGEN CHLORIDE.

HHZ000 CAS: 13465-07-1 HR: 3
HYDROGEN DISULFIDE

mf: H₂S₂ mw: 66.14

PROP: Flash p: <71.6°F.

SAFETY PROFILE: Colorless liquid. D: 1.334 @ 20°, mp: -89.6°, bp: 70.7°. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizers. Decomposes violently in reaction with alkalis.

When heated to decomposition it emits toxic fumes of SO_x. See also SULFIDES.

HIA000 CAS: 17099-81-9 HR: 2
(HYDROGEN(ETHYLENEDINITRILO)TETRA-ACETATO)IRON

mf: C₁₀H₁₃FeN₂O₈ mw: 345.10

SYN: ETHYLENEDIAMINE TETRAACETIC ACID, IRON(III) SALT

TOXICITY DATA with REFERENCE:

cyt-ham:ovr 2 mmol/L CNREA8 41,1628,81

ipr-mus LD50:600 mg/kg REPMBN 10,391,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HIA500 CAS: 16941-92-7 HR: 3
HYDROGEN HEXACHLOROIRIDATE (4+)

mf: Cl₆Ir•2H mw: 406.92

SYN: HEXACHLOROIRIDATE(2-) DIHYDROGEN, (OC-6-11)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:251 mg/kg COREAF 256,1043,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of Cl⁻. See also IRIDIUM.

HIB005 HR: 2
HYDROGEN PEROXIDE, 8% to 20%

DOT: UN 2984

mf: H₂O₂ mw: 34.02

SYN: HYDROGEN PEROXIDE, solution, 8% to 20% (DOT)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1518 mg/kg TOIZAG 23,531,76

DOT CLASSIFICATION: 5.1; Label: Oxidizer (UN 2984)

SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. A moderate oxidizer.

HIB010 CAS: 7722-84-1 HR: 2
HYDROGEN PEROXIDE, 30%

DOT: UN 2014/UN 2984

mf: H₂O₂ mw: 34.02

PROP: IDLH 75 ppm.

SYNS: ALBONE 35 □ ALBONE 50 □ ALBONE 70 □ ALBONE 35CG □ ALBONE 50CG □ ALBONE 70CG □ HYDROGEN

PEROXIDE, solution, 30% □ HYDROGEN PEROXIDE, aqueous solutions with not <8% but <20% hydrogen peroxide (UN 2984) (DOT)

□ HYDROGEN PEROXIDE, aqueous solutions with >40%, not >60% hydrogen peroxide (UN 2014) □ INTEROX □ KASTONE □

PERONE 30 □ PERONE 35 □ PERONE 50

TOXICITY DATA with REFERENCE:

oth-hmn:emb 50 μmol/L MUREAV 172,245,86

cyt-hmn:emb 20 μmol/L MUREAV 172,245,86

msc-ham:lng 1 mmol/L MUREAV 192,65,87

orl-mus TDLo:622 g/kg/2Y-C:CAR HIUN** 17(1),53,74

orl-man LDLo:1429 mg/kg SMEZA5 17(1),53,74

orl-wmn TDLo:1200 mg/kg AEMED3 21,1391,92

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87, Animal Limited Evidence IMEMDT 36,285,85. Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 5.1; Label: Oxidizer, Corrosive (UN 2014); DOT Class: 5.1; Label: Oxidizer (UN 2984)

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. See HYDROGEN PEROXIDE.

HIB050 CAS: 7722-84-1 HR: 3
HYDROGEN PEROXIDE, 90%

DOT: UN 2014

mf: H_2O_2 mw: 34.02

PROP: Colorless, unstable, heavy liquid or, at low temp, a crystalline solid; bitter taste. D: 1.71 @ -20° , 1.46 @ 0° , vap press: 1 mm @ 15.3° , unstable, mp: -0.43° , bp: 152° . Misc with water; sol in ether; insol in pet ether. Decomposed by many org solvs.

SYNS: ALBONE □ DIHYDROGEN DIOXIDE □ HIOXYL □ HYDROGEN DIOXIDE □ HYDROGEN PEROXIDE, stabilized with >60% hydrogen peroxide (DOT) □ HYDROPEROXIDE □ INHIBINE □ OXYDOL □ PERHYDROL □ PERONE □ PEROSSIDO di IDROGENO (ITALIAN) □ PEROXAN □ PEROXIDE □ PEROXYDE d'HYDROGENE (FRENCH) □ SUPEROXOL □ T-STUFF □ WASSERSTOFFPEROXID (GERMAN) □ WATERSTOFFPEROXYDE (DUTCH)

TOXICITY DATA with REFERENCE:

dnd-hmn:oth 100 $\mu\text{mol/L}$	CNREA8 45,252,85
dni-hmn:oth 1200 $\mu\text{mol/L}$	CNREA8 45,252,85
skn-rat LD50:4060 mg/kg	GTPZAB 21(10),22,77
mul-rat LC50:2 g/ m^3 /4H	GTPZAB 21(10),22,77
ihl-mus LCLo:227 ppm	AEHLAU 4,327,62
skn-rbt LDLo:500 mg/kg	MRLR** #75,51
ivn-rbt LD50:15 g/kg	MRLR** #75,51
skn-pig LDLo:2 g/kg	MRLR** #75,51

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMSUDL 7,56,87; Human No Adequate Data IMEMDT 36,285,85; Animal Limited Evidence IMEMDT 36,285,85. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. EPA FIFRA 1988 pesticide subject to registration or re-registration.

OSHA PEL: TWA 1 ppm

ACGIH TLV: TWA 1 ppm; Animal Carcinogen

DFG MAK: 1 ppm (1.4 mg/ m^3)

NIOSH REL: (Hydrogen peroxide) TWA 1.0 ppm

DOT CLASSIFICATION: 5.1; Label: Oxidizer, Corrosive

SAFETY PROFILE: Confirmed carcinogen with experimental tumorigenic data. Moderately toxic by inhalation, ingestion, and skin contact. A corrosive irritant to skin, eyes, and mucous membranes. Human mutation data reported. A very powerful oxidizer.

Pure H_2O_2 , its solutions, vapors, and mists are very irritating to body tissue. This irritation can vary from mild to severe depending upon the concentration of H_2O_2 . For instance, solutions of H_2O_2 of 35 wt% and over can easily cause blistering of the skin. Irritation caused by H_2O_2 that does not subside upon flushing the affected part with water should be treated by a physician.

The eyes are particularly sensitive to this material. It is a common air contaminant.

A dangerous fire hazard by chemical reaction with flammable materials. H_2O_2 is a powerful oxidizer, particularly in the concentrated state. It is important to keep containers covered because the contents of uncovered containers are much more prone to react with flammable vapors, gases, etc.; and, if uncovered, the water from an H_2O_2 solution can evaporate, concentrating the material and thus increasing the fire hazard. For instance, solutions of H_2O_2 in concentration in excess of 65 wt% heat up spontaneously when decomposed to H_2O + $1/2 \text{O}_2$. Thus, 90 wt% solutions, when caused to decompose rapidly due to the introduction of a catalytic decomposition agent, can get quite hot and perhaps start fires.

A severe explosion hazard when highly concentrated or when pure H_2O_2 is exposed to: heat, mechanical impact, or detonation of a blasting cap, or is caused to decompose catalytically by metals (in order of decreasing effectiveness: osmium; palladium; platinum; iridium; gold; silver; manganese; cobalt; copper; lead). Explodes on contact with alcohols + H_2SO_4 ; acetal + acetic acid + heat; acetic acid + n-heterocycles (above 50°); 2-amino-4-methyloxazole + iron(II) catalyst; aromatic hydrocarbons + trifluoroacetic acid; azeliac acid + sulfuric acid (above 45°); benzenesulfonic anhydride; tert-butanol + sulfuric acid; carboxylic acids; 3,5-dimethyl-3-hexanol + sulfuric acid; diphenyl diselenide (above 53°); 2-ethoxyethanol + polyacrylamide gel + toluene + heat; gadolinium hydroxide (above 80°); gallium + hydrochloric acid; hydrogen + palladium catalysts (has caused major industrial explosions); iron(II) sulfate + 2-methylpyridine + sulfuric acid; iron(II) sulfate + nitric acid + sodium carboxymethylcellulose (when evaporated); nitric acid + ketones (e.g., 2-butanone, 3-pentanone, cyclopentanone, cyclohexanone, 3-methylcyclohexanone), trioxane (sensitive to heat, shock, or on contact with lead), methanol + tert-amines + platinum catalysts; nitric acid + soils; nitrogenous bases (e.g., ammonia, hydrazine hydrate, 1,1-dimethylhydrazine); organic compounds (e.g., glycerol, acetic acid, ethanol, aniline, quinoline, 2-phenyl-1,1-dimethylethanol, cellulose, charcoal); organic materials + sulfuric acid (especially if confined); water + oxygenated compounds (e.g., acetaldehyde, acetic acid, acetone, ethanol, formaldehyde, formic acid, methanol, 2-propanol, propionaldehyde); sulfuric acid (during evaporation); tetrahydrothiophene; vinyl acetate; alcohols + tin chloride; P_2O_5 ; P; H_2O ; HNO_3 ; Sb_2S_3 ; As_2S_3 ; Cl_2 + KOH + chlorosulfonic acid; CuS; FeS; formic acid + organic matter; H_2Se ; hydrazine; PbO_2 ; PbO; PbS; MnO_2 ; HgO; Hg_2O ; MoS_2 ; organic matter, (2-methyl-1-phenyl-2-propanol + sulfuric acid); KMnO_4 ; NaIO_3 ; thiodiglycol; uns-dimethyl hydrazine; FeSO_4 + 2-methylpyridine + H_2SO_4 ; HgO + HNO_3 .

Forms unstable explosive products in reaction with acetaldehyde + desiccants (forms polyethylidene peroxide); acetic acid (forms peracetic acid); acetic + 3-thietanol; acetic anhydride; acetone (forms explosive peroxides); alcohols (products are shock- and heat-sensitive); carboxylic acids (e.g., formic acid, acetic acid, tartaric acid), diethyl ether, ethyl acetate, formic acid + metaboric acid, ketene (forms diacetyl peroxide);

mercury(II) oxide + nitric acid (forms mercury(II) peroxide); thiourea + nitric acid; polyacetoxyacrylic acid lactone + poly(2-hydroxyacrylic acid) + sodium hydroxide.

Ignition on contact with furfuryl alcohol; powdered metals (e.g., magnesium; iron); wood. Violent reaction with aluminum isopropoxide + heavy metal salts; charcoal; coal; dimethylphenylphosphine; hydrogen selenide; lithium tetrahydroaluminate; metals (e.g., potassium, sodium, lithium); metal oxides (e.g., cobalt oxide, iron oxide, lead oxide, lead hydroxide, manganese oxide, mercury oxide, nickel oxide); metal salts (e.g., calcium permanganate); methanol + phosphoric acid; 4-methyl-2,4,6-triazatricyclo [5.2.2.0^{2,6}] undeca-8-ene-3,5-dione + potassium hydroxide; α -phenylselenoketones; phosphorus; phosphorus(V) oxide; tin(II) chloride; unsaturated organic compounds.

BEWARE: Although many mixtures of H₂O₂ and organic materials do not explode upon contact, the resultant combination is detonatable either upon catching fire or by impact. The detonation velocity of aqueous solutions of H₂O₂ has been found to be about 6500 m/s for solutions of between 96 and 100 wt% H₂O₂. Another source of H₂O₂ explosions is the sealing of the material in strong containers. Under such conditions, even gradual decomposition of H₂O₂ to H₂O + 1/2 O₂ can cause large pressures to build up in the containers, which may then burst explosively. Highly dangerous; when heated, shocked, or contaminated, the concentrated material can explode or start fires.

HIB500 CAS: 124-43-6 HR: 1
HYDROGEN PEROXIDE with UREA (1:1)

DOT: UN 1511

mf: CH₄N₂O•H₂O₂ mw: 94.09

PROP: White crystals. Mp: 75–85° (decomp).

SYNS: CARBAMIDE PEROXIDE □ GLY-OXIDE □ HYDROGEN PEROXIDE CARBAMIDE □ HYDROPERIT □ HYPEROL □ ORTIZON □ PERCARBAMIDE □ PERHYDRIT □ PERHYDROL-UREA □ THENARDOL □ UREA DIOXIDE □ UREA HYDROGEN PEROXIDE (DOT) □ UREA HYDROGEN PEROXIDE SALT □ UREA HYDROPEROXIDE □ UREA PEROXIDE (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 5.1; Label: Oxidizer

SAFETY PROFILE: An irritant to skin, eyes, and mucous membranes. An FDA over-the-counter drug. When heated to decomposition it emits toxic fumes of NO_x. See also individual components and PEROXIDES, ORGANIC.

HIB600 CAS: 877-24-7 HR: 2
HYDROGEN POTASSIUM PHTHALATE

mf: C₈H₅O₄•K mw: 204.23

PROP: White crystal powder. Mp: ~295° (decomposes).

SYNS: 1,2-BENZENEDICARBOXYLIC ACID, MONOPOTASSIUM SALT □ PHTHALIC ACID, MONOPOTASSIUM SALT □ POTASSIUM ACID PHTHALATE □ POTASSIUM BIPHTHALATE □ POTASSIUM HYDROGEN PHTHALATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>3200 mg/kg KODAK* 21MAY1971

skn-gpg LD50:>1 g/kg KODAK* 21MAY1971

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HIC000 CAS: 7783-07-5 HR: 3
HYDROGEN SELENIDE

DOT: UN 2202

mf: H₂Se mw: 80.98

PROP: Colorless gas. Mp: -64°, bp: -41.4°, d: 3.614 g/L (gas), 2.12 @ -42° (liquid), vap press: 10 atm @ 23.4°. Flammable. Disagreeable odor. Sol in carbonyl chloride and carbon disulfide. IDLH 1 ppm.

SYNS: ELECTRONIC E-2 □ HYDROGEN SELENIDE, anhydrous (DOT) □ SELENIUM HYDRIDE

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:20 mg/m³/1H CTOXAO 17,171,80

ihl-gpg LC50:300 ppb/8H 34ZIAG -,320,69

CONSENSUS REPORTS: Selenium and its compounds are on the Community Right-To-Know List. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.05 ppm (Se)

ACGIH TLV: TWA 0.05 ppm (Se)

DFG MAK: 0.05 ppm (0.17 mg/m³)

DOT CLASSIFICATION: 2.3; Label: Poison Gas, Flammable Gas

SAFETY PROFILE: A deadly poison by inhalation.

Very poisonous irritant to skin, eyes, and mucous membranes. Causes central nervous system effects in humans. An allergen. Can cause damage to the lungs and liver as well as conjunctivitis. It has been found that repeated exposures to concentrations of 0.3 ppm prove fatal to experimental animals by causing a pneumonitis, as well as injury to the liver and spleen. Causes garlic odor of breath, dizziness, nausea. Concentrations of 0.3 ppm are readily detected by odor, but there is no noticeable irritant effect at that level. Concentrations of 1.5 ppm or higher are strongly irritating to the eyes and nasal passages.

As in the case of hydrogen sulfide, the odor of hydrogen selenide in concentrations below 1 ppm disappears rapidly because of olfactory fatigue. The odor and irritating effects do not offer a dependable warning to workers who may be exposed to gradually increasing amounts and therefore become used to it. Due to its extreme toxicity and irritating effects, it seldom is allowed to reach a concentration in which it is flammable in air. Very little data are available on possible chronic effects of this material, but it is logical to assume that when the concentration of this gas is low enough to avoid the irritant effects, only the systemic effects will be noticeable.

Dangerous fire hazard when exposed to heat or flame; will react vigorously with powerful oxidizing agents, such as H₂O₂, HNO₃. Dangerous; forms explosive mixtures with air; keep away from heat and open flame. See also SELENIUM COMPOUNDS and HYDRIDES.

HIC500 CAS: 7783-06-4 HR: 3
HYDROGEN SULFIDE

DOT: UN 1053

mf: H₂S mw: 34.08

PROP: Colorless, flammable, poisonous gas; offensive odor. Mp: -85.5° , bp: -60.4° , d: -60 , (gas) 0.993, lel: 4%, uel: 46%, autoign temp: 500°F , d: 1.539 g/L @ 0° , vap press: 20 atm @ 25.5° , vap d: 1.189. IDLH 100 ppm.

SYNS: ACIDE SULFHYDRIQUE (FRENCH) ☐ HYDROGENE SULFURE (FRENCH) ☐ HYDROGEN SULFURIC ACID ☐ IDROGENO SOLFORATO (ITALIAN) ☐ RCRA WASTE NUMBER U135 ☐ SCHWEFELWASSERSTOFF (GERMAN) ☐ SIARKOWO-DOR (POLISH) ☐ STINK DAMP ☐ SULFURETED HYDROGEN ☐ SULFUR HYDRIDE ☐ ZWAVELWATERSTOF (DUTCH)

TOXICITY DATA with REFERENCE:

ihl-hmn LCLo:600 ppm/30M 29ZWAE -,207,68
ihl-man LDLo:5700 $\mu\text{g/kg}$:CNS,PUL AMPMAR 44,483,83
ihl-hmn LCLo:800 ppm/5M TABIA2 3,231,33
ihl-rat LC50:444 ppm LacHB# 09JUN78
ihl-mus LC50:634 ppm/1H AMRL** TR-72-62,72
ihl-mam LCLo:800 ppm/5M AEPPAE 138,65,28

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 10 ppm; STEL 15 ppm

ACGIH TLV: (Proposed: TWA 5 ppm)

DFG MAK: 10 ppm (14 mg/m^3)

NIOSH REL: (Hydrogen Sulfide) CL 15 mg/m^3 /10M

DOT CLASSIFICATION: 2.3; Label: Poison Gas, Flammable Gas

SAFETY PROFILE: A human poison by inhalation. A severe irritant to eyes and mucous membranes. Experimental reproductive effects. An asphyxiant. Human systemic effects by inhalation: coma, chronic pulmonary edema. Low concentrations of 20–150 ppm cause irritation of the eyes; slightly higher concentrations may cause irritation of the upper respiratory tract, and, if exposure is prolonged, pulmonary edema may result. The irritant action has been explained on the basis that H_2S combines with the alkali present in moist surface tissues to form sodium sulfide, a caustic. With higher concentration the action of the gas on the nervous system becomes more prominent. A 30-minute exposure to 500 ppm results in headache, dizziness, excitement, staggering gait, diarrhea, and dysuria, followed sometimes by bronchitis or bronchopneumonia.

The action of small amounts on the nervous system is one of depression; in larger amounts, it stimulates, and with very high amounts the respiratory center is paralyzed. Exposures of 800–1000 ppm may be fatal in 30 minutes, and high concentrations are instantly fatal. Fatal hydrogen sulfide poisoning may occur even more rapidly than that following exposure to a similar concentration of HCN. H_2S does not combine with the hemoglobin of the blood; its asphyxiant action is due to paralysis of the respiratory center. With repeated exposures to low concentrations, conjunctivitis, photophobia, corneal bullae, tearing, pain, and blurred vision are the commonest findings. High concentrations may cause rhinitis, bronchitis, and occasionally pulmonary edema. Exposure to very high concentrations results in immediate death. Chronic poisoning results in headache, inflammation of the conjunctivae and eyelids, digestive disturbances, weight loss, and general debility. It is a common air contaminant.

It is an insidious poison since sense of smell may be fatigued. The odor and irritating effects do not offer a

dependable warning to workers who may be exposed to gradually increasing amounts and therefore become used to it.

Very dangerous fire hazard when exposed to heat, flame, or oxidizers. Moderately explosive when exposed to heat or flame. Explodes on contact with oxygen difluoride; nitrogen trichloride; bromine pentafluoride; chlorine trifluoride; dichlorine oxide; silver fulminate. Potentially explosive reaction with copper + oxygen. Explosive reaction when heated with perchloryl fluoride (above 100°C), oxygen (above 280°C). Reacts with 4-bromobenzenediazonium chloride to form an explosive product.

Ignites on contact with metal oxides (e.g., barium peroxide, chromium trioxide, copper oxide, lead dioxide, manganese dioxide, nickel oxide, silver(I) oxide, silver(II) oxide, sodium peroxide, thallium(III) oxide, mercury oxide, calcium oxide, nickel oxide), oxidants (e.g., silver bromate, heptasilver nitrate octaoxide, dibismuth dichromium nonaoxide, mercury(I) bromate, lead(II) hypochlorite, copper chromate, fluorine, nitric acid, sodium peroxide, lead(IV) oxide), rust, soda-lime + air. Reacts violently with NI_3 , NF_3 , p-bromobenzenediazonium chloride, OF_2 , F_2 , Cu, ClO, BrF_5 , acetaldehyde, ($\text{BaO} + \text{Hg}_2\text{O} + \text{air}$), ($\text{BaO} + \text{NiO} + \text{air}$), hydrated iron oxide, phenyl diazonium chloride, ($\text{NaOH} + \text{CaO} + \text{air}$). Incandescent reaction with chromium trioxide. Vigorous reaction with metal powders (e.g., copper, tungsten). When heated to decomposition it emits highly toxic fumes of SO_x . To fight fire, stop flow of gas.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-141 or NIOSH: Hydrogen Sulfide, P&CAM 296.

HIC600 CAS: 15181-46-1 HR: 2
HYDROGEN SULFITE

mf: HO_3S mw: 81.07

SYNS: BISULFITE ☐ BISULPHITE ☐ HYDROSULFITE ANION ☐ SULFITE LYE

TOXICITY DATA with REFERENCE:

mmo-esc 1 mol/L ENMUDM 2,239,80
otr-ham:emb 1 mmol/L CRNGDP 3,27,82

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Mutation data reported. A corrosive. When heated to decomposition it emits toxic fumes of SO_x . See also SULFITES.

HID000 CAS: 13845-23-3 HR: 3
HYDROGEN TRISULFIDE

mf: H_2S_3 mw: 98.22

PROP: Yellow liquid. D: 1.491, mp: -53° , bp: 69° @ 2 mm.

SAFETY PROFILE: Explosive reaction with benzenediazonium chloride; silver oxide; nitrogen trichloride; pentanol. Ignites on contact with potassium permanganate; metal oxides (e.g., copper oxide; lead(II) oxide; lead(IV) oxide; mercury(II) oxide; tin(IV) oxide; iron(II,III) oxide). Incompatible with metal oxides; nitrogen trichloride; pentyl alcohol; potassium permanganate. When heated to decomposition it emits

toxic fumes of SO_x. See also HYDROGEN SULFIDE and SULFIDES.

HID050 **CAS: 68909-26-2** **HR: 1**
α-HYDRO-ω-HYDROXYPOLY(OXY(METHYL-1,2-ETHANEDIYL)) ETHER WITH BIS((2-(HYDROXYETHYL)AMINO)METHYL)PHENOL (3:1)

SYN: THANOL R-350X POLYOL

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL/24H MOD NTIS** OTS0556042

SAFETY PROFILE: A moderate eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

HID100 **CAS: 92113-31-0** **HR: 1**
HYDROLYZED ANIMAL PROTEIN

PROP: White powder. Odorless. Sol in water.

SYNS: COLATRON □ COLLAGENS, HYDROLYZATES □ CROTEIN SPO □ GELITA-SOL C □ HYDROLYZED COLLAGEN □ LEXEIN X 350 □ PROTEINS, COLLAGEN, HYDROLYSATE □ PROTEIN HYDROLYSATE FROM COLLAGEN □ PROTEIN HYDROLYZATES, COLLAGEN

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H MLD JACTDZ 4(5),199,1985

SAFETY PROFILE: An eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

HID350 **CAS: 652-67-5** **HR: 3**
HYDRONOL

mf: C₆H₁₀O₄ mw: 146.16

PROP: Crystals. Osmotic diuretic. Mp: 61–64°, bp: 160–175° @ 2 mm. Also a chiral modifying agent for asymmetric reduction of ketones.

SYNS: AT 101 □ DEVICORAN □ d-1,4,3,6-

DIANHYDROGLUCITOL □ 1,4,3,6-DIANHYDROSORBITOL □ ISMOTIC □ ISOBIDE □ ISOSORBIDE □ (+)-d-ISOSORBIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:24,150 mg/kg OYYAA2 3,15,69

ivn-rat LD50:11,300 mg/kg NIIRDN 6,71,82

orl-mus LD50:289 mg/kg OYYAA2 3,187,69

ipr-mus LD50:13,600 mg/kg NIIRDN 6,71,82

ivn-mus LD50:6870 mg/kg OYYAA2 3,15,69

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits acrid smoke and fumes.

HID500 **CAS: 2207-76-3** **HR: 2**
6-HYDROPEROXY-4-CHOLESTEN-3-ONE

mf: C₂₇H₄₄O₃ mw: 416.71

SYNS: 6-β-HYDROPEROXYCHOLEST-4-EN-3-ONE □ 6-β-HYDROPEROXY-Δ⁴CHOLESTEN-3-ONE

TOXICITY DATA with REFERENCE:

scu-mus TDLo:600 mg/kg/72W-I:CAR JNCIAM 19,977,57

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.

HIE000 **CAS: 4096-33-7** **HR: 2**
1-HYDROPEROXYCYCLOHEX-3-ENE

mf: C₆H₁₀O₂ mw: 114.16

SYN: 1-HYDROPEROXY-3-CYCLOHEXENE

TOXICITY DATA with REFERENCE:

skn-mus TDLo:6960 mg/kg/58W-I:NEO JNCIAM 35,707,65

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.

HIE525 **CAS: 1238-54-6** **HR: D**
10-β-HYDROPEROXY-17-α-ETHYNYL-4-ESTREN-17-β-OL-3-ONE

mf: C₂₀H₂₆O₄ mw: 330.46

SYN: SCH 10015

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. A steroid. When heated to decomposition it emits acrid smoke and fumes.

HIE550 **CAS: 67292-63-1** **HR: 3**
4-HYDROPEROXYIFOSFAMIDE

mf: C₇H₁₅Cl₂N₂O₄P mw: 293.11

SYN: 3-(2-CHLOROETHYL)-2-(2-CHLOROETHYL)AMINO-4-HYDROPEROXYTETRAHYDRO-2H-1,3,2-OXAZAPHOSPHORINE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:180 mg/kg CTRRDO 60,361,76

ivn-rat LD50:220 mg/kg CTRRDO 60,361,76

ipr-mus LDLo:100 mg/kg CNREA8 36,2278,76

ivn-mus LD50:220 mg/kg CTRRDO 60,361,76

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of Cl⁻, PO_x and NO_x.

HIE570 **CAS: 74955-23-0** **HR: 2**
N-(HYDROPEROXYMETHYL)-N-NITROSOPROPYLAMINE

mf: C₄H₁₀N₂O₃ mw: 134.16

SYN: N-PROPYL-N-(HYDROPEROXYMETHYL)NITROSAMINE

TOXICITY DATA with REFERENCE:

msc-ham:lng 100 µmol/L GANNA2 73,522,82

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HIE600 **CAS: 74940-23-1** **HR: 2**
HYDROPEROXY-N-NITROSODIBUTYLAMINE

mf: C₈H₁₈N₂O₃ mw: 190.28

SYNS: BHPBN □ N-BUTYL-N-(1-HYDROPEROXYBUTYL)NITROSAMINE

TOXICITY DATA with REFERENCE:

msc-ham:lng 50 µmol/L GANNA2 73,522,82

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

HIE700 **CAS: 74940-26-4** **HR: 2**
1-(HYDROPEROXY)-N-NITROSODIMETHYLAMINE

mf: C₂H₆N₂O₃ mw: 106.10

SYN: N-METHYL-N-(HYDROPEROXYMETHYL)NITROSAMINE

TOXICITY DATA with REFERENCE:

msc-ham:lng 50 µmol/L GANNA2 73,522,82

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HIF000 CAS: 67292-61-9 HR: 3
4-HYDROPEROXYPHOSPHAMIDE

mf: C₇H₁₅Cl₂N₂O₄P mw: 293.11

SYNS: 2-(BIS(2-CHLOROETHYL)AMINO)-4-HYDROPEROXY-TETRAHYDRO-2H-1,3,2-OXAZAPHOSPHORINE □ 4-HYDROPEROXYCYCLOPHOSPHAMIDE □ NSC-181815 □ 4-PEROXY-CPA

TOXICITY DATA with REFERENCE:

dnd-smc 100 µmol/L CBINA8 39,182

dni-rat:oth 6 µmol/L/1H CBINA8 39,191,82

ipr-mus LD50:76,040 µg/kg NCISP* JAN86

SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻, PO_x, and NO_x.

HIF575 CAS: 3736-26-3 HR: 2
1-HYDROPEROXY-1-VINYLCYCLOHEX-3-ENE

mf: C₈H₁₂O₂ mw: 140.20

SYN: 4-HYDROPEROXY-4-VINYLCYCLOHEXENE

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.

HIG000 CAS: 1435-55-8 HR: 3
HYDROPHIS ELEGANS (AUSTRALIA) VENOM

SYN: VENOM, SEA SNAKE, HYDROPHIS ELEGANS

TOXICITY DATA with REFERENCE:

scu-mus LD50:262 µg/kg TOXIA6 14,347,76

ivn-mus LD50:120 µg/kg 85EGD4 -,341,78

ims-mus LD50:120 µg/kg 85EGD4 -,341,78

SAFETY PROFILE: A deadly poison by intravenous, subcutaneous, and intramuscular routes.

HIG500 CAS: 1435-55-8 HR: 3
HYDROQUINIDINE

mf: C₂₀H₂₆N₂O₂ mw: 326.48

PROP: Plates from ether, needles from alc. Mp: 169°. Very sol in hot alc; sltly sol in water and ether.

SYNS: 10,11-DIHYDRO-6'-METHOXYCINCHONAN-9-OL □ DIHYDROQUINIDINE □ 10,11-DIHYDROQUINIDINE □ HYDROCONQUININE

TOXICITY DATA with REFERENCE:

orl-rat LD50:369 mg/kg ARZNAD 27,589,77

ivn-rat LD50:32 mg/kg ARZNAD 27,589,77

ivn-mus LD50:56,500 µg/kg JPETAB 84,184,45

SAFETY PROFILE: A poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

HIH000 CAS: 123-31-9 HR: 3
HYDROQUINONE

DOT: UN 2662

mf: C₆H₆O₂ mw: 110.12

PROP: Colorless, hexagonal prisms; needles from water. Mp: 172°, bp: 285° @ 730 mm, flash p: 329°F (CC), d:

1.358 @ 20°/4°, autoign temp: 960°F (CC), vap press: 1 mm @ 132.4°, vap d: 3.81. Very sol in alc and ether; sltly sol in benzene. Keep well closed and protected from light. IDLH 50 mg/m³.

SYNS: ARCTUVIN □ BENZENE, p-DIHYDROXY- □ p-BENZENEDIOL □ 1,4-BENZENEDIOL □ BENZOHYDROQUINONE □ BENZOQUINOL □ BLACK AND WHITE BLEACHING CREAM □ 1,4-DIHYDROXY-BENZEEN (DUTCH) □ 1,4-DIHYDROXYBENZEN (CZECH) □ DIHYDROXY-BENZENE □ p-DIHYDROXYBENZENE □ 1,4-DIHYDROXY-BENZENE □ DIHYDROXYBENZENE (OSHA) □ 1,4-DIHYDROXY-BENZOL (GERMAN) □ 1,4-DIIDROBENZENE (ITALIAN) □ p-DIOXYBENZENE □ p-DIOXYBENZENE □ ELDOPAQUE □ ELDOQUIN □ HYDROCHINON (CZECH, POLISH) □ HYDROQUINOL □ HYDROQUINOLE □ α-HYDROQUINONE □ p-HYDROQUINONE □ HYDROQUINONE, liquid or solid (DOT) □ p-HYDROXYPHENOL □ IDROCHINONE (ITALIAN) □ NCI-C55834 □ QUINOL □ β-QUINOL □ TECQUINOL □ TENOX HQ □ TEQUINOL □ USAF EK-356

TOXICITY DATA with REFERENCE:

skn-hmn 2% MLD ARDEAC 93,589,66

skn-hmn 5% SEV ARDEAC 93,589,66

oms-hmn:lym 5 µmol/L CNREA8 45,2471,85

sce-hmn:lym 5 µmol/L CNREA8 45,2471,85

mnt-mus-orl 200 mg/kg AJIMD8 7,475,85

orl-hmn LDLo:29 mg/kg 34ZIAG -,321,69

orl-hmn TDLo:170 mg/kg:CNS,CVS,PUL AMILAN 7,79,27

orl-rat LD50:320 mg/kg FEPA7 8,348,49

ipr-rat LD50:170 mg/kg EESADV 19,327,90

scu-rat LDLo:300 mg/kg HBTXAC 1,162,56

ivn-rat LD50:115 mg/kg FEPA7 8,348,49

orl-mus LD50:245 mg/kg GISAAA 38(8),6,73

ipr-mus LD50:100 mg/kg NTIS** AD414-344

ipr-rbt LD50:125 mg/kg EESADV 19,327,90

scu-mus LD50:182 mg/kg ZGIMAL 2,333,47

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,155,77. Community Right-To-Know List. EPA Extremely Hazardous Substances List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2 mg/m³

ACGIH TLV: TWA 2 mg/m³; Animal Carcinogen

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

NIOSH REL: (Hydroquinone) CL 2.0 mg/m³/15M

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Confirmed carcinogen. A human poison by ingestion. An experimental poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. Human systemic effects by ingestion: pulse rate increase without fall in blood pressure, cyanosis, coma. An active allergen. Human mutation data reported. A severe human skin irritant. Experimental reproductive data.

Absorption of this material by tissues can cause symptoms of illness that resemble those induced by its o- or m-isomers. For instance, the ingestion of 1 g by an adult or a smaller quantity by a child may induce tinnitus, nausea, dizziness, a sensation of suffocation, an increased rate of respiration, vomiting, pallor, muscular twitching, headache, dyspnea, cyanosis, delirium, and collapse. The

literature contains reports of fatal cases that have been caused by the ingestion of 5–12 g. Cases of dermatitis have resulted from skin contact, and have also followed the application of an antiseptic oil that apparently contained traces of hydroquinone added as an antioxidant. The report also describes cases of keratitis and discoloration of the conjunctiva among personnel exposed to this material in concentrations ranging from 10 to 30 mg of the vapor or dust per cubic meter of air. It is considered to be more toxic than phenol. The inhalation of vapors, particularly when liberated at high temperatures, must be avoided. If this material accidentally comes into contact with the skin, it should be removed at once and the affected area washed with plenty of soap and water.

Combustible when exposed to heat or flame; can react with oxidizing materials. Potentially explosive reaction with oxygen at 90°C/100 bar. Violent reaction with NaOH. Slight explosion hazard when exposed to heat. To fight fire, use water, CO₂, dry chemical.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Hydroquinone, 5004.

HIH100 CAS: 497-76-7 HR: D
HYDROQUINONE- β -d-GLUCOPYRANOSIDE

mf: C₁₂H₁₆O₇ mw: 272.28

PROP: A solid. Mp: 142–143°.

SYNS: ARBUTIN \square β -d-GLUCOPYRANOSIDE, 4-HYDROXYPHENYL- (9CI) \square URSIN \square UVASOL

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

HIH000 CAS: 1886-45-9 HR: 3
HYDROTHIADENE

mf: C₁₉H₂₃NS mw: 297.49

PROP: Crystals from pet ether. Mp: 45–49°.

SYNS: dl-11-(3-DIMETHYLAMINOPROPYL)-6,11-DIHYDRO-DIBENZO(b,d)THIEPIN \square IDROTHIADENE

TOXICITY DATA with REFERENCE:

orl-mus LD50:290 mg/kg 27ZQAG -,76,72

ivn-mus LD50:36 mg/kg 27ZQAG -,76,72

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

HIJ500 CAS: 133-67-5 HR: 2
HYDROTRICHLOROTHIAZIDE

mf: C₈H₈Cl₃N₃O₄S₂ mw: 380.66

SYNS: ACHLETIN \square ANATRAN \square ANISTADIN \square APONORIN \square CARVACRON \square 6-CHLORO-3-(DICHLOROMETHYL)-3,4-DIHYDRO-2H-1,2,4-BENZOTHIADIAZINE-7-SULFONAMIDE-1,1-DIOXIDE \square 6-CHLORO-3-(DICHLOROMETHYL)-3,4-DIHYDRO-7-SULFAMYL-1,2,4-BENZOTHIADIAZINE-1,1-DIOXIDE \square 3-DICHLOROMETHYL-6-CHLORO-7-SULFAMOYL-3,4-DIHYDRO-1,2,4-BENZOTHIADIAZINE-1,1-DIOXIDE \square 3-DICHLOROMETHYL-6-CHLORO-7-SULFAMYL-3,4-DIHYDRO-1,2,4-BENZOTHIADIAZINE-1,1-DIOXIDE \square DIURESE \square ESMARIN \square EURINOL \square FLUITRAN \square FLUTRA \square GANGESOL \square INTROMENE \square KUBACRON \square METAHYDRIN \square NAKVA \square NAQUA \square SALURIN \square TACHIONIN \square TOLCASONE \square TRICHLORMETAZID \square TRICHLORMETHIAZIDE \square

TRICHLOROMETHIADIAZIDE \square TRICHLOROMETHIAZIDE \square TRICLORDIURIDE \square TRICLORMETIAZIDE (ITALIAN) \square TRIFLUMEN

TOXICITY DATA with REFERENCE:

cyt-ham:fbr 750 mg/L ESKHA5 96,55,78

cyt-ham:lng 560 mg/L GMCRCDC 27,95,81

orl-rat LD50:5600 mg/kg JPETAB 140,249,63

ivn-rat LD50:920 mg/kg 29ZVAB -,119,69

orl-mus LD50:2600 mg/kg FRPSAX 16,647,61

ipr-mus LD50:540 mg/kg FRPSAX 16,647,61

ivn-mus LD50:750 mg/kg 29ZVAB -,119,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and intravenous routes. Mutation data reported. Used as a diuretic and antihypertensive drug. When heated to decomposition it emits very toxic fumes such as SO_x, Cl⁻ and NO_x.

HIJ600 CAS: 90-87-9 HR: 2
HYDROTROPIC ALDEHYDE DIMETHYL ACETAL

mf: C₁₁H₁₆O₂ mw: 180.27

PROP: Odor of ylang.

SYNS: 1,1-DIMETHOXY-2-PHENYLPROPANE \square HYDROTROPALDEHYDE DIMETHYL ACETAL \square 2-PHENYL-PROPIONALDEHYDE DIMETHYL ACETAL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,819,79

orl-rat LD50:1850 mg/kg FCTXAV 17,819,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

HIJ000 CAS: 38234-12-7 HR: 3
12-HYDROXYABIETIC ACID BIS(2-CHLORO-ETHYL)AMINE

mf: C₂₀H₃₀O₅•C₄H₉Cl₂N mw: 460.54

SYNS: 12-HYDROXYABIETIC ACID BIS(2-CHLOROETHYL)-AMINE SALT \square 12-HYDROXY-13-ISOPROPYLPODOCARPA-7,13-DIEN-15-OIC ACID BIS(2-CHLOROETHYL)AMINE SALT

TOXICITY DATA with REFERENCE:

ipr-rat LD50:200 mg/kg PCJOAU 6,647,72

ipr-mus LD50:400 mg/kg PCJOAU 6,647,72

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

HIJ400 CAS: 2784-86-3 HR: 2
1-HYDROXY-2-ACETAMIDOFUORENE

mf: C₁₅H₁₃NO₂ mw: 239.29

SYN: N-(1-HYDROXY-2-FLUORENYL)ACETAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HIJ500 CAS: 5254-41-1 HR: 2
HYDROXY-2-(β -(2'-ACETAMIDOPHENYL))-ETHYLNAPHTHAMIDE

mf: C₂₁H₂₀N₂O₃ mw: 348.43

SYN: N-(*o*-(ACETYLAMINO)PHENETHYL)-1-HYDROXY-2-NAPHTHALENECARBOXAMIDE

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:800 mg/kg KODAK* -,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.

HIK000 CAS: 843-34-5 HR: 2
trans-4'-HYDROXY-4-ACETAMIDOSTILBENE

mf: C₁₆H₁₅NO₂ mw: 253.32

SYNS: *trans*-4'-HYDROXY-AAS □ (E)-4'-(*p*-HYDROXYSTYRYL)ACETANILIDE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HIK500 CAS: 363-49-5 HR: 2
7-HYDROXY-2-ACETAMINOFLUORENE

mf: C₁₅H₁₃NO₂ mw: 239.290

SYNS: 7OH-2AAF □ 7-HYDROXY-N-2-FLUORENYLACETAMIDE

TOXICITY DATA with REFERENCE:

mma-sat 250 µg/plate JJIND8 62,893,79

dnr-esc 10 mg/L JJIND8 62,873,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HIL000 CAS: 614-80-2 HR: 1
2'-HYDROXYACETANILIDE

mf: C₈H₉NO₂ mw: 151.18

PROP: Plates from EtOH. Mp: 209°. Sol in hot H₂O.

SYNS: *o*-ACETAMIDOPHENOL □ 2-ACETAMIDOPHENOL □ ACET-*o*-AMINOFENOL (CZECH) □ 2-ACETAMINOPHENOL □ N-ACETYL-2-AMINOPHENOL □ *o*-(ACETYLAMINO)PHENOL □ 2-(ACETYLAMINO)PHENOL □ *o*-HYDROXYACETANILIDE

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,106,72

orl-rat LD50:4960 mg/kg 28ZPAK -,106,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

HIL500 CAS: 621-42-1 HR: 2
3'-HYDROXYACETANILIDE

mf: C₈H₉NO₂ mw: 151.165

PROP: Needles from H₂O. Mp: 148–149°.

SYNS: *m*-ACETAMIDOPHENOL □ 3-ACETAMIDOPHENOL □ *m*-(ACETYLAMINO)PHENOL □ 3-(ACETYLAMINO)PHENOL □ *m*-HYDROXYACETANILIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1025 mg/kg RCOCB8 28,447,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.

HIM000 CAS: 103-90-2 HR: 3
4'-HYDROXYACETANILIDE

mf: C₈H₉NO₂ mw: 151.18

PROP: Prisms from EtOH. Mp: 169–170.5°. Sol in hot H₂O.

SYNS: ABENSANIL □ ACAMOL □ ACETAGESIC □ ACETALGIN □ *p*-ACETAMIDOPHENOL □ 4-ACETAMIDOPHENOL □ ACETAMINOPHEN □ *p*-ACETAMINOPHENOL □ N-ACETYL-*p*-AMINOPHENOL □ *p*-ACETYLAMINOPHENOL □ ALGOTROPYL □ ALPINYL □ ALVEDON □ AMADIL □ ANAFLOX □ ANELIX □ ANHIBA □ APADON □ APAMIDE □ APAP □ BEN-U-RON □ BICKIE-MOL □ CALPOL □ CETADOL □ CLIXODYNE □ DATRIL □ DIAL-A-GESIC □ DIROX □ DOLIPRANE □ DYMADON □ ENELFA □ ENERIL □ EXDOL □ FEBRILIX □ FEBRO-GESIC □ FEBROLIN □ FENDON □ FINIMAL □ G 1 □ GELOCATIL □ HEDEX □ HOMOOAN □ *p*-HYDROXYACETANILIDE □ 4-HYDROXY-ACETANILIDE □ N-(4-HYDROXYPHENYL)ACET-AMIDE □ JANUPAP □ KORUM □ LESTEMP □ LIQUAGESIC □ LONARID □ LYTECA SYRUP □ MOMENTUM □ MULTIN □ NAPA □ NAPRINOL □ NCI-C55801 □ NOBEDON □ PACEMO □ PANADOL □ PANETS □ PANEX □ PANOFEN □ PARACETAM-OLE □ PARACETAMOLO (ITALIAN) □ PARACETANOL □ PARAPAN □ PARASPEN □ PARMOL □ PEDRIC □ PYRINAZINE □ TABALGIN □ TAPAR □ TEMLO □ TEMPANAL □ TEMPRA □ TRALGON □ TUSSAPAP □ TYLENOL □ VALADOL □ VALGESIC

TOXICITY DATA with REFERENCE:

oms-hmn:lym 200 mg/L NEZAAQ 37,673,82

cyt-hmn:lym 200 mg/L NEZAAQ 37,673,82

cyt-mus-orl 50 mg/kg CYTBAI 27,27,80

orl-man LDLo:714 mg/kg:SYS HUTODJ 1,25,81

orl-inf TDLo:1440 mg/kg/6D:CNS,GIT,MET AJDCAI 137,386,83

orl-hmn LDLo:143 mg/kg:CNS BMJOAE 282,199,81

orl-chd LDLo:360 mg/kg/2D JOPDAB 92,832,78

orl-chd TDLo:801 mg/kg:CNS,GIT,LIV PEDIAU 61,68,78

orl-wmn TDLo:160 mg/kg:KID SAMJAF 67,791,85

orl-hmn LDLo:357 mg/kg LANCAO 1,66,73

orl-wmn LDLo:260 mg/kg JAMAAP 236,1874,76

orl-wmn TDLo:490 mg/kg:CNS,GIT,KID SMJOAV 71,906,78

orl-man TDLo:77 mg/kg:LIV CTOXAO 15,476,79

orl-rat LD50:2400 mg/kg TXAPA9 18,185,71

ipr-rat LD50:1205 mg/kg SSSEAK 57,561,79

orl-mus LD50:338 mg/kg TXAPA9 19,20,71

ipr-mus LD50:367 mg/kg ARZNAD 15,520,65

scu-mus LD50:310 mg/kg HUTODJ 3,138,84

ivn-dog LDLo:826 mg/kg AIPTAK 149,571,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. A human poison by ingestion. An experimental poison by intraperitoneal and subcutaneous routes. Moderately toxic by intravenous route. Human systemic effects by ingestion: changes in exocrine pancreas, diarrhea, nausea, irritability, somnolence, general anesthesia, fever, hepatitis, kidney tubule damage. Experimental teratogenic and

reproductive effects. Human mutation data reported. Used as an analgesic and antipyretic. When heated to decomposition it emits toxic fumes of NO_x.

HIM500 CAS: 107-16-4 HR: 3
HYDROXYACETONITRILE

mf: C₂H₃NO mw: 57.06

PROP: Bp: 183° (slt decomp).

SYNS: CYANOMETHANOL □ FORMALDEHYDE CYANO-HYDRIN □ GLYCOLIC NITRILE □ GLYCOLONITRILE □ GLYCONITRILE □ 2-HYDROXYACETONITRILE □ HYDROXY-METHYLNITRILE □ USAF A-8565

TOXICITY DATA with REFERENCE:

eye-rbt 26 mg MOD 34ZIAG -,290,69
 orl-rat LD50:16 mg/kg AIHAAP 23,95,62
 ihl-rat LCLo:27 ppm/8H 34ZIAG -,290,69
 orl-mus LD50:10 mg/kg 34ZIAG -,290,69
 ihl-mus LCLo:27 ppm/8H 34ZIAG -,290,69
 ipr-mus LD50:10 mg/kg NTIS** AD277-689
 scu-mus LDLo:15 mg/kg AIPTAK 12,447,04
 skn-rbt LD50:5 mg/kg AIHAAP 23,95,62
 ocu-rbt LDLo:13 mg/kg 34ZIAG -,290,69

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory. Cyanide and its compounds are on the Community Right-To-Know List.

NIOSH REL: (Nitriles) CL 5 mg/m³/15M

SAFETY PROFILE: A poison by ingestion, skin contact, inhalation, intraperitoneal, ocular, and subcutaneous routes. An eye irritant. May undergo spontaneous and violent decomposition. Traces of alkali promote violent polymerization. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

HIN000 CAS: 19315-64-1 HR: 2
N-HYDROXY-p-ACETOPHENETIDIDE

mf: C₁₀H₁₃NO₃ mw: 195.24

SYNS: N-(4-ETHOXYPHENYL)ACETOHYDROXAMIC ACID □ N-(4-ETHOXYPHENYL)-N-HYDROXYACETAMIDE □ N-HYDROXYPHENACETIN

TOXICITY DATA with REFERENCE:

mma-sat 500 µg/plate MUREAV 58,387,78
 otr-mus:emb 100 µg/L NCIMAV 58,21,81
 ipr-mus LD50:702 mg/kg ARTODN 56,96,84

CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 13,141,77; IMEMDT 24,135,80.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HIN500 CAS: 118-93-4 HR: 3
o-HYDROXYACETOPHENONE

mf: C₈H₈O₂ mw: 136.16

PROP: Greenish-yellow liquid or oil, highly refractive, minty odor. Mp: 95°, vap d: 4.69, bp: 213° @ 717 mm.

SYNS: ACETOPHENONE, 2'-HYDROXY-(8CI) □ o-ACETYLPHENOL □ 2-ACETYLPHENOL □ ETHANONE, 1-(2-

HYDROXYPHENYL)-(9CI) □ 2'-HYDROXYACETOPHENONE □ o-HYDROXYPHENYL METHYL KETONE □ USAF KE-20

TOXICITY DATA with REFERENCE:

ipr-mus LD50:100 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes. See also KETONES.

HIO000 CAS: 99-93-4 HR: 3
p-HYDROXYACETOPHENONE

mf: C₈H₈O₂ mw: 136.16

PROP: Needles from EtOH aq or Et₂O. Mp: 109°, bp: 148° @ 3 mm.

SYNS: p-ACETYLPHENOL □ 4-ACETYLPHENOL □ 4'-HYDROXYACETOPHENONE □ 1-(4-HYDROXYPHENYL)-ETHANONE □ p-HYDROXYPHENYL METHYL KETONE □ METHYL-p-HYDROXYPHENYL KETONE □ p-OXYACETOPHENONE □ PICEOL □ USAF KF-15

TOXICITY DATA with REFERENCE:

orl-mus LD50:1500 mg/kg MEXPAG 11,137,64
 ipr-mus LD50:200 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes. See also KETONES.

HIO875 CAS: 1838-56-8 HR: 2
3-HYDROXY-N-ACETYL-2-AMINOFLUORENE

mf: C₁₅H₁₃NO₂ mw: 239.29

SYNS: 3-HO-AAF □ N-(3-HYDROXY-2-FLUORENYL)ACETAMIDE

TOXICITY DATA with REFERENCE:

slt-dmg-par 10 mmol/L IJCNAW 9,284,72

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data by implantation. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HIP000 CAS: 53-95-2 HR: 3
N-HYDROXY-N-ACETYL-2-AMINOFLUORENE

mf: C₁₅H₁₃NO₂ mw: 239.29

SYNS: FLUORENYL-2-ACETHYDROXAMIC ACID □ N-FLUOREN-2-YL ACETOHYDROXAMIC ACID □ N-2-FLUORENYL ACETOHYDROXAMIC ACID □ N-HYDROXY-AAF □ N-HYDROXY-2-ACETAMIDOFUORENE □ 2-(N-HYDROXYACETAMIDO)FLUORENE □ N-HYDROXY-2-ACETYLAMINOFLUORENE □ N-HYDROXY-2-FAA □ N-HYDROXY-N-(2-FLUORENYL)ACETAMIDE □ NOHFAA

TOXICITY DATA with REFERENCE:

mno-sat 1 µg/plate ENMUDM 6(Suppl 2),1,84
 dnd-hmn:hla 25 µmol/L MUREAV 89,95,81
 dns-hmn:oth 1 µmol/L JJIND8 72,847,84
 dnd-mus:lvr 20 µmol/L CRNGDP 5,797,84
 msc-ham:lng 25 µmol/L MUREAV 149,265,85

ipr-gpg TDL₀:4700 mg/kg/26W-I:CAR,TER CNREA8 24,2018,64

ipr-rat LD₅₀:52 mg/kg CNREA8 35,2959,75

ipr-mus LD₅₀:1500 mg/kg JJIND8 62,911,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. A poison by intraperitoneal route. Experimental teratogenic and other reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HIP500 CAS: 14751-90-7 HR: 2
N-HYDROXY-2-ACETYLAMINOFLUORENE,
CUPRIC CHELATE

mf: C₃₀H₂₄N₂O₄•Cu mw: 540.10

SYNS: COPPER CHELATE of N-HYDROXY-2-ACETYLAMINO-FLUORENE □ CUPRIC CHELATE of 2-N-HYDROXYFLUOREN-YL ACETAMIDE □ N-FLUOREN-2-YL ACETOHYDROXAMIC ACID, COPPER(2+) COMPLEX □ N-HYDROXY-N-2-FLUOREN-YL ACETAMIDE, CUPRIC CHELATE □ 2-N-HYDROXY-FLUORENYL ACETAMIDE, CUPRIC CHELATE

CONSENSUS REPORTS: Copper and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic and neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also COPPER COMPOUNDS.

HIQ000 CAS: 63904-81-4 HR: 2
N-HYDROXY-2-ACETYLAMINOFLUORENE,
FERRIC CHELATE

mf: C₄₅H₃₆N₃O₆•Fe mw: 770.69

SYNS: N-FLUOREN-2-YL ACETOHYDROXAMIC ACID, IRON(3+) COMPLEX □ IRON complex with N-FLUOREN-2-YL ACETOHYDROXAMIC ACID

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HIQ500 CAS: 2495-54-7 HR: 2
N-HYDROXY-2-ACETYLAMINOFLUORENE-o-
GLUCURONIDE

mf: C₂₁H₂₁NO₉ mw: 431.43

SYN: ACETOHYDROXAMIC ACID, FLUOREN-2-YL-o-GLUCURONIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

HIR000 CAS: 14751-74-7 HR: 2
N-HYDROXY-2-ACETYLAMINOFLUORENE,
MANGANOUS CHELATE

mf: C₃₀H₂₄N₂O₄•Mn mw: 531.50

SYNS: N-FLUOREN-2-YL ACETOHYDROXAMIC ACID, MANGANESE(2+) COMPLEX □ MANGANESE complex with N-FLUOREN-2-YL ACETOHYDROXAMIC ACID

CONSENSUS REPORTS: Manganese and its compounds are on the Community Right-To-Know List.

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 5 mg(Mn)/m³

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also MANGANESE COMPOUNDS.

HIR500 CAS: 14751-76-9 HR: 2
N-HYDROXY-2-ACETYLAMINOFLUORENE,
NICKELOUS CHELATE

mf: C₃₀H₂₄N₂O₄•Ni mw: 535.27

SYNS: N-FLUOREN-2-YL ACETOHYDROXAMIC ACID, NICKEL(2+) COMPLEX □ NICKEL COMPLEX with N-FLUOREN-2-YL ACETOHYDROXAMIC ACID

TOXICITY DATA with REFERENCE:

scu-rat TDL₀:160 mg/kg/4W-I:NEO CNREA8 25,527,65

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List.

NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m³

SAFETY PROFILE: Confirmed human carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NICKEL COMPOUNDS.

HIS000 CAS: 6023-26-3 HR: 2
N-HYDROXY-2-ACETYLAMINOFLUORENE,
POTASSIUM SALT

mf: C₁₅H₁₃NO₂•K mw: 278.39

SYNS: N-FLUOREN-2-YL ACETOHYDROXAMIC ACID, POTASSIUM SALT □ POTASSIUM N-FLUOREN-2-YL ACETOHYDROXAMATE

TOXICITY DATA with REFERENCE:

scu-rat TDL₀:160 mg/kg/4W-I:ETA CNREA8 25,527,65

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HIS100 CAS: 52098-13-2 HR: 3
2-(HYDROXYACETYL)INDOLE

mf: C₁₀H₉NO₂ mw: 175.20

SYNS: KETONE, HYDROXYMETHYL 2-INDOLYL- □ HYDROXYMETHYL 2-INDOLYL KETONE

TOXICITY DATA with REFERENCE:

ipr-mus LD₅₀:350 mg/kg PCJOAU 8,74,74

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

HIS110 CAS: 38693-06-0 HR: 3
5-(HYDROXYACETYL)INDOLE

mf: C₁₀H₉NO₂ mw: 175.20

SYN: KETONE, HYDROXYMETHYL 5-INDOLYL

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:600 mg/kg PCJOAU 6,33,72

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

HIS120 CAS: 52098-14-3 HR: 3
2-(HYDROXYACETYL)-1-METHYLINDOLE

mf: C₁₁H₁₁NO₂ mw: 189.23**SYNS:** 2-(2-HYDROXYACETYL)-1-METHYLINDOLE □ HYDROXYMETHYL 1-METHYL-2-INDOLYL KETONE □ KETONE, HYDROXYMETHYL 1-METHYL-2-INDOLYL-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:350 mg/kg PCJOAU 8,74,74

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.**HIS130 CAS: 52098-15-4 HR: 3
2-(HYDROXYACETYL)-3-METHYLINDOLE**mf: C₁₁H₁₁NO₂ mw: 189.23**SYNS:** HYDROXYMETHYL 3-METHYL-2-INDOLYL KETONE □ KETONE, HYDROXYMETHYL 3-METHYL-2-INDOLYL-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:350 mg/kg PCJOAU 8,74,74

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.**HIS140 CAS: 23518-13-0 HR: 3
3-(HYDROXYACETYL)-1-METHYLINDOLE**mf: C₁₁H₁₁NO₂ mw: 189.23**SYNS:** INDOLE, 3-(HYDROXYACETYL)-1-METHYL □ KETONE, HYDROXYMETHYL 1-METHYL-3-INDOLYL**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:300 mg/kg PCJOAU 6,33,72

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.**HIS150 CAS: 27463-04-3 HR: 3
3-(2-HYDROXYACETYL)-2-METHYLINDOLE**mf: C₁₁H₁₁NO₂ mw: 189.23**SYNS:** INDOLE, 3-(HYDROXYACETYL)-2-METHYL □ KETONE, HYDROXYMETHYL 2-METHYL-3-INDOLYL**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:300 mg/kg PCJOAU 6,33,72

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.**HIS300 CAS: 79127-36-9 HR: 3
2-HYDROXYACILACINOMYCIN A**mf: C₄₂H₅₃NO₁₆ mw: 827.96**PROP:** Dark-yellow powder. Mp: 165–167°.**TOXICITY DATA with REFERENCE:**

dni-mus:leu 1030 nmol/L JANTAJ 34,1596,81

oms-mus:leu 170 nmol/L JANTAJ 34,1596,81

ipr-mus LD50:50 mg/kg JANTAJ 35,82-107,82

SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**HIT000 CAS: 5667-20-9 HR: 2
N-HYDROXYADENINE**mf: C₅H₅N₅O mw: 151.15**SYNS:** 6-HYDROXYAMINOPURINE □ 6-HYDROXYLAMINO-PURINE □ 6-N-HYDROXYLAMINOPURINE □ N-HYDROXY-1H-PURIN-6-AMINE (9CI)**TOXICITY DATA with REFERENCE:**

mmo-sat 100 ng/plate MUREAV 144,231,85

mmo-nsc 600 mg/L MUREAV 124,61,83

dnd-ham:lng 5 mg/L MUREAV 82,355,81

msc-ham:emb 5 mg/L PNASA6 78,5685,81

ipr-rat TDLo:400 mg/kg (11D preg):TER ARPAAQ 86,395,68

ipr-rat LD50:800 mg/kg ARPAAQ 86,395,68

SAFETY PROFILE: Moderately toxic by intraperitoneal route. An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**HIT100 CAS: 3414-62-8 HR: 2
6-N-HYDROXYADENOSINE**mf: C₁₀H₁₃N₅O₅ mw: 283.28**SYNS:** N-HYDROXYADENOSINE □ N⁶-HYDROXYADENOSINE □ 6-HYDROXYADENOSINE □ 6-HYDROXYLAMINOPURINE RIBOSIDE □ N⁶-HYDROXYLAMINOPURINE RIBOSIDE**TOXICITY DATA with REFERENCE:**

mmo-sat 100 ng/plate MUREAV 144,231,85

ipr-rat LD50:700 mg/kg ARPAAQ 86,395,68

SAFETY PROFILE: Moderately toxic by intraperitoneal route. An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**HIT500 CAS: 141-31-1 HR: 1
HYDROXYADIPALDEHYDE**mf: C₆H₁₀O₃ mw: 130.16**PROP:** Liquid. Fp: −3.5°, d: 1.066 @ 20°/20°, vap press: 17 mm @ 20°.**SYNS:** α-HYDROXYADIPALDEHYDE □ 2-HYDROXYADIPALDEHYDE □ 2-HYDROXYHEXANEDIAL**TOXICITY DATA with REFERENCE:**

skn-rbt 10 mg/24H open MLD AMIHBC 10,61,54

skn-rbt 500 mg MLD SCCUR* −,5,61

eye-rbt 500 mg open AMIHBC 10,61,54

orl-rat LD50:17 g/kg AMIHBC 10,61,54

ihl-rat LCLo:3000 ppm/4H SCCUR* −,5,61

orl-mus LD50:6 g/kg SCCUR* −,5,61

ihl-mus LCLo:1500 ppm/14H SCCUR* −,5,61

SAFETY PROFILE: Mildly toxic by inhalation and ingestion. A skin and eye irritant. When heated to decomposition it emits acrid smoke and fumes. See also ALDEHYDES.**HIT600 CAS: 16169-17-8 HR: D
N-HYDROXY-2-AMINOBIPHENYL**mf: C₁₂H₁₁NO mw: 185.24**SYNS:** o-BIPHENYLHYDROXYLAMINE □ N-(2-BIPHENYL)-HYDROXYLAMINE □ (1,1'-BIPHENYL)-2-AMINE, N-HYDROXY- □ N-HYDROXY-(1,1'-BIPHENYL)-2-AMINE □ HYDROXYLAMINE, N-2-BIPHENYL-**TOXICITY DATA with REFERENCE:**

mic-sat 20 µLg/plate CRNGDP 10,1403,1989

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HIT610 CAS: 98046-72-1 HR: D
3-HYDROXYAMINO-4,6-DIMETHYLDIPYRIDO-(1,2-A:3',2'-D)IMIDAZOLE

mf: C₁₂H₁₂N₄O mw: 228.28

SYNS: N-(4,6-DIMETHYLDIPYRIDO(1,2-A:3',2'-D)IMIDAZOL-3-YL)HYDROXYLAMINE □ DIPYRIDO(1,2-A:3',2'-D)IMIDAZOL-3-IMINE, N-HYDROXY-4,6-DIMETHYL- □ HYDROXYLAMINE, N-(4,6-DIMETHYLDIPYRIDO(1,2-A:3',2'-D)IMIDAZOL-3-YL)- □ SR 3

TOXICITY DATA with REFERENCE:

mic-sat 10 ng/plate MUREAV 156,53,1985

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HIT620 CAS: 98046-73-2 HR: D
3-HYDROXYAMINODIPYRIDO(1,2-A:3',2'-D)IMIDAZOLE

mf: C₁₀H₈N₄O mw: 200.22

SYNS: DIPYRIDO(1,2-A:3',2'-D)IMIDAZOL-3-IMINE, N-HYDROXY- □ N-(DIPYRIDO(1,2-A:3',2'-D)IMIDAZOL-3-YL)HYDROXYLAMINE □ HYDROXYLAMINE, N-(DIPYRIDO(1,2-A:3',2'-D)IMIDAZOL-3-YL)- □ SR 41

TOXICITY DATA with REFERENCE:

mic-sat 100 ng/plate MUREAV 156,53,1985

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HIU500 CAS: 53-94-1 HR: 2
N-HYDROXY-2-AMINOFLUORENE

mf: C₁₃H₁₁NO mw: 197.25

PROP: A solid. Mp: 180° (decomp).

SYNS: 2-FLUORENYL HYDROXYLAMINE □ N-FLUOREN-2-YLHYDROXYLAMINE

TOXICITY DATA with REFERENCE:

mno-sat 50 ng/plate CBINA8 54,71,85

dns-hmn:oth 100 nmol/L JJIND8 72,847,84

dnd-mus:lvf 5 μmol/L CRNGDP 5,797,84

ipr-gpg TDL0:1600 mg/kg/17W-I:CAR CNREA8 24,2018,64

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HIU550 CAS: 73341-53-4 HR: D
2-HYDROXYAMINO-6-METHYLDIPYRIDO(1,2-A:3',2'-D)IMIDAZOLE

mf: C₁₁H₁₀N₄O mw: 214.25

SYNS: DIPYRIDO(1,2-A:3',2'-D)IMIDAZOL-2-AMINE, N-HYDROXY-6-METHYL- □ HYDROXYLAMINE, N-(6-METHYLDIPYRIDO(1,2-A:3',2'-D)IMIDAZOL-2-YL)- □ N-(6-METHYLDIPYRIDO(1,2-A:3',2'-D)IMIDAZOL-2-YL)HYDROXYLAMINE

TOXICITY DATA with REFERENCE:

mic-sat 20 pmol/plate BBRCA9 116,141,1983

mic-sat 500 pmol/plate MUREAV 400,259,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HIU600 CAS: 77314-23-9 HR: D
2-HYDROXYAMINO-3-METHYLIMIDAZOLO(4,5-F)QUINOLINE

mf: C₁₁H₁₀N₄O mw: 214.25

SYNS: 1,3-DIHYDRO-3-METHYL-2H-IMIDAZO(4,5-F)QUINOLIN-2-ONE OXIME □ N-HYDROXY-3-METHYL-3H-IMIDAZO(4,5-F)QUINOLINE-2-AMINE □ 2H-IMIDAZO(4,5-F)QUINOLIN-2-ONE, 1,3-DIHYDRO-3-METHYL-, OXIME □ 3H-IMIDAZO(4,5-F)QUINOLINE-2-AMINE, N-HYDROXY-3-METHYL-

TOXICITY DATA with REFERENCE:

mic-bac-sat 5 ng/plate CRNGDP 8,1017,87

add-hmn-mmR 20 μmol/L CRNGDP 16,775,95

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HIV000 CAS: 13442-07-4 HR: 2
4-(HYDROXYAMINO)-5-METHYLQUINOLINE-1-OXIDE

mf: C₁₀H₁₀N₂O₂ mw: 190.22

SYN: 5-METHYL-4-HYDROXYLAMINOQUINOLINE-1-OXIDE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HIV500 CAS: 13442-08-5 HR: 2
4-(HYDROXYAMINO)-6-METHYLQUINOLINE-1-OXIDE

mf: C₁₀H₁₀N₂O₂ mw: 190.22

SYN: 6-METHYL-4-HYDROXYLAMINOQUINOLINE-1-OXIDE

TOXICITY DATA with REFERENCE:

pic-esc 5100 μg/L EXPEAM 24,1245,68

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HIW000 CAS: 13442-09-6 HR: 2
4-(HYDROXYAMINO)-7-METHYLQUINOLINE-1-OXIDE

mf: C₁₀H₁₀N₂O₂ mw: 190.22

SYN: 7-METHYL-4-HYDROXYLAMINOQUINOLINE-1-OXIDE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HIW500 CAS: 13442-10-9 HR: 2
4-(HYDROXYAMINO)-8-METHYLQUINOLINE-1-OXIDE

mf: C₁₀H₁₀N₂O₂ mw: 190.22

SYN: 8-METHYL-4-HYDROXYLAMINOQUINOLINE-1-OXIDE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HIX000 CAS: 607-30-7 HR: 2
N-HYDROXY-1-AMINONAPHTHALENE

mf: C₁₀H₉NO mw: 159.20

PROP: A solid. Mp: 79°.

SYNS: N-HYDROXY-1-NAPHTHYLAMINE □ 1-NAPHTHYLHYDROXYLAMINE □ N-1-NAPHTHYLHYDROXYLAMINE

TOXICITY DATA with REFERENCE:

mno-sat 1 µg/plate MUREAV 122,243,83
 mma-sat 1 µg/plate PNASA6 72,5135,75
 otr-hmn:oth 2 mg/L ITCSAF 17,719,81
 dnd-rat-scu 106 µmol/kg CNREA8 44,1172,84
 oms-rat-scu 106 µmol/kg CNREA8 44,1172,84

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

HIX200 CAS: 53130-67-9 HR: 3
2-HYDROXYAMINO-1,4-NAPHTHOQUINONE

mf: C₁₀H₇NO₃ mw: 189.18

SYN: HANQ

TOXICITY DATA with REFERENCE:

dnd-mus:ast 50 µmol/L CPBTAL 26,1031,78
 dnd-mus-ipr 100 mg/kg CPBTAL 26,1031,78
 ipr-mus LD50:318 mg/kg CPBTAL 23,1077,75

SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HIX500 CAS: 13442-15-4 HR: 2
4-(HYDROXYAMINO)-6-NITROQUINOLINE-1-OXIDE

mf: C₉H₇N₃O₄ mw: 221.19

SYN: 6-NITRO-4-HYDROXYLAMINOQUINOLINE-1-OXIDE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HIY000 CAS: 13442-16-5 HR: 2
4-(HYDROXYAMINO)-7-NITROQUINOLINE-1-OXIDE

mf: C₉H₇N₃O₄ mw: 221.19

SYN: 7-NITRO-4-HYDROXYLAMINOQUINOLINE-1-OXIDE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HIY200 CAS: 253883-44-2 HR: 3
N-HYDROXY p-AMINOOCETANOYLPHENONE

mf: C₁₄H₂₁NO₂ mw: 235.33

SYN: 1-OCTANONE, 1-(4-(HYDROXYAMINO)PHENYL)-

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:15.6 mg/kg ETOPFR 7,237,1999
 ims-mus TDLo:7.8 mg/kg ETOPFR 7,237,1999

SAFETY PROFILE: A poison by intraperitoneal and intramuscular routes. When heated to decomposition it emits toxic vapors of NO_x.

HIY300 CAS: 4543-32-2 HR: D
N-(2-(HYDROXYAMINO)-2-OXOETHYL)BENZENEACETAMIDE

mf: C₁₀H₁₂N₂O₃ mw: 208.24

SYNS: ACETOHYDROXAMIC ACID, 2-(2-PHENYLACET-AMIDO)- □ BENZENEACETAMIDE, N-(2-(HYDROXYAMINO)-2-OXOETHYL)- □ PHENACETUROHYDROXAMIC ACID □ 2-(2-

PHENYLACETAMIDO)ACETOHYDROXAMIC ACID □ N-(PHENYLACETYL)GLYCINOHYDROXAMIC ACID

TOXICITY DATA with REFERENCE:

mic-sat 160 µmol/plate JOPHDQ 3,557,1980

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HIY500 CAS: 4637-56-3 HR: 3
4-(HYDROXYAMINO)QUINOLINE-1-OXIDE

mf: C₉H₈N₂O₂ mw: 176.19

PROP: Pale-brown needles or powder from MeOH. Mp: 190 (decomp).

SYNS: 4HAQO □ N-(4-QUINOLYL)HYDROXYLAMINE-1'-OXIDE

TOXICITY DATA with REFERENCE:

mno-sat 300 ng/plate ENMUDM 6(Suppl 2),1,84
 mma-esc 10 µg/plate ENMUDM 6(Suppl 2),1,84
 dnd-hmn:fbr 10 µmol/L BBACAQ 781,273,84
 dns-hmn:oth 100 nmol/L JJIND8 69,557,82
 dns-rat-ivn 7 mg/kg CBINA8 56,125,85
 dnd-ckn:emb 200 µmol/L CBINA8 47,123,83
 scu-rat TDLo:16 mg/kg/4W-I:CAR IGAYAY 120,1218,82
 ivn-rat LDLo:5 mg/kg JNCIAM 53,159,74

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: A poison by intravenous route. Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HIZ000 CAS: 1010-61-3 HR: 3
4-(HYDROXYAMINO)QUINOLINE-1-OXIDE, HYDROCHLORIDE

mf: C₉H₈N₂O₂•ClH mw: 212.65

SYNS: 4-HYDROXYAMINOQUINOLINE-1-OXIDE HYDROCHLORIDE □ 4-HYDROXYAMINOQUINOLINE-1-OXIDE MONOHYDROCHLORIDE □ 4-(HYDROXYAMINO)QUINOLINE-1-OXIDE MONOHYDROCHLORIDE □ 4-HYDROXYQUINOLINAMINE-1-OXIDE MONOHYDROCHLORIDE □ N-HYDROXY-4-QUINOLINAMINE-1-OXIDE MONOHYDROCHLORIDE □ NSC-78572

TOXICITY DATA with REFERENCE:

mno-esc 25 mg/L CPBTAL 13,610,65
 cyt-omi 495 µmol/L GANNA2 60,155,69
 mmo-smc 26 mg/L TXAPA9 15,451,69
 ipr-mus LD50:20,440 µg/kg NCISP* JAN86

SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

HJA000 CAS: 60462-51-3 HR: 2
trans-N-HYDROXY-4-AMINOSTILBENE

mf: C₁₄H₁₃NO mw: 211.28

SYNS: (E)-N-(p-STYRYLPHENYL)HYDROXYLAMINE □ trans-N-(p-STYRYLPHENYL)HYDROXYLAMINE □ trans-N-(4-STYRYLPHENYL)HYDROXYLAMINE

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to

decomposition it emits toxic fumes of NO_x. See also AMINES.

HJA500 CAS: 623-10-9 HR: D
4-(HYDROXYAMINO)TOLUENE

mf: C₇H₉NO mw: 123.17

PROP: Leaflets from C₆H₆. Mp: 94°.

SYNS: 4-METHYLPHENYLHYDROXYLAMINE □ N-(p-METHYLPHENYL)HYDROXYLAMINE □ N-(4-METHYLPHENYL)HYDROXYLAMINE □ p-TOLYL-HYDROXYLAMINE (GERMAN) □ N-(p-TOLYL)HYDROXYLAMINE □ N-p-TOLYHYDROXYLAMINE □ p-TOLYHYDROXYLAMINE

TOXICITY DATA with REFERENCE:

mno-sat 5 mg/L MUREAV 136,159,84

mno-esc 3750 nmol/L MUREAV 151,201,85

mrc-smc 100 ppm ZEKBAI 74,412,70

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HJA600 CAS: 6078-07-5 HR: D
p-HYDROXYAMPHETAMINE HYDROCHLORIDE

mf: C₉H₁₃NO•ClH mw: 187.69

SYNS: PHENOL, p-(2-AMINOPROPYL)-, HYDROCHLORIDE □ 4-(2-AMINOPROPYL)PHENOL HYDROCHLORIDE □ α-METHYLTYRAMINE HYDROCHLORIDE □ PHENOL, 4-(2-AMINOPROPYL)-, HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus TDLo:1300 mg/kg (female 6-18D post):REP REPTED 10,301,1996

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.

HJB050 CAS: 53-41-8 HR: D
3-α-HYDROXY-17-ANDROSTANONE

mf: C₁₉H₃₀O₂ mw: 290.49

PROP: Crystals from Me₂CO. Mp: 184–186°.

SYNS: ANDROSTAN-17-ONE, 3-HYDROXY-, (3-α-5-α)- □ 5-α-ANDROSTAN-3-α-OL-17-ONE □ 5-α-ANDROSTAN-17-ONE, 3-α-HYDROXY- □ ANDROSTANON-3-α-OL-17-ONE □ ANDROSTERONE □ cis-ANDROSTERONE □ 3-EPIHYDROXYETIO-ALLOCHOLAN-17-ONE □ 3-α-HYDROXY-5-α-ANDROSTAN-17-ONE □ 3-α-HYDROXYETIOALLOCHOLAN-17-ONE

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

HJB100 CAS: 571-22-2 HR: 2
17-β-HYDROXY-5-β-ANDROSTAN-3-ONE

mf: C₁₉H₃₀O₂ mw: 290.49

PROP: Plates from pet ether. Mp: 142–144°.

SYNS: 5-β-DHT □ 5-β-DIHYDROTESTOSTERONE □ ETIOCHOLAN-17-β-OL-3-ONE □ ETIOCHOLAN-17-β-OL-3-ONE

TOXICITY DATA with REFERENCE:

dni-hmn:lym 50 μmol/L PSEBAA 146,401,74

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and teratogenic data. Human mutation data reported. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes.

HJB150 CAS: 66964-26-9 HR: 3
17-β-HYDROXY-5-β,14-β-ANDROSTAN-3-ONE
ACRYLATE

mf: C₂₂H₃₂O₃ mw: 344.54

SYN: 5-β,14-β-ANDROSTAN-3-ONE, 17-β-HYDROXY-, ACRYLATE

TOXICITY DATA with REFERENCE:

ivn-cat LDLo:10 mg/kg JMCMA 13,657,1970

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

HJB200 CAS: 566-48-3 HR: D
4-HYDROXY-4-ANDROSTENE-3,17-DIONE

mf: C₁₉H₂₆O₃ mw: 302.45

PROP: Needles from EtOAc/pet ether. Mp: 205–206°.

SYN: 4-HYDROXY-μ₄-ANDROSTENEDIONE

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

HJB225 CAS: 1239-31-2 HR: 1
3-β-HYDROXYANDROSTEN-17-ONE ACETATE

mf: C₂₁H₃₂O₃ mw: 332.53

SYNS: (3-β,5-α)-3-(ACETYLOXY)ANDROSTAN-17-ONE □ ANDROSTAN-17-ONE, 3-(ACETYLOXY)-, (3-β,5-α)- □ DEHYDROEPIANDROSTERONE ACETATE □ EPIANDROSTERONE, DEHYDRO-, ACETATE □ ANDROSTEN-17-ONE, 3-β-HYDROXY-, ACETATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:>8 g/kg GTPZAB 18(2),32,1974

ipr-mus LD50:4900 mg/kg GTPZAB 18(2),32,1974

SAFETY PROFILE: Low toxicity by ingestion. Questionable carcinogen with experimental data reported. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

HJB250 CAS: 853-23-6 HR: 2
3-β-HYDROXYANDROST-5-EN-17-ONE
ACETATE

mf: C₂₁H₃₀O₃ mw: 330.51

SYNS: 3-β-ACETOXYDEHYDROEPIANDROSTERONE □ ANDROSTENOLONE ACETATE □ ANDROST-5-EN-17-ONE, 3-β-HYDROXY-, ACETATE □ ANDROST-5-EN-17-ONE, 3-(ACETYLOXY)-, (3-β)- □ ANDROST-5-EN-17-ONE, 3-β-HYDROXY-, ACETATE □ trans-DEHYDROANDROSTERONE ACETATE □ DEHYDROEPIANDROSTERONE ACETATE □ DEHYDROISOANDROSTERONE ACETATE □ DEHYDRO-ISOANDROSTERONE 3-ACETATE □ SKF 2847

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HJB260 CAS: 69766-36-5 HR: 2
4-(p-HYDROXYANILINO)BENZALDEHYDE

mf: C₁₃H₁₁NO₂ mw: 213.25

SYN: BENZALDEHYDE, 4-(p-HYDROXYANILINO)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:3500 mg/kg GTPZAB 10(3),49,1966

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HJB500 CAS: 877-22-5 HR: 2
2-HYDROXY-m-ANISIC ACID

mf: C₈H₈O₄ mw: 168.16

PROP: Crystals. Mp: 152° (anhydrous).

SYNS: ACIDE ORTHOVANILLIQUE □ 3-HYDROXY-m-ANISIC ACID □ 2-HYDROXY-3-METHOXYBENZOIC ACID □ 3-METHOXSALICYLIC ACID □ o-VANILLIC ACID

TOXICITY DATA with REFERENCE:

ipr-rat LD50:2056 mg/kg COREAF 243,609,56

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes.

HJC000 CAS: 645-08-9 HR: 2
3-HYDROXYANISIC ACID

mf: C₈H₈O₄ mw: 168.16

PROP: Prisms, needles or plates from H₂O. Mp: 255–257° (sublimes).

SYNS: ACIDE ISOVANILLIQUE (FRENCH) □ 3-HYDROXY-4-METHOXYBENZOIC ACID □ ISOVANILLIC ACID

TOXICITY DATA with REFERENCE:

ipr-rat LD50:2974 mg/kg COREAF 243,609,56

ipr-mus LD50:3000 mg/kg COREAF 243,609,56

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes.

HJC500 CAS: 17672-21-8 HR: 2
3-HYDROXYANTHRANILIC ACID METHYL ESTER

mf: C₈H₉NO₃ mw: 167.18

SYNS: 2-AMINO-3-HYDROXYBENZOIC ACID, METHYL ESTER □ METHYL-3-HYDROXYANTHRANILATE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS.

HJD000 CAS: 484-78-6 HR: 2
3-(3-HYDROXYANTHRANILOYL)ALANINE

mf: C₁₀H₁₂N₂O₄ mw: 224.24

SYNS: α,2-DIAMINO-3-HYDROXY-γ-OXOBENZENE-BUTANOIC ACID □ HYDROXYKYNURENINE □ 3-HYDROXYKYNURENINE

TOXICITY DATA with REFERENCE:

cyt-hmn:emb 50 mg/L BEXBAN 67,200,69

cyt-mus-scu 10 mg/L NATUAS 222,484,69

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HJD500 CAS: 606-14-4 HR: 2
3-(3-HYDROXYANTHRANILOYL)-I-ALANINE

mf: C₁₀H₁₂N₂O₄ mw: 224.24

PROP: Pale-yellow needles. Mp: 185–190° (decomp).

SYNS: 1-3-HYDROXYKYNURENINE □ 3-HYDROXY-1-KYNURENINE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HJE000 CAS: 129-43-1 HR: 2
1-HYDROXYANTHRAQUINONE

mf: C₁₄H₈O₃ mw: 224.22

PROP: Orange-red to fine yellow crystals in ethanol. Mp: 194–195°, bp: subl. Sol in alc, very sol in ether.

SYNS: 1-HYDROXY-9,10-ANTHRACENEDIONE □ 1-HYDROXYANTHRACHINON (CZECH) □ 1-HYDROXY-9,10-ANTHRAQUINONE

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,101,72

mno-sat 30 µg/plate MUREAV 265,263,92

dns-rat:lvf 50 µmol/L CBTOE2 2,457,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with carcinogenic and neoplastigenic data. An eye irritant. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

HJE100 CAS: 1306-06-5 HR: 1
HYDROXYAPATITE

mf: Ca₅HO₁₃P₃ mw: 502.32

SYNS: ALVEOGRAF □ APATITE, HYDROXY □ DURAPATITE □ HYDROXYLAPATITE (CA₅(OH)(PO₄)₃) (9CI) □ MONITE □ PERIOGRAF □ SUPERTITE 10 □ WIN 40350

TOXICITY DATA with REFERENCE:

add-unr-lym 200 mg/L IJBBQ 19,71,1982

orl-rat LD50:>25,350 mg/kg NIIRDN-,1007,1995

scu-rat LD50:>19,850 mg/kg NIIRDN-,1007,1995

orl-mus LD50:>99,500 mg/kg NIIRDN-,1007,1995

scu-mus LD50:>25,500 mg/kg NIIRDN-,1007,1995

orl-dog LD50:>30 g/kg NIIRDN-,1007,1995

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and subcutaneous routes. Mutation data reported. When heated to decomposition it emits toxic vapors of PO_x.

HJE400 CAS: 6318-57-6 HR: 3
2-HYDROXY-p-ARSANILIC ACID

mf: C₆H₈AsNO₄ mw: 233.07

SYNS: 4-AMINO-2-HYDROXYBENZENEARSONIC ACID □ BENZENEARSONIC ACID, 4-AMINO-2-HYDROXY-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#05106

OSHA PEL: TWA 0.5 mg(As)/m³

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and As.

HJE500 CAS: 2163-77-1 HR: 3
4-HYDROXY-3-ARSANILIC ACID

mf: C₆H₈AsNO₄ mw: 233.07

PROP: Mp: 290 (decomp). Sltly sol in water; most org solvs.

SYNS: 3-AMINO-4-HYDROXYBENZENEARSONIC ACID □ 4-HYDROXY-m-ARSANILIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5000 mg/kg JPETAB 63,122,38

ivn-rat LDLo:800 mg/kg JPETAB 63,122,38

ims-rat LD50:500 mg/kg JPETAB 63,122,38

ivn-mus LD50:180 mg/kg CSLNX* NX#05112

CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List.

OSHA PEL: TWA 0.5 mg(As)/m³

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intramuscular route. Mildly toxic by ingestion. When heated to decomposition it emits very toxic fumes of As and NO_x. See also ARSENIC COMPOUNDS.

HJE525 CAS: 86629-72-3 HR: 3
4A-HYDROXYAVERMECTIN B1

mf: C₄₈H₇₂O₁₅ mw: 889.20

SYNS: 5-o-DEMETHYL-26-HYDROXYAVERMECTIN A1A □ AVERMECTIN A1A, 5-o-DEMETHYL-26-HYDROXY-

TOXICITY DATA with REFERENCE:

orl-mus LD50:205 mg/kg JAFCAU 42,1786,94

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HJE575 CAS: 42028-33-1 HR: 2
3-HYDROXY-8-AZAXANTHINE

mf: C₄H₃N₃O₃ mw: 169.12

SYN: 4-HYDROXY-3H-o-TRIAZOLO(4,5-d)PYRIMIDINE-5,7(4H-6H)-DIONE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HJE600 CAS: 54301-19-8 HR: 3
14-HYDROXYAZIDOMORPHINE

mf: C₁₇H₂₀N₄O₃ mw: 328.41

SYN: (5-α,6-β)-6-AZIDO-4,5-EPOXY-17-METHYL-MORPHINAN-3,14-DIOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:190 mg/kg JPPMAB 27,99,75

scu-rat LD50:85 mg/kg JPPMAB 27,99,75

ivn-rat LD50:45 mg/kg JPPMAB 27,99,75

orl-mus LD50:370 mg/kg JPPMAB 27,99,75

scu-mus LD50:185 mg/kg JPPMAB 27,99,75

ivn-mus LD50:45 mg/kg JPPMAB 27,99,75

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. See also MORPHINE and AZIDES.

HJF000 CAS: 1689-82-3 HR: 3
4-HYDROXYAZOBENZENE

mf: C₁₂H₁₀N₂O mw: 198.24

PROP: Orange, rhombic crystals from ethanol. Mp: 155–156°, bp: 220–230°. Very sol in ether.

SYNS: p-BENZENEAZOPHENOL □ C.I. SOLVENT YELLOW 7 □ p-HYDROXYAZOBENZENE □ p-PHENYLAZOPHENOL □ 4-PHENYLAZOPHENOL

TOXICITY DATA with REFERENCE:

orl-mus LDLo:800 mg/kg NYKZAU 60,209,64

ipr-mus LD50:75 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 8,157,75. Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. Questionable carcinogen. When heated to decomposition it emits toxic fumes of NO_x.

HJF500 CAS: 3567-69-9 HR: 2
4-HYDROXY-3,4'-AZODI-1-NAPHTHALENE-SULFONIC ACID, DISODIUM SALT

mf: C₂₀H₁₂N₂O₇S₂•2Na mw: 502.44

PROP: Dark red crystals or powder. Sol in H₂O; mod sol in EtOH; insol in Me₂CO.

SYNS: ACETACID RED B □ ACID BRILLIANT RUBINE 2G □ ACID CHROME BLUE BA □ ACID FAST RED FB □ ACID RUBINE □ AIREDALE CARMOISINE □ AMACID CHROME BLUE R □ ATUL CRYSTAL RED F □ AZORUBIN □ BRASILAN AZO RUBINE 2NS □ BRILLIANT CRIMSON RED □ CARMOISIN (GERMAN) □ CARMOISINE ALUMINUM LAKE □ CARMOISINE SUPRA □ CERTICOL CARMOISINE S □ CHROME FAST BLUE 2R □ C.I. 14720 □ C.I. ACID RED 14, DISODIUM SALT □ C.I. FOOD RED 3 □ CRIMSON EMBL □ DIADEM CHROME BLUE R □ DISODIUM SALT of 2-(4-SULPHO-1-NAPHTHYLAZO)-1-NAPHTHOL-4-SULPHONIC ACID □ DISODIUM-2-(4-SULFO-1-NAPHTHYLAZO)-1-NAPHTHOL-4-SULFONATE □ DISODIUM-2-(4-SULFO-1-NAPHTHYLAZO)-1-NAPHTHOL-4-SULFONATE □ EDICOL SUPRA CARMOISINE WS □ ENIACID BRILLIANT RUBINE 3B □ EUROCERT AZORUBINE □ EXTRACT D&C RED No. 10 □ FENAZO RED C □ FOOD RED 5 □ FRUIT RED A EXTRA YELLOWISH GEIGY □ HEXACOL CARMOISINE □ HIDACID AZO RUBINE □ 4-HYDROXY-3,4'-AZODI-1-NAPHTHALENESULFONIC ACID, DISODIUM SALT □ 4-HYDROXY-3-((4-SULFO-1-NAPHTHALENYL)AZO)-1-NAPHTHALENESULFONIC ACID, DISODIUM SALT □ JAVA RUBINE N □ KARMESIN □ KENACHROME BLUE 2R □ KITON CRIMSON 2R □ LIGHTHOUSE CHROME BLUE 2R □ NACARAT A EXPORT □ NCI-C53849 □ NEKLACID RUBINE W □ NYLOMINE ACID RED P4B □ OMEGA CHROME BLUE FB □ POLOXAL RED 2B □ PONTACYL RUBINE R □ RED #14 □ 11959 RED □ SCHULTZ Nr. 208 (GERMAN) □ SOLAR RUBINE □ SOLOCHROME BLUE FB □ STANDACOL CARMOISINE □ 2-(4-SULFO-1-NAPHTHYLAZO)-1-NAPHTHOL-4-SULFONIC ACID, DISODIUM SALT □ TERTRACID RED CA □ TERTROCHROME BLUE FB

TOXICITY DATA with REFERENCE:

mno-sat 1 g/L MUREAV 53,289,78

mno-esc 100 mg/L MUREAV 53,289,78

ipr-rat LD50:900 mg/kg FCTXAV 5,179,67

ivn-rat LD50:800 mg/kg APFRAD 15,402,57

ipr-mus LD50:900 mg/kg FCTXAV 5,179,67

ivn-mus LD50:800 mg/kg FCTXAV 19,413,81

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 8,83,75. NTP Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NTPTR* NTP-TR-220,82. Reported in EPA TSCA Inventory. EPA Genetic

Toxicology Program.

SAFETY PROFILE: Moderately toxic by intraperitoneal and intravenous routes. Questionable carcinogen. Mutation data reported. When heated to

decomposition it emits very toxic fumes of SO_x, Na₂O, and NO_x.

HJG000 CAS: 57598-00-2 HR: 2
4'-HYDROXY-2,3'-AZOTOLUENE

mf: C₁₄H₁₄N₂O mw: 226.30

PROP: Red prisms from EtOH. Mp: 132°.

SYN: p-(o-TOLYLAZO)-o-CRESOL

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HJG050 CAS: 5339-74-2 HR: 3
4-HYDROXYBENZALDEHYDE THIOSEMI-CARBAZONE

mf: C₈H₉N₃OS mw: 195.26

SYN: BENZALDEHYDE, p-HYDROXY-, THIOSEMI-CARBAZONE

TOXICITY DATA with REFERENCE:

orl-rat LD :>500 mg/kg NCNSA6 5,37,53

orl-mus LD50:4 g/kg JPPMAB 2,764,50

ipr-mus LD :>500 mg/kg CBCCT* 6,52,54

ivn-mus LD50:320 mg/kg CSLNX* NX#01021

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by ingestion and intravenous routes. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

HJG100 CAS: 66267-67-2 HR: 1
α-HYDROXYBENZENEACETIC ACID 2-(2-ETHOXYETHOXY)ETHYL ESTER

mf: C₁₄H₂₀O₅ mw: 268.34

SYNS: A13-36401 □ BENZENEACETIC ACID, α-HYDROXY-, 2-(2-ETHOXYETHOXY)ETHYL ESTER

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MLD NTIS** AD-AO55-604

SAFETY PROFILE: An eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

HJH000 CAS: 68596-89-4 HR: 3
4-HYDROXYBENZENEDIAZONIUM-3-CARBOXYLATE

mf: C₇H₄N₂O₃ mw: 164.12

SAFETY PROFILE: Explodes when heated above 155°C. Upon decomposition it emits toxic fumes of NO_x.

HJH100 CAS: 7340-50-3 HR: 2
N-HYDROXYBENZENESULFONANILIDE

mf: C₁₂H₁₁NO₃S mw: 249.30

SYN: N-HYDROXYPHENYLBENZENESULFONAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

HJH500 CAS: 1333-39-7 HR: 3
HYDROXYBENZENESULFONIC ACID

DOT: UN 1803

mf: C₆H₆O₄S mw: 174.18

SYNS: PHENOLSULFONIC ACID □ PHENOLSULFONIC ACID, liquid (DOT) □ SULFOCARBOLIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:1900 mg/kg SIGAAE 36,317,73

ipr-rat LD50:165 mg/kg SIGAAE 36,317,73

scu-rat LD50:4 g/kg SIGAAE 36,317,73

orl-mus LD50:1500 mg/kg SIGAAE 36,317,73

ipr-mus LD50:140 mg/kg SIGAAE 36,317,73

scu-mus LD50:4200 mg/kg SIGAAE 36,317,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of SO_x.

HJI000 CAS: 6295-12-1 HR: 3
2-HYDROXY-1,3,2-BENZODIOXASTIBOLE

mf: C₆H₅O₃Sb mw: 246.86

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:62,500 µg/kg CBCCT* 4,227,52

CONSENSUS REPORTS: Antimony and its compounds are on the Community Right-To-Know List.

OSHA PEL: TWA 0.5 mg(Sb)/m³

ACGIH TLV: TWA 0.5 mg(Sb)/m³

NIOSH REL: (Antimony) TWA 0.5 mg/m³

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of Sb. See also ANTIMONY COMPOUNDS.

HJI100 CAS: 99-06-9 HR: 2
3-HYDROXYBENZOIC ACID

mf: C₇H₆O₃ mw: 138.13

PROP: Needles from H₂O. Mp: 202°.

SYNS: ACIDO-m-IDROSSIBENZOICO (ITALIAN) □ 3-CARBOXYPHENOL □ m-HBA □ m-HYDROXYBENZOIC ACID □ m-SALICYLIC ACID

TOXICITY DATA with REFERENCE:

ipr-rat LD50:3700 mg/kg BCFAAI 112,53,73

orl-mus LD50:2 g/kg QJPPAL 19,483,46

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An experimental teratogen. When heated to decomposition it emits acrid smoke and fumes.

HJI500 CAS: 36457-20-2 HR: 3
p-HYDROXYBENZOIC ACID BUTYL ESTER, SODIUM SALT

mf: C₁₁H₁₃O₃•Na mw: 216.23

TOXICITY DATA with REFERENCE:

orl-mus LD50:950 mg/kg JAPMA8 45,260,56

ipr-mus LD50:230 mg/kg JAPMA8 45,260,56

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Na₂O. See also ESTERS.

HJL000 CAS: 120-47-8 HR: 2
p-HYDROXYBENZOIC ACID ETHYL ESTER

mf: C₉H₁₀O₃ mw: 166.19

PROP: Crystals. Mp: 116°, bp: 297–298° (decomp).

SYNS: ASEPTOFORM E □ BONOMOLD OE □ p-CARBETHOXYPHENOL □ EASEPTOL □ ETHYL-p-HYDROXYBENZOATE □ ETHYL PARABEN □ ETHYL PARASEPT □ p-HYDROXYBENZOIC ETHYL ESTER □ NIPAGIN A □ NIPAZIN A □ p-OXYBENZOAESAEUREA-ETHYLESTER (GERMAN) □ SOLBROL A □ TEGOSEPT E

TOXICITY DATA with REFERENCE:

mno-esc 10 mmol/L ZBPIA9 112,226,59
 cyt-ham:fbr 250 mg/L ESKHA5 96,55,78
 cyt-ham:lng 440 mg/L GMCRCDC 27,95,81
 orl-mus LD50:3 g/kg BCTKAG 14,301,84
 ipr-mus LD50:520 mg/kg DRSTAT 20,89,52
 orl-dog LDLo:5 g/kg AEPPAE 146,208,29
 orl-rbt LDLo:5 g/kg AEPPAE 146,208,29
 orl-gpg LDLo:2000 mg/kg FAONAU 40,20,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental teratogenic effects. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

HJL100 CAS: 936-02-7 HR: 3
2-HYDROXYBENZOIC ACID HYDRAZIDE

mf: $C_7H_8N_2O_2$ mw: 152.17

SYNS: BENZOIC ACID, 2-HYDROXY-, HYDRAZIDE □ o-HYDROXYBENZHYDRAZIDE □ 2-HYDROXYBENZO-HYDRAZIDE □ o-HYDROXYBENZOIC ACID HYDRAZIDE □ o-HYDROXYBENZOYLHYDRAZIDE □ 2-HYDROXYBENZOYL-HYDRAZIDE □ o-HYDROXYBENZOYLHYDRAZINE □ 2-HYDROXYBENZOYLHYDRAZINE □ o-HYDROXYLBENZ-HYDRAZIDE □ SALICOYL HYDRAZIDE □ SALICYL HYDR-AZIDE □ SALICYLIC ACID, HYDRAZIDE □ SALICYLIC HYDR-AZIDE □ SALICYCLOHYDRAZINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:100 mg/kg JMPCAS 4,259,61

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x .

HJL500 CAS: 99-76-3 HR: 2
p-HYDROXYBENZOIC ACID METHYL ESTER

mf: $C_8H_8O_3$ mw: 152.16

PROP: Colorless crystals or white crystalline powder; faint odor and burning taste. Mp: 131° , bp: $270-280^\circ$ (decomp). Sol in alc, ether, and propylene glycol; sltly sol in water, glycerin, fixed oils, benzene, and carbon tetrachloride.

SYNS: ABIOL □ ASEPTOFORM □ MASEPTOL □ METHYLBEN □ METHYL CHEMOSEPT □ METHYL ESTER of p-HYDROXY-BENZOIC ACID □ METHYL p-HYDROXY-BENZOATE □ METHYL p-OXYBENZOATE □ METHYL PARA-BEN (FCC) □ METHYL PARAHYDROXYBENZOATE □ METHYL PARASEPT □ METOXYDE □ MOLDEX □ NIPAGIN □ p-OXYBENZOE-SAEUREMETHYLESTER (GERMAN) □ PARABEN □ PARASEPT □ PARIDOL □ PRESERVAL M □ SEPTOS □ SOLBROL M □ TEGOSEPT M

TOXICITY DATA with REFERENCE:

cyt-ham:lng 125 mg/L/27H MUREAV 66,277,79
 cyt-ham:fbr 500 mg/L ESKHA5 96,55,78

ipr-mus LD50:960 mg/kg JAPMA8 45,260,56
 scu-mus LD50:1200 mg/kg AIPTAK 128,135,60
 orl-dog LD50:3000 mg/kg 14CYAT 2,1897,63
 orl-rbt LDLo:3 g/kg AEPPAE 146,208,29
 orl-gpg LDLo:3000 mg/kg FAONAU 40,23,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

HJM000 CAS: 114-63-6 HR: 2
p-HYDROXYBENZOIC ACID, SODIUM SALT

mf: $C_7H_5O_3 \cdot Na$ mw: 160.11

PROP: Colorless plates from ethanol.

TOXICITY DATA with REFERENCE:

orl-mus LD50:2200 mg/kg JAPMA8 45,260,56
 ivn-mus LD50:1200 mg/kg JAPMA8 45,260,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of Na_2O .

HJN000 CAS: 767-00-0 HR: 3
4-HYDROXYBENZONITRILE

mf: C_7H_5NO mw: 119.13

PROP: Prisms of benzene. Mp: 113° , bp: 149° . Very sltly sol in water; very sol in alc and ether.

SYN: p-HYDROXYBENZONITRILE

TOXICITY DATA with REFERENCE:

orl-mus LD50:450 mg/kg APFRAD 41,391,83
 ipr-mus LD50:200 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

HJN100 CAS: 1137-42-4 HR: 2
4-HYDROXYBENZOPHENONE

mf: $C_{13}H_{10}O_2$ mw: 198.23

SYNS: BENZOPHENONE, 4-HYDROXY-(6Cl,7Cl,8Cl) □ p-BENZOYLPHENOL □ 4-BENZOYLPHENOL □ p-HYDROXY-BENZOPHENONE □ 4'-HYDROXYBENZOPHENONE □ (4-HYDROXYPHENYL)PHENYLMETHANONE □ METHANONE, (4-HYDROXYPHENYL)PHENYL-**TOXICITY DATA with REFERENCE:**

orl-rat LD50:12,086 mg/kg TOKSVE (2),25,94
 orl-mus LD50:3724 mg/kg TOKSVE (2),25,94
 ipr-mus LD50:1154 mg/kg TOKSVE (2),25,94

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating vapors.

HJN500 CAS: 37574-48-4 HR: D
4-HYDROXYBENZO(a)PYRENE

PROP: Sublimates. Mp: $220-222^\circ$.

SYNS: BENZO(a)PYREN-4-OL □ 4-HYDROXYBENZ(a)PYRENE

TOXICITY DATA with REFERENCE:

mno-sat 16 µg/plate MUREAV 36,379,76

dni-omi 200 µg/L PNASA6 74,1378,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HJN550 CAS: 3610-02-4 HR: 3
4-HYDROXYBENZOTHIOPHENE

mf: C₈H₆OS mw: 150.20

SYNS: 1-BENZOTHIOPHENE-4-OL □ BENZO(B)THIOPHENE-4-OL □ 4-HYDROXYBENZO(B)THIOPHENE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#09273

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of SO_x.

HJN600 CAS: 63307-62-0 HR: 1
1-HYDROXY-1H-BENZOTRIAZOLE AMMONIUM SALT

mf: C₆H₅N₃O•H₃N mw: 152.18

SYN: 1H-BENZOTRIAZOLE, 1-HYDROXY-, AMMONIUM SALT

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD JACTDZ 1,755,92

eye-rbt 100 mg MOD JACTDZ 1,755,92

orl-rat LDLo:5 g/kg JACTDZ 1,755,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. A skin and eye irritant. When heated to decomposition it emits toxic vapors of NO_x and NH₃.

HJN650 CAS: 2592-95-2 HR: 3
1-HYDROXYBENZOTRIAZOLE HYDRATE

mf: C₆H₅N₃O mw: 135.14

SYNS: BENZAZIMIDOL HYDRATE □ N-HYDROXYBENZOTRIAZOLE HYDRATE □ 1-HYDROXY-1H-BENZOTRIAZOLE HYDRATE

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MLD JACTDZ 1,679,92

orl-rat LDLo:5 g/kg JACTDZ 1,679,92

SAFETY PROFILE: Low toxicity by ingestion. An eye irritant. Potentially explosive if heated above 160°C. Upon decomposition it emits toxic fumes of NO_x.

HJN700 CAS: 33077-70-2 HR: 3
2-(p-HYDROXYBENZOYL)PYRIDINE

mf: C₁₂H₉NO₂ mw: 199.22

SYNS: (p-HYDROXYPHENYL) 2-PYRIDYL KETONE □ KETONE, (p-HYDROXYPHENYL) 2-PYRIDYL □ PYRIDINE, 2-(p-HYDROXYBENZOYL)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:780 mg/kg JMCAR 14,551,71

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

HJN875 CAS: 60254-95-7 HR: D
5-(α-HYDROXYBENZYL)-2-BENZIMIDAZ-OLECARBAMIC ACID METHYL ESTER

mf: C₁₆H₁₅N₃O₃ mw: 297.34

TOXICITY DATA with REFERENCE:

oms-hmn:oth 2 mg/L THERAP 31,505,76

ipr-mus LDLo:2 g/kg IJBA6 25,871,87

SAFETY PROFILE: Experimental teratogenic effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES and ESTERS.

HJO500 CAS: 469-65-8 HR: 3
(p-HYDROXYBENZYL)TARTARIC ACID

mf: C₁₁H₁₂O₇ mw: 256.23

PROP: From the bark of the Jamaica dogwood (AIPTAK 14,53,05).

SYNS: 2,3-DIHYDROXY-2-((4-HYDROXYPHENYL)METHYL)-BUTANEDIOIC ACID □ PISCIDEIN □ PISCIDIC ACID

TOXICITY DATA with REFERENCE:

ipr-cat LDLo:11 mg/kg AIPTAK 14,53,05

ipr-rbt LDLo:125 mg/kg AIPTAK 14,53,05

scu-gpg LDLo:200 mg/kg AIPTAK 14,53,05

par-frg LDLo:152 mg/kg AIPTAK 14,53,05

SAFETY PROFILE: A poison by intraperitoneal, subcutaneous, and parenteral routes. When heated to decomposition it emits acrid smoke and fumes.

HJP500 CAS: 26690-77-7 HR: 2
N-HYDROXY-4-BIPHENYLYLBENZAMIDE

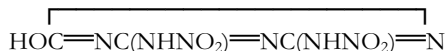
mf: C₁₉H₁₅NO₂ mw: 289.35

SYNS: N-4-BIPHENYLYLBENZOXYHYDROXAMIC ACID □ N-HYDROXY-4-BIPHENYLBENZAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

HJP575 CAS: 19899-80-0 HR: 3
2-HYDROXY-4,6-BIS(NITROAMINO)-1,3,5-TRIAZINE

mf: C₃H₃N₇O₅ mw: 217.10



SAFETY PROFILE: An impact-sensitive explosive. Upon decomposition it emits toxic fumes of NO_x.

HJQ000 CAS: 5809-59-6 HR: 3
2-HYDROXY-3-BUTENENITRILE

mf: C₄H₅NO mw: 83.10



PROP: Bp: 94° @ 17 mm.

SYNS: ACROLEIN CYANOHYDRIN □ 1-CYANO-2-PROPEN-1-OL □ VINYLGLYCOLONITRILE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open AMIHBC 10,61,54

eye-rbt 50 µg open SEV AMIHBC 10,61,54

orl-rat LD50:65 mg/kg AMIHBC 10,61,54

ihl-rat LC50:16 ppm/4H AMIHBC 10,61,54

skn-rbt LD50:7500 µg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: A poison by ingestion, skin contact, and inhalation. A skin and severe eye irritant. May polymerize explosively when exposed to light and air above 25°C. A storage hazard. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

HJQ350 CAS: 3817-11-6 HR: 3
4-HYDROXYBUTYLBUTYLNITROSAMINE

mf: C₈H₁₈N₂O₂ mw: 174.28

SYNS: BBN □ BBNOH □ HBHN □ BUTANOL (4)-BUTYL-NITROSAMINE □ BUTYL-BUTANOL(4)-NITROSAMIN □ BUTYL-BUTANOL-NITROSAMINE □ N-BUTYL-N-(4-HYDROXYBUTYL)NITROSAMINE □ n-BUTYL-(4-HYDROXYBUTYL)NITROSAMINE □ 4-(BUTYLNITROSAMINO)-1-BUTANOL □ 4-(n-BUTYLNITROSAMINO)-1-BUTANOL □ DIBUTYLAMINE, 4-HYDROXY-N-NITROSO- □ HBHN □ NBHA □ N-NITROSO-n-BUTYL-(4-HYDROXYBUTYL)AMINE □ OH-BBN

TOXICITY DATA with REFERENCE:

mna-sat 10 µmol/plate MUREAV 140,147,84
 sce-rat:lv 1500 µmol/L MUREAV 93,409,82
 cyt-ham:lng 900 mg/L/27H MUREAV 66,277,79
 orl-rat LD50:1800 mg/kg XENOBH 3,271,73
 scu-ham LD50:3 g/kg CALEDQ 1,15,75

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Sufficient Evidence IMEMDT 17,51,78.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and neoplastigenic data. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HJQ500 HR: 3
1-HYDROXY-3-BUTYL HYDROPEROXIDE

mf: C₄H₁₀O₃ mw: 106.12

HOC₂H₄CH(CH₃)OOH

SAFETY PROFILE: An impact-sensitive explosive. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES.

HJR000 CAS: 63934-40-7 HR: D
3-HYDROXYBUTYL-(2-HYDROXYPROPYL)-N-NITROSAMINE

mf: C₇H₁₆N₂O₃ mw: 176.25

SYN: 4-(N-(2-HYDROXYPROPYL)-N-NITROSOAMINO)-2-BUTANOL

TOXICITY DATA with REFERENCE:

mno-sat 50 µg/plate MUREAV 68,195,79

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

HJR500 CAS: 63934-41-8 HR: D
4-HYDROXYBUTYL-(2-HYDROXYPROPYL)-N-NITROSAMINE

mf: C₇H₁₆N₂O₃ mw: 176.25

SYN: 4-(N-(2-HYDROXYPROPYL)-N-NITROSOAMINO)-1-BUTANOL

TOXICITY DATA with REFERENCE:

mno-sat 100 µg/plate MUREAV 68,195,79

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

HJS000 CAS: 62018-90-0 HR: D
4-HYDROXYBUTYL-(3-HYDROXYPROPYL)-N-NITROSAMINE

mf: C₇H₁₆N₂O₃ mw: 176.25

SYN: 4-(N-(3-HYDROXYPROPYL)-N-NITROSOAMINO)-1-BUTANOL

TOXICITY DATA with REFERENCE:

mno-sat 1 mg/plate MUREAV 68,195,79

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

HJS400 CAS: 61424-17-7 HR: 2
4-HYDROXYBUTYL(2-PROPENYL)NITROSAMINE

mf: C₇H₁₄N₂O₂ mw: 158.23

SYNS: 4-(ALLYLNITROSAMINO)-1-BUTANOL □ 1-BUTANOL, 4-(NITROSO-2-PROPENYLAMINO)-

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

HJS450 CAS: 21556-79-6 HR: 3
3'-HYDROXYBUTYRANILIDE

mf: C₁₀H₁₃NO₂ mw: 179.24

SYN: BUTYRANILIDE, 3'-HYDROXY-

TOXICITY DATA with REFERENCE:

ipr-mus LD:>500 mg/kg CBCCT* 4,318,52
 ivn-mus LD50:180 mg/kg CSLNX* NX#03709

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

HJS500 CAS: 502-85-2 HR: 2
4-HYDROXYBUTYRIC ACID SODIUM SALT

mf: C₄H₇O₃•Na mw: 126.10

PROP: Crystals from EtOH. Mp: 145–146°.

SYNS: GAMMA OH □ γ-HYDROXYBUTYRATE SODIUM SALT □ SODIUM-γ-HYDROXYBUTYRATE □ SODIUM-4-HYDROXY-BUTYRATE □ SODIUM OXYBATE □ SOMSANIT □ WY-3478

TOXICITY DATA with REFERENCE:

orl-man TDL₀:71 mg/kg;BAH,GIT AJEMEN 9,321,91
 orl-rat LD50:9690 mg/kg FATOAO 43,714,80
 ipr-rat LD50:1650 mg/kg THERAP 32,375,77
 ipr-mus LD50:3330 mg/kg JPPAAZ 17,30,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Experimental reproductive effects. Human systemic effects: coma, distorted perceptions, hallucinations, nausea or vomiting. When heated to decomposition it emits toxic fumes of Na₂O.

HJS850 CAS: 1083-57-4 HR: 2**3-HYDROXY-p-BUTYROPHENETIDIDE**mf: $C_{12}H_{17}NO_3$ mw: 223.30

SYNS: BETADID □ BUCETIN □ BUTANAMIDE, N-(4-ETHOXYPHENYL)-3-HYDROXY- □ BUTYRANILIDE, 4'-ETHOXY-3-HYDROXY- □ 4'-ETHOXY-3-HYDROXY-BUTYRANILIDE □ β-HYDROXYBUTYRIC ACID-p-PHENETIDIDE □ β-OXYBUTTERSAEURE-p-PHENETIDID

TOXICITY DATA with REFERENCE:

mma-sat 2 μmol/plate CPBTAL 33,287,85

orl-rat LD50:7 g/kg ARZNAD 15,727,65

orl-mus LD50:2800 mg/kg NYKZAU 62,123,66

ipr-mus LD50:790 mg/kg NYKZAU 62,123,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .

HJS900 CAS: 55721-11-4 HR: 3**(24R)-HYDROXYCALCIDOL**mf: $C_{27}H_{44}O_3$ mw: 416.71

SYNS: 24(R),25-DIHYDROXYCHOLECALCIFEROL □ 24(R),25-DIHYDROXYVITAMIN D3 □ K-DR □ OSTEO D □ RO 21-5816 □ SECALCIFEROL □ 9,10-SECOCHOLESTA-5,7,10(19)-TRIENE-3,24,25-TRIOL, (3-β,5Z,7E,24R)- □ (3-β,5Z,7E,24R)-9,10-SECOCHOLESTA-5,7,10(19)-TRIENE-3,24,25-TRIOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:>10 mg/kg JKXXAF #94-247858

ivn-rat LD50:>2 mg/kg JKXXAF #94-247858

SAFETY PROFILE: A poison by ingestion and intravenous routes. When heated to decomposition it emits acrid smoke and irritating vapors.

HJS910 CAS: 89970-80-9 HR: D**2-HYDROXYCARBAMOYL-1-METHYLPYRIDINIUM IODIDE**mf: $C_7H_9N_2O_2 \cdot I$ mw: 280.08

SYNS: N-METHYLPYRIDINIUM-2-CARBOHYDROXAMIC ACID IODIDE □ PYRIDINIUM, 2-HYDROXYCARBAMOYL-1-METHYL-, IODIDE □ PYRIDINIUM, 2-((HYDROXY-AMINO)CARBONYL)-1-METHYL-, IODIDE

TOXICITY DATA with REFERENCE:

mic-sat 10 μmol/plate MUREAV 135,139,1984

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and I^- .

HJS920 CAS: 5434-60-6 HR: D**3-HYDROXYCARBAMOYL-1-METHYLPYRIDINIUM IODIDE**mf: $C_7H_9N_2O_2 \cdot I$ mw: 280.08

SYNS: N-METHYLPYRIDINIUM-3-CARBOHYDROXAMIC ACID IODIDE □ PYRIDINIUM, 3-HYDROXYCARBAMOYL-1-METHYL-, IODIDE □ PYRIDINIUM, 3-((HYDROXY-AMINO)CARBONYL)-1-METHYL-, IODIDE

TOXICITY DATA with REFERENCE:

mic-sat 10 μmol/plate MUREAV 135,139,1984

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and I^- .

HJS930 CAS: 89970-81-0 HR: D**4-HYDROXYCARBAMOYL-1-METHYLPYRIDINIUM IODIDE**mf: $C_7H_9N_2O_2 \cdot I$ mw: 280.08

SYNS: N-METHYLPYRIDINIUM-4-CARBOHYDROXAMIC ACID IODIDE □ PYRIDINIUM, 4-HYDROXYCARBAMOYL-1-METHYL-, IODIDE □ PYRIDINIUM, 4-((HYDROXYAMINO)-CARBONYL)-1-METHYL-, IODIDE

TOXICITY DATA with REFERENCE:

mic-sat 10 μmol/plate MUREAV 135,139,1984

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and I^- .

HJU000 CAS: 69103-96-4 HR: 3**2-(3-(4-HYDROXY-4-p-CHLOROPHENYL-PIPERIDINO)-PROPYL)-3-METHYL-7-FLUOROCHROMONE**mf: $C_{24}H_{25}ClFNO_3$ mw: 429.95

SYN: 2-(3-(4-(p-CHLOROPHENYL)-4-HYDROXYPIPERIDINE)-PROPYL)-7-FLUORO-3-METHYLCHROMONE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:175 mg/kg EJMA5 13,387,78

scu-mus LD50:325 mg/kg EJMA5 13,387,78

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of Cl^- , F^- , and NO_x .

HJV000 CAS: 57651-82-8 HR: 3**1-HYDROXYCHOLECALCIFEROL**mf: $C_{27}H_{44}O_2$ mw: 400.71**PROP:** Mp: 134–136° or 138–139.5°.

SYNS: ALFACALCIDOL □ 1-α-DIHYDROXYVITAMIN D3 □ α-HCC □ HYDROXYCHOLECALCIFEROL □ 1-α-HYDROXY-CHOLECALCIFEROL □ 1-α-HYDROXYVITAMIN D3 □ 1-α-OH-CC □ 1-α-OH-D³ □ 1-α-OH VITAMIN D3 □ 9,10-SECOCHOLESTA-5,7,10(19)-TRIENE-1-α,3-β-DIOL □ VITAMIN D³

TOXICITY DATA with REFERENCE:

orl-rat LD50:200 μg/kg PSEBAA 178,668,81

scu-rat LD50:40 μg/kg IYKEDH 12,668,81

ivn-rat LD50:101 μg/kg IYKEDH 12,668,81

orl-mus LD50:440 μg/kg TXAPA9 36,323,76

scu-mus LD50:58 μg/kg IYKEDH 12,668,81

ivn-mus LD50:56 μg/kg TXAPA9 36,323,76

orl-dog LD50:500 μg/kg IYKEDH 9,103,78

ivn-dog LD50:200 μg/kg IYKEDH 9,103,78

SAFETY PROFILE: A deadly poison by ingestion, subcutaneous, and intravenous routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits acrid smoke and fumes.

HJV500 CAS: 69853-71-0 HR: 2**6-HYDROXYCHOLEST-4-EN-3-ONE**mf: $C_{27}H_{44}O_2$ mw: 400.71

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.

HJV700 **HR: 2**
HYDROXYCITRONELLAL DIMETHYL ACETAL
 mf: C₁₂H₂₆O₃ mw: 218.34

PROP: Colorless liquid; floral odor. D: 0.925, refr index: 1.441, flash p: 212°F. Sol in fixed oils, propylene glycol; insol in glycerin.

SYNS: FEMA No. 2585 □ 7-HYDROXY-3,7-DIMETHYL OCTANAL:ACETAL

SAFETY PROFILE: Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

HJX500 **CAS: 508-54-3** **HR: 3**
14-HYDROXYCODEINONE

mf: C₁₈H₁₉NO₄ mw: 313.38

PROP: Pale yellow oil. Decomp @ 275°; very sol in CHCl₃, methyl cellosolve, pet ether, ethyl acetate; sltly sol in alc; insol in H₂O, ether.

SYNS: 7,8-DIDEHYDRO-4,5-EPOXY-14-HYDROXY-3-METHOXY-17-METHYLMORPHINAN-5-α-ONE □ 7,8-DIDEHYDRO-4,5-α-EPOXY-14-HYDROXY-3-METHOXY-17-METHYLMORPHINAN-6-ONE □ HYDROXYCODEINONE □ 14-β-HYDROXYCODEINONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1100 mg/kg JPPMAB 17,759,65

scu-mus LD50:23 mg/kg 28ZNAE 138,27,38

ivn-mus LD50:11,800 µg/kg JPPMAB 16(Suppl),68T,64

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

HJX625 **CAS: 63643-78-7** **HR: 3**
HYDROXYCOPPER(II) GLYOXIMATE

mf: C₂H₄CuN₂O₃ mw: 164.61

CONSENSUS REPORTS: Copper and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Explosive decomposition occurs at 140°C. Upon decomposition it emits toxic fumes of NO_x. See also COPPER COMPOUNDS.

HJX700 **CAS: 34834-67-8** **HR: D**
trans-3'-HYDROXYCOTININE

mf: C₁₀H₁₂N₂O₂ mw: 192.22

SYNS: 2-PYRROLIDINONE, 3-HYDROXY-1-METHYL-5-(3-PYRIDINYL)- □ 3HC

TOXICITY DATA with REFERENCE:

mic-uns 9.8 mg/L/12H MUREAV 492,13,2001

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HJY000 **CAS: 1076-38-6** **HR: 2**
4-HYDROXYCOUMARIN

mf: C₉H₆O₃ mw: 162.15

PROP: Needles from H₂O. Mp: 206°. Very sol in EtOH, Et₂O, and hot H₂O.

SYN: 4-HYDROXY-2H-1-BENZOPYRAN-2-ONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:2 g/kg MPHEAE 17,497,67

ipr-mus LD50:2000 mg/kg APTOA6 2,109,46

scu-mus LD50:750 mg/kg AIPTAK 128,126,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits acrid smoke and fumes.

HJY100 **CAS: 93-35-6** **HR: D**
7-HYDROXYCOUMARIN

mf: C₉H₆O₃ mw: 162.15

SYNS: 2H-1-BENZOPYRAN-2-ONE, 7-HYDROXY- □ COUMARIN, 7-HYDROXY- □ HYDRANGIN □ HYDRANGINE □ 7-OXYCOUMARIN □ SKIMMETIN □ SKIMMETINE □ UMBELLIFERON □ UMBELLIFERONE

TOXICITY DATA with REFERENCE:

mno-klp 800 mg/L JIMMBG 36,55,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HJY500 **CAS: 63981-92-0** **HR: 3**
(4-HYDROXY-o-CUMENYL)TRIMETHYLAMMONIUM CHLORIDE, METHYL-CARBAMATE

mf: C₁₄H₂₃N₂O₂•Cl mw: 286.84

SYNS: N-METHYLCARBAMIC ACID-3-ISOPROPYL-4-DIMETHYLAMINOPHENYL ESTER, METHOCHLORIDE □ METHYLCARBAMIC ACID, (4-TRIMETHYLAMMONIO)-m-CUMENYL ESTER, CHLORIDE □ (4-METHYLCARBAMOYLOXY-o-CUMENYL)TRIMETHYLAMMONIUM CHLORIDE □ TL-1345

TOXICITY DATA with REFERENCE:

scu-rat LD50:103 µg/kg NTIS** PB158-508

scu-mus LD50:47 µg/kg NTIS** PB158-508

scu-dog LD50:100 µg/kg NTIS** PB158-508

scu-mky LD50:150 µg/kg NTIS** PB158-508

scu-cat LD50:100 µg/kg NTIS** PB158-508

scu-rbt LD50:75 µg/kg NTIS** PB158-508

scu-gpg LD50:50 µg/kg NTIS** PB158-508

SAFETY PROFILE: A deadly poison by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x, NH₃ and Cl₂. See also CHLORIDES and CARBAMATES.

HJZ000 **CAS: 63981-53-3** **HR: 3**
(4-HYDROXY-o-CUMENYL)TRIMETHYLAMMONIUM IODIDE, DIMETHYL-CARBAMATE

mf: C₁₅H₂₅N₂O₂•I mw: 392.32

SYNS: ((4-(N,N-DIMETHYLCARBAMOYLOXY)-2-ISOPROPYL)-PHENYL)TRIMETHYLAMMONIUM IODIDE □ N,N-DIMETHYL-4-DIMETHYLAMINO-3-ISOPROPYLPHENYL ESTER METHIODIDE, CARBAMIC ACID □ (N-(2-ISOPROPYL-4-DIMETHYLCARBAMOYLOXY)PHENYL)TRIMETHYLAMMONIUM IODIDE □ SB-8 □ TL-599 □ ((4-TRIMETHYLAMMONIO)-3-ISOPROPYL)PHENYL ESTER, DIMETHYLCARBAMIC ACID IODIDE

TOXICITY DATA with REFERENCE:

scu-rat LDLo:200 µg/kg NTIS** PB158-508

ipr-mus LD50:168 µg/kg NTIS** PB158-508

scu-mus LD50:75 µg/kg JACSAT 63,308,41

scu-dog LDLo:200 µg/kg NTIS** PB158-508

scu-cat LDLo:300 µg/kg NTIS** PB158-508

scu-rbt LDLo:200 µg/kg NTIS** PB158-508

scu-gpg LDLo:100 µg/kg NTIS** PB158-508

SAFETY PROFILE: A deadly poison by intraperitoneal and subcutaneous routes. When heated to

decomposition it emits very toxic fumes of NO_x, NH₃, and F⁻. See also IODIDES and CARBAMATES.

HKA000 CAS: 931-97-5 HR: 3
1-HYDROXYCYCLOHEPTANECARBONITRILE

mf: C₈H₁₃NO mw: 139.22

PROP: Mp: 29°, bp: 125–126° @ 17.5 mm. Sol in H₂O; insol in org solvs.

SYN: 1-HYDROXY-CYCLOHEXANECARBONITRILE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:18 mg/kg CSLNX* NX#04232

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of CN⁻ and NO_x. See also NITRILES.

HKA109 CAS: 2211-64-5 HR: D
N-HYDROXYCYCLOHEXYLAMINE

mf: C₆H₁₃NO mw: 115.20

PROP: Needles. Mp: 140–141°.

SYN: N-CYCLOHEXYLHYDROXYLAMINE

TOXICITY DATA with REFERENCE:

cyt-hmn:leu 10 µmol/L/5H MUREAV 39,1,76

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HKA123 CAS: 193551-21-2 HR: 3
trans-1-(4-HYDROXYCYCLOHEXYL)-4-(4-FLUOROPHENYL)-5-(2-METHOXYPYRIMIDIN-4-YL)IMIDAZOLE

mf: C₂₀H₂₁FN₄O₂ mw: 368.41

SYN: CYCLOHEXANOL, 4-(4-(4-FLUOROPHENYL)-5-(2-METHOXY-4-PYRIMIDINYL)-1H-IMIDAZOL-1-YL)-, trans-

TOXICITY DATA with REFERENCE:

orl-mus TDLo:2.5 mg/kg JPETAB 293,281,2000

orl-gpg TDLo:10 mg/kg JPETAB 293,281,2000

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and F⁻.

HKA130 CAS: 16508-97-7 HR: 2
1-HYDROXYCYCLOPENTYL CYCLOHEXANECARBOXYLIC ACID ESTER

mf: C₁₂H₂₀O₃ mw: 212.32

TOXICITY DATA with REFERENCE:

orl-rat LD50:2600 µL/kg JPETAB 93,26,48

orl-mus LD50:3200 µL/kg JPETAB 93,26,48

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HKA200 CAS: 67292-62-0 HR: 3
4-HYDROXYCYCLOPHOSPHAMIDE

mf: C₇H₁₅Cl₂N₂O₃P mw: 277.11

SYNS: 2-(BIS(2-CHLOROETHYL)AMINO)-4-HYDROXY-TETRAHYDRO-2H-1,3,2-OXAZAPHOSPHORINE □ 4-OH-CP

TOXICITY DATA with REFERENCE:

mno-sat 10 µg/plate CNREA8 42,3016,82

mma-sat 10 µg/plate CNREA8 42,3016,82

sce-hmn:lym 1 µmol/L MUREAV 129,47,84

dnd-mus:leu 50 µmol/L CNREA8 44,5156,84

ivn-rat LD50:139 mg/kg JMCMA 18,376,75

ipr-mus LD50:141 mg/kg INNDDK 2,253,84

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Human mutation data reported. When heated to decomposition it emits very toxic fumes of Cl⁻, PO_x, and NO_x.

HKA250 CAS: 39638-73-8 HR: D
5-HYDROXYCYTIDINE

mf: C₉H₁₃N₃O₆ mw: 259.25

SYN: CYTIDINE, 5-HYDROXY-

TOXICITY DATA with REFERENCE:

sce-hmn:lym 100 nmol/L MUREAV 403,223,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HKA270 CAS: 3258-02-4 HR: D
4-N-HYDROXYCYTIDINE

mf: C₉H₁₃N₃O₆ mw: 259.25

SYNS: CYTIDINE, N-HYDROXY- □ N-4-HYDROXYCYTIDINE

□ URIDINE, 4-OXIME

TOXICITY DATA with REFERENCE:

mic-sat 50 µLg/plate ENMUDM 8,9,1986

mic-sat 500 µLg/plate MUREAV 56,225,1978

mic-esc 1 µmol/plate NARHAD 11,5223,1983

mic-uns 1 mmol/L NARHAD 11,5223,1983

mic-mld-nsc 500 µg/ MUREAV 285,145,1993

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HKA300 CAS: 25316-40-9 HR: 3
HYDROXYDAUNORUBICIN HYDROCHLORIDE

mf: C₂₇H₂₉NO₁₁•ClH mw: 580.03

PROP: Orange-red needles. Mp: 204–205° (decomp).

SYNS: ADM HYDROCHLORIDE □ ADR □ ADRIACIN □ ADRIAMYCIN □ ADRIAMYCIN, HYDROCHLORIDE □ ADRIBLASTIN □ ADRIBLASTINE □ DOX HYDROCHLORIDE □ DOXORUBICIN □ DOXORUBICIN HYDROCHLORIDE □ FI 106 □ FI 6804

TOXICITY DATA with REFERENCE:

dni-mus:leu 1500 nmol/L JMCMA 22,912,79

oms-mus:leu 580 nmol/L JMCMA 22,912,79

dni-ckn:emb 900 nmol/L JMCMA 26,638,83

ivn-man LDLo:2571 µg/kg/3W-I:KID AIMDAP 137,385,77

ivn-man TDLo:12 mg/kg/26W-I:CVS,PUL AIMEAS 106,814,87

ipr-rat LD50:16,030 µg/kg YAKUD5 21,359,79

scu-rat LD50:21,800 µg/kg NIIRDN 6,506,82

ivn-rat LD50:13,100 µg/kg NIIRDN 6,506,82

ims-rat LD50:16 mg/kg NIIRDN 6,506,82

orl-mus LD50:698 mg/kg NIIRDN 6,506,82

ipr-mus LD50:11,160 µg/kg NCISP* JAN86

scu-mus LD50:7678 µg/kg NCISP* JAN86

ivn-mus LD50:1245 µg/kg NCISP* JAN86

ims-mus LD50:13,700 µg/kg NIIRDN 6,506,82

ivn-rbt LD50:6 mg/kg NIIRDN 6,506,82

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by subcutaneous, intramuscular, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. Experimental reproductive effects. Human systemic effects: changes in kidney tubules, cardiomyopathy, acute pulmonary edema. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. An antineoplastic and immunosuppressive agent. When heated to decomposition it emits toxic fumes of NO_x and HCl .

HKA500 CAS: 706-14-9 HR: 3
HYDROXYDECANOIC ACID- γ -LACTONE

mf: $\text{C}_{10}\text{H}_{18}\text{O}_2$ mw: 170.28

SYNS: γ -N-DECALACTONE \square DECANOLIDE-1,4 \square γ -N-HEXYL- γ -BUTYROLACTONE \square 5-HEXYLDIHYDRO-2(3H)-FURANONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,741,76

ivn-mus LD50:56 mg/kg CSLNX* NX#02795

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. A skin irritant. When heated to decomposition it emits acrid smoke and fumes.

HKA700 CAS: 19115-30-1 HR: 2
1'-HYDROXY-2',3'-DEHYDROESTRAGOLE

mf: $\text{C}_{10}\text{H}_{10}\text{O}_2$ mw: 162.20

SYNS: BENZENEMETHANOL, α -ETHYNYL-4-METHOXY- \square α -ETHYNYL-p-METHOXYBENZYL ALCOHOL

TOXICITY DATA with REFERENCE:

dnd-mus-ipr 100 $\mu\text{mol/kg}$ PAACA3 25,88,84

oth-mus-ipr 100 $\mu\text{mol/kg}$ PAACA3 25,88,84

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

HKA750 CAS: 106449-56-3 HR: D
2-HYDROXYDEOXYADENOSINE

mf: $\text{C}_{10}\text{H}_{13}\text{N}_5\text{O}_4$ mw: 267.28

SYNS: ADENOSINE, 1,2-DIHYDRO-2'-DEOXY-2-OXO- \square DEOXYISOGUANOSINE \square 2'-DEOXYISOGUANOSINE \square 1,2-DIHYDRO-2'-DEOXY-2-OXOADENOSINE

TOXICITY DATA with REFERENCE:

mic-sat 10 $\mu\text{Lg/plate}$ MUREAV 403,223,1998

sce-hmn-lym 10 $\mu\text{mol/L}$ MUREAV 403,223,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .

HKA760 CAS: 52278-77-0 HR: D
5-HYDROXYDEOXYCYTIDINE

mf: $\text{C}_9\text{H}_{13}\text{N}_3\text{O}_5$ mw: 243.25

SYNS: CYTIDINE, 2'-DEOXY-5-HYDROXY- \square 2'-DEOXY-5-HYDROXYCYTIDINE

TOXICITY DATA with REFERENCE:

sce-hmn-lym 100 nmol/L MUREAV 403,223,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .

HKA770 CAS: 88847-89-6 HR: D

8-HYDROXYDEOXYGUANOSINE

mf: $\text{C}_{10}\text{H}_{13}\text{N}_5\text{O}_5$ mw: 283.28

SYNS: 7,8-DIHYDRO-2'-DEOXY-8-OXOGUANOSINE \square GUANOSINE, 7,8-DIHYDRO-2'-DEOXY-8-OXO- \square 8-OXO-DG

TOXICITY DATA with REFERENCE:

sce-hmn-lym 100 nmol/L MUREAV 403,223,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .

HKB000 CAS: 71609-22-8 HR: 2
N-HYDROXY-N,N'-DIACETYL BENZIDINE

mf: $\text{C}_{16}\text{H}_{16}\text{N}_2\text{O}_3$ mw: 284.34

SYNS: ACETAMIDE, N-(4'-(ACETYLAMINO))(1,1'-BIPHENYL)-4-YL)-N-HYDROXY-(9CI) \square N-(4'-ACETAMIDOBIPHENYLYL)-ACETOHYDROXAMIC ACID \square ACETOHYDROXAMIC ACID, N-(4'-ACETAMIDOBIPHENYL-4-YL)- \square NOHDABZ

TOXICITY DATA with REFERENCE:

mno-sat 250 nmol/plate CNREA8 39,3107,79

mma-sat 250 nmol/plate CNREA8 39,3107,79

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .

HKB200 CAS: 63139-69-5 HR: 2
HYDROXYDIHYDROCYCLOPENTADIENE

mf: $\text{C}_{10}\text{H}_{12}\text{O}$ mw: 148.22

SYN: TETRAHYDRO-4,7-METHANOINDENOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H AIHAAP 30,470,69

orl-rat LD50:3250 mg/kg AIHAAP 30,470,69

skn-rbt LD50:3150 mg/kg AIHAAP 30,470,69

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and fumes.

HKB300 CAS: 6795-16-0 HR: D
5-HYDROXYDIHYDROSTERIGMATOCYSTIN

mf: $\text{C}_{18}\text{H}_{14}\text{O}_6$ mw: 326.32

SYNS: DIHYDROSTERIGMATOCYSTIN \square 7H-FURO(3',2':4,5)-FURO(2,3-C)XANTHEN-7-ONE, 1,2,3A,12C-TETRAHYDRO-8-HYDROXY-6-METHOXY-

TOXICITY DATA with REFERENCE:

dns-rat-lvr 10 $\mu\text{mol/L}$ MUREAV 173,217,1986

dni-mky-kdy 2 mg/L JNCIAM 48,1647,1972

uns-mky-kdy 2 mg/L JNCIAM 48,1647,1972

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HKB500 CAS: 1689-83-4 HR: 3
4-HYDROXY-3,5-DIODOBENZONITRILE

mf: $\text{C}_7\text{H}_3\text{I}_2\text{NO}$ mw: 370.91

PROP: Colorless solid; needles from alc. Mp: 205–206°. Sltly sol in water.

SYNS: ACTRIL \square BANTROL \square BENTROL \square CERTROL \square 4-CYANO-2,6-DIIODOPHENOL \square 4-CYANO-2,6-DIJODPHENOL (GERMAN) \square 3,5-DIODO-4-HYDROXYBENZONITRILE \square 3,5-DIJOD-4-HYDROXY-BENZONITRIL (GERMAN) \square IOTOX \square IOXYNIL \square LOXYNIL (GERMAN) \square M&B 8873 \square OXYTRIL \square TOTRIL

TOXICITY DATA with REFERENCE:

orl-hmn LDLo:28 mg/kg; CNS, PUL ARTODN 37,241,77
 orl-rat LD50:110 mg/kg WRPCA2 9,119,70
 skn-rat LDLo:210 µg/kg GUHAZ 6,304,73
 orl-mus LD50:230 mg/kg 85GYAZ -,93,71
 ivn-mus LD50:56 mg/kg CSLNX* NX#02818
 orl-cat LD50:75 mg/kg 85GYAZ -,93,71
 orl-rbt LD50:180 mg/kg 85GYAZ -,93,71
 orl-gpg LD50:76 mg/kg 85GYAZ -,93,71
 orl-ckn LD50:200 mg/kg 85GYAZ -,93,71

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: A human poison by ingestion. Very poisonous experimentally by skin contact, ingestion, and intravenous routes. Human systemic effects: acute pulmonary edema, brain degenerative changes, hemorrhage. An herbicide. When heated to decomposition it emits toxic fumes of F^- and CN^- . See also NITRILES and IODIDES.

HKB550 CAS: 194037-27-9 HR: 2
7-(4-HYDROXY-3,5-DIMETHOXYCINNAMOYL-AMINO)-3-HEXYLOXY-4-HYDROXY-1-METHYL-2(1H)-QUINOLINONE

mf: $\text{C}_{27}\text{H}_{32}\text{N}_2\text{O}_7$ mw: 496.56

SYN: 2-PROPENAMIDE, 3-(4-HYDROXY-3,5-DIMETHOXY-PHENYL)-N-(3-(HEXYLOXY)-1,2-DIHYDRO-4-HYDROXY-1-METHYL-2-OXO-7-QUINOLINYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:>1000 mg/kg USXXAM #5942521

SAFETY PROFILE: Moderately toxic by route. When heated to decomposition it emits toxic vapors of NO_x .

HKB600 CAS: 21019-39-6 HR: 3
18- α -HYDROXY-11, 17- α -DIMETHOXY-3- β , 20- α -YOHIMBAN-16- β -CARBOXYLIC ACID, METHYL ESTER, 4-HYDROXY-3,5-DIMETHOXYBENZOATE (ESTER), ETHYLCARBONATE (ESTER)

mf: $\text{C}_{35}\text{H}_{42}\text{N}_2\text{O}_{11}$ mw: 666.79

TOXICITY DATA with REFERENCE:

ipr-rat LD50:286 mg/kg IYKEDH 6,386,75
 orl-mus LD50:1293 mg/kg IYKEDH 6,386,75
 ipr-mus LD50:101 mg/kg IYKEDH 6,386,75
 scu-mus LD50:321 mg/kg IYKEDH 6,386,75

SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x .

HKB650 CAS: 70786-72-0 HR: 2
N-HYDROXY-3,2'-DIMETHYL-4-AMINO-BIPHENYL

mf: $\text{C}_{14}\text{H}_{15}\text{NO}$ mw: 213.30

SYNS: (1,1'-BIPHENYL)-4-AMINE, 2',3-DIMETHYL-N-HYDROXY- □ 4-N-(3,2'-DIMETHYLBIPHENYL)HYDROXAMINE □ 2',3-DIMETHYL-N-HYDROXY-(1,1'-BIPHENYL)-4-AMINE □ HYDROXYLAMINE, N-(2',3-DIMETHYLBIPHENYL-4-YL)-

TOXICITY DATA with REFERENCE:

mic-sat 120 nmol JMCMA 22,981,79
 dns-rat-mm 10 µmol/L CNREA8 48,422,88

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation

data reported. When heated to decomposition it emits toxic vapors of NO_x .

HKB700 CAS: 84371-65-3 HR: D
17- β -HYDROXY-11- β -(4-DIMETHYLAMINO-PHENYL-1)-17- α -(PROP-1-YNYL) OESTRA-4,9-DIEN-3-ONE

mf: $\text{C}_{29}\text{H}_{35}\text{NO}_2$ mw: 429.65

SYNS: MIFEPRISTONE □ R 38486 □ RU 486 □ RU 486-6 □ RU 38486 □ ESTRA-4,9-DIEN-3-ONE, 11-(4-(DIMETHYLAMINO)-PHENYL)-17-HYDROXY-17-(1-PROPYNYL)-, (11- β , 17- β -

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .

HKC000 CAS: 75-60-5 HR: 3
HYDROXYDIMETHYLARSINE OXIDE
DOT: UN 1572

mf: $\text{C}_2\text{H}_7\text{AsO}_2$ mw: 138.01

PROP: Colorless, odorless crystals from MeOH, 2-propanol, and EtOH. Mp: 192°. Very sol in H_2O ; sol in EtOH; insol in Et_2O .

SYNS: ACIDE CACODYLIQUE (FRENCH) □ ACIDE DIMETHYLARSINIQUE (FRENCH) □ AGENT BLUE □ ANSAR □ ARSAN □ ARSINIC ACID, DIMETHYL-(9CI) □ BOLLS-EYE □ CACODYLIC ACID (DOT) □ CHEXMATE □ COTTON AIDE HC □ DILIC □ DIMETHYLARSINIC ACID □ DIMETHYLARSINIC ACID □ DMAA □ ERASE □ KYSELINA KAKODYLOVA □ MONCIDE □ MONTAR □ PHYTAR □ PHYTAR 138 □ PHYTAR 560 □ PHYTAR 600 □ RAD-E-CATE 25 □ RCRA WASTE NUMBER U136 □ SALVO □ SILVISAR 510

TOXICITY DATA with REFERENCE:

skn-rat 2600 mg/ m^3 /2H TXAPA9 37,165,76
 eye-rat 2600 mg/ m^3 /2H TXAPA9 37,165,76
 mma-smc 2 pph NTIS** PB84-138973
 mnt-mus-ipr 7900 mg/kg/24H NTIS** PB84-138973
 orl-rat LD50:644 mg/kg FAATDF 7,299,86
 ipr-mus LDLo:500 mg/kg NTIS** AD295-864
 unr-mus LD50:185 mg/kg 30ZDA9 -,393,71

CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 23,39,80. Arsenic and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 0.5 mg(As)/ m^3

ACGIH TLV: BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by an unspecified route. Moderately toxic by ingestion and intraperitoneal routes. Experimental teratogenic and reproductive effects. A skin and eye irritant. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Used as an herbicide, defoliant, and silvicide. Hazardous when water solution is in contact with active metals, e.g., Fe, Al, Zn. When heated to decomposition it emits toxic fumes of As. See also ARSINE and ARSENIC COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Arsenic, Organo-, 5022.

**HKC500 CAS: 124-65-2 HR: 3
HYDROXYDIMETHYLARSINE OXIDE, SODIUM
SALT****DOT:** UN 1688mf: $C_2H_6AsO_2 \cdot Na$ mw: 159.99

SYNS: ALKARSODYL □ ANSAR 160 □ ANSAR 560 □ ARSECODILE □ ARSINIC ACID, DIMETHYL-, SODIUM SALT (9CI) □ ARSYCODILE □ BOLLS-EYE □ CACODYLATE de SODIUM (FRENCH) □ CACODYLIC ACID SODIUM SALT □ CHEMAID □ DIMETHYLARSINAT SODNY □ ((DIMETHYL-ARSINO)OXY)SODIUM-As-OXIDE □ DUTCH-TREAT □ HYDROXYDIMETHYLARSINE OXIDE, SODIUM SALT □ KAKODYLAN DODNY □ PHYTAR 560 □ RAD-E-CATE □ RAD-E-CATE 16 □ RAD-E-CATE 25 □ RAD-E-CATE 35 □ SILVISAR □ SODIUM CACODYLATE (DOT) □ SODIUM DIMETHYLARSINATE □ SODIUM DIMETHYLARSONATE □ SODIUM SALT of CACODYLIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:2600 mg/kg GUCHAZ 6,70,73

orl-mus LD50:4 mg/kg CLDND* 49,172,102,88

CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.5 mg(As)/m³**ACGIH TLV:** BEI: 35 μ (As)/L inorganic arsenic and methylated metabolites in urine**DOT CLASSIFICATION:** 6.1; Label: Poison**SAFETY PROFILE:** Poison by ingestion.

Experimental teratogenic and other reproductive effects. When heated to decomposition it emits toxic fumes of As and Na₂O. See also ARSINE and ARSENIC COMPOUNDS.

**HKC550 CAS: 6131-99-3 HR: D
HYDROXYDIMETHYLARSINE OXIDE, SODIUM
SALT TRIHYDRATE**mf: $C_2H_6AsO_2 \cdot Na \cdot 3H_2O$ mw: 214.05

SYNS: ARSINE OXIDE, HYDROXYDIMETHYL-, SODIUM SALT, TRIHYDRATE □ DIMETHYLARSENIC ACID SODIUM SALT TRIHYDRATE □ DIMETHYLARSINIC ACID SODIUM SALT TRIHYDRATE □ SODIUM DIMETHYLARSINIC ACID TRIHYDRATE

TOXICITY DATA with REFERENCE:**OSHA PEL:** 8H TWA 0.5 mg(As)/m³**ACGIH TLV:** BEI: 35 μ (As)/L inorganic arsenic and methylated metabolites in urine

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of As.

**HKC575 CAS: 3658-77-3 HR: 3
4-HYDROXY-2,5-DIMETHYL-3(2H)FURANONE**mf: $C_6H_8O_3$ mw: 128.14

SYNS: ALLETON □ COE 536 □ 2,5-DIMETHYL-4-HYDROXY-3(2H)-FURANONE □ FEMA 3174 □ FURANEOL □ 3(2H)-FURANONE, 2,5-DIMETHYL-4-HYDROXY- □ PINEAPPLE KETONE

TOXICITY DATA with REFERENCE:

mmo-sat 2 mg/plate CHYCDW 22,85,88

sce-mus-ipr 186 mg/kg CHYCDW 22,85,88

orl-mus LD50:1608 mg/kg CHYCDW 22,85,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by ingestion.

Mutation data reported. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

**HKC600 HR: D
6-HYDROXY-3,7-DIMETHYLOCTANOIC ACID
LACTONE**mf: $C_{10}H_{18}O_2$ mw: 170.24

PROP: Colorless solid; maple syrup odor. D: 0.966, refr index: 1.457–1.461. Sol in alc; very sltly sol in water.

SYN: FEMA No. 3355

SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

**HKC625 CAS: 63903-75-3 HR: 3
(+)-2'-HYDROXY-5,9-DIMETHYL-2-
PHENETHYL-6,7-BENZOMORPHAN
HYDROBROMIDE**mf: $C_{22}H_{27}NO \cdot BrH$ mw: 402.42

SYNS: α-5,9-DIMETHYL-2'-HYDROXY-2(N)-PHENETHYL-6,7-BENZOMORPHAN HYDROBROMIDE □ 2,6-METHANO-3-BENZAZOCIN-8-OL, 1,2,3,4,5,6-HEXAHYDRO-6,11-α-DIMETHYL-3-PHENETHYL-, HYDROBROMIDE, (+)- □ NIH 7519 □ XENAGOL

TOXICITY DATA with REFERENCE:

scu-mus LD50:332 mg/kg JOCEAH 24,1435,59

SAFETY PROFILE: A poison by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.

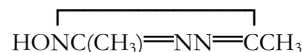
**HKC700 CAS: 155622-18-7 HR: 3
N-(3-(2-HYDROXY-4,5-DIMETHYLPHENYL)-
ADAMANT-1-YLMETHYL)ACETAMIDINO-
THIOSULFURIC ACID**mf: $C_{21}H_{30}N_2O_4S_2$ mw: 438.65

SYN: THIOSULFURIC ACID, S-(2-(((3-(4,5-DIMETHYL-2-HYDROXYPHENYL)TRICYCLO(3.3.1.1^{3,7})DEC-1-YL)METHYL)-AMINO)-2-IMINOETHYL) ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LD50:15 mg/kg PCJOAU 27,585,93

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

**HKD550 CAS: 35869-74-0 HR: 3
4-HYDROXY-3,5-DIMETHYL-1,2,4-TRIAZOLE**mf: $C_4H_7N_3O$ mw: 113.13

SAFETY PROFILE: Explodes when heated to its melting point of 122°C. Upon decomposition it emits toxic fumes of NO_x.

**HKE000 CAS: 520-53-6 HR: 3
4-HYDROXY-N,N-DIMETHYLTRYPTAMINE**mf: $C_{12}H_{16}N_2O$ mw: 204.30

PROP: A solid. Mp: 173–176° (decomp).

SYNS: CX-59 □ 3-(2-(DIMETHYLAMINO)ETHYL)INDOL-4-OL
□ PSILOCINE □ PSILOTSIN

TOXICITY DATA with REFERENCE:

ivn-rat LD50:75 mg/kg PSCBAY 2,17,63
ipr-mus LD50:196 mg/kg JTEHD6 1,515,76
ivn-mus LD50:74 mg/kg 27ZQAG -,138,72
ivn-rbt LD50:7 mg/kg 27ZQAG -,138,72

SAFETY PROFILE: A poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

HKE500 CAS: 6269-50-7 HR: 3
4-HYDROXY-3,5-DINITROBENZENEARSONIC ACID

mf: C₆H₅AsN₂O₈ mw: 308.04
HO(O₂N)₂C₆H₂AsO(OH)₂

CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Arsenic compounds are generally poisons. Potentially explosive if heated. Upon decomposition it emits toxic fumes of As and NO_x. See also ARSENIC COMPOUNDS and NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

HKE600 CAS: 609-99-4 HR: 3
2-HYDROXY-3,5-DINITROBENZOIC ACID

mf: C₇H₄N₂O₇ mw: 228.13

SYNS: BENZOIC ACID, 2-HYDROXY-3,5-DINITRO-(9CI) □ 3,5-DINITROSALICYLIC ACID □ SALICYLIC ACID, 3,5-DINITRO-

TOXICITY DATA with REFERENCE:

orl-rat LD50:860 mg/kg GISAAA 51(1),85,86
orl-mus LD50:270 mg/kg GISAAA 51(1),85,86

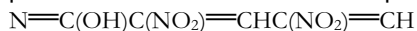
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HKE700 CAS: 2980-33-8 HR: 3
2-HYDROXY-3,5-DINITROPYRIDINE

mf: C₅H₃N₃O₅ mw: 185.10



SAFETY PROFILE: An explosive. When heated to decomposition it emits toxic fumes of NO_x.

HKF000 CAS: 101-73-5 HR: 2
p-HYDROXYDIPHENYLAMINE ISOPROPYL ETHER

mf: C₁₅H₁₇NO mw: 227.33

SYNS: AGERITE 150 □ AGERITE ISO □ p-ISOPROPOXY-DIPHENYLAMINE □ 4-ISOPROPOXYDIPHENYLAMINE □ N-(4-ISOPROPOXYPHENYL)ANILINE

TOXICITY DATA with REFERENCE:

cyt-ham:lng 30 mg/L MUREAV 241,175,90
orl-rat LDLo:10 g/kg IPSTB3 3,93,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to

decomposition it emits toxic fumes of NO_x. See also AMINES and ETHERS.

HKF300 CAS: 91-01-0 HR: 1
HYDROXYDIPHENYLMETHANE

mf: C₁₃H₁₂O mw: 184.25

SYNS: BENZHYDROL □ BENZHYDRYL ALCOHOL □ BENZOHYDROL □ DIPHENYL CARBINOL □ DIPHENYLMETHANOL □ DIPHENYLMETHYL ALCOHOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:5000 mg/kg FCTXAV 17,713,79
scu-gpg LDLo:2 g/kg JPETAB 24,405,24

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion and subcutaneous routes. When heated to decomposition it emits acrid smoke and irritating vapors.

HKF350 CAS: 74938-11-7 HR: 3
7-HYDROXY-2-(DIPROPYLAMINO)TETRALINE

mf: C₁₆H₂₅NO mw: 247.38

SYN: 2-NAPHTHALENOL, 5,6,7,8-TETRAHYDRO-7-DIPROPYLAMINO-

TOXICITY DATA with REFERENCE:

scu-rat TDLo:0.16 mg/kg JPETAB 293,1063,2000

SAFETY PROFILE: A poison by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x.

HKF370 CAS: 78950-78-4 HR: 3
8-HYDROXY-2-(DI-n-PROPYLAMINO)-TETRALINE

mf: C₁₆H₂₅NO mw: 247.38

SYN: 1-NAPHTHALENOL, 7-(DIPROPYLAMINO)-5,6,7,8-TETRAHYDRO-

TOXICITY DATA with REFERENCE:

scu-mus TDLo:0.5 mg/kg FRMCE8 55,345,2000
scu-rat TDLo:0.5 mg/kg FRMCE8 55,345,2000
scu-rat TDLo:0.5 mg/kg BIPBU* 24,1191,2001

SAFETY PROFILE: A poison by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x.

HKF600 CAS: 66427-01-8 HR: 3
N-HYDROXYDITHIOCARBAMIC ACID

mf: CH₃NOS₂ mw: 109.16

SAFETY PROFILE: An unstable material which may explode at sub-zero temperatures. Upon decomposition it emits toxic fumes of SO_x and NO_x. See also CARBAMATES.

HKF875 CAS: 1199-18-4 HR: D
6-HYDROXYDOPAMINE

mf: C₈H₁₁NO₃ mw: 169.20

SYNS: OXIDOPAMINE □ 2,4,5-TRIHYDROXYPHENETHYLAMINE

TOXICITY DATA with REFERENCE:

mno-sat 100 µg/plate ABCHA6 45,327,81
mma-sat 100 µg/plate ABCHA6 45,327,81

SAFETY PROFILE: Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HKG000 CAS: 28094-15-7 HR: 2
6-HYDROXYDOPAMINE HYDROCHLORIDE

mf: C₈H₁₁NO₃•ClH mw: 205.66

SYNS: 4-(2-AMINOETHYL)-1,2,3-BENZENETRIOL HYDROCHLORIDE □ 3,4,5-TRIHYDROXYPHENETHYLAMINE HYDROCHLORIDE

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

HKG500 CAS: 5289-74-7 HR: 2
20-HYDROXYECDYSONE

mf: C₂₇H₄₄O₇ mw: 480.71

PROP: Plates from EtOAc/THF. Mp: 237.5–239.5°.

SYNS: COMMISTERONE □ CRUSTECDYSON □ β-ECDYSONE □ ECDYSTERONE □ β-ECDYSTERONE □ 2-β,3-β,14,20,22,25-HEXAHYDROXY-5-β-CHOLET-7-EN-6-ONE □ ISOINOKOSTERONE □ POLYPODINE A □ THE-7 □ VITICOSTERONE

TOXICITY DATA with REFERENCE:

cyt-slw-par 100 μmol/L ENZYAS 41,183,71

dnd-mus:lvr 100 nmol/L ENZYAS 41,183,71

ipr-mus LD50:6400 mg/kg NYKZAU 66,551,70

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

HKG600 CAS: 70608-72-9 HR: D
5-HYDROXYEICOSATETRAENOIC ACID

mf: C₂₀H₃₂O₃ mw: 320.52

SYNS: 6,8,11,14-EICOSATETRAENOIC ACID, 5-HYDROXY-, (E,Z,Z,Z)- □ 5-HETE □ 5-HYDROXY-6,8,11,14-EICOSATETRAENOIC ACID

TOXICITY DATA with REFERENCE:

dnd-hmn-lym 5 μmol/L CRNGDP 10,1029,1989

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HKG650 CAS: 71030-37-0 HR: D
12-HYDROXYEICOSATETRAENOIC ACID

mf: C₂₀H₃₂O₃ mw: 320.52

SYNS: 5,8,10,14-EICOSATETRAENOIC ACID, 12-HYDROXY-, (E,Z,Z,Z)- □ 12-HETE □ 12-HYDROXY-5,8,10,14-EICOSATETRAENOIC ACID

TOXICITY DATA with REFERENCE:

dnd-hmn-lym 5 μmol/L CRNGDP 10,1029,1989

dni-hmn-oth 20 μmol/L CNREA8 45,561,1985

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HKG680 CAS: 73180-00-4 HR: D
15-HYDROXYEICOSATETRAENOIC ACID

mf: C₂₀H₃₂O₃ mw: 320.52

SYNS: EICOSATETRAENOIC ACID, 15-HYDROXY- □ 15-HETE

TOXICITY DATA with REFERENCE:

dnd-hmn-lym 5 μmol/L CRNGDP 10,1029,1989

dni-hmn-oth 20 μmol/L CNREA8 45,561,1985

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HKH000 CAS: 51131-85-2 HR: 3
9-HYDROXYELLIPTICINE

mf: C₁₇H₁₄N₂O mw: 262.33

PROP: Orange prisms from CHCl₃/MeOH.

SYNS: 5,11-DIMETHYL-6H-PYRIDO(4,3-b)CARBAZYL-9-OL □ 9-HYDROXYELLIPTICIN □ HYDROXY-9 ELLIPTICINE (FRENCH) □ IGIG 929

TOXICITY DATA with REFERENCE:

mno-sat 500 ng/plate CNREA8 43,3544,83

oms-ham:lng 4 μmol/L CNREA8 45,4229,85

ipr-mus LD50:50 mg/kg FRPSAX 35,887,80

ivn-mus LD50:102 mg/kg TXAPA9 33,484,75

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Experimental teratogenic and reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HKH500 CAS: 365-26-4 HR: 3
p-HYDROXYEPHEDRINE

mf: C₁₀H₁₅NO₂ mw: 181.23

PROP: Crystalline powder. Mp: 152–154°. Very sltly sol in water, alc, and ether. Very sol in NaOH solns and dil acids.

SYNS: p-HYDROXYPHENYLMETHYLAMINOPROPANOL □ 1-(4-HYDROXYPHENYL)-2-METHYLAMINOPROPANOL □ α-(1-METHYLAMINOETHYL)-p-HYDROXYBENZYL ALCOHOL □ OXYEPHEDRINE □ SUPRIFEN □ SUPRIFENE

TOXICITY DATA with REFERENCE:

ivn-rbt LDLo:150 mg/kg AEPPAE 160,127,31

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x.

HKH550 CAS: 4147-05-1 HR: D
1-HYDROXYESTRADIOL

mf: C₁₈H₂₄O₃ mw: 288.42

SYN: ESTRA-1,3,5(10)-TRIENE-1,3,17-β-TRIOL

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

HKH600 CAS: 362-05-0 HR: D
2-HYDROXYESTRADIOL

mf: C₁₈H₂₄O₃ mw: 288.42

SYNS: ESTRA-1,3,5(10)-TRIENE-2,3,17-β-TRIOL □ 2-OH-ESTRADIOL

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

HKH850 CAS: 5976-61-4 HR: 2
4-HYDROXYESTRADIOL

mf: C₁₈H₂₄O₃ mw: 288.42

PROP: Crystals from aq MeOH. Mp: 214–216°.

SYNS: 4-HYDROXY-17- β -ESTRADIOL \square 4-OH-E2 \square 4-OH-ESTRADIOL

SAFETY PROFILE: Experimental reproductive data. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

HKI000 CAS: 51410-44-7 HR: 2

1'-HYDROXYESTRAGOLE

mf: $C_{10}H_{12}O_2$ mw: 164.22

SYN: p-METHOXY- α -VINYL BENZYL ALCOHOL

TOXICITY DATA with REFERENCE:

mmo-sat 1 μ mol/plate MUREAV 60,143,79

mma-sat 1 μ mol/plate MUREAV 60,143,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

HKI075 CAS: 730771-71-0 HR: 2

1'-HYDROXY-ESTRAGOLE-2',3'-OXIDE

mf: $C_{10}H_{12}O_3$ mw: 180.22

SYN: α -(EPOXYETHYL)-p-METHOXYBENZYL ALCOHOL

TOXICITY DATA with REFERENCE:

mmo-sat 200 nmol/plate MUREAV 60,143,79

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

HKI100 CAS: 10161-34-9 HR: D

17- β -HYDROXYESTRA-4,9,11-TRIEN-3-ONE ACETATE

mf: $C_{20}H_{24}O_3$ mw: 312.44

SYNS: 17- β -ACETOXY- Δ -4,9,11-ESTRATRIEN-3-ONE \square ESTRA-4,9,11-TRIEN-3-ONE, 17-(ACETYLOXY)-, (17- β)-(9CI) \square ESTRA-4,9,11-TRIEN-3-ONE, 17- β -HYDROXY-, ACETATE \square FINAPLIX \square RU 1697 \square TRENBOLONE ACETATE \square TRIENBOLONE ACETATE

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

HKI200 CAS: 362-06-1 HR: D

2-HYDROXYESTRONE

mf: $C_{18}H_{22}O_3$ mw: 286.37

SYN: ESTRA-1,3,5(10)-TRIEN-17-ONE, 2,3-DIHYDROXY-

TOXICITY DATA with REFERENCE:

add-ham-emb 10 mg/L/6H CRNGDP 22,1505,2001

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HKI300 CAS: 3131-23-5 HR: D

4-HYDROXYESTRONE

mf: $C_{18}H_{22}O_3$ mw: 286.40

SYNS: 3,4-DIHYDROXYESTRA-1,3,5(10)-TRIEN-17-ONE \square ESTRA-1,3,5(10)-TRIEN-17-ONE, 3,4-DIHYDROXY-

TOXICITY DATA with REFERENCE:

add-ham-emb 10 mg/L/6H CRNGDP 22,1505,2001

SAFETY PROFILE: Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HKI500 CAS: 107-36-8 HR: 3

2-HYDROXYETHANESULFONIC ACID

mf: $C_2H_6O_4S$ mw: 126.14

PROP: Syrup. Misc in H_2O and EtOH.

SYNS: ETHANOLSULFONIC ACID \square HYDROXY-

ETHYLSULFONIC ACID \square ISETHIONIC ACID \square ISOTHIONIC ACID \square USAF DO-14

TOXICITY DATA with REFERENCE:

ipr-mus LD50:50 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. An irritant to skin, eyes and mucous membranes. See also SULFONATES.

HKI600 CAS: 52637-01-1 HR: 3

2-(2-HYDROXYETHOXY)ETHYL CHLOROACETATE

mf: $C_6H_{11}ClO_4$ mw: 182.62

SYNS: ACETIC ACID, CHLORO-, 2-(2-HYDROXYETHOXY)ETHYL ESTER \square DIETHYLENE GLYCOL MONOCHLOROACETATE \square KUSCIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:770 mg/kg GISAAA 58(9),26,1993

ihl-rat LC50:4100 mg/kg/4H GISAAA 58(9),26,1993

orl-mus LD50:235 mg/kg GISAAA 58(9),26,1993

ihl-mus LC50:2900 mg/kg/4H GISAAA 58(9),26,1993

orl-rbt LD50:375 mg/kg GISAAA 58(9),26,1993

SAFETY PROFILE: A poison by ingestion. Moderately toxic by inhalation. When heated to decomposition it emits toxic vapors of Cl^- .

HKJ000 CAS: 106-11-6 HR: 3

2-(2-HYDROXYETHOXY)ETHYL ESTER STEARIC ACID

mf: $C_{22}H_{44}O_4$ mw: 372.66

SYNS: AQUA CERA \square ATLAS G 2146 \square CERASYNT \square CLINDROL SDG \square DIETHYLENE GLYCOL, MONOESTER with STEARIC ACID \square DIETHYLENE GLYCOL MONOSTEARATE \square DIETHYLENE GLYCOL STEARATE \square DIGLYCOL MONOSTEARATE \square DIGLYCOL STEARATE \square EMCOL DS-50 CAD \square GLYCO STEARIN \square NONEX 411 \square PROMUL 5080 \square USAF KE-8

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

HKJ500 HR: 3

2-(2-HYDROXYETHOXY)ETHYL PERCHLORATE

mf: $C_4H_9ClO_6$ mw: 188.56

$HOC_2H_4OC_2H_4OCIO_3$

SAFETY PROFILE: Potentially explosive when heated. Upon decomposition it emits toxic fumes of Cl^- . See also PERCHLORATES.

HKK000 CAS: 30544-47-9 HR: 3
2-(2-HYDROXYETHOXY)ETHYL-N-(α,α,α -TRIFLUORO-m-TOLYL)ANTHRANILATE

mf: $\text{C}_{18}\text{H}_{18}\text{F}_3\text{NO}_4$ mw: 369.37

PROP: Oil. Bp: 130–135° @ 0.001 mm.

SYNS: B 577 □ BAYROGEL □ ETOFENAMATE □ 2-(2-HYDROXYAETHOXY)AETHYLESTER der FLUTENAMIN-SAEURE (GERMAN) □ RHEUMON □ RHEUMON GEL □ TV 485 □ TVX 485

TOXICITY DATA with REFERENCE:

orl-rat LD50:292 mg/kg ARZNAD 27,1333,77
 ipr-rat LD50:373 mg/kg ARZNAD 27,1333,77
 scu-rat LD50:568 mg/kg ARZNAD 27,1333,77
 ivn-rat LD50:139 mg/kg YACHDS 10,5225,82
 orl-mus LD50:743 mg/kg ARZNAD 27,1333,77
 scu-mus LD50:1897 mg/kg YACHDS 10,5225,82
 ivn-mus LD50:75 mg/kg YACHDS 10,5225,82
 scu-rbt LD50:1532 mg/kg YACHDS 10,5225,82

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. Moderately toxic by subcutaneous routes. Experimental teratogenic and reproductive effects. Used as an anti-inflammatory agent. When heated to decomposition it emits very toxic fumes of F^- and NO_x . See also FLUORIDES.

HKK100 CAS: 59820-43-8 HR: 2
2-((2-(2-HYDROXYETHOXY)-4-NITROPHENYL)AMINO)ETHANOL

mf: $\text{C}_{10}\text{H}_{14}\text{N}_2\text{O}_5$ mw: 242.26

SYNS: N_o -DI(2-HYDROXYETHYL)-2-AMINO-5-NITRO-PHENOL □ ETHANOL, 2-((2-(2-HYDROXYETHOXY)-4-NITROPHENYL)AMINO)- □ HC YELLOW 4 □ 2-(3-NITRO-6-(β -HYDROXYETHYLAMINO)PHENOXY)ETHANOL

TOXICITY DATA with REFERENCE:

mic-sat 100 $\mu\text{g}/\text{plate}$ NTPTR* NTP-TR-419,92
 sln-ipr-uns-dmg 10 pph NTPTR* NTP-TR-419,92

CONSENSUS REPORTS: NTP Carcinogenesis Studies (feed). no evidence; mouse NTPTR* NTP-TR-419,92. NTP Carcinogenesis Studies (feed). equivocal evidence; rat NTPTR* NTP-TR-419,92. IARC Cancer Review: Group 3 IMEMDT 57,159,93; Animal Inadequate Evidence IMEMDT 57,159,93; Human Inadequate Evidence IMEMDT 57,159,93.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data reported. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .

HKM000 CAS: 142-26-7 HR: 2
N- β -HYDROXYETHYLACETAMIDE

mf: $\text{C}_4\text{H}_9\text{NO}_2$ mw: 103.14

PROP: Brown viscous liquid. Fp: 15.8°, bp: 195–196°, flash p: 355°F (OC), d: 1.12 @ 20°/4°, autoign temp: 860°F.

SYNS: 2-ACETAMIDOETHANOL □ 2-ACETYLAMINO-ETHANOL □ ACETYLCOLAMINE □ N-ACETYL ETHANOL-AMINE □ N-ETHANOLACETAMIDE □ HYDROXY-ETHYL

ACETAMIDE □ β -HYDROXYETHYLACETAMIDE □ N-(2-HYDROXYETHYL)ACETAMIDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 4/21/67
 eye-rbt 500 mg SEV AJOPAA 29,1363,46
 orl-rat LD50:26,950 mg/kg JACTDZ 12(3),225,93

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin and severe eye irritant. Combustible when exposed to heat or flame; can react vigorously with oxidizers. To fight fire, use alcohol foam, CO_2 , dry chemical. When heated to decomposition it emits toxic fumes of NO_x .

HKM175 CAS: 38092-76-1 HR: 3
2-HYDROXYETHYLAMINIUM PERCHLORATE

mf: $\text{C}_2\text{H}_8\text{ClNO}_5$ mw: 161.54

SYN: ETHANOLAMINE PERCHLORATE

SAFETY PROFILE: A sensitive explosive even in aqueous solution. When heated to decomposition it emits toxic fumes of Cl^- and NO_x . See also PERCHLORATES.

HKM500 CAS: 93-62-9 HR: 3
2-HYDROXYETHYLAMINODIACETIC ACID

mf: $\text{C}_6\text{H}_{12}\text{NO}_5$ mw: 178.19

SYNS: ETHANOLAMINE-N,N-DIACETIC ACID □ (2-HYDROXYETHYL)IMINODIACETIC ACID □ USAF DO-37

TOXICITY DATA with REFERENCE:

ipr-mus LD50:100 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x .

HKN500 HR: 3
2-(β -HYDROXYETHYLAMINOMETHYL)-1,4-BENZODIOXANE HYDROCHLORIDE

mf: $\text{C}_{11}\text{H}_{15}\text{NO}_3 \cdot \text{ClH}$ mw: 245.73

SYN: 2-((1,4-BENZODIOXAN-2-YLMETHYL)AMINO)ETHANOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:355 mg/kg JAPMA8 44,302,55
 ivn-rat LD50:102 mg/kg JAPMA8 44,302,55
 ipr-mus LD50:385 mg/kg JAPMA8 44,302,55
 ivn-mus LD50:74 mg/kg JAPMA8 44,302,55

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl .

HKN875 CAS: 33229-34-4 HR: 2
2,2'-((4-((2-HYDROXYETHYL)AMINO)-3-NITROPHENYL)IMINO)DIETHANOL

mf: $\text{C}_{12}\text{H}_{19}\text{N}_3\text{O}_5$ mw: 285.34

SYNS: 2,2'-((4-((2-HYDROXYETHYL)AMINO)-3-NITRO-PHENYL)IMINO))BISETHANOL □ HC BLUE No. 2 □ NCI-C54897 □ 3-NITRO-N¹,N¹,N⁴-TRIS(2-HYDROXYETHYL)-p-PHENYLENEDIAMINE

TOXICITY DATA with REFERENCE:

mno-sat 3333 $\mu\text{g}/\text{plate}$ NTPTR* NTP-TR-293,85
 msc-mus:lym 150 mg/L NTPTR* NTP-TR-293,85
 orl-rat LD:>500 mg/kg NTPTR* NTP-TR-293,85

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 57,143,93; Human Inadequate Evidence IMEMDT 57,143,93; Animal Inadequate Evidence IMEMDT 57,143,93. NTP Carcinogenesis Studies (feed); No Evidence: mouse, rat NTPTR* NTP-TR-293,85.

SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

HKO000 CAS: 33389-36-5 HR: 2
4-(2-HYDROXYETHYLAMINO)-2-(5-NITRO-2-THIENYL)QUINAZOLINE

mf: C₁₄H₁₂N₄O₃S mw: 316.36

TOXICITY DATA with REFERENCE:

mma-sat 1250 µg/plate CNREA8 35,3611,75

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

HKQ000 CAS: 5395-01-7 HR: D
β-HYDROXYETHYLCARBAMATE

mf: C₃H₇NO₃ mw: 105.11

SYNS: CARBAMIC ACID-2-HYDROXYETHYL ESTER □ 2-HYDROXYETHYLCARBAMATE

TOXICITY DATA with REFERENCE:

msc-ham:lng 1 g/L CRNGDP 3,1437,82

SAFETY PROFILE: Experimental teratogenic effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

HKO012 CAS: 5902-85-2 HR: 2
N-(2-HYDROXYETHYL)AMMONIUM BENZO-THIAZOLE-2-THIOLATE

mf: C₇H₅NS₂•C₂H₇NO mw: 228.35

SYNS: 2(3H)-BENZOTHIAZOLETHIONE, COMPD. WITH 2-AMINOETHANOL (1:1) □ ETHANOL, 2-AMINO-, COMPD. WITH 2-BENZOTHIAZOLETHIOL □ ETHANOL, 2-AMINO-, COMPD. WITH 2-BENZOTHIAZOLETHIOL (1:1) □ 2-MERCAPTO-BENZOTHIAZOLE MONOETHANOLAMINE SALT □ MONOETHANOLAMMONIUM 2-MERCAPTOBENZOTHIAZOLE □ VANCIDE 20S

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL/24H SEV IJTOFN 16(Suppl 2),46,1997

orl-rat LD50:631 mg/kg IJTOFN 16(Suppl 2),46,1997

skn-rat LD50:>2 g/kg IJTOFN 16(Suppl 2),46,1997

SAFETY PROFILE: Moderately toxic by ingestion. A severe eye irritant. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

HKQ025 CAS: 589-41-3 HR: 2
N-HYDROXY ETHYL CARBAMATE

mf: C₃H₇NO₃ mw: 105.11

SYNS: ETHYL-N-HYDROXYCARBAMATE □ HYDROXYCARBAMIC ACID ETHYL ESTER □ N-HYDROXYURETHAN □ N-HYDROXYURETHANE □ NHU □ NSC-83629 □ NSC-71045 □ SQ 16819

TOXICITY DATA with REFERENCE:

mno-esc 10 mmol/L MUREAV 151,201,85

cyt-hmn:leu 333 µmol/L/48H CNREA8 25,980,65
 ipr-ham TDLo:1009 mg/kg (female 8D post):TER CNREA8 27,1696,67
 scu-mus TDLo:738 mg/kg (6-14D preg):REP NTIS** PB223-160

ipr-rat TDLo:500 mg/kg:NEO RRCRBU 52,29,75
 scu-rat TDLo:8 g/kg/8W-I:ETA JNCIAM 43,749,75
 unr-mus TDLo:1 mg/kg (21D preg):NEO,REP 40YJAX -,141,76
 ipr-rat LD50:800 mg/kg ADTEAS 3,181,68

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES and ESTERS.

HKQ100 CAS: 9004-62-0 HR: D
2-HYDROXYETHYL CELLULOSE

SYNS: AW 15 (POLYSACCHARIDE) □ BL 15 □ CELLOSIZ 4400H16 □ CELLOSIZ QP □ CELLOSIZ QP3 □ CELLOSIZ QP 1500 □ CELLOSIZ QP 4400 □ CELLOSIZ QP 30000 □ CELLOSIZ UT 40 □ CELLOSIZ WP □ CELLOSIZ WP 300 □ CELLOSIZ WP 4400 □ CELLOSIZ WP 300H □ CELLOSIZ WP 400H □ CELLOSIZ WPO 9H17 □ CELLULOSE HYDROXY-ETHYLATE □ CELLULOSE HYDROXYETHYL ETHER □ CELLULOSE, 2-HYDROXYETHYL ETHER □ FUJI HEC-BL 20 □ GLUTOFIX 600 □ HEC □ HEC-AL 5000 □ HERCULES N 100 □ HESPAN □ HETASTARCH □ HYDROXYETHYL CELLULOSE □ HYDROXYETHYL CELLULOSE ETHER □ 2-HYDROXYETHYL CELLULOSE ETHER □ HYDROXYETHYL ETHER CELLULOSE □ HYDROXYETHYL STARCH □ J 164 □ NATROSOL □ NATROSOL 250 □ NATROSOL 250G □ NATROSOL 250H □ NATROSOL 300H □ NATROSOL 250HHP □ NATROSOL 250HHR □ NATROSOL 250HR □ NATROSOL 250H4R □ NATROSOL 250HX □ NATROSOL 240JR □ NATROSOL 150L □ NATROSOL 180L □ NATROSOL 250L □ NATROSOL LR □ NATROSOL 250M □ NATROSOL 250MH □ OETs □ TYLOSE H 20 □ TYLOSE H 300 □ TYLOSE H SERIES □ TYLOSE MB □ TYLOSE MH □ TYLOSE MHB □ TYLOSE MHB-Y □ TYLOSE MHB-YP □ TYLOSE MH-K □ TYLOSE MH-XP □ TYLOSE P □ TYLOSE PS-X □ TYLOSE P-X □ TYLOSE P-Z SERIES

TOXICITY DATA with REFERENCE:

ivn-wmn LDLo:5100 mg/kg/6D-I:CNS,BAH NEJMAG 317,964,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Experimental reproductive effects. Human systemic effects: change in plasma or blood volume, intracranial pressure increase, somnolence. When heated to decomposition it emits acrid smoke and irritating vapors.

HKQ300 HR: 2
HYDROXYETHYL CNU METHANESULFONATE

mf: C₅H₁₀ClN₃O₃•CH₄O₃S mw: 291.74

SYNS: HECNU-MS □ HYDROXY CNU METHANESULPHONATE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to

decomposition it emits toxic fumes of Cl^- , SO_x , and NO_x .
See also SULFONATES.

HKQ500 CAS: 16179-44-5 HR: 3
2-HYDROXYETHYL CYCLOHEXANE-CARBOXYLATE

mf: $\text{C}_9\text{H}_{16}\text{O}_3$ mw: 172.25

SYNS: AI3-70087 □ CYCLOHEXANECARBOXYLIC ACID-(2-HYDROXYETHYL) ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 550 mg/15D MLD NTIS** AD-A022-908

eye-rbt 100 mg SEV NTIS** AD-A022-908

orl-rat LDLo:2874 mg/kg NTIS** AD-A022-908

ivn-rbt LDLo:75 mg/kg NTIS** AD-A022-908

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. A skin and severe eye irritant. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

HKQ600 CAS: 68479-77-6 HR: D
2-HYDROXYETHYL 2,3-DIBROMO-PROPANOATE

mf: $\text{C}_5\text{H}_8\text{Br}_2\text{O}_3$ mw: 275.95

SYNS: 2-HYDROXYETHYL-2,3-DIBROMOPROPIONATE □ PROPANOIC ACID, 2,3-DIBROMO-, 2-HYDROXYETHYL ESTER

TOXICITY DATA with REFERENCE:

mno-sat 5 µg/plate EPASR* 8EHQ-0381-0391

msc-mus:lym 200 µg/L EPASR* 8EHQ-0381-0391

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of Br^- .

HKQ700 CAS: 130525-77-8 HR: 2
2-HYDROXYETHYL DIBUTYL PHOSPHATE

mf: $\text{C}_{10}\text{H}_{23}\text{O}_5\text{P}$ mw: 254.30

SYNS: DIBUTYL 2-HYDROXYETHYL PHOSPHATE □ HEBP □ PHOSPHORIC ACID, DIBUTYL 2-HYDROXYETHYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/24H MLD NTIS** OTS0534650

eye-rbt 100 µL/24H MLD NTIS** OTS0534650

orl-rat LD50:915 mg/kg NTIS** OTS0534650

skn-rbt LD :>2 g/kg NTIS** OTS0534650

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A mild skin and eye irritant. When heated to decomposition it emits toxic vapors of PO_x .

HKR000 CAS: 1965-29-3 HR: 3
N-(HYDROXYETHYL)DIETHYLENETRIAMINE

mf: $\text{C}_6\text{H}_{17}\text{N}_3\text{O}$ mw: 147.26

PROP: A liquid. Bp: 153–155° @ 3.5 mm.

SYN: N-(2-HYDROXYETHYL)DIETHYLENETRIAMINE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 4,119,51

eye-rbt 20 mg open SEV AMIHBC 4,119,51

orl-rat LD50:4630 mg/kg AMIHAB 17,129,58

ipr-rat LD50:146 mg/kg AMIHAB 17,129,58

ipr-mus LD50:320 mg/kg AMIHAB 17,129,58

skn-rbt LD50:1041 mg/kg JIHTAB 31,60,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by skin contact. Mildly toxic by ingestion. A skin and severe eye irritant. When heated to decomposition it emits toxic fumes of NO_x . See also AMINES.

HKR500 CAS: 50-34-0 HR: 3
(2-HYDROXYETHYL)DIISOPROPYLMETHYL-AMMONIUMBROMIDE XANTHENE-9-CARBOXYLATE

mf: $\text{C}_{23}\text{H}_{30}\text{NO}_3\cdot\text{Br}$ mw: 448.45

PROP: Crystals from isopropanol + ether. Mp:

159–161°. Very sol in water, alc, chloroform; practically insol in ether, benzene.

SYNS: CORRIGAST □ β-DIISOPROPYLAMINOETHYL-9-XANTHENECARBOXYLATE METHOBROMIDE □ DIISOPROPYL(2-HYDROXYETHYL)METHYLAMMONIUMBROMIDE with XANTHENE-9-CARBOXYLATE □ ERCORAX □ ERCOTINA □ GIQUEL □ KETAMAN □ KIVATIN □ NCI-C56257 □ NEOMETANTYL □ NEOPEPULSAN □ PANTAS □ PANTHELINE □ PERVAGAL □ PRO-BANTHINE □ PRODIXAMON □ PRO-GASTRON □ PROPANTEL □ PROPANTHELINE BROMIDE □ SC-3171 □ XANTHENE-9-CARBOXYLIC ACID, ESTER with (2-HYDROXYETHYL)-DIISOPROPYLMETHYLAMMONIUMBROMIDE

TOXICITY DATA with REFERENCE:

otr-ham:emb 1 g/L ENMUDM 9(Suppl 6),4,86

orl-rat LD50:370 mg/kg AIPTAK 180,155,69

ipr-rat LD50:25 mg/kg CLDND* 1,391,59

idu-rat LD50:125 mg/kg AIPTAK 180,155,69

orl-mus LD50:445 mg/kg RPOBAR 2,319,70

ipr-mus LD50:78 mg/kg RPOBAR 2,319,70

ivn-mus LD50:6995 µg/kg AIPTAK 103,100,55

orl-rbt LD50:750 mg/kg GUHAZ 6,36,73

ivn-gpg LDLo:51 mg/kg CRSBAW 151,614,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, intraduodenal, and intravenous routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x , NH_3 , and Br^- . See also ESTERS.

HKR550 CAS: 63886-56-6 HR: 2
N-2-HYDROXYETHYL-3,4-DIMETHYLAZOLIDIN

mf: $\text{C}_8\text{H}_{17}\text{NO}$ mw: 143.26

SYNS: 3,4-DIMETHYLPYRROLIDINE ETHANOL □ PYRROLIDINEETHANOL, 3,4-DIMETHYL-

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open SEV AMIHBC 10,61,54

skn-rbt 5 mg/24H SEV 85JCAE -,820,86

eye-rbt 250 µg/24H SEV 85JCAE -,820,86

orl-rat LD50:1230 mg/kg AMIHBC 10,61,54

skn-rbt LD50:850 mg/kg AMIHBC 10,61,54

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A severe skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x .

HKR600 CAS: 94421-68-8 HR: D
N-(2-HYDROXYETHYL)-5,8,11,14-EICOSA-TETRAENAMIDE (ALL-Z)-

mf: $\text{C}_{22}\text{H}_{37}\text{NO}_2$ mw: 347.60

SYNS: ANANDAMIDE □ ANANDAMIDE (20.4, N-6) □ ARACHIDONOYL ETHANOLAMIDE □ N-ARACHIDONOYL-2-HYDROXYETHYLAMIDE □ ARACHIDONYLETHANOLAMIDE □ 5,8,11,14-EICOSATETRAENOYLETHANOLAMIDE □ 5,8,11,14-EICOSATETRAENAMIDE, N-(2-HYDROXYETHYL)-, (ALL-Z)- □ N-(2-HYDROXYETHYL)ANACHIDONAMIDE

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

HKS000 CAS: 150-39-0 HR: 3
N-HYDROXYETHYLENEDIAMINETRIACETIC ACID

mf: C₁₀H₁₈N₂O₇ mw: 278.30

PROP: Crystals. Mp: 160–165° (decomp).

SYNS: N-(CARBOXYMETHYL)-N'-(2-HYDROXYETHYL)-N,N'-ETHYLENEDIGLYCINE □ CHEM DM ACID □ HAMP-OL ACID □ HEDTA □ HEEDTA □ N-(β-HYDROXYETHYLETHYL-ENEDIAMINE)-N,N',N'-TRIACETIC ACID □ (N-HYDROXY-ETHYLETHYLENEDINITRIL)O)TRIACETIC ACID □ VERSENOL □ VERSENOL 120

TOXICITY DATA with REFERENCE:

ipr-rat LD50:337 mg/kg AHRTAN 13,295,62

ipr-mus LD50:259 mg/kg ARTODN 57,212,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes such as NO_x.

HKS100 CAS: 91-88-3 HR: 2
N-HYDROXYETHYL-N-ETHYL-m-TOLUIDINE

mf: C₁₁H₁₇NO mw: 179.29

SYNS: EMERY 5714 □ ETHANOL, 2-(N-ETHYL-m-TOLUIDINO)- □ N-ETHYL-N-(2-HYDROXYETHYL)-m-TOLUIDINE □ 2-(N-ETHYL-m-TOLUIDINO)ETHANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1370 mg/kg LONZA# 02JUN80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HKS300 CAS: 63834-30-0 HR: 2
2-HYDROXY-3-ETHYLHEPTANOIC ACID

mf: C₉H₁₈O₃ mw: 174.27

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open AIHAAP 23,95,62

orl-rat LD50:3400 mg/kg AIHAAP 23,95,62

skn-rbt LD50:1780 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and fumes.

HKS400 HR: 2
N-HYDROXYETHYL-N-2-HYDROXYALKYL-AMINE

mf: C₁₆H₃₅NO₂•C₁₄H₃₁NO₂ mw: 518.98

SYNS: DUSPAR 125B □ 2-TETRADECANOL, 1-(2-HYDROXY-ETHYLAMINO)-, and 1-(2-HYDROXYETHYL)-2-DODECANOL (1:1)

TOXICITY DATA with REFERENCE:

orl-mus LD50:2130 mg/kg KSRNAM 9,2903,75

SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

HKS500 CAS: 62018-89-7 HR: D
N-(2-HYDROXYETHYL)-N-(4-HYDROXYBUTYL)NITROSAMINE

mf: C₆H₁₄N₂O₃ mw: 162.22

SYN: 4-((2-HYDROXYETHYL)NITROSOAMINO)BUTANOL

TOXICITY DATA with REFERENCE:

mma-sat 12 μmol/plate CNREA8 37,399,77

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

HKS550 CAS: 7506-80-1 HR: 1
2-HYDROXYETHYL (2-HYDROXYETHYL)-CARBAMATE

mf: C₅H₁₁NO₄ mw: 149.17

SYNS: CARBAMIC ACID, (2-HYDROXYETHYL)-, 2-HYDROXYETHYL ESTER □ THANOL C 150

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD JACTDZ 1,195,92

eye-rbt 100 mg MOD JACTDZ 1,195,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin and eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

HKS600 CAS: 55636-92-5 HR: 3
2-(1-HYDROXYETHYL)-7-(2-HYDROXY-3-ISO-PROPYLAMINOPROPOXY)BENZOFURAN

mf: C₁₆H₂₃NO₄ mw: 293.40

SYN: 7-(2-HYDROXY-3-(ISOPROPYLAMINO)PROPOXY)-α-METHYL-2-BENZOFURANMETHANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:2130 mg/kg KSRNAM 13,4138,79

ipr-rat LD50:185 mg/kg KSRNAM 13,4138,79

scu-rat LD50:540 mg/kg KSRNAM 13,4138,79

orl-mus LD50:1275 mg/kg KSRNAM 13,4138,79

ipr-mus LD50:179 mg/kg KSRNAM 13,4138,79

scu-mus LD50:640 mg/kg KSRNAM 13,4138,79

ivn-mus LD50:68,500 μg/kg KSRNAM 13,4138,79

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x.

HKS775 CAS: 3279-95-6 HR: 3
o-(2-HYDROXYETHYL)HYDROXYLAMINE

mf: C₂H₇NO₂ mw: 77.08

PROP: A liquid. Bp: 61–62° @ 1 mm.

SAFETY PROFILE: Reacts explosively with concentrated sulfuric acid at 120°C. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

HKS780 CAS: 2809-21-4 HR: 3

1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACIDmf: C₂H₈O₇P₂ mw: 206.03**PROP:** Syrup or crystals from AcOH aq. Mp: 105°. Sol in H₂O, EtOH, and MeOH.**SYNS:** DEQUEST 2010 □ DEQUEST 2015 □ DEQUEST Z 010 □ EHDP □ ETHANE-1-HYDROXY-1,1-DIPHOSPHONATE □ 1,1,1-ETHANETRIOLDIPHOSPHONATE □ ETIDRONIC ACID □ FERROFOS 510 □ HEDP □ 1-HYDROXY-1,1-DIPHOSPHONO-ETHANE □ HYDROXYETHANEDIPHOSPHONIC ACID □ 1-HYDROXYETHANEDIPHOSPHONIC ACID □ OXYETHYLIDENEDIPHOSPHONIC ACID □ PHOSPHONIC ACID, 1-HYDROXY-1,1-ETHANEDIYL ESTER □ PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)BIS- □ 1000SL □ TURPINAL SL**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1800 mg/kg ACIEAY 14,94,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated above 200° it decomposes violently to produce toxic fumes of phosphine, phosphoric acid, and PO_x.**HKS800 CAS: 63906-36-5 HR: 3 2-HYDROXYETHYL IODOACETATE**mf: C₄H₇IO₃ mw: 230.01**SYNS:** ACETIC ACID, IODO-, MONOESTER with ETHYLENE GLYCOL □ ACETIC ACID, IODO-, 2-HYDROXYETHYL ESTER**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:33 mg/kg JNCIAM 31,297,1963

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of I⁻.**HKS900 CAS: 303-75-3 HR: 3 2-HYDROXY-2-ETHYL-3-ISOBUTYL-9,10-DIMETHOXY-1,2,3,4,6,7-HEXAHYDRO-BENZO(A)CHINOLIZIN**mf: C₂₁H₃₃NO₃ mw: 347.55**SYNS:** 2H-BENZO(A)QUINOLIZIN-2-OL, 2-ETHYL-1,3,4,6,7,11B-HEXAHYDRO-3-ISOBUTYL-9,10-DIMETHOXY- □ HYDRO-CHLORIDE, RO 4-1284 □ 2H-BENZO(A)QUINOLIZIN-2-OL, 2-ETHYL-1,3,4,6,7,11B-HEXAHYDRO-9,10-DIMETHOXY-3-(2-METHYLPROPYL)- □ RO 4-1284 □ RO 4-12884**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:350 mg/kg 27ZQAG-294,1972

ipr-rat TDLo:0.5 mg/kg JPETAB 293,336,2000

ipr-mus TDLo:0.5 mg/kg JPETAB 293,336,2000

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.**HKT200 CAS: 51821-32-0 HR: 3 2-HYDROXYETHYLMERCURY(II) NITRATE**mf: C₂H₅HgNO₄ mw: 307.66**PROP:** IDLH 10 mg/m³ (as Hg).**CONSENSUS REPORTS:** Mercury and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Decomposes with a weak explosion when heated. Upon decomposition it emits toxic fumes of NO_x and Hg. See also MERCURY COMPOUNDS and NITRATES.**HKU000 CAS: 13345-58-9 HR: 2 7-(2-HYDROXYETHYL)-12-METHYLBENZ(a)-ANTHRACENE**mf: C₂₁H₁₈O mw: 286.39**SYN:** 12-METHYL BENZ(A)ANTHRACENE-7-ETHANOL**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.**HKU500 CAS: 1331-41-5 HR: 2 N-HYDROXYETHYL-α-METHYLBENZYLAMINE**mf: C₁₀H₁₅NO mw: 165.26**SYN:** ((α-METHYLBENZYL)AMINO)ETHANOL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2830 mg/kg AMIHBC 4,119,51

skn-rbt LD50:1540 mg/kg AMIHBC 4,119,51

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic fumes such as NO_x.**HKU600 CAS: 197004-63-0 HR: 3 N-(2-HYDROXYETHYL)-N-METHYL-2-NITRO-1H-IMIDAZOLE-1-ACETAMIDE****PROP:** 2-Nitroimidazole hypoxic cell radiosensitizermf: C₈H₁₂N₄O₄ mw: 228.21**SYN:** TX-1877**TOXICITY DATA with REFERENCE:**

ipr-mus TDLo:50 mg/kg BIPBU* 25,591,2002

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.**HKV000 CAS: 21600-45-3 HR: 3 3-(2-HYDROXYETHYL)-3-METHYL-1-PHENYL-TRIAZENE**mf: C₉H₁₃N₃O mw: 179.25**SYNS:** 1-PHENYL-3-METHYL-3-(2-HYDROXYAETHYL)-TRIAZEN (GERMAN) □ 1-PHENYL-3-METHYL-3-(2-HYDROXY-ETHYL)TRIAZENE**TOXICITY DATA with REFERENCE:**

scu-rat TDLo:1200 mg/kg/54W-I:CAR ZKKOBW 81,285,74

scu-rat LD50:360 mg/kg ZKKOBW 81,285,74

SAFETY PROFILE: A poison by subcutaneous route. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.**HKV100 CAS: 23696-28-8 HR: 2 N-(2-HYDROXYETHYL)-3-METHYL-2-QUINOX-ALINECARBOXAMIDE 1,4-DIOXIDE**mf: C₁₂H₁₃N₃O₄ mw: 263.28**SYNS:** BAYONOX □ 2-(N-(2-HYDROXYETHYL)KARBAMOYL)-3-METHYLCHINOXALIN-1,4-DIOXID □ OLACHINDOX □ OLAQUINDOX □ 2-QUINOXALINECARBOXAMIDE, N-(2-HYDROXYETHYL)-3-METHYL-, 1,4-DIOXIDE**TOXICITY DATA with REFERENCE:**

mic-bac-sat 10 µg/plate MUREAV 90,49,81

dnr-bcs 10 µg/disc MUREAV 90,49,81

orl-rat LD50:1717 mg/kg CKFRAY 30,26,81

orl-mus LD50:3316 mg/kg CKFRAY 30,26,81

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HKW300 CAS: 41155-82-2 HR: 2
N-(β-HYDROXYETHYL)MORPHOLINE
HYDROCHLORIDE

mf: C₆H₁₃NO₂•ClH mw: 167.66
SYN: 4-MORPHOLINEETHANOL, HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:3957 mg/kg JPETAB 94,249,48

scu-mus LD50:3000 mg/kg AIPTAK 112,36,57

ivn-mus LD50:1420 mg/kg AIPTAK 112,36,57

SAFETY PROFILE: Moderately toxic by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

HKW345 CAS: 40343-32-6 HR: 2
N-(2-HYDROXYETHYL)-3-NITROBENZYL-
IDENIMINE N-OXIDE

mf: C₉H₁₀N₂O₄ mw: 210.21

SYN: 2-((m-NITROBENZYLIDENE)AMINO)ETHANOL N-OXIDE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HKW350 CAS: 40343-30-4 HR: 2
N-(2-HYDROXYETHYL)-4-
NITROBENZYLIDENIMINE N-OXIDE

mf: C₉H₁₀N₂O₄ mw: 210.21

SYN: 2-((p-NITROBENZYLIDENE)AMINO)ETHANOL N-OXIDE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HKW450 CAS: 19561-70-7 HR: 3
N-(2-HYDROXYETHYL)-α-(5-NITRO-2-
FURYL)NITRONE

mf: C₇H₈N₂O₅ mw: 200.17

PROP: Crystals from EtOH. Mp: 151–152°.

SYNS: ETHANOL, 2-(((5-NITRO-2-FURANYL)METHYLENE)-AMINO)-, N-OXIDE (9CI) □ ETHANOL, 2-((5-NITROFURFURYLIDENE)AMINO)-, N-OXIDE □ NIFURATRONE □ 2-(5-NITRO-2-FURFURYLIDENE)AMINOETHANOL N-OXIDE

TOXICITY DATA with REFERENCE:

mmo-sat 100 ng/plate MUREAV 40,9,76

dnr-sat 500 nmol/well CNREA8 34,2266,74

mmo-esc 10 µg/plate MUREAV 26,3,74

dnr-esc 500 nmol/well CNREA8 34,2266,74

orl-mus LD50:518 mg/kg JMCMAR 20,557,77

scu-mus LD50:417 mg/kg JMCMAR 20,557,77

SAFETY PROFILE: A poison by subcutaneous route. Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HKW455 CAS: 22668-01-5 HR: 2
N-(2-HYDROXYETHYL)-2-NITRO-1H-IMIDAZO-
LE-1-ACETAMIDE

mf: C₇H₁₀N₄O₄ mw: 214.21

SYNS: N-(2-HYDROXYETHYL)-1-(2-NITRO-1-IMIDAZOLYL)-ACETAMIDE □ IMIDAZOLE-1-ACETAMIDE, N-(2-HYDROXYETHYL)-2-NITRO- □ 1H-IMIDAZOLE-1-ACETAMIDE, N-(2-HYDROXYETHYL)-2-NITRO-(9CI) □ NSC 301467 □ SR 2508

TOXICITY DATA with REFERENCE:

mor-mus-emb 1 mmol/L/3D-C 45OJAG -,146,80

ivn-rat LD50:3716 mg/kg TOXID9 3,153,83

ipr-mus LD50:3300 mg/kg RAREAE 91,186,82

ivn-mus LD50:4100 mg/kg JJCREP 80,113,89

SAFETY PROFILE: Moderately toxic by intravenous and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HKW460 CAS: 123794-12-7 HR: D
3-((1-(2-HYDROXYETHYL)-5-NITRO-1H-
IMIDAZOL-2-YL)METHYLENE)-1-METHYL-2-
PYRROLIDINONE

mf: C₁₁H₁₄N₄O₄ mw: 266.29

SYN: 2-PYRROLIDINONE, 3-((1-(2-HYDROXYETHYL)-5-NITRO-1H-IMIDAZOL-2-YL)METHYLENE)-1-METHYL-

TOXICITY DATA with REFERENCE:

mic-bac-sat 10 pmol/plate EMMUEG 19,167,92

uns-bac-esc 10 pmol/tube EMMUEG 19,167,92

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HKW475 HR: 2
1-(2-HYDROXYETHYL)NITROSAMINO)-2-
PROPANOL

mf: C₅H₁₂N₂O₄ mw: 164.19

SYNS: NIEA □ N-NITROSOETHANOLISOPROPANOLAMINE

□ N-NITROSO-(2-HYDROXYPROPYL)-(2-HYDROXYETHYL)-AMINE □ NITROSOISOPROPANOL-ETHANOLAMINE

TOXICITY DATA with REFERENCE:

mma-sat 500 µg/plate MUREAV 111,135,83

orl-rat TDLo:5 g/kg/50W-C:CAR CRNGDP 5,167,84

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HKW500 CAS: 13743-07-2 HR: 3
1-(2-HYDROXYETHYL)-1-NITROSOUREA

mf: C₃H₇N₃O₃ mw: 133.13

SYNS: HENU □ HNU □ N-NITROSOHYDROXYETHYLUREA

□ NITROSO-2-HYDROXYETHYLUREA □ 1-NITROSO-1-(2-HYDROXYETHYL)UREA

TOXICITY DATA with REFERENCE:

mmo-sat 41 µmol/L/48H MUREAV 48,131,77

mma-sat 2500 ng/plate TCMUE9 1,13,84

spm-mus-ipr 455 mg/kg MUREAV 108,337,83

ipr-rat LD50:120 mg/kg JNCIAM 56,445,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. A poison by intraperitoneal route. Experimental reproductive effects. Mutation data reported. When heated to

decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

HKX600 CAS: 7416-48-0 HR: 3
1-HYDROXYETHYL PEROXYACETATE

mf: C₄H₈O₄ mw: 120.10
 CH₃CH(OH)OOO•CH₃

PROP: A low melting point solid.

SYN: 1-HYDROXYETHYL PERACETATE

SAFETY PROFILE: An explosive solid produced by the autooxidation of acetaldehyde. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES and ACETALDEHYDE.

HKY000 CAS: 58989-02-9 HR: 2
N-HYDROXY-N-ETHYL-p-(PHENYLAZO)

ANILINE

mf: C₁₄H₁₃N₃O mw: 241.32

SYNS: N-ETHYL-N-(p-(PHENYLAZO)PHENYL)HYDROXYLAMINE □ N-HYDROXY-EAB □ N-HYDROXY-N-ETHYL-4-AMINOAZOBENZENE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HKY500 CAS: 103-76-4 HR: 3
1-(2-HYDROXYETHYL)PIPERAZINE

mf: C₆H₁₄N₂O mw: 130.22

PROP: Light colored liquid. D: 1.10610, bp: 240°, flash p: 255°F (OC), vap d: 4.5.

SYNS: N-(β-HYDROXYETHYL)PIPERAZINE □ 1-PIPERAZINEETHANOL □ 2-(1-PIPERAZINYL)ETHANOL □ USAF DO-22

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 1/6/70
 eye-rbt 20 mg/24H MOD 85JCAE -,865,86
 orl-rat LD50:4920 mg/kg AIHAAP 23,95,62
 ipr-mus LD50:100 mg/kg NTIS** AD277-689
 orl-rbt LD50:3350 mg/kg GISAAA 45(5),67,80
 orl-gpg LD50:3720 mg/kg GISAAA 45(5),67,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. A skin and eye irritant. Combustible when exposed to heat or flame; can react vigorously with oxidizers. To fight fire, use foam, alcohol foam. When heated to decomposition it emits toxic fumes of NO_x.

HKY600 CAS: 3040-44-6 HR: 3
N-(HYDROXYETHYL)PIPERIDINE

mf: C₇H₁₅NO mw: 129.23

SYNS: N-(β-HYDROXYETHYL)PIPERIDINE □ N-(2-HYDROXYETHYL)PIPERIDINE □ 1-(2-HYDROXYETHYL)PIPERIDINE □ 1-PIPERIDINEETHANOL □ N-PIPERIDINEETHANOL □ 2-PIPERIDINEETHANOL □ β-PIPERIDINOETHANOL □ 2-(1-PIPERIDINYL)ETHANOL □ β-PIPERIDYLETHANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1498 mg/kg ARZNAD 25,1916,75
 ivn-rat LD50:166 mg/kg ARZNAD 25,1916,75
 orl-cat LDLo:250 mg/kg JPETAB 55,419,35

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion and intravenous routes. When heated to decomposition it emits toxic vapors of NO_x.

HKY650 CAS: 69521-64-8 HR: 3
(2-HYDROXYETHYL)-2-PROPENITRILE

mf: C₅H₇NO mw: 97.13

SYNS: 2-ACRYLONITRILE, 1-HYDROXYETHYL- □ 2-(1-HYDROXYETHYL)ACRYLONITRILE □ 2-PROPENITRILE, (2-HYDROXYETHYL)-

TOXICITY DATA with REFERENCE:

eye-rbt 5 µL/24H SEV NTIS** OTS-535263
 orl-rat LD50:467 µL/kg NTIS** OTS0535263
 skn-rbt LD50:504 µL/kg NTIS** OTS0535263

SAFETY PROFILE: A poison by ingestion and skin contact. A severe eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

HKY700 CAS: 65954-42-9 HR: D
1-(1-HYDROXYETHYL)PYRENE

mf: C₁₈H₁₄O mw: 246.32

SYNS: α-METHYL-1-PYRENEMETHANOL □ 1-PYRENE-METHANOL, α-METHYL- □ 1-(1-PYRENYL)ETHANOL

TOXICITY DATA with REFERENCE:

mic-bac-sat 50 µmol/L CRNGDP 15,2605,94

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HLB350 HR: 3
4-(1-HYDROXYETHYL)PYRIDINE-N-OXIDE

mf: C₇H₉NO₂ mw: 139.15

CH₃CH(OH)C₅H₄N:O

SAFETY PROFILE: Can explode during vacuum distillation. When heated to decomposition it emits toxic fumes of NO_x.

HLB380 CAS: 3445-11-2 HR: 1
1-(2-HYDROXYETHYL)-2-PYRROLIDINONE

mf: C₆H₁₁NO₂ mw: 129.18

SYNS: 2-PYRROLIDINONE, 1-(2-HYDROXYETHYL)- □ N-(2-HYDROXYETHYL)-2-PYRROLIDONE

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MLD EPASR* 8EHQ-0682-0448S
 orl-rat LD50:14,430 mg/kg EPASR* 8EHQ-0682-0448S

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. An eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

HLB400 CAS: 9005-27-0 HR: 1
HYDROXYETHYL STARCH

SYNS: ESSEX 1360 □ ESSEX GUM 1360 □ ETHYLEX GUM 2020 □ HAS (GERMAN) □ HES □ HESPANDER □ HESPANDER INJECTION □ HYDROXYATHYLSTARKE (GERMAN) □ o-(HYDROXYETHYL)STARCH □ 2-HYDROXYETHYL STARCH □ o-(2-HYDROXYETHYL)STARCH □ 2-HYDROXYETHYL STARCH ETHER □ PENFORD 260 □ PENFORD 280 □ PENFORD 290 □

PENFORD P 208 □ PLASMASTERIL □ STARCH HYDROXY-ETHYL ETHER □ TAPIOCA STARCH HYDROXY-ETHYL ETHER

TOXICITY DATA with REFERENCE:

ivn-rat LD50:11,800 mg/kg OYYAA2 6,1023,72
ivn-mus LD50:20,300 mg/kg OYYAA2 6,1023,72
ivn-rbt LD50:24,100 mg/kg OYYAA2 6,1023,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by intravenous route. Experimental teratogenic and reproductive effects. When heated to decomposition it emits acrid smoke and fumes.

HLB500 CAS: 27375-52-6 HR: 1 4'-(2-HYDROXYETHYLSULFONYL)ACETANILIDE

mf: C₁₀H₁₃NO₄S mw: 243.30

SYNS: p-ACETAMINOFENYL-β-HYDROXYETHYLSULFON □ p-ACETAMINOFENYL-2-HYDROXYETHYLSULFON □ ACETANILIDE, 4'-(2-HYDROXYETHYLSULFONYL)-

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 85JCAE -,1049,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An eye irritant. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

HLC000 CAS: 519-37-9 HR: 3 HYDROXYETHYLTHEOPHYLLINE

mf: C₉H₁₂N₄O₃ mw: 224.25

PROP: Bitter-tasting crystals. Mp: 158°.

SYNS: AETHOPHYLLINUM □ ASCORPHYLLINE □ BIO-PHYLLINE □ CORDALIN □ COROPHYLLIN-N □ 3,7-DIHYDRO-7-(2-HYDROXYETHYL)-1,3-DIMETHYL-1H-PURINE-2,6-DIONE (9CI) □ DILAPHYLLIN □ 1,3-DIMETHYL-7-(2-HYDROXYETHYL)XANTHINE □ ETOFYLLINE □ FREKAPHYLLIN □ 7-(HYDROXYETHYL)THEOPHYLLINE □ 7-(β-HYDROXYETHYL)THEOPHYLLINE □ 7-(2-HYDROXYETHYL)-THEOPHYLLINE □ 7-(2'-HYDROXYETHYL)THEOPHYLLINE □ OT □ OXYAETHYLTHEOPHYLLIN (GERMAN) □ OXYETHYLTHEOPHYLLINE □ OXYPHYLLINE □ OXYPHYLLIN (AMIDO) □ OXYTHEONYL □ PHYLLCORMIN N □ SOLUPHYLLINE □ 7-THEOPHYLLINEETHANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:710 mg/kg ARZNAD 30,2023,80
scu-rat LD50:176 mg/kg AEPPAE 230,194,57
ivn-rat LD50:486 mg/kg AEPPAE 230,194,57
orl-mus LD50:400 mg/kg ARZNAD 27,1173,77
ipr-mus LD50:400 mg/kg ARZNAD 8,190,58
scu-mus LD50:400 mg/kg ARZNAD 4,649,54
ivn-mus LD50:344 mg/kg AEPPAE 230,194,57

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also THEOPHYLLINE.

HLC500 CAS: 71-27-2 HR: 3 (2-HYDROXYETHYL)TRIMETHYLAMMONIUM CHLORIDE SUCCINATE

mf: C₁₄H₃₀N₂O₄•2Cl mw: 361.36

PROP: Crystals from 2H₂O. Mp: 156–163°.

SYNS: ANECTINE □ ANECTINE CHLORIDE □ BIS(2-DIMETHYLAMINOETHYL)SUCCINATE BIS(METHOCHLORIDE) □ BIS(SUCCINYLDICHLOROCHOLINE) □ CHLORSUCCINYLCOLIN (GERMAN) □ CHLORURE de SUCCINILCOLINE (FRENCH) □ CHOLINE SUCCINATE DICHLORIDE □ CLORURO di SUCCINILCOLINA (ITALIAN) □ DIACETYLCHOLINE CHLORIDE □ DIACETYLCHOLINE DICHLORIDE □ 2-DIMETHYLAMINOETHYL SUCCINATE DIMETHOCHLORIDE □ DITILIN □ DITILINE □ 2,2'-(1,4-DIOXO-1,4-BUTANEDIYL)BIS(OXY)BIS(N,N,N-TRIMETHYLETHANAMINIUM) DICHLORIDE □ LISTENON □ LYSTENON □ LYSTHENONE □ MIDARINE □ MYOPLEGINE □ PANTOLAX □ QUELICIN □ QUELICIN CHLORIDE □ SCHLORIDE □ SCOLINE □ SCOLINE CHLORIDE □ SKOLIN □ SUCCICURAN □ SUCCINIC ACID BIS(β-DIMETHYLAMINOETHYL) ESTER, DIHYDROCHLORIDE □ SUCCINIC ACID BIS(β-DIMETHYLAMINOETHYL)ESTER DIMETHOCHLORIDE □ SUCCINIC ACID DIESTER with CHOLINE CHLORIDE □ SUCCINOYLCHOLINE CHLORIDE □ SUCCINYL-ASTA □ SUCCINYL BISCHOLINE CHLORIDE □ SUCCINYLBISCHOLINE DICHLORIDE □ SUCCINYLCOLINE CHLORIDE □ SUCCINYLCOLINE DICHLORIDE □ SUCCINYLCOLINE HYDROCHLORIDE □ SUCCINYLDICHO-LINE CHLORIDE □ SUCCINYLFORTE □ SUCOSTRIN □ SUCOSTRIN CHLORIDE □ SURAMETHINIUM □ SUXAMETH-ONIUM CHLORIDE □ SUXAMETHONIUM CHLORIDE □ SUXAMETHONIUM DICHLORIDE □ SUXCERT □ SUXETHONIUM CHLORIDE □ SUXINYL □ ULTRAPAL CHLORIDE

TOXICITY DATA with REFERENCE:

sce-hmn:leu 300 µg/culture MSCREJ 20,759,92
sce-mus-par2500 µg/kg MSCREJ 20,759,92
ivn-man TDLo:7 mg/kg;CVS,MET AROTA 96,464,72
ipr-mus LD50:1250 µg/kg NIIRDN 6,135,82
ivn-mus LD50:430 µg/kg JPETAB 109,83,53
ivn-rbt LD50:240 µg/kg IJNEAQ 5,305,66
ivn-ckn LD50:300 µg/kg APTAK 122,152,59

SAFETY PROFILE: A deadly poison by intravenous and intraperitoneal routes. Human systemic effects by intravenous route: metabolic changes in potassium level, cardiac arrhythmias. Mutation data reported. Used as a skeletal muscle relaxant. When heated to decomposition it emits very toxic fumes of NO_x, NH₃, and Cl⁻.

HLC550 CAS: 39895-81-3 HR: 1 (2-HYDROXYETHYL)TRIMETHYLARSONIUM

mf: C₅H₁₄AsO mw: 165.11

SYNS: ARSENOCHOLINE □ ARSONIUM, (2-HYDROXYETHYL)TRIMETHYL-

TOXICITY DATA with REFERENCE:

cyt-hmn-fbr 30 mmol/L MUREAV 357,123,196
orl-mus LD50:6500 mg/kg JAFCAU 45,449,1997

SAFETY PROFILE: Low toxicity by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of As.

HLC600 CAS: 577-85-5 HR: 3 3-HYDROXYFLAVONE

mf: C₁₅H₁₀O₃ mw: 238.25

SYN: FLAVONE, 3-HYDROXY-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#02588

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

HLE000 CAS: 1147-55-3 HR: D
5-HYDROXY-N-2-FLUORENYLACETAMINE

mf: $C_{15}H_{13}NO_2$ mw: 239.29

TOXICITY DATA with REFERENCE:

mma-sat 250 $\mu\text{g}/\text{plate}$ JJIND8 62,839,79

dnr-esc 10 mg/L JJIND8 62,839,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x .

HLE450 CAS: 14461-87-1 HR: 2
**N-(7-HYDROXYFLUOREN-2-YL)ACETO-
 HYDROXAMIC ACID**

mf: $C_{15}H_{13}NO_3$ mw: 255.29

SYN: N-HYDROXY-N-(7-HYDROXY-2-FLUORENYL)-ACETAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x .

HLE500 CAS: 26630-60-4 HR: 2
**N-HYDROXY-2-FLUORENYLBENZENE-
 SULFONAMIDE**

mf: $C_{19}H_{15}NO_3S$ mw: 337.41

SYN: N-HYDROXY-N-FLUORENYLBENZENESULFONAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of NO_x and SO_x .

HLE650 CAS: 78281-06-8 HR: 2
N-HYDROXY-4-FORMYLAMINOBI-PHENYL

mf: $C_{13}H_{11}NO_2$ mw: 213.25

SYNS: N-(4-BIPHENYLYL)FORMOHYDROXAMIC ACID □ FORMAMIDE, N-(1,1'-BIPHENYL)-4-YL-N-HYDROXY- □ N-HYDROXY-FABP

TOXICITY DATA with REFERENCE:

mma-sat 25 nmol/plate CBINA8 67,215,88

dns-rat:mmr 100 $\mu\text{mol}/\text{L}$ CNREA8 48,422,88

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .

HLE680 CAS: 213908-53-3 HR: 3
13-HYDROXYGERMACRONE

mf: $C_{15}H_{22}O_2$ mw: 234.34

SYN: 3,7-CYCLODECADIEN-1-ONE, 3,7-DIMETHYL-10-(2-HYDROXY-1-METHYLETHYLIDENE)-, (3E,7E,10E)-

TOXICITY DATA with REFERENCE:

orl-mus TDLo:25 mg/kg BIPBU* 25,627,2002

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HLE750 CAS: 89947-76-2 HR: 2

**N-HYDROXY-N-GLUCURONOSYL-2-
 AMINOFLUORENE**

mf: $C_{19}H_{19}NO_7$ mw: 373.39

SYNS: β -D-GLUCOPYRANURONIC ACID, 1-DEOXY-1-(9H-FLUOREN-2-YLHYDROXYAMINO)- □ GLUCURONIC ACID, 1-DEOXY-1-(2-FLUORENYLHYDROXYAMINO)- □ N-GLUCURONIDE of N-HYDROXY-2-AMINOFLUORENE □ N-HYDROXY-2-AMINOFLUORENE N-GLUCURONIDE

TOXICITY DATA with REFERENCE:

dns-hmn:oth 100 nmol/L JJIND8 72,847,84

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .

HLE800 CAS: 141812-70-6 HR: D
6-HYDROXY-trans,trans-2,4-HEXADIENAL

mf: $C_6H_8O_2$ mw: 112.14

SYNS: 2,4-HEXADIENAL, 6-HYDROXY-, (E,E)- □ 6-HYDROXY-2,4-HEXADIENAL (E,E)-

TOXICITY DATA with REFERENCE:

msc-ham-lng 32 $\mu\text{mol}/\text{L}$ EMMUEG 24,112,94

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HLF000 CAS: 3393-34-8 HR: 2
4-HYDROXYHEX-4-ENOIC ACID LACTONE

mf: $C_6H_8O_2$ mw: 112.14

SYN: 5-ETHYLIDENEDIHYDRO-2(3H)-FURANONE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.

HLF500 CAS: 56395-66-5 HR: 3
**7-(5-HYDROXYHEXYL)-3-METHYL-1-
 PROPYLXANTHINE**

mf: $C_{15}H_{24}N_4O_3$ mw: 308.43

SYNS: A7301153 □ HWA 153

TOXICITY DATA with REFERENCE:

orl-rat LD50:120 mg/kg ARZNAD 29,1013,79

ipr-rat LD50:241 mg/kg ARZNAD 29,1013,79

ivn-rat LD50:94 mg/kg ARZNAD 29,1013,79

ims-rat LD50:292 mg/kg ARZNAD 29,1013,79

orl-mus LD50:1345 mg/kg ARZNAD 29,1013,79

ipr-mus LD50:260 mg/kg ARZNAD 29,1013,79

scu-mus LD50:378 mg/kg ARZNAD 29,1013,79

orl-gpg LD50:695 mg/kg ARZNAD 29,1013,79

ivn-gpg LD50:203 mg/kg ARZNAD 29,1013,79

SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, intramuscular, and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x .

HLF550 CAS: 5803-62-3 HR: D
**2-(1-HYDROXYHEXYL)-1,3,6,8-
 TETRAHYDROXYANTHRAQUINONE**

mf: $C_{20}H_{20}O_7$ mw: 372.40

SYNS: 9,10-ANTHRACENEDIONE, 1,3,6,8-TETRAHYDROXY-2-(1-HYDROXYHEXYL)-, (-) □ AVERANTIN □ ANTHRAQUINONE, 2-(1-HYDROXYHEXYL)-1,3,6,8-TETRAHYDROXY- □ (-)-AVERANTIN □ ANTHRAQUINONE, 1,3,6,8-TETRA-

HYDROXY-2-(1-HYDROXYHEXYL)- □ 1,3,6,8-TETRAHYDROXY-2-(1-HYDROXYHEXYL)ANTHRAQUINONE

TOXICITY DATA with REFERENCE:

mic-sat 10 µLg/plate ENMUDM 4,19,1982

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

**HLF600 CAS: 613-03-6 HR: 2
HYDROXYHYDROQUINONE TRIACETATE**

mf: C₁₂H₁₂O₆ mw: 252.24

SYNS: 1,2,4-BENZENETRIOL, TRIACETATE □ 2-HYDROXYHYDROQUINONE TRIACETATE □ TRIACETATE d'HYDROXYHYDROQUINONE □ 1,2,4-TRIACETOXYBENZENE

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:500 mg/kg RBPMAS 22,1,52

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

**HLH000 CAS: 70145-54-9 HR: 2
5-HYDROXY-2-(HYDROXYMETHYL)-4H-PYRAN-4-ONE SODIUM SALT**

mf: C₆H₅O₄•Na mw: 164.10

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:1000 mg/kg SCIEAS 80,34,34

ivn-dog LDLo:1000 mg/kg SCIEAS 80,34,34

ivn-rbt LDLo:1000 mg/kg SCIEAS 80,34,34

SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic fumes of Na₂O.

**HLH500 CAS: 501-30-4 HR: 3
5-HYDROXY-2-(HYDROXYMETHYL)-4-PYRONE**

mf: C₆H₆O₄ mw: 142.12

PROP: Crystals from H₂O. Mp: 161°. Sol in H₂O.

SYNS: 5-HYDROXY-2-(HYDROXYMETHYL)-4H-PYRAN-4-ONE □ KOJIC ACID

TOXICITY DATA with REFERENCE:

mmo-sat 1 mg/plate MUREAV 67,367,79

mma-sat 4 mg/plate JTSCDR 7,255,82

ivn-rat LDLo:1000 mg/kg 85ERAY 3,1755,78

orl-mus LDLo:4 g/kg NATUAS 155,302,45

ipr-mus LD50:250 mg/kg 85GDA2 5,393,81

scu-mus LDLo:1500 mg/kg NATUAS 155,302,45

ivn-mus LDLo:1500 mg/kg NATUAS 155,302,45

ivn-dog LDLo:1000 mg/kg 85ERAY 3,1755,78

ivn-rbt LDLo:1000 mg/kg 85ERAY 3,1755,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion, intravenous, and subcutaneous routes. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

**HLI000 CAS: 2092-55-9 HR: D
4-HYDROXY-3-((2-HYDROXY-1-NAPHTHALEN-1-YL)AZO)BENZENESULFONIC ACID, MONOSODIUM SALT**

mf: C₁₆H₁₂N₂O₅S•Na mw: 367.35

PROP: Red-violet crystals. Sol in H₂O, EtOH; sltly sol in Me₂CO.

SYNS: ACID ALIZARINE VIOLET □ ACID ALIZARINE VIOLET B □ ACID ALIZARINE VIOLET N □ ACID CHROME VIOLET K □ ACID CHROME VIOLET N □ AIZEN CHROME VIOLET BH □ ALIZARINE VIOLET N □ ALPHACROIC VIOLET B □ ATLANTIC CHROME VIOLET B □ BRASILAN CHROME VIOLET B □ CHROMACID VIOLET R □ CHROMAL VIOLET B □ CHROMAVEN VIOLET B □ CHROME FAST VIOLET B □ CHROME VIOLET B □ CHROME VIOLET K □ CHROME VIOLET R □ C.I. 15670 □ C.I. MORDANT VIOLET 5 □ C.I. MORDANT VIOLET 5, MONOSODIUM SALT □ DIACROMO VIOLET N □ DIAMOND CORINTH N □ DUROCHROME VIOLET B □ ERIOCHROME VIOLET B □ ERIO CHROME VIOLET BA □ ERIO CHROME VIOLET BR □ HISPACROM VIOLET B □ JAVA CHROME VIOLET B □ MAGACROM VIOLET N □ MITSUI CHROME VIOLET BC □ MONCHROME VIOLET B □ OMEGA CHROME DARK VIOLET D □ PONTACHROME VIOLET SW □ SOLOCHROME VIOLET R □ SOLOCHROME VIOLET RS □ SOLOCROM VIOLET RS □ SUNCHROMINE VIOLET B □ SUPERCHROME VIOLET B □ SYMULON CHROME VIOLET B □ TERTROCHROME VIOLET N □ YODOCHROME VIOLET B

TOXICITY DATA with REFERENCE:

mma-sat 500 µg/plate MUREAV 56,249,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x, Na₂O, and NO_x.

**HLI100 CAS: 2538-85-4 HR: 3
3-HYDROXY-4-(2-HYDROXY-1-NAPHTHYLAZO)-1-NAPHTHALENESULFONIC ACID, SODIUM**

mf: C₂₀H₁₃N₂O₅S•Na mw: 416.40

SYNS: CALCON □ 1-NAPHTHALENESULFONIC ACID, 3-HYDROXY-4-(2-HYDROXY-1-NAPHTHYLAZO)-, SODIUM SALT

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#04757

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

**HLI200 CAS: 204717-96-4 HR: D
α-HYDROXYIDOXIFENE**

mf: C₂₈H₃₀INO₂ mw: 539.49

SYN: BENZENEETHANOL, β-((4-IODOPHENYL)(4-(2-(1-PYRROLIDINYL)ETHOXY)PHENYL)METHYLENE)-α-METHYL-, (β-(Z))-

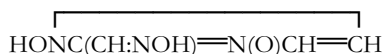
TOXICITY DATA with REFERENCE:

add-rat-lvr 10 µmol/L CRNGDP 20,293,1999

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and I₂.

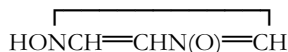
**HLI300 HR: 3
1-HYDROXYIMIDAZOLE-2-CARBOXALDOXIME-3-OXIDE**

mf: C₄H₅N₃O₃ mw: 143.10



SAFETY PROFILE: The solid is an explosive. When heated to decomposition it emits toxic fumes of NO_x .

HLI325 CAS: 35321-46-1 HR: 3
1-HYDROXYIMIDAZOL-N-OXIDE
 mf: $\text{C}_3\text{H}_4\text{N}_2\text{O}_2$ mw: 100.08



SAFETY PROFILE: A sensitive explosive. When heated to decomposition it emits toxic fumes of NO_x .

HLI400 CAS: 4589-97-3 HR: 3
 α -(HYDROXYIMINO)BENZENEACETALDEHYDE OXIME

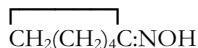
mf: $\text{C}_8\text{H}_8\text{N}_2\text{O}_2$ mw: 164.18
SYNS: BENZENEACETALDEHYDE, α -(HYDROXYIMINO)-, OXIME \square GLYOXAL, PHENYL-, DIOXIME \square GLYOXIME, PHENYL- \square MONOPHENYLGLYOXIME \square α -PHENYL-GLYOXAL DIOXIME \square PHENYLGLYOXIME

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:100 mg/kg BJPCAL 11,417,56

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x .

HLI500 CAS: 100-64-1 HR: 3
(HYDROXYIMINO)CYCLOHEXANE
 mf: $\text{C}_6\text{H}_{11}\text{NO}$ mw: 113.18



PROP: Prisms or liquid. Mp: $89-90^\circ$, bp: 204° (slt decomp), sol in water, sltly sol in ligroin, very sol in alc and ether.

SYNS: ANTIOXIDANT D \square CYCLOHEXANONE OXIME

TOXICITY DATA with REFERENCE:

msc-mus:lym 1938 mg/L MUREAV 204,149,88

orl-rat LD: >500 mg/kg NCNSA6 5,26,53

ipr-mus LD50:250 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. Violent reaction with oleum (fuming sulfuric acid) above 150°C . When heated to decomposition it emits toxic fumes of NO_x .

HLI600 CAS: 154-02-9 HR: D
5-HYDROXY-1H-INDOLE-3-ETHANOL

mf: $\text{C}_{10}\text{H}_{11}\text{NO}_2$ mw: 177.22

SYNS: 5-HYDROXYINDOLE-3-ETHANOL \square 5-HYDROXYTRYPTOPHOL \square 1H-INDOLE-3-ETHANOL, 5-HYDROXY- \square INDOLE-3-ETHANOL, 5-HYDROXY-

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x .

HLJ000 CAS: 54-16-0 HR: 2
5-HYDROXYINDOLYLACETIC ACID

mf: $\text{C}_{10}\text{H}_9\text{NO}_3$ mw: 191.20

PROP: A solid. Mp: 165° .

SYN: 5-HYDROXYINDOLEACETIC ACID

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1125 mg/kg JTEHD6 1,515,76

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x .

HLJ500 CAS: 1689-89-0 HR: 3
4-HYDROXY-3-iodo-5-NITROBENZONITRILE

mf: $\text{C}_7\text{H}_3\text{IN}_2\text{O}_3$ mw: 290.02

PROP: Yellow crystals from C_6H_6 . Mp: $137-138^\circ$. Sltly sol in H_2O .

SYNS: DOVENIX \square NITROXYNIL \square TRODAX

TOXICITY DATA with REFERENCE:

orl-mam LDLo:125 mg/kg FAZMAE 17,108,73

par-mam LDLo:50 mg/kg FAZMAE 17,108,73

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: A poison by ingestion and parenteral routes. When heated to decomposition it emits very toxic fumes of I^- , NO_x , and CN^- . See also NITRILES.

HLJ600 CAS: 57865-37-9 HR: 3
 α -HYDROXYISOBUTYRIC ACID ACETATE METHYL ESTER

mf: $\text{C}_7\text{H}_{12}\text{O}_4$ mw: 160.19

SYN: ISOBUTYRIC ACID, α -HYDROXY-, ACETATE, METHYL ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:250 $\mu\text{L/kg}$ CBCCT* 2,300,50

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

HLJ650 CAS: 23444-65-7 HR: 2
(-)-(1-HYDROXY-3-ISOHEXENYL)NAPHTH-AZARINE

mf: $\text{C}_{16}\text{H}_{16}\text{O}_5$ mw: 288.32

SYNS: ALKANNA RED \square ALKANNIN \square ANCHUSA ACID \square

ANCHUSIN \square CERVEN PRIRODNI 20 \square C.I. 75530 \square C.I.

NATURAL RED 20 \square (-)-5,8-DIHYDROXY-6-(1-HYDROXY-4-

METHYL-3-PENTENYL)-1,4-NAPHTHALENEDIONE \square (-)-5,8-

DIHYDROXY-2-(1-HYDROXY-4-METHYL-3-PENTENYL)-1,4-

NAPHTHOQUINONE \square (-)-5,8-DIHYDROXY-6-(1-HYDROXY-4-

METHYL-3-PENTENYL)-1,4-NAPHTHOQUINONE \square (-)-2-(1-

HYDROXY-4-METHYL-3-PENTENYL)-5,8-DIHYDROXY-1,4-

NAPHTHOQUINONE \square 1,4-NAPHTHOQUINONE, 5,8-

DIHYDROXY-6-(1-HYDROXY-4-METHYL-3-PENTENYL)-, (-)- \square

1,4-NAPHTHALENEDIONE, 5,8-DIHYDROXY-2-(1-HYDROXY-4-

METHYL-3-PENTENYL)-, (S)-

TOXICITY DATA with REFERENCE:

orl-rat LD50: >1 g/kg NAHRAR 15,505,1971

orl-mus LD50:3 g/kg NAHRAR 15,505,1971

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HLK000 CAS: 7376-66-1 HR: 3

4-HYDROXY- α -ISOPROPYLAMINOMETHYL-BENZYL ALCOHOLmf: $C_{11}H_{17}NO_2$ mw: 195.29**SYNS:** p-HYDROXY- α -ISOPROPYLAMINOMETHYLBENZYL ALCOHOL \square WIN 833**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:370 mg/kg JPETAB 106,341,52

ivn-mus LD50:144 mg/kg JPETAB 106,341,52

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes such as NO_x .**HLK500 CAS: 55688-38-5 HR: 3
3-HYDROXY- α -ISOPROPYLAMINOMETHYL-BENZYL ALCOHOL HYDROCHLORIDE**mf: $C_{11}H_{17}NO_2 \cdot ClH$ mw: 231.75**SYN:** 1-(3-HYDROXYPHENYL)-2-ISOPROPYLAMINOETHANOL HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:320 mg/kg JPETAB 106,440,52

ivn-mus LD50:130 mg/kg JPETAB 106,440,52

par-mus LD50:750 mg/kg PCJOAU 17,543,83

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by parenteral route. When heated to decomposition it emits very toxic fumes such as HCl and NO_x .**HLK600 CAS: 39552-01-7 HR: 3
7-(2-HYDROXY-3-(ISOPROPYLAMINO)PROPOXY)-2-BENZOFURANYLMETHYLKETONE**mf: $C_{16}H_{21}NO_4$ mw: 291.38**SYNS:** 2-ACETYL-7-(2-HYDROXY-3-ISOPROPYLAMINOPROPOXY)BENZOFURAN \square BEFUNOLOL \square ETHANONE, 1-(7-(2-HYDROXY-3-((1-METHYLETHYL)-AMINO)PROPOXY)-2-BENZOFURANYL)-(9CI) \square 1-(7-(2-HYDROXY-3-((1-METHYLETHYL)AMINO)PROPOXY)-2-BENZOFURANYL)ETHANONE \square KETONE, 7-(2-HYDROXY-3-(ISOPROPYLAMINO)PROPOXY)-2-BENZOFURANYL METHYL**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:100 mg/kg GWXXBX #2223184

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** A poison by intravenous route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x .**HLK800 HR: 3
8-(2-HYDROXY-3-ISOPROPYLAMINO)PROPOXY-2H-1-BENZOPYRAN**mf: $C_{15}H_{21}NO_3$ mw: 263.34**SYN:** 1-(2H-1-BENZOPYRAN-8-YLOXY)-3-ISOPROPYLAMINO-2-PROPANOL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:473 mg/kg OYYAA2 30,573,85

ivn-rat LD50:39 mg/kg OYYAA2 30,573,85

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .**HLK900 CAS: 17710-63-3 HR: 3
m-HYDROXYISOPROPYLPHENYL-N-METHYL-CARBAMATE**mf: $C_{11}H_{15}NO_3$ mw: 209.27**SYNS:** BENZENEMETHANOL, α,α -DIMETHYL-3-(((METHYL-AMINO)CARBONYL)OXY)- \square CARBAMIC ACID, METHYL-, α -HYDROXY-m-CUMENYL ESTER \square 3-(1-HYDROXY-1-METHYLETHYL)PHENYL METHYLCARBAMATE \square HYDROXYPROPYL UC 10854 \square METHYLCARBAMIC ACID α -HYDROXY-m-CUMENYL ESTER**TOXICITY DATA with REFERENCE:**ipr-mus LD50:2900 μ g/kg JAFCAU 16,561,1968**SAFETY PROFILE:** A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x .**HLM000 CAS: 10004-44-1 HR: 2
HYDROXYISOXAZOLE**mf: $C_4H_5NO_2$ mw: 99.10**SYNS:** 3-HYDROXY-5-METHYLISOXAZOLE \square HYMEXAZOL \square ITACHIGARDEN \square 5-METHYL-3-ISOXAZOLOL \square 5-METHYL-3(2H)-ISOXAZOLONE \square SF-6505 \square TACHIGAREN**TOXICITY DATA with REFERENCE:**

oms-omi 3 mg/L NNGADV 8,173,83

orl-rat LD50:3112 mg/kg GUCHAZ 6,302,73

scu-rat LD50:1884 mg/kg NYKGA7 2,165,75

orl-mus LD50:1968 mg/kg FMCHA2 -,C227,83

scu-mus LD50:1167 mg/kg NYKGA7 2,165,75

ivn-mus LD50:445 mg/kg NYKGA7 2,165,75

SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous and intravenous routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .**HLM500 CAS: 7803-49-8 HR: 3
HYDROXYLAMINE**mf: H_3NO mw: 33.04**PROP:** Colorless or white, thermally unstable, hygroscopic, liquid needles. Decomp rapidly at room temp. Mp: 34.0°, bp: 110.0°, flash p: explodes at 265°F, d: 1.227, vap press: 10 mm @ 47.2°. Decomp in hot water. Very sol in liquid ammonia, water, and methanol; Sol in acids; sltly sol in ether, benzene, carbon disulfide, and chloroform.**SYN:** OXAMMONIUM**TOXICITY DATA with REFERENCE:**

mmo-omi 1 mg/L MUREAV 74,113,80

slt-dmg-unr 45 mmol/L/48H MUREAV 120,233,83

dni-hmn:hla 10 mmol/L MUREAV 93,447,82

sce-ham:lng 5 mmol/L HUGEDQ 54,155,80

ipr-rat LD50:59 mg/kg CNREA8 26,1448,66

scu-rat LD50:29 mg/kg JPETAB 119,444,57

ipr-mus LD50:60 mg/kg JPETAB 165,30,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** A poison by intraperitoneal and subcutaneous routes. A corrosive irritant to the eyes, skin, and mucous membranes. Locally it is irritating, and systemically it can cause methemoglobinemia. Human mutation data reported. Dangerous fire hazard when exposed to heat, flame, and oxidizers. May ignite spontaneously in air if a large surface area is exposed (e.g., precipitate on paper). Explodes in air when heated above 70°C. Explosive reaction with potassium dichromate, chromium trioxide, powdered zinc + heat. Forms the

heat-sensitive explosive bis(hydroxylamide) in reaction with zinc or calcium. Ignites on contact with copper(II) sulfate, metals (e.g., sodium), oxidants (e.g., barium peroxide, barium oxide, lead dioxide, potassium permanganate, chlorine), phosphorus chlorides (e.g., phosphorus trichloride, phosphorus pentachloride). Incompatible with carbonyls, pyridine. Vigorous reaction with hypochlorites. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

HLM600 CAS: 59917-23-6 HR: 3
HYDROXYLAMINE, HYDRIODIDE

mf: H₃NO•HI mw: 160.95

SYN: HYDROXYL AMINE IODIDE (DOT)

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: An unstable substance forbidden for transport. When heated to decomposition it emits toxic vapors of NO_x and I⁻.

HLN000 CAS: 5470-11-1 HR: 3
HYDROXYLAMINE HYDROCHLORIDE

mf: H₃NO•ClH mw: 69.50

PROP: Monoclinic crystals commercially available. Powerful reducing agent, catalyst and copolymer inhibitor. Decomp when moist. Mp: 159°, bp: decomp, d: 1.67 @ 17°.

SYNS: HYDROXYAMMONIUM CHLORIDE □ HYDROXYLAMINE CHLORIDE □ HYDROXYLAMINE CHLORIDE (1:1) □ HYDROXYLAMMONIUM CHLORIDE □ OXAMMONIUM HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

dnr-esc 500 µg/plate JNCIAM 62,873,79
 mmo-omi 1 mol/L MUREAV 73,1,80
 mrc-smc 200 ppm JNCIAM 62,901,79
 otr-rat:emb 19,500 ng/plate JJATDK 1,190,81
 cyt-mam:lym 500 mg/L MUREAV 81,63,81
 orl-mus LD50:408 mg/kg APTOA6 6,285,50
 ipr-mus LD50:10 mg/kg NTIS** AD277-689
 scu-mus LD50:125 mg/kg ABMGAJ 21,635,68
 scu-dog LDLo:70 mg/kg HBAMAK 4,1289,35

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also HYDROXYLAMINE.

HLN100 CAS: 2950-43-8 HR: D
HYDROXYLAMINE-O-SULFONIC ACID

mf: H₃NO₄S mw: 113.10

SYNS: AMIDOPEROXYMONOSULFURIC ACID □ AMIDOSULFONIC PERACID □ AMINOMONOPERSULFURIC ACID □ HAOS □ HYDROXYLAMINESULFONIC ACID □ O-HYDROXYLAMMONIUM SULFONATE □ PERMONOSULFAMIC ACID □ SULFOPERAMIDIC ACID

TOXICITY DATA with REFERENCE:

dnr-esc 140 nmol/disc CBINA8 7,195,73
 dnd-mic-omi 1900 µmol/L CBINA8 7,195,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

HLN125 CAS: 95860-07-4 HR: D
2-HYDROXYLAMINO-4-NITROTOLUENE

mf: C₇H₈N₂O₃ mw: 168.17

SYNS: BENZENAMINE, N-HYDROXY-2-METHYL-5-NITRO- □ N-HYDROXY-2-METHYL-5-NITROBENZENAMINE

TOXICITY DATA with REFERENCE:

mic-sat 1 µmol/plate MUREAV 420,27,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HLN135 CAS: 5805-95-8 HR: D
2-HYDROXYLAMINO-6-NITROTOLUENE

mf: C₇H₈N₂O₃ mw: 168.17

SYNS: BENZENAMINE, N-HYDROXY-2-METHYL-3-NITRO- □ HYDROXYLAMINE, N-(3-NITRO-o-TOLYL)- □ N-HYDROXY-2-METHYL-3-NITROBENZENAMINE

TOXICITY DATA with REFERENCE:

mic-sat 1 µmol/plate MUREAV 420,27,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HLN500 HR: 3
HYDROXYLAMMONIUM PHOSPHINATE

mf: H₆NO₃P mw: 99.02

SAFETY PROFILE: Salt detonates above its melting point of 92°C. When heated to decomposition it emits very toxic fumes of PO_x, NH₃, and NO_x.

HLN700 HR: D
HYDROXYLATED LECITHIN

PROP: Light yellow liquid to paste; characteristic odor. Moderately sol in water.

SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

HLN800 CAS: 1126-48-3 HR: 3
p-HYDROXYMERCURIBENZOIC ACID

mf: C₇H₆HgO₃ mw: 338.72

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: p-HYDROXYMERCURIBENZOATE □ (4-CARBOXY-LATOPHENYL)HYDROXYMERCURATE(1-) HYDROGEN □ (p-CARBOXYPHENYL)HYDROXYMERCURY □ MERCURATE(1-), (4-CARBOXYLATOPHENYL)HYDROXY-, HYDROGEN □ MERCURY, (p-CARBOXYPHENYL)HYDROXY-

TOXICITY DATA with REFERENCE:

dni-mus-oth 1 mmol/L BBACAQ 425,1,1976
 ipr-mus LDLo:25 mg/kg JPETAB 31,87,1927

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin)

NIOSH REL: (MERCURY, ARYL AND INORGANIC) CL 0.1 mg/m³ (Sk)

SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic vapors of Hg.

HLO300 CAS: 67466-58-4 HR: 3
o-(N-3-HYDROXYMERCURI-2-HYDROXY-

ETHOXYPROPYLCARBAMYL)PHENOXY-ACETIC ACID, SODIUM SALTmf: $C_{14}H_{18}HgNO_7$ mw: 535.91**PROP:** IDLH 10 mg/m³ (as Hg).**SYN:** (3-(α -CARBOXY-*o*-ANISAMIDO)-2-(2-HYDROXY-ETHOXY)PROPYL)HYDROXY-MERCURY MONOSODIUM SALT**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:32 mg/kg JAPMA8 40,249,51

ims-rat LD50:35 mg/kg JAPMA8 40,249,51

ivn-mus LD50:113 mg/kg JAPMA8 40,249,51

ims-mus LD50:118 mg/kg JAPMA8 40,249,51

ims-rbt LD50:26 mg/kg JAPMA8 40,249,51

CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.**OSHA PEL:** CL 0.1 mg(Hg)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 μ g/g creatinine total inorganic mercury in urine preshift; 15 μ g/g creatinine total inorganic mercury in blood at end of shift at end of workweek.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)**SAFETY PROFILE:** Poison by intramuscular and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x, Na₂O and Hg. See also MERCURY COMPOUNDS, ORGANIC.**HLO350 CAS: 64049-27-0 HR: 3 2-(HYDROXYMERCURI)-4-NITROANILINE**mf: $C_6H_6HgN_2O_3$ mw: 354.73**PROP:** IDLH 10 mg/m³ (as Hg).**SYN:** ANILINE, 2-(HYDROXYMERCURI)-4-NITRO-**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:250 mg/kg NCNSA6 5,12,1953

ipr-rat LDLo:50 mg/kg NCNSA6 5,12,1953

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 μ g/g creatinine total inorganic mercury in urine preshift; 15 μ g/g creatinine total inorganic mercury in blood at end of shift at end of workweek.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (mercury, aryl and inorganic) CL 0.1 mg/m³ (skin)**SAFETY PROFILE:** A poison by ingestion and intraperitoneal route.**HLO400 CAS: 61792-05-0 HR: 3 HYDROXYMERCURI-*o*-NITROPHENOL**mf: $C_6H_5HgNO_4$ mw: 355.71**PROP:** IDLH 10 mg/m³ (as Hg).**SYNS:** HYDROXY(4-HYDROXY-3-NITROPHENYL)MERCURY

□ MERCURY, HYDROXY(4-HYDROXY-3-NITROPHENYL)-

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:26 mg/kg JPETAB 31,87,27

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 μ g/g creatinine total inorganic mercury in urine preshift; 15 μ g/g creatinine total inorganic mercury in blood at end of shift at end of workweek.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)**SAFETY PROFILE:** Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x and Hg.**HLO450 CAS: 14066-61-6 HR: 3 *o*-HYDROXYMERCURI-*o*-BENZOIC ACID**mf: $C_7H_6HgO_3$ mw: 338.72**PROP:** IDLH 10 mg/m³ (as Hg).**SYNS:** BENZOIC ACID, *o*-(HYDROXYMERCURI)- □ (*o*-CARBOXYPHENYL)HYDROXYMERCURY □ (2-CARBOXY-PHENYL)HYDROXYMERCURY □ *o*-HYDROXYMERCURI-BENZOIC ACID □ MERCURY, (*o*-CARBOXYPHENYL)HYDROXY- □ MERCURATE(1-), (BENZOATO(2-)-C2,O1)HYDROXY-, HYDROGEN □ MERCURY, (2-CARBOXYPHENYL)HYDROXY-**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:37 mg/kg JPETAB 31,87,1927

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin)**NIOSH REL:** (MERCURY, ARYL AND INORGANIC) CL 0.1 mg/m³ (Sk)**SAFETY PROFILE:** A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of Kg.**HLO500 CAS: 63869-04-5 HR: 3 *o*-(HYDROXYMERCURI)PHENOL**mf: $C_6H_6HgO_2$ mw: 310.71**PROP:** IDLH 10 mg/m³ (as Hg).**SYN:** (2-HYDROXYPHENYL)HYDROXYMERCURY**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:100 mg/kg NCNSA6 5,36,53

ipr-rat LDLo:25 mg/kg NCNSA6 5,36,53

CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.**OSHA PEL:** CL 0.1 mg(Hg)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 μ g/g creatinine total inorganic mercury in urine preshift; 15 μ g/g creatinine total inorganic mercury in blood at end of shift at end of workweek.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)**SAFETY PROFILE:** Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.**HLP000 CAS: 63868-96-2 HR: 3 HYDROXYMERCURIPROPANOLAMIDE of m-CARBOXYPHENOXYACETIC ACID**mf: $C_{12}H_{15}HgNO_6$ mw: 469.87**PROP:** IDLH 10 mg/m³ (as Hg).**SYN:** (m-((2-HYDROXY-3-HYDROXYMERCURI)PROPYL))-PHENOXYACETIC ACID**TOXICITY DATA with REFERENCE:**

ivn-rbt LDLo:12 mg/kg JPETAB 41,21,31

CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.**OSHA PEL:** CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

HLP500 CAS: 63868-98-4 HR: 3
HYDROXYMERCURIPROPANOLAMIDE of p-CARBOXYPHENOXYACETIC ACID

mf: C₁₂H₁₅HgNO₆ mw: 469.87

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: (3-(α-CARBOXY-p-ANISAMIDO)-2-HYDROXYPROPYL)-HYDROXYMERCURY □ (p-((2-HYDROXY-3-HYDROXY-MERCURY)PROPYL)CARBAMOYL)PHENOXYACETIC ACID

TOXICITY DATA with REFERENCE:

ivn-rbt LDLo:9 mg/kg JPETAB 41,21,31

CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

HLQ000 CAS: 64048-08-4 HR: 3
(5-(HYDROXYMERCURI)-2-THIENYL)MERCURY ACETATE

mf: C₆H₆Hg₂O₃S mw: 559.36

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: ACETATO((5-HYDROXYMERCURI)-2-THIENYL)-MERCURY □ (ACETATO-o)HYDROXY-mu-2,5-THIOPHENEDIYLDIMERCURY □ 2-(ACETOXYMERCURI)-5-(HYDROXY-MERCURI)THIOPHENE □ (THIOPHENE-2,5-DIYL)BIS-(HYDROXYMERCURY)MONOACETATE

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:50 mg/kg NCNSA6 5,31,53

ivn-mus LD50:18 mg/kg CSLNX* NX#05138

CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of Hg and SO_x. See also MERCURY COMPOUNDS.

HLQ050 CAS: 26011-40-5 HR: D
2-HYDROXYMESTRANOL

mf: C₂₁H₂₆O₃ mw: 326.47

SYNS: 3-METHOXY-19-NOR-17-α-PREGNA-1,3,5(10)-TRIEN-20-YNE-2,17-DIOL □ 19-NOR-17-α-PREGNA-1,3,5(10)-TRIEN-20-YNE-2,17-DIOL, 3-METHOXY- □ 19-NORPREGNA-1,3,5(10)-TRIEN-20-YNE-2,17-DIOL, 3-METHOXY-, (17-α)-

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

HLQ100 CAS: 5939-37-7 HR: 3
7-HYDROXYMETHOTREXATE

mf: C₂₀H₂₂N₈O₆ mw: 470.50

SYNS: GLUTAMIC ACID,N-(p-(((2,4-DIAMINO-7-HYDROXY-6-PTERIDINYL)METHYL)METHYLAMINO)BENZOYL)- □ 1-GLUTAMIC ACID,N-(4-(((2,4-DIAMINO-1,7-DIHYDRO-7-OXO-6-PTERIDINYL)METHYL)METHYLAMINO) BENZOYL)-

TOXICITY DATA with REFERENCE:

ivn-rat LD50:300 mg/kg CCPHDZ 37,415,1996

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

HLQ500 CAS: 498-02-2 HR: 2
4'-HYDROXY-3'-METHOXYACETOPHENONE

mf: C₉H₁₀O₃ mw: 166.19

PROP: Prisms from H₂O. Mp: 115°, bp: 295–300°.

SYNS: ACETOGUALACONE □ ACETOVANILLONE □ ACETOVANILLONE □ ACETOVANYLLON □ APOCYNINE □ 1-(4-HYDROXY-3-METHOXYPHENYL)ETHANONE

TOXICITY DATA with REFERENCE:

mno-smc 400 mg/L MUREAV 119,272,83

orl-mus LD50:9 g/kg BCTKAG 14,301,84

ipr-mus LD50:650 mg/kg JMCAR 7,178,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes. See also KETONES.

HLR000 CAS: 78265-95-9 HR: 2
N-HYDROXY-3-METHOXY-4-AMINOAZO-BENZENE

mf: C₁₃H₁₃N₃O₂ mw: 243.29

SYNS: 4-HYDROXY-3-METHOXY-4-AMINOAZOBENZENE □ N-HYDROXY-2-METHOXY-4-(PHENYLAZO)BENZENAMINE □ N-(2-METHOXY-4-(PHENYLAZO)PHENYL)HYDROXYLAMINE

TOXICITY DATA with REFERENCE:

mno-sat 100 nmol/plate GANNA2 68,373,77

mno-sat 50 nmol/plate GANNA2 72,921,81

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HLR500 CAS: 63040-24-4 HR: 2
3-HYDROXY-4'-METHOXY-4-AMINODIPHENYLmf: C₁₃H₁₃NO₂ mw: 215.27

SYN: 4-AMINO-4'-METHOXY-3-BIPHENYLOL

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.**HLR600 CAS: 673-22-3 HR: D**
2-HYDROXY-4-METHOXYBENZALDEHYDEmf: C₈H₈O₃ mw: 152.16

SYNS: p-ANISALDEHYDE, 2-HYDROXY- □ BENZALDEHYDE, 2-HYDROXY-4-METHOXY-(9CI) □ 4-METHOXSALICYL-ALDEHYDE

TOXICITY DATA with REFERENCE:

sce-hmn:lyms 500 µmol/L MUREAV 206,17,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HLR700 CAS: 4065-45-6 HR: 2**
2-HYDROXY-4-METHOXYBENZOPHENONE-5-SULFONIC ACIDmf: C₁₄H₁₂O₆S mw: 308.32

SYNS: BENZOPHENONE 4 □ BENZENESULFONIC ACID, 5-BENZOYL-4-HYDROXY-2-METHOXY- □ SULISOBENZONE

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MOD JACTDZ 2(5),35,83

orl-rat LD50:3530 mg/kg JACTDZ 2(5),35,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. An eye irritant. When heated to decomposition it emits toxic vapors of SO_x.**HL5500 CAS: 4756-45-0 HR: 3**
o-(2-HYDROXY-4-METHOXYBENZOYL)BENZOIC ACIDmf: C₁₅H₁₂O₅ mw: 272.27

SYN: 2'-CARBOXY-2-HYDROXY-4-METHOXYBENZOPHENONE(o-(2-HYDROXY-p-ANISOYL)BENZOIC ACID)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:320 mg/kg CSLNX* NX#01618

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by intravenous route. When heated to decomposition it emits acrid smoke and fumes.**HLT000 CAS: 298-45-3 HR: 3**
4-HYDROXY-3-METHOXY-5,6-METHYLENEDIOXY-APORPHINmf: C₁₉H₁₉NO₄ mw: 325.39**PROP:** A solid. Mp: 201–203°.

SYNS: BULBOCAPNINE □ d-BULBOCAPNINE □ 19-METHOXY-1,2-(METHYLENEDIOXY)-6a-α-APORPHIN-11-OL

TOXICITY DATA with REFERENCE:

scu-mus LD50:195 mg/kg JPETAB 56,85,36

ipr-mus LD50:145 mg/kg AIPTAK 155,69,65

scu-mus LD50:195 mg/kg MEIEDD 10,205,83

ivn-mus LD50:79 mg/kg CSLNX* NX#12068

SAFETY PROFILE: Poison by subcutaneous, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.**HLT100 CAS: 13925-12-7 HR: 3**
1-HYDROXY-6-METHOXYPHENAZINE 5,10-DIOXIDEmf: C₁₃H₁₀N₂O₄ mw: 258.25

SYNS: 3C ANTIBIOTIC □ 6-METHOXY-1-PHENAZINOL 5,10-DIOXIDE □ MYXIN □ 1-PHENAZINOL, 6-METHOXY-, 5,10-DIOXIDE

TOXICITY DATA with REFERENCE:

mma-pro-eug 10 mg/L EXPEAM 27,586,71

ipr-mus LD50:133 mg/kg CMTRAG 12,272,67

SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**HLT300 CAS: 25395-41-9 HR: 2**
2-HYDROXY-3-(o-METHOXYPHENOXY)PROPYL NICOTINATEmf: C₁₆H₁₇NO₅ mw: 303.34

SYNS: 3-(o-METHOXYPHENOXY)-2-HYDROXYPROPYL-1-NICOTINATE □ NICOTINIC ACID-2-HYDROXY-3-(o-METHOXYPHENOXY)PROPYL ESTER □ 3-PYRIDINE-CARBOXYLIC ACID-2-HYDROXY-3-(2-METHOXYPHENOXY)PROPYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:7700 mg/kg OYYAA2 7,189,73

orl-mus LD50:9800 mg/kg OYYAA2 7,149,73

ipr-mus LD50:3100 mg/kg OYYAA2 7,189,73

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS.**HLT500 CAS: 2929-14-8 HR: 2**
4-HYDROXY-8-METHOXYQUINALDIC ACIDmf: C₁₁H₉NO₄ mw: 219.21**PROP:** A solid. Mp: 240–241°.

SYNS: 8-METHOXY-4-HYDROXYQUINOLINE-2-CARBOXYLIC ACID □ 8-METHYL ETHER of XANTHURENIC ACID □ XANTHURENIC ACID-8-METHYL ETHER

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**HLU000 CAS: 70145-56-1 HR: 3**
HYDROXY(2-METHOXY-3-(2,4,6-TRIOXO-(1H,3H,5H)PYRIMID-5-YL)PROPYL)-MERCURY SODIUM SALTmf: C₈H₁₁HgN₂O₅•Na mw: 438.79**PROP:** IDLH 10 mg/m³ (as Hg).

SYN: 5-(3-HYDROXYMERCURI-2-METHOXYPROPYL)BARBITURIC ACID SODIUM SALT

TOXICITY DATA with REFERENCE:

ipr-rat LD50:19,500 µg/kg JAPMA8 39,297,50

CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.**OSHA PEL:** CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of Hg, Na₂O, and NO_x. See also MERCURY COMPOUNDS.

HLU500 CAS: 924-42-5 HR: 2
N-(HYDROXYMETHYL)ACRYLAMIDE

mf: C₄H₇NO₂ mw: 101.12

PROP: Crystals. Mp: 74–75°.



SYNS: N-(HYDROXYMETHYL)-2-PROPENAMIDE □ N-METHANOLACRYLAMIDE □ N-METHYLOLACRYLAMIDE □ MONOMETHYLOLACRYLAMIDE □ NCI-C60333 □ URAMINE T 80

TOXICITY DATA with REFERENCE:

spm-mus-orl 730 mg/kg/6W-C ARTODN 59,201,86
cyt-ham:ovr 375 mg/L NTPTR* NTP-TR-352,89
orl-rat LD50:474 mg/kg NEZAAQ 34,183,79
ipr-rat LD50:563 mg/kg BCPCA6 19,259,70
orl-mus LD50:420 mg/kg 37ASAA 1,306,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental reproductive effects. May undergo spontaneous combustion in storage. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HLU600 CAS: 158440-71-2 HR: 3
6-(HYDROXYMETHYL)ACYLFULVENE

mf: C₁₅H₁₈O₃ mw: 246.33

SYNS: 6-HYDROXYMETHYLACYLFULVENE □ ACYLFULVENE, 6-(HYDROXYMETHYL)- □ HMAF □ HMAF, MGI-114 □ MGI 114 □ SPIRO(CYCLOPROPANE-1,5'(5H)-INDEN)-7'(6H)-ONE, 6'-HYDROXY-3'-(HYDROXYMETHYL)-2',4',6'-TRIMETHYL-, (R)-

TOXICITY DATA with REFERENCE:

ivn-rat LD :>6610 µg/kg FAATDF 36(1, Pt 2),180,197
ivn-dog LDLo:2 mg/kg FAATDF 36(1, Pt 2),180,197

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

HLV000 CAS: 1910-36-7 HR: 2
N-HYDROXY-N-METHYL-4-AMINOAZO-BENZENE

mf: C₁₃H₁₃N₃O mw: 227.29

SYNS: N-HYDROXY-MAB □ N-METHYL-N-(p-(PHENYLAZO)-PHENYL)HYDROXYLAMINE

TOXICITY DATA with REFERENCE:

mno-sat 100 nmol/plate CALEDQ 1,91,75

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation

data reported. When heated to decomposition it emits toxic fumes of NO_x.

HLV500 CAS: 94-07-5 HR: 3
p-HYDROXY-α-(METHYLAMINO)METHYL)-BENZYL ALCOHOL

mf: C₉H₁₃NO₂ mw: 167.23

SYNS: ANALEPTIN □ ETHAPHENE □ 4-HYDROXY-α-(METHYLAMINO)METHYL)BENZENEMETHANOL □ p-HYDROXYPHENYLMETHYLAMINOETHANOL □ 1-(4-HYDROXYPHENYL)-2-METHYLAMINOETHANOL □ 1-(4-HYDROXYPHENYL)-N-METHYLETHANOLAMINE □ p-METHYLAMINOETHANOLPHENOL □ β-METHYLAMINO-α-(4-HYDROXYPHENYL)ETHYL ALCOHOL □ METHYLAMINO-METHYL(4-HYDROXYPHENYL)CARBINOL □ OXEDRINE □ p-OXEDRINE □ PARASYMPATOL □ SIMPALON □ SIMPATOL □ SYMPATHOL □ SYNEPHRIN □ p-SYNEPHRINE □ SYNTHENATE

TOXICITY DATA with REFERENCE:

scu-rat LDLo:1500 mg/kg AIPTAK 101,81,55
ipr-mus LD50:1000 mg/kg JPETAB 89,297,47
ivn-mus LD50:270 mg/kg JPETAB 106,341,52
ivn-rbt LDLo:150 mg/kg AIPTAK 101,81,55

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous and intraperitoneal routes. Used as an adrenergic agent and vasopressor. When heated to decomposition it emits toxic fumes such as NO_x.

HLX000 CAS: 22346-43-6 HR: 1
4-HYDROXY-7-(METHYLAMINO)-2-NAPHTH-ALENESULFONIC ACID

mf: C₁₁H₁₁NO₄S mw: 253.29

SYNS: KYSELINA 2-METHYLAMINO-5-NAFTOL-7-SULFONOVA (CZECH) □ KYSELINA-N-METHYL-I (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,190,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFONATES.

HLX500 CAS: 955-48-6 HR: 2
4'-(1-HYDROXY-2-(METHYLAMINO)PROPYL)-METHANESULFONANILIDE HYDRO-CHLORIDE

mf: C₁₁H₁₈N₂O₃S·ClH mw: 294.83

PROP: A solid. Mp: 192.5–194°.

SYN: MJ 1998

TOXICITY DATA with REFERENCE:

ipr-rat LD50:850 mg/kg JPETAB 149,161,65
ipr-mus LD50:785 mg/kg JPETAB 149,161,65
ipr-dog LD50:485 mg/kg JPETAB 149,161,65
orl-rbt LD50:1250 mg/kg JPETAB 149,161,65

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and HCl. See also SULFONATES.

HLX550 CAS: 69321-16-0 HR: 2

4-(N-HYDROXY-N-METHYLAMINO)QUINOLINE 1-OXIDEmf: $C_{10}H_{10}N_2O_2$ mw: 190.22**SYNS:** HYDROXYLAMINE, N-METHYL-N-(4-QUINOLINYL)-, 1-OXIDE □ 4-(N-METHYLHYDROXYAMINO)-QUINOLINE-1-OXIDE □ 4-QUINOLINAMINE, N-HYDROXY-N-METHYL-, 1-OXIDE**TOXICITY DATA with REFERENCE:**mma-esc 200 $\mu\text{mol/L}$ CPBTAL 34,1755,86**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .**HLX600 CAS: 50880-57-4 HR: D 17- β -HYDROXY-7- α -METHYLANDROST-5-ENE-3-ONE**mf: $C_{20}H_{30}O_2$ mw: 302.50**PROP:** Crystals from Me_2CO . Mp: 200–216°.**SYN:** RMI 12,936**SAFETY PROFILE:** An experimental teratogen. Experimental reproductive effects. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes.**HLX700 CAS: 105708-72-3 HR: D 6-HYDROXYMETHYLANTHANTHRENE**mf: $C_{23}H_{14}O$ mw: 306.37**SYN:** DIBENZO(def,mno)CHRYSENE-6-METHANOL**TOXICITY DATA with REFERENCE:**mic-bac-sat 10 $\mu\text{mol/L}$ CRNGDP 15,2605,94**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HLX900 CAS: 109835-10-1 HR: 2 4-(HYDROXYMETHYL)BENZENEDIAZONIUM SULFATE**mf: $C_7H_7N_2O \cdot 1/2H_2O_4S$ mw: 184.15**SYN:** BENZENEDIAZONIUM, 4-(HYDROXYMETHYL)-, SULFATE (2:1)**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x and SO_x .**HLX925 CAS: 78246-54-5 HR: 3 4-(HYDROXYMETHYL)BENZENEDIAZONIUM TETRAFLUOROBORATE**mf: $C_7H_7N_2O \cdot BF_4$ mw: 221.97**SYNS:** BENZENEDIAZONIUM, 4-(HYDROXYMETHYL)-, TETRAFLUOROBORATE(1-) □ HMBD**TOXICITY DATA with REFERENCE:**mmo-sat 1 $\mu\text{mol/plate}$ ZLUFAR 183,85,86**SAFETY PROFILE:** Suspected carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x , B, and F^- .**HLX950 CAS: 91-04-3 HR: 2 2-HYDROXY-5-METHYL-1,3-BENZENE-DIMETHANOL**mf: $C_9H_{12}O_3$ mw: 168.21**SYNS:** 1,3-BENZENEDIMETHANOL, 2-HYDROXY-5-METHYL- α^1, α^3 -MESITYLENEDIOL, 2-HYDROXY-(7CI,8CI) □ $\alpha^1, \alpha^3, 2$ -TRIHYDROXYMESITYLENE**TOXICITY DATA with REFERENCE:**

par-frg LDLo:1250 mg/kg JPETAB 26,123,26

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by parenteral routes. When heated to decomposition it emits acrid smoke and irritating vapors.**HLV955 CAS: 73459-03-7 HR: 2 4-HYDROXY-6-METHYL-5-BENZOFURAN-ACRYLIC ACID γ -LACTONE**mf: $C_{12}H_8O_3$ mw: 200.20**SYNS:** 2H-FURO(2,3-H)(1)BENZOPYRAN-2-ONE, 5-METHYL- □ 5-METHYLANGELICIN □ 5-METHYL-2H-FURO(2,3-H)-1-BENZOPYRAN-2-ONE**TOXICITY DATA with REFERENCE:**mic-bac-sat 200 $\mu\text{g/plate}$ MUREAV 88,17,81

orl-mus LD50:2 g/kg USXXAM #4312883

CONSENSUS REPORTS: IARC Cancer Review:

Animal Inadequate Evidence IMEMDT 40,291,86;

Human No Adequate Data IMEMDT 40,291,86.

SAFETY PROFILE: Questionable carcinogen. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HLV960 CAS: 123577-49-1 HR: D 4-HYDROXYMETHYL-4',5'-BENZOPSORALEN**mf: $C_{16}H_{10}O_4$ mw: 266.26**SYNS:** 2H-BENZOFURO(3,2-G)-1-BENZOPYRAN-2-ONE, 4-(HYDROXYMETHYL)- □ 4-(HYDROXYMETHYL)-2H-BENZOFURO(3,2-G)-1-BENZOPYRAN-2-ONE**TOXICITY DATA with REFERENCE:**

dnd-ham-ovr 5 mg/L MUREAV 311,277,94

msc-ham-lng 1 mg/L MUREAV 311,277,94

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HLY000 CAS: 68041-18-9 HR: 2 6-HYDROXYMETHYLBENZO (a)PYRENE-SULFATE ESTER (SODIUM SALT)**mf: $C_{21}H_{13}O_4S \cdot Na$ mw: 384.39**TOXICITY DATA with REFERENCE:**

mmo-sat 1 nmol/plate CBINA8 58,253,86

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutagenic data reported. When heated to decomposition it emits toxic fumes of SO_x and Na_2O . See also ESTERS.**HLY400 CAS: 3597-91-9 HR: D 4-(HYDROXYMETHYL)BIPHENYL**mf: $C_{13}H_{12}O$ mw: 184.25**PROP:** Crystals from C_6H_6 . Mp: 101–102°.**SYNS:** (1,1'-BIPHENYL)-4-METHANOL □ 4-BIPHENYL-METHANOL □ 4HMB □ p-PHENYLBENZYL ALCOHOL**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

HLY500 CAS: 84-79-7 HR: 3
2-HYDROXY-3-(3-METHYL-2-BUTENYL)-1,4-NAPHTHOQUINONEmf: C₁₅H₁₄O₃ mw: 242.29**PROP:** Yellow prisms from EtOH or Et₂O. Mp: 139–140°.**SYNS:** BETHABARRA WOOD □ C.I. 75490 □ C.I. NATURAL YELLOW 16 □ GREENHARTEN □ 2-HYDROXY-3-(3-METHYL-2-BUTENYL)-1,4-NAPHTHALENEDIONE □ IPE-TOBACCO WOOD □ LAPACHIC ACID □ LAPACHOL □ LAPACHOL WOOD □ NSC-11905 □ SURINAM GREENHEART WOOD □ TAIGUIC ACID □ TAIGU WOOD □ TECOMIN**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:1200 mg/kg TXAPA9 17,1,70

orl-mus LD50:487 mg/kg TXAPA9 17,1,70

ipr-mus LD50:400 mg/kg JMCMA 26,570,83

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and fumes.**HMA000 CAS: 3342-98-1 HR: 2**
1-HYDROXY-3-METHYLCHOLANTHRENEmf: C₂₁H₁₆O mw: 284.37**SYNS:** 15-HYDROXY-20-METHYLCHOLANTHRENE □ 3-METHYLCHOLANTHREN-1-OL □ 3-METHYL-1-CHOLANTHRENOL**TOXICITY DATA with REFERENCE:**

mma-sat 20 nmol/plate CNREA8 38,3398,78

skn-mus TDLo:91 mg/kg/20W-I:CAR,REP CBINA8 22(1),69,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**HMA500 CAS: 3308-64-3 HR: 2**
2-HYDROXY-3-METHYLCHOLANTHRENEmf: C₂₁H₁₆O mw: 284.37**SYN:** 3-METHYLCHOLANTHREN-2-OL**TOXICITY DATA with REFERENCE:**

mma-sat 20 nmol/plate CNREA8 38,3398,78

mma-ham:lng 15 nmol/plate CNREA8 38,3398,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**HMA600 CAS: 4394-77-8 HR: 3**
7-HYDROXY-4-METHYLCOUMARIN, BIS(2-CHLOROETHYL) PHOSPHATEmf: C₁₄H₁₅Cl₂O₆P mw: 381.16**SYNS:** 86H 60 □ PHOSPHORIC ACID, BIS(2-CHLOROETHYL) 4-METHYL-2-OXO-2H-1-BENZOPYRAN-7-YL ESTER (9CI)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:141 mg/kg BCPCA6 16,1183,67

orl-ckn LD50:>1250 mg/kg BCPCA6 16,1183,67

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of PO_x and Cl⁻.**HMB000 CAS: 5980-33-6 HR: 3**
7-HYDROXY-4-METHYLCOUMARIN SODIUMmf: C₁₀H₇O₃•Na mw: 198.16**SYNS:** CANTABILINE SODIUM □ HYMECROMONE SODIUM □ METHYL-4-OMBELLIFERONE SODEE (FRENCH) □ METHYL-4-UMBELLIFERONE SODIUM**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:750 mg/kg THERAP 23,359,68

ivn-rat LDLo:292 mg/kg THERAP 23,359,68

ipr-mus LD50:325 mg/kg THERAP 23,359,68

ivn-mus LD50:250 mg/kg THERAP 23,359,68

ivn-dog LDLo:283 mg/kg THERAP 23,359,68

ivn-rbt LDLo:235 mg/kg THERAP 23,359,68

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes of Na₂O.**HMB500 CAS: 80-71-7 HR: 2**
2-HYDROXY-3-METHYL-2-CYCLOPENTEN-1-ONEmf: C₆H₈O₂ mw: 112.14**PROP:** White crystalline powder; nutty odor, maple odor in dilute solutions. Flash p: 212°F. Sol in alc, propylene glycol; sltly sol in fixed oils, water.**SYNS:** CORYLON □ CORYLONE □ CYCLOTEN □ FEMA No. 2700 □ MAPLE LACTONE □ 3-METHYLCYCLOPENTANE-1,2-DIONE □ METHYL CYCLOPENTENOLONE (FCC)**TOXICITY DATA with REFERENCE:**

sce-hmn:lym 1500 μmol/L MUREAV 169,129,86

ipr-rat LDLo:500 mg/kg FCTXAV 14,809,76

ipr-mus LDLo:500 mg/kg FCTXAV 14,809,76

orl-gpg LD50:1400 mg/kg FCTXAV 14,809,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and intraperitoneal routes. Human mutation data reported. Combustible liquid. When heated to decomposition it emits acrid smoke and fumes.**HMB550 CAS: 5116-24-5 HR: D**
5-HYDROXYMETHYLDEOXYURIDINEmf: C₁₀H₁₄N₂O₆ mw: 258.26**SYNS:** 2'-DEOXY-5-(HYDROXYMETHYL)URIDINE □ 5-HYDROXYMETHYL-2'-DEOXYURIDINE □ α-HYDROXY-THYMIDINE (9CI)**TOXICITY DATA with REFERENCE:**

mmo-sat 50 μg/plate MUREAV 169,123,86

mma-sat 50 μg/plate MUREAV 169,123,86

sce-hmn:lng 5 mg/L MUREAV 117,317,83

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**HMB560 CAS: 92078-92-7 HR: D**
(E)-HYDROXYMETHYLDIAZENE-15N2mf: CH₄N₂O mw: 60.07

SYNS: DIAZENE-15N2, HYDROXYMETHYL-, (E)- \square POTASSIUM (E)-ETHANEDIAZOTATE

TOXICITY DATA with REFERENCE:

mic-sat 250 nmol/plate MUREAV 412,99,1998

mic-esc 250 nmol/plate MUREAV 412,99,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

**HMB565 CAS: 98114-62-6 HR: D
(E)-HYDROXYMETHYLDIAZENE POTASSIUM SALT**

mf: CH₃N₂O•K mw: 98.16

SYNS: DIAZENE, HYDROXYMETHYL-, POTASSIUM SALT, (E)- \square POTASSIUM (E)-METHANEDIAZOTATE

TOXICITY DATA with REFERENCE:

mic-sat 250 nmol/plate MUREAV 412,99,1998

mic-esc 1 μ mol/plate MUREAV 412,99,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

**HMB570 CAS: 3058-37-5 HR: D
(Z)-HYDROXYMETHYLDIAZENE POTASSIUM SALT**

mf: CH₃N₂O•K mw: 98.16

SYNS: DIAZENE, HYDROXYMETHYL-, POTASSIUM SALT, (Z)- \square METHANEDIAZOHYDROXIDE, POTASSIUM SALT, (Z)- \square POTASSIUM (Z)-METHANEDIAZOTATE

TOXICITY DATA with REFERENCE:

mic-sat 250 nmol/plate MUREAV 412,99,1998

mic-esc 250 nmol/plate MUREAV 412,99,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

**HMB595 CAS: 35282-68-9 HR: 2
2'-HYDROXYMETHYL-N,N-DIMETHYL-4-AMINOAZOBENZENE**

mf: C₁₅H₁₇N₃O mw: 255.35

SYNS: BENZENEMETHANOL, 2-((4-(DIMETHYLAMINO)-PHENYL)AZO)-(9CI) \square o-((p-DIMETHYLAMINOPHENYL)-AZO)BENZYL ALCOHOL

TOXICITY DATA with REFERENCE:

mma-sat 500 nmol/plate MUREAV 121,95,83

dns-rat:lv 1 μ mol/L CNREA8 46,1654,86

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

**HMB600 CAS: 35282-69-0 HR: 2
3'-HYDROXYMETHYL-N,N-DIMETHYL-4-AMINOAZOBENZENE**

mf: C₁₅H₁₇N₃O mw: 255.35

SYNS: m-((p-DIMETHYLAMINOPHENYL)AZO)BENZYL ALCOHOL \square 3-((p-DIMETHYLAMINO)PHENYL)AZO)BENZYL ALCOHOL \square 3'-HYDROXYMETHYL-4-(DIMETHYLAMINO)-AZOBENZENE

TOXICITY DATA with REFERENCE:

mmo-sat 1 μ mol/plate CRNGDP 4,1487,83

mma-sat 1 μ mol/L CPBTAL 32,3641,84

dns-rat:lv 1 μ mol/L CNREA8 46,1654,86

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data.

Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

**HMB625 CAS: 13826-35-2 HR: 2
3-(HYDROXYMETHYL)DIPHENYL ETHER**

mf: C₁₃H₁₂O₂ mw: 200.25

SYNS: BENZENEMETHANOL, 3-PHENOXY-(9CI) \square BENZYL ALCOHOL, m-PHENOXY- \square 3-PHENOXYBENZENEMETHANOL \square m-PHENOXYBENZYL ALCOHOL \square 3-PHENOXYBENZYL ALCOHOL \square (3-PHENOXYPHENYL)METHANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:3 g/kg GTPZAB 35(1),47,91

orl-mus LD50:2040 mg/kg GTPZAB 35(1),47,91

ipr-mus LD50:575 mg/kg JAFCAU 25,9,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating vapors.

**HMB650 CAS: 7759-35-5 HR: D
17-HYDROXY-16-METHYLENE-19-NORPREGN-4-ENE-3,20-DIONE ACETATE**

mf: C₂₃H₃₀O₄ mw: 370.53

SYNS: 16-METHYLENE-17- α -ACETOXY-19-NOR-4-PREGNENE-3,20-DIONE \square ST-1435

SAFETY PROFILE: Human female reproductive effects by implant: changes in menstrual cycle and fertility. When heated to decomposition it emits acrid smoke and fumes.

**HMB700 CAS: 31706-95-3 HR: D
1'-HYDROXYMETHYLEUGENOL**

mf: C₁₁H₁₄O₃ mw: 194.25

SYNS: BENZENEMETHANOL, α -ETHENYL-3,4-DIMETHOXY- \square α -ETHENYL-3,4-DIMETHOXYBENZENEMETHANOL \square VERATRYL ALCOHOL, α -VINYL-(6CI,8CI)

TOXICITY DATA with REFERENCE:

dns-rat:lv 100 μ mol/L FCTOD7 30,831,92

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

**HMC000 CAS: 503-49-1 HR: 2
 β -HYDROXY- β -METHYLGLUTARIC ACID**

mf: C₆H₁₀O₅ mw: 162.16

PROP: Crystals from Et₂O/pet ether. Mp: 109°.

SYNS: CB-337 \square DICROTALIC ACID \square HMG \square HMGa \square 3-HYDROXY-3-METHYLGLUTARIC ACID \square 3-HYDROXY-3-METHYLPENTANEDIOIC ACID \square LIPOGLUTAREN \square MEDROGLUTARIC ACID \square MEGLUTOL

TOXICITY DATA with REFERENCE:

orl-mus LD50:7330 mg/kg DRFUD4 3,114,78

ipr-mus LD50:3230 mg/kg DRFUD4 3,114,78

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Used as an antihyperlipoproteinemic agent. When heated to decomposition it emits acrid smoke and fumes.

**HMC500 CAS: 63885-07-4 HR: 2
3-HYDROXY-1-METHYLGUANINE**

mf: $C_6H_7N_5O_2$ mw: 181.18

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x .

HMD000 CAS: 30345-27-8 HR: 2
3-HYDROXY-7-METHYLGUANINE

mf: $C_6H_7N_5O_2$ mw: 181.18

SYN: 2-AMINO-3-HYDROXY-1,7-DIHYDRO-7-METHYL-6H-PURIN-6-ONE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x .

HMD500 CAS: 30345-28-9 HR: 2
3-HYDROXY-9-METHYLGUANINE

mf: $C_6H_7N_5O_2$ mw: 181.18

SYN: 2-AMINO-3-HYDROXY-1,7-DIHYDRO-8-METHYL-6H-PURIN-6-ONE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x .

HME000 CAS: 15932-89-5 HR: 3
HYDROXYMETHYL HYDROPEROXIDE

mf: CH_4O_3 mw: 64.04

PROP: Explodes when heated, but is relatively insensitive to friction. A powerful oxidizer. Upon decomposition it emits toxic fumes. See also PEROXIDES.

HME050 CAS: 98257-47-7 HR: 2
5-HYDROXY-2-METHYL-1-INDANONE SODIUM SALT

mf: $C_{10}H_9O_2 \cdot Na$ mw: 184.18

SYNS: 1-INDANONE, 5-HYDROXY-2-METHYL-, SODIUM SALT
 □ 1H-INDEN-1-ONE, 2,3-DIHYDRO-5-HYDROXY-2-METHYL-, SODIUM SALT

TOXICITY DATA with REFERENCE:

ipr-mus LD50:670 mg/kg RPTOAN 48,143,85

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

HME100 CAS: 73599-92-5 HR: 3
HYDROXYMETHYL 1-iodo-3-ADAMANTYL KETONE

mf: $C_{12}H_{17}IO_2$ mw: 320.19

SYN: ETHANONE, 2-HYDROXY-1-(1-iodo-3-ADAMANTYL)-

TOXICITY DATA with REFERENCE:

unr-mus LD50:798 mg/kg RPTOAN 43,73,80

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by an unreported route. A flammable liquid. When heated to decomposition it emits toxic vapors of I^- .

HMF000 CAS: 568-75-2 HR: 3
7-HYDROXYMETHYL-12-METHYLBENZ(a)-ANTHRACENE

mf: $C_{20}H_{16}O$ mw: 272.36

SYNS: 7-HM-12-MBA □ 12-METHYLBENZ(a)ANTHRACENE-7-METHANOL □ 7-OHM-MBA □ 7-OHM-12-MBA

TOXICITY DATA with REFERENCE:

dnd-rat-ipr 100 μ mol/kg CRNGDP 3,297,82dnd-mus-skn 16 μ mol/kg CNREA8 43,4221,83

ivn-rat LD50:73 mg/kg KIDZAK 23(Suppl 1),35,71

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intravenous route. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

HMF500 CAS: 568-70-7 HR: 2
12-HYDROXYMETHYL-7-METHYLBENZ(a)-ANTHRACENE

mf: $C_{20}H_{16}O$ mw: 272.36

SYNS: 12-HM-7-MBA □ 7-METHYLBENZ(a)ANTHRACENE-12-METHANOL □ 7-METHYL-12-HYDROXYMETHYLBENZ(a)-ANTHRACENE

TOXICITY DATA with REFERENCE:

mma-sat 10 nmol/plate 46OJAN -,675,81

mma-ham:lng 400 nmol/L PNASA6 76,862,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

HMG000 CAS: 590-96-5 HR: 3
1-HYDROXYMETHYL-2-METHYLDITIMIDE-2-OXIDE

mf: $C_2H_6N_2O_2$ mw: 90.10

SYNS: MAM □ METHYLAZOXYMETHANOL □ (METHYL-ONN-AZOXY)METHANOL

TOXICITY DATA with REFERENCE:

mma-sat 10 μ mol/plate CNREA8 39,3780,79

hma-mus/sat 1200 mg/kg 22XWAN -,260,70

SAFETY PROFILE: Confirmed carcinogen with experimental tumorigenic and teratogenic data. Other experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .

HMG500 CAS: 61413-61-4 HR: 3
1-(HYDROXYMETHYL)-3-METHYLIMIDAZOLINIUM CHLORIDE, DODECANOATE

mf: $C_{17}H_{33}N_2O_2 \cdot Cl$ mw: 332.97

SYN: 1-((n-DODECANOXYLOXY)METHYL)-3-METHYLIMIDAZOLIUM CHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:4110 mg/kg JMCMAr 23,469,80

ipr-mus LD50:155 mg/kg JMCMAr 23,469,80

ivn-mus LD50:75 mg/kg JMCMAr 23,469,80

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Mildly toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and Cl^- .

HMG600 HR: 3
**3-(HYDROXYMETHYL)-1-METHYLIMIDAZOL-
INIUM CHLORIDE LAURATE (ESTER)**mf: C₁₇H₃₃N₃O₂•Cl mw: 332.97**TOXICITY DATA with REFERENCE:**

orl-mus LD50:4110 mg/kg JMCMA 23,469,80

ipr-mus LD50:155 mg/kg JMCMA 23,469,80

ivn-mus LD50:75 mg/kg JMCMA 23,469,80

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and Cl⁻. See also ESTERS.**HMH000 HR: 3**
HYDROXYMETHYL METHYL PEROXIDEmf: C₂H₆O₃ mw: 78.07HOCH₂OOCH₃**SAFETY PROFILE:** Violently explosive, impact-sensitive when heated. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES.**HMH050 CAS: 108320-78-1 HR: D**
**5-(HYDROXYMETHYL)-11-METHYL-6H-
PYRIDO(4,3-B)CARBAZOLE**mf: C₁₇H₁₄N₂O mw: 262.33**SYNS:** 6H-PYRIDO(4,3-B)CARBAZOLE, 5-(HYDROXYMETHYL)-11-METHYL- □ 6H-PYRIDO(4,3-B)CARBAZOLE-5-METHANOL, 11-METHYL-**TOXICITY DATA with REFERENCE:**

dni-hmn-hla 25 mg/L JMCMA 30,1204,1987

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**HMH100 CAS: 108320-79-2 HR: D**
**5-(HYDROXYMETHYL)-11-METHYL-6H-
PYRIDO(4,3-B)CARBAZOLE N-METHYL-
CARBAMATE**mf: C₁₉H₁₇N₃O₂ mw: 319.39**SYNS:** 6H-PYRIDO(4,3-B)CARBAZOLE, 5-(HYDROXYMETHYL)-11-METHYL-, METHYLCARBAMATE □ 6H-PYRIDO(4,3-B)CARBAZOLE-5-METHANOL, 11-METHYL-, METHYLCARBAMATE □ 6H-PYRIDO(4,3-B)CARBAZOLE-5-METHANOL, 11-METHYL-, METHYLCARBAMATE (ESTER)**TOXICITY DATA with REFERENCE:**

dni-hmn-hla 5 mg/L JMCMA 30,1204,1987

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**HMH300 CAS: 147-61-5 HR: 1**
5-HYDROXYMETHYL-4-METHYLURACILmf: C₆H₈N₂O₃ mw: 156.16**SYNS:** 5-HYDROXYMETHYL-6-METHYL-2,4(1H,3H)-PYRIMIDINEDIONE □ 5-HYDROXYMETHYL-6-METHYLURACIL □ 4-METHYL-5-HYDROXYMETHYLURACIL □ 4-METHYL-5-OXYMETHYLURACIL □ PENTOKSIL □ PENTOXIL □ PENTOXYL □ 2,4(1H,3H)-PYRIMIDINEDIONE, 5-(HYDROXYMETHYL)-6-METHYL- (9CI) □ URACIL, 5-(HYDROXYMETHYL)-6-METHYL-**TOXICITY DATA with REFERENCE:**

par-rat TDLo:500 mg/kg (female 10D post):TER AAGEAA 65(11),19,73

orl-rat LD50:5 g/kg RPTOAN 51,100,88

SAFETY PROFILE: Slightly toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.**HMH500 CAS: 5985-35-3 HR: 3**
**dl-3-HYDROXY-N-METHYLMORPHINAN
HYDROBROMIDE**mf: C₁₇H₂₃NO•BrH mw: 338.33**PROP:** Crystals. Mp: 193–195°. Sol in water; very sltly sol in alc; insol in ether.**SYNS:** DROMORAN-HYDROBROMIDE □ (+-)-17-METHYLMORPHINAN-3-OL HYDROBROMIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:350 mg/kg JPETAB 109,189,53

scu-rat LD50:108 mg/kg AIPTAK 85,387,51

orl-mus LD50:375 mg/kg JPETAB 109,189,53

ipr-mus LD50:120 mg/kg JPETAB 99,163,50

scu-mus LD50:108 mg/kg ANESAV 12,225,51

ivn-mus LD50:33 mg/kg AIPTAK 85,387,51

ivn-rbt LD50:19 mg/kg AIPTAK 85,387,51

SAFETY PROFILE: Poison by ingestion, subcutaneous, intraperitoneal and intravenous routes. A narcotic analgesic. When heated to decomposition it emits very toxic fumes of NO_x and HBr. See also BROMIDES.**HMI000 CAS: 483-55-6 HR: 3**
**2-HYDROXY-3-METHYL-1,4-NAPHTHO-
QUINONE**mf: C₁₁H₈O₃ mw: 188.19**PROP:** Yellow needles from hexane. Mp: 173–174°.**SYNS:** 3-HYDROXY-2-METHYL-1,4-NAPHTHOQUINONE □ 2-METHYL-3-HYDROXY-1,4-NAPHTHOQUINONE □ PHTHIOL**TOXICITY DATA with REFERENCE:**

dni-hmn:hla 4 mmol/L MUREAV 93,447,82

orl-mus LDLo:200 mg/kg PSEBAA 43,125,40

ipr-mus LDLo:150 mg/kg PSEBAA 43,125,40

ipr-ckn LDLo:100 mg/kg PSEBAA 43,125,40

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Human mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**HMI100 CAS: 43192-03-6 HR: D**
**N-HYDROXY-4-METHYL-3-NITROBENZEN-
AMINE**mf: C₇H₈N₂O₃ mw: 168.17**SYNS:** BENZENAMINE, N-HYDROXY-4-METHYL-3-NITRO- □ 4-(HYDROXYLAMINO)-2-NITROTOLUENE □ N-(3-NITRO-4-METHYLPHENYL)HYDROXYLAMINE**TOXICITY DATA with REFERENCE:**

mic-sat 1 μmol/plate MUREAV 420,27,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**HMI500 CAS: 18857-59-5 HR: 2**
**3-HYDROXYMETHYL-1-((3-(5-NITRO-2-
FURYL)ALLYLIDENE)AMINO)HYDANTOIN**mf: C₁₁H₁₀N₄O₆ mw: 294.25**PROP:** A solid. Mp: 195–198°.**TOXICITY DATA with REFERENCE:**

orl-rat TDLo:51 g/kg/49W-C:CAR CNREA8 33,2894,73

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

HMJ000 CAS: 4812-40-2 HR: D
2-HYDROXYMETHYL-5-NITROIMIDAZOLE-1-ETHANOL

mf: C₆H₉N₃O₄ mw: 187.18

SYN: 1-(2-HYDROXYETHYL)-2-HYDROXYMETHYL-5-NITROIMIDAZOLE

TOXICITY DATA with REFERENCE:

mno-sat 500 µg/L AMACQ 10,476,76

mma-sat 100 µg/plate CMMUO 4,171,76

mno-klp 10 µmol/L/20H MUREAV 66,207,79

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HMJ500 CAS: 126-11-4 HR: 3
2-HYDROXYMETHYL-2-NITROPROPANE-1,3-DIOL

mf: C₄H₉NO₅ mw: 151.14

PROP: Crystals from EtOAc/C₆H₆. Mp: 214° (pure), bp: decomp. Sltly sol in C₆H₆; sol in H₂O.

SYNS: CIMCOOL WAFERS □ 2-HYDROXYMETHYL-2-NITROPROPANE-1,3-DIOL □ ISOBUTYLGLYCEROL, NITRO- □ METHANE, TRIMETHYLOLNITRO- □ 2-NITRO-2-(HYDROXY-METHYL)-1,3-PROPANEDIOL □ TRIHYDROXYMETHYL-NITROMETHANE □ TRIMETHYLOLNITROMETHANE □ TRIS(HYDROXYMETHYL)NITROMETHANE □ TRIS NITRO

TOXICITY DATA with REFERENCE:

orl-rat LD50:1900 mg/kg IMSUAI 39,56,70

orl-mus LD50:1900 mg/kg PCOC** -,1198,66

ipr-mus LD50:4000 mg/kg KHFZAN 11(1),73,77

orl-rbt LDLo:250 mg/kg JIHTAB 22,315,40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal route. Probably an irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

HMJ600 CAS: 112725-15-2 HR: D
1-HYDROXY-3-(METHYLNITROSAMINO)-2-PROPANONE ACETATE (ESTER)

mf: C₆H₁₀N₂O₄ mw: 174.18

SYNS: ACETIC ACID, 3-(METHYLNITROSAMINO)-2-OXOPROPYL ESTER □ N-METHYL-N-(1-ACETOXY-2-OXOPROPYL)NITROSAMINE □ 2-PROPANONE, 1-(ACETYLOXY)-1-(METHYLNITROSAMINO)-(9CI) □ 2-PROPANONE, 1-HYDROXY-3-(METHYLNITROSAMINO)-, ACETATE(ESTER)

TOXICITY DATA with REFERENCE:

mic-sat 10 nmol/plate CALEDQ 36,325,1987

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HMK000 CAS: 24356-60-3 HR: 2
3-(HYDROXYMETHYL)-8-OXO-7-(2-(4-PYRIDYLTHIO)ACETAMIDO)-5-THIA-1-AZABICYCLO(4,2,0)OCT-2-ENE-2-CARBOXYLIC ACID ACETATE(ESTER),

MONOSODIUM SALT

mf: C₁₇H₁₇N₃O₆S₂•Na mw: 446.48

PROP: Crystals or powder.

SYNS: BLP 1322 □ CEFADYL □ CEFALOBJECT □ CEFAPIRIN SODIUM □ CEFAPRIN SODIUM □ CEFATREXYL □ CEPHALOTHIN SODIUM □ CEPHATREXYL □ SODIUM CEFAPIRIN □ SODIUM CEPHAPIRIN

TOXICITY DATA with REFERENCE:

ims-dog TDLo:24 g/kg (30D pre):REP OYYAA2 9,11,75
 ivn-man TDLo:7429 µg/kg/8W-I:KID DICPBB 21,380,87
 ims-man TDLo:350 mg/kg/6D:BLD,MET AMACQ 1,174,72

orl-rat LD50:16,356 mg/kg NIIRDN 6,405,82

ipr-rat LD50:7850 mg/kg NIIRDN 6,405,82

ivn-rat LD50:4580 mg/kg ARZNAD 29,424,79

orl-mus LD50:26,088 mg/kg NIIRDN 6,405,82

ipr-mus LD50:8899 mg/kg NIIRDN 6,405,82

scu-mus LD50:13,556 mg/kg NIIRDN 6,405,82

ivn-mus LD50:4600 mg/kg ARZNAD 29,424,79

ivn-dog LD50:2500 mg/kg ARZNAD 29,424,79

ivn-rbt LD50:3000 mg/kg ARZNAD 29,424,79

SAFETY PROFILE: Moderately toxic by intravenous route. Human systemic effects by intramuscular route: fever, white blood cell effects (angranulocytosis), interstitial nephritis. Mildly toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x, Na₂O, and SO_x. See also ESTERS.

HMK050 CAS: 54693-46-8 HR: 3
4-HYDROXY-4-METHYL-2-PENTANONE PEROXIDE

SYN: DIACETONE ALCOHOL PEROXIDES, >57% in solution with >9% hydrogen peroxide (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: An unstable substance forbidden for transport. When heated to decomposition it emits acrid smoke and irritating vapors.

HMK100 CAS: 90-01-7 HR: D
2-HYDROXYMETHYLPHENOL

mf: C₇H₈O₂ mw: 124.15

PROP: Needles or plates from H₂O or Et₂O. D: 1.16 @ 25°, mp: 87°.

SYNS: BENZENEMETHANOL, 2-HYDROXY- (9CI) □ BENZYL ALCOHOL, o-HYDROXY- □ DIATHESIN □ α-2-DIHYDROXY-TOLUENE □ 2-HYDROXYBENZENEMETHANOL □ o-HYDROXYBENZYL ALCOHOL □ 2-HYDROXYBENZYL ALCOHOL □ o-(HYDROXYMETHYL)PHENOL □ o-METHYLOLPHENOL □ 2-METHYLOLPHENOL □ SAL □ SALICYL ALCOHOL □ SALIGENIN □ SALIGENOL

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

HMK150 CAS: 73599-93-6 HR: 3
HYDROXYMETHYL 1-PHENYL-3-ADAMANTYL KETONE

mf: C₁₈H₂₂O₂ mw: 270.40

SYN: ETHANONE, 2-HYDROXY-1-(1-PHENYL-3-ADAMANTYL)-

TOXICITY DATA with REFERENCE:

unr-mus LD50:680 mg/kg RPTOAN 43,73,80

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by an unreported route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

HMK200 CAS: 13911-65-4 HR: 3
HYDROXYMETHYLPHENYLARSINE OXIDE

mf: C₇H₉AsO₂ mw: 200.08

PROP: White needles from CHCl₃. Mp: 176°, bp: 151–152° @ 0.1 mm.

SYNS: ARSENIC ACID, METHYLPHENYL-(9CI) □ ARSINE OXIDE, HYDROXYMETHYLPHENYL- □ METHYLPHENYLARSINIC ACID □ METHYLPHENYLARSONIC ACID

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#05108

OSHA PEL: TWA 0.5 mg(As)/m³

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of As.

HML500 CAS: 2440-22-4 HR: 1
2-(2-HYDROXY-5-METHYLPHENYL)BENZOTRIAZOLE

mf: C₁₃H₁₁N₃O mw: 225.27

PROP: A solid. Mp: 131–132°.

SYNS: BENAZOL P □ 2-(2H-BENZOTRIAZOL-2-YL)-4-METHYLPHENOL □ DROMETRIZOLE □ TIN P □ TINUVIN P □ UV ABSORBER-1

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,146,72

orl-mus LD50:6500 mg/kg GTPZAB 10(3),49,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

HMM500 CAS: 32780-64-6 HR: 3
5-(1-HYDROXY-2-((1-METHYL-3-PHENYL-PROPYL)AMINO)ETHYL)SALICYLAMIDE HYDROCHLORIDE

mf: C₁₉H₂₄N₂O₃•ClH mw: 364.91

SYNS: AH 5158A □ AMIPRESS □ IPOLAB □ LabelOL □ LABETALOL HYDROCHLORIDE □ LABROCOL □ NORMAD-ATE □ NORMODYNE □ PRESDATE □ PRESSALOLO □ SALICYLAMIDE, 5-(1-HYDROXY-2-((1-METHYL-3-PHENYL-PROPYL)AMINO)ETHYL)-, HYDROCHLORIDE □ SCH 15719W □ TRANDATE

TOXICITY DATA with REFERENCE:

orl-wmn LDLo:244 mg/kg/76D-I:SYS,PUL AJMEAZ 87,235,89

orl-wmn LDLo:360 mg/kg/60D-I:SYS AIMEAS 113,210,90

orl-man LDLo:1620 mg/kg/27W-I:GIT AIMEAS 113,210,90

orl-wmn TDLo:53 mg/kg/53D-I:SYS,SKN AIMEAS 113,210,90

orl-rat LD50:2114 mg/kg KSRNAM 21,6307,87

ipr-rat LD50:107 mg/kg HOIZAK 53,15,78

ivn-rat LD50:53 mg/kg HOIZAK 53,15,78

orl-mus LD50:1450 mg/kg HOIZAK 53,15,78

ipr-mus LD50:114 mg/kg HOIZAK 53,15,78

ivn-mus LD50:47 mg/kg HOIZAK 53,15,78

orl-rbt LD50:1250 mg/kg HOIZAK 53,15,78

ivn-rbt LD50:41 mg/kg HOIZAK 53,15,78

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. Human systemic effects: changes in urine composition, dermatitis, gastrointestinal changes, hepatocellular effects, jaundice, and liver function tests impaired. Used as an antihypertensive agent. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

HMN000 CAS: 32949-37-4 HR: 3
2-HYDROXYMETHYL-6-PHENYL-3-PYRIDAZONE

mf: C₁₁H₁₀N₂O₂ mw: 202.23

SYNS: 2-(HYDROXYMETHYL)-6-PHENYL-3(2H)-PYRIDAZINONE □ PP-12

TOXICITY DATA with REFERENCE:

orl-mus LD50:1260 mg/kg OYYAA2 4,195,70

ipr-mus LD50:405 mg/kg OYYAA2 4,195,70

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A powerful explosive which becomes impact-sensitive when heated. When heated to decomposition it emits toxic fumes of NO_x.

HMN100 CAS: 91480-97-6 HR: 3
1-(4-HYDROXY-2-METHYL-5-PHENYL-1H-PYRROL-3-YL)ETHANONE

mf: C₁₃H₁₃NO₂ mw: 215.27

SYNS: ETHANONE, 1-(4-HYDROXY-2-METHYL-5-PHENYL-1H-PYRROL-3-YL)- □ KETONE, (4-HYDROXY-2-METHYL-5-PHENYL-1H-PYRROL-3-YL) METHYL

TOXICITY DATA with REFERENCE:

orl-mus LD50:1 g/kg FRPSAX 39,538,84

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Low toxicity by ingestion. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

HMP000 CAS: 5756-69-4 HR: 2
3-HYDROXY-3-METHYL-1-PHENYLTRIAZENE

mf: C₇H₉N₃O mw: 151.19

PROP: Crystals. Mp: 69°. Sol in EtOH, Me₂CO, and H₂O.

SYNS: 1-PHENYL-3-METHYL-3-HYDROXY-TRIAZEN (GERMAN) □ 1-PHENYL-3-METHYL-3-HYDROXY-TRIAZENE

TOXICITY DATA with REFERENCE:

scu-rat TDLo:420 mg/kg;CAR ZKKOBW 81,285,74

scu-rat LD50:550 mg/kg ZKKOBW 81,285,74

SAFETY PROFILE: Moderately toxic by subcutaneous route. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

HMP100 CAS: 118-29-6 HR: D
N-(HYDROXYMETHYL)PHTHALIMIDE

mf: C₉H₇NO₃ mw: 177.17**PROP:** Crystals. Mp: 142–145°.**SYNS:** HYDROXYMETHYLPHthalimide □ 1H-ISOINDOLE-1,3(2H)-DIONE, 2-(HYDROXYMETHYL)- □ N-METHYLOL-PHTHALIMIDE □ OXYMETHYLPHthalimide □ PHTHALIMIDE, N-(HYDROXYMETHYL)- □ PHTHALIMIDOMETHYLALCOHOL**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.**HMQ000 CAS: 1172-82-3 HR: D
17-HYDROXY-6-METHYLPREGN-4-ENE-3,20-DIONE ACETATE**mf: C₂₃H₃₄O₄ mw: 385.57**SAFETY PROFILE:** Experimental reproductive effects. A steroid. When heated to decomposition it emits acrid smoke and fumes.**HMQ100 CAS: 7473-98-5 HR: 2
α-HYDROXY-α-METHYLPROIOPHENONE**mf: C₁₀H₁₂O₂ mw: 164.22**SYNS:** 2-BENZOYL-2-HYDROXYPROPANE □ 2-BENZOYL-2-PROPANOL □ DAROCUR 1173 □ DC 1173 □ EM 1173 □ α-HYDROXY-α,α-DIMETHYLACETOPHENONE □ α-HYDROXYISOBUTYROPHENONE □ 1-HYDROXY-1-METHYLETHYL PHENYL KETONE □ 2-HYDROXY-2-METHYL-1-PHENYL-1-PROPANONE □ I 1173 □ IRGACURE 1173 □ 1-PHENYL-2-HYDROXY-2-METHYL-1-PROPANONE □ 1-PROPANONE, 2-HYDROXY-2-METHYL-1-PHENYL- □ PROIOPHENONE, 2-HYDROXY-2-METHYL- □ UV 1173**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1694 mg/kg NTIS** OTS0556311

skn-rat LD50:6929 mg/kg NTIS** OTS0556311

ipr-rat LD50:824 mg/kg NTIS** OTS0556311

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Low toxicity by skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.**HMQ500 CAS: 65229-18-7 HR: 2
d-N,N'-(1-YDROXYMETHYLPROPYL)ETHYLENEDINITROSAMINE**mf: C₁₀H₂₂N₄O₄ mw: 262.36**SYNS:** DDETA □ 2,2'-(ETHYLENEBIS(NITROSOIMINO))-BISBUTANOL □ d-N,N'-(1-IDROSSIMETIL PROPIL)ETILEN-DINITROSAMINA (ITALIAN)**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.**HMQ550 CAS: 24471-48-5 HR: D
2-HYDROXYMETHYLPYRENE**mf: C₁₇H₁₂O mw: 232.29**SYN:** 2-PYRENEMETHANOL**TOXICITY DATA with REFERENCE:**

mic-bac-sat 50 μmol/L CRNGDP 15,2605,94

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HMQ575 CAS: 4372-46-7 HR: 2
5-HYDROXY-6-METHYL-3,4-PYRIDINEDICARBINOL TRIPALMITATE**mf: C₅₆H₁₀₁NO₆ mw: 884.58**SYNS:** HEXADECANOIC ACID, (6-METHYL-5-((1-OXOHXADECYL)OXY)-3,4-PYRIDINEDIYL)BIS(METHYLENE) ESTER □ 3-HYDROXY-4,5-DIMETHYLOL-α-PICOLINE TRIS(HEXADECANOATE) □ PALMITIC ACID, TRIESTER WITH PYRIDOXOL □ PYRIDOXOL, TRIPALMIATE (ESTER) □ PYRIDOXINE TRIPALMITATE □ VITAMIN B6 TRIPALMITATE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:650 mg/kg FATOAO 40,371,1977

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.**HMQ600 CAS: 826-81-3 HR: D
8-HYDROXY-2-METHYLQUINOLINE**mf: C₁₀H₉NO mw: 159.20**SYNS:** HYDROXYQUINALDINE □ 8-HYDROXYQUINALDINE □ 2-METHYL-8-HYDROXYQUINOLINE □ 2-METHYLOXINE □ 2-METHYL-8-QUINOLINOL □ 8-QUINOLINOL, 2-METHYL-**TOXICITY DATA with REFERENCE:**

mma-sat 500 nmol/plate MUREAV 42,335,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**HMR500 CAS: 1677-46-9 HR: 3
4-HYDROXY-1-METHYL-2-QUINOLONE**mf: C₁₀H₉NO₂ mw: 175.20**SYNS:** 4-HYDROXY-1-METHYLCARBOSTYRIL □ 1-METHYL-4-HYDROXY-2-CHINOLON (CZECH) □ N-METHYL-4-HYDROXYKARBOSTYRIL (CZECH)**TOXICITY DATA with REFERENCE:**

eye-rbt 100 mg/24H MOD 28ZPAK -,149,72

ivn-mus LD50:180 mg/kg CSLNX* NX#01354

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Mildly toxic by ingestion. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x.**HMR550 CAS: 17773-41-0 HR: 3
2-HYDROXY-4-(METHYLTHIO)BUTANENITRILE**mf: C₅H₉NOS mw: 131.21**SYNS:** CP 4517 □ BUTANENITRILE, 2-HYDROXY-4-(METHYLTHIO)- □ METHYLTHIOPROPIONIC CYANOHYDRIN □ MHA NITRILE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 μL/24H MOD NTIS** OTS0534843

orl-rat LD50:48 mg/kg NTIS** OTS0571109

ihl-rat LCLo:50 g/m³/3M NTIS** OTS0534843

skn-rbt LDLo:126 mg/kg NTIS** OTS0534843

SAFETY PROFILE: A poison by ingestion and skin contact. Low toxicity by ingestion, inhalation. A moderate

skin irritant. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

HMR600 CAS: 583-91-5 HR: 2
2-HYDROXY-4-(METHYLTHIO)BUTANOIC ACID

mf: C₅H₁₀O₃S mw: 150.21

SYNS: ALIMET □ BUTANOIC ACID, 2-HYDROXY-4-(METHYLTHIO)-(9CI) □ BUTYRIC ACID, 2-HYDROXY-4-(METHYLTHIO)- □ METHIONINE HYDROXY ANALOG □ MHA ACID □ MHA-FA

TOXICITY DATA with REFERENCE:

orl-rat LD50:3478 mg/kg TOLED5 31(Suppl),54,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of SO_x.

HMS500 CAS: 23395-20-2 HR: 2
1-(HYDROXYMETHYL)-2,8,9-TRIOXA-5-AZA-1-SILABICYCLO(3.3.3) UNDECANE-METHACRYLATE

mf: C₁₁H₁₉NO₅Si mw: 273.40

SYN: METHAKRYLOXYMETHYLSILATRAN (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,220,72

eye-rbt 100 mg/24H SEV 28ZPAK -,220,72

orl-rat LD50:7950 mg/kg 28ZPAK -,220,72

SAFETY PROFILE: Mildly toxic by ingestion. A skin and severe eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

HMS875 HR: 3
3-HYDROXY-α-METHYL-L-TYROSINE-1-(2,2-DIMETHYL-1-OXOPROPOXY)ETHYL ESTER PHOSPHATE HYDRATE

mf: C₁₇H₂₅NO₆•H₃O₄P mw: 455.45

SYN: MK-872

TOXICITY DATA with REFERENCE:

orl-rat LD50:1879 mg/kg DRFUD4 10,563,85

ipr-rat LD50:150 mg/kg DRFUD4 10,563,85

orl-mus LD50:2780 mg/kg DRFUD4 10,563,85

ivn-mus LD50:187 mg/kg DRFUD4 10,563,85

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of PO_x and NO_x.

HMU000 CAS: 32766-75-9 HR: 2
N-HYDROXY-N-MYRISTOYL-2-AMINO-FLUORENE

mf: C₂₇H₃₇NO₂ mw: 407.65

SYNS: N-FLUOREN-2-YL-N-TETRADECANOYLHYDROXAMIC ACID □ N-HYDROXY-N-TETRADECANOYL-2-AMINO-FLUORENE

TOXICITY DATA with REFERENCE:

mma-sat 20 nmol/plate CNREA8 37,1461,77

scu-rat TDLo:104 mg/kg/5W-I:NEO CNREA8 37,1461,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HMU200 CAS: 708-06-5 HR: 2
2-HYDROXYNAPHTHALDEHYDE

mf: C₁₁H₈O₂ mw: 172.19

SYNS: β-HYDROXYNAPHTHALDEHYDE □ 2-HYDROXY-1-NAPHTHALENECARBOXALDEHYDE □ 1-NAPHTH-ALDEHYDE, 2-HYDROXY- □ 1-NAPHTHALENE-CARBOXALDEHYDE, 2-HYDROXY-(9CI)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:710 mg/kg GISAAA 51(1),85,86

ipr-mus LD50:1170 mg/kg GISAAA 51(1),85,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

HMU500 CAS: 93-01-6 HR: 3
6-HYDROXY-2-NAPHTHALENESULFONIC ACID

mf: C₁₀H₈O₄S mw: 224.24

PROP: Crystals. Mp: 129° (monohydrate), mp: 118° (dihydrate), mp: 167° (anhyd).

SYNS: 2-HYDROXY-6-NAPHTHALENESULFONIC ACID □ β-NAPHTHOLSULFONIC ACID S □ β-NAPHTHOL-6-SULFONIC ACID □ 2-NAPHTHOL-6-SULFONIC ACID □ 2-NAPHTOL-6-SULFOSAURE (GERMAN) □ SCHAEFFER'S-β-NAPHTHOLSULFONIC ACID

TOXICITY DATA with REFERENCE:

orl-mus LDLo:250 mg/kg ZHINAV 64,113,1909

scu-mus LDLo:650 mg/kg ZHINAV 64,113,1909

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of SO_x. See also SULFONATES.

HMU600 CAS: 210828-80-1 HR: 3
3-(6-HYDROXY-2-NAPHTHALENYL)-1,2-DI-METHYL (2R,3S)-REL-3-PYRROLIDINOLY-DROCHLORIDE

mf: C₁₆H₁₉NO₂•ClH mw: 293.79

TOXICITY DATA with REFERENCE:

scu-mus TDLo:4.63 mg/kg FRMCE8 55,611,2000

SAFETY PROFILE: A poison by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.

HMV000 CAS: 1491-41-4 HR: 3
N-HYDROXYNAPHTHALIMIDE, DIETHYL PHOSPHATE

mf: C₁₆H₁₆NO₆P mw: 349.30

PROP: Tan, crystalline powder from EtOH. Mp: 177.0°. Sol in methylene chloride; difficultly sol in most org solvs.

SYNS: B-9002 □ BAYER 25820 □ CHEMAGRO B-9002 □ 2-((DIETHOXYPHOSPHINYL)OXY)-1H-BENZ(de)ISOQUINOLINE-1,3(2H)-DIONE □ O,O-DIETHYL N-HYDROXYNAPH-

THALIMIDE PHOSPHATE □ ENT 25,567 □ N-HYDROXYNAPHTHYLIMIDE DIETHYL PHOSPHATE □ MARETIN □ NAFTALOFOS □ NAPHTHALOPHOS □ PHOSPHORIC ACID, DIETHYL ESTER-N-NAPHTHALIMIDE derivative □ PHOSPHORIC ACID, DIETHYL ESTER, NAPHTHALIMIDO derivative □ PHTALOPHOS □ RAMETIN □ RAWETIN □ S 940

TOXICITY DATA with REFERENCE:

orl-rat LD50:70 mg/kg WRPCA2 9,119,70
 skn-rat LD50:140 mg/kg SPEADM 78-1,45,78
 orl-mus LD50:50 mg/kg ARSIM* 20,3,66
 orl-ckn LD50:43 mg/kg TXAPA9 11,49,67
 orl-dom LDLo:200 mg/kg FAZMAE 17,108,73

SAFETY PROFILE: A poison by ingestion and skin contact. A pesticide used in veterinary medicine as a ruminant anthelmintic. A cholinesterase inhibitor. When heated to decomposition it emits toxic fumes of NO_x and PO_x. See also PARATHION.

HMW500 CAS: 3665-51-8 HR: 2
3-HYDROXY-2-NAPHTHAMIDE

mf: C₁₁H₉NO₂ mw: 187.21

TOXICITY DATA with REFERENCE:

ipr-rat LD50:2000 mg/kg JPETAB 108,450,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.

HMX000 CAS: 567-47-5 HR: 2
2-HYDROXYNAPHTHENESULFONIC ACID

mf: C₁₀H₈O₄S mw: 224.24

PROP: Sol in H₂O.

SYN: KYSELINA-2-NAFTOL-1-SULFONOVA (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,186,72
 eye-rbt 100 mg/24H MOD 28ZPAK -,186,72
 orl-rat LD50:3170 mg/kg 28ZPAK -,186,72

SAFETY PROFILE: Moderately toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits toxic fumes of SO_x.

HMX500 CAS: 2283-08-1 HR: 3
2-HYDROXY-1-NAPHTHOIC ACID

mf: C₁₁H₈O₃ mw: 188.19

PROP: Yellow, needle-like crystals from EtOH. Mp: 156–157° (decomp). Sltly sol in hot water; sol in alc, benzene, ether, and chloroform.

SYNS: 2-NAPHTHOL-3-CARBOXYLIC ACID □ β-OXYNAPHTHOIC ACID

TOXICITY DATA with REFERENCE:

ipr-mus LD50:125 mg/kg 14CYAT 2,1840,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes.

HMX520 CAS: 92-70-6 HR: 3
3-HYDROXY-2-NAPHTHOIC ACID

mf: C₁₁H₈O₃ mw: 188.19

SYNS: BON □ BONA □ BON ACID □ C.I. DEVELOPER 8 □ C.I. DEVELOPER 20 (obs.) □ DEVELOPER BON □ 3-HYDROXY-2-NAPHTHALENECARBOXYLIC ACID □ KYSELINA 3-HYDROXY-2-NAFTOOVA □ MIKETAZOL DEVELOPER ONS □ 2-NAPHTHALENECARBOXYLIC ACID, 3-HYDROXY-(9CI) □ 2-NAPHTHOIC ACID, 3-HYDROXY- □ NAPHTHOL B.O.N.

TOXICITY DATA with REFERENCE:

scu-rat LDLo:376 mg/kg AIPTAK 176,193,68

orl-mus LD50:800 mg/kg 85JCAE -,663,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HMX600 CAS: 83-72-7 HR: 3
2-HYDROXYNAPHTHOQUINONE

mf: C₁₀H₆O₃ mw: 174.16

SYNS: C.I. 75480 □ C.I. NATURAL ORANGE 6 □ FLOWER of PARADISE □ HANA □ HENNA □ 2-HYDROXY-1,4-NAPHTHALENE-1,4-DIONE □ 2-HYDROXY-1,4-NAPHTHOQUINONE □ LAWSONE □ 1,4-NAPHTHALENE-1,4-DIONE, 2-HYDROXY-(9CI) □ 1,4-NAPHTHOQUINONE, 2-HYDROXY- □ MEHENDI □ MENDI

TOXICITY DATA with REFERENCE:

mma-sat 33 µg/plate ENMUDM 8(Suppl 7),1,86

ipr-mus LD50:100 mg/kg JMCAR 26,570,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HMX700 CAS: 97-51-8 HR: 2
2-HYDROXY-5-NITROBENZALDEHYDE

mf: C₇H₅NO₄ mw: 167.13

SYNS: BENZALDEHYDE, 2-HYDROXY-5-NITRO- □ 5-NITROSALICYLALDEHYDE □ SALICYLALDEHYDE, 5-NITRO-(6CI,7CI,8CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:799 mg/kg NTIS** OTS0533615

orl-mus LD50:672 mg/kg NTIS** OTS0533628

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by route. When heated to decomposition it emits toxic vapors of NO_x.

HMY000 CAS: 121-19-7 HR: 3
4-HYDROXY-3-NITROBENZENEARSONIC ACID

mf: C₆H₆AsNO₆ mw: 263.05

PROP: Pale-yellow needles or plates from H₂O. Sltly sol in hot H₂O; insol in Et₂O and EtOAc; very sol in MeOH, EtOH, and Me₂CO.

SYNS: AKLOMIX-3 □ 4-HYDROXY-3-NITROPHENYLARSONIC ACID □ NCI-C56508 □ 3N4HPA □ NITRO ACID 100 percent □ 2-NITRO-1-HYDROXYBENZENE-4-ARSONIC ACID □ 3-NITRO-4-HYDROXYBENZENEARSONIC ACID □ 3-NITRO-4-HYDROXY-PHENYLARSONIC ACID □ NITROPHENOL-ARSONIC ACID □ NSC-2101 □ REN O-SAL □ RISTAT □ ROXARSONE (USDA)

TOXICITY DATA with REFERENCE:

msc-mus:lyms 400 mg/L NTPTR* NTP-TR-345,89

orl-rat TDLo:2920 mg/kg/2Y-C:ETA NTPTR* NTP-TR-345,89

orl-rat LD50:81 mg/kg NTPTR* NTP-TR-345,89
 orl-mus LD50:244 mg/kg NTPTR* NTP-TR-345,89
 orl-dog LDLo:50 mg/kg TXAPA9 5,507,63
 orl-ckn LD50:110 mg/kg TXAPA9 5,507,63
 ipr-ckn LD50:34 mg/kg TXAPA9 5,507,63
 orl-trk LD50:61 mg/kg TXAPA9 5,507,63

CONSENSUS REPORTS: NTP Carcinogenesis Studies (Feed); Equivocal Evidence rat NTPTR* NTP-TR-345,89; (Feed); No Evidence mouse NTPTR* NTP-TR-345,89. Arsenic and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.5 mg(As)/m³

ACGIH TLV: BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mutation data reported. Questionable carcinogen. When heated to decomposition it emits very toxic fumes of NO_x and As. See also ARSENIC COMPOUNDS.

HM5050 HR: 3
4-HYDROXY-3-NITROBENZENESULFONYL CHLORIDE

mf: C₆H₄ClNO₂S mw: 237.61
 HO(O₂N)C₆H₃SO₂Cl

SAFETY PROFILE: Decomposes very exothermically at 24°C. Upon decomposition it emits toxic fumes of Cl⁻, SO_x, and NO_x.

HM5075 CAS: 99-42-3 HR: 2
4-HYDROXY-3-NITROBENZOIC ACID METHYL ESTER

mf: C₈H₇NO₅ mw: 197.16
SYN: BENZOIC ACID, 4-HYDROXY-3-NITRO-, METHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LDLo:2500 mg/kg EPASR* 8EHQ-0287-0657S
 skn-rat LD50:>2 g/kg EPASR* 8EHQ-0287-0657S

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Slightly toxic by contact. When heated to decomposition it emits toxic vapors of NO_x.

HM5080 CAS: 28149-15-7 HR: D
9-HYDROXY-2-NITROFLUORENE

mf: C₁₃H₉NO₃ mw: 227.23
SYNS: 9H-FLUOREN-9-OL, 2-NITRO- □ 2-NITRO-9H-FLUOREN-9-OL

TOXICITY DATA with REFERENCE:

mor-ipr-rat 50 mg/kg MUREAV 369,147,1996
 add-ipr-rat 100 mg/kg MUREAV 369,147,1996

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HM5100 HR: D
3-HYDROXY-2-(5-NITRO-2-FURYL)-2H-1,3-BENZOXAZIN-4(3H)-ONE

mf: C₁₂H₈N₂O₆ mw: 276.22
SYN: 4H-2,3-DIHYDRO-2-(5'-NITRO-2'-FURYL)-3-HYDROXY-1,3-BENZOXALINE-4-ONE

TOXICITY DATA with REFERENCE:

mno-sat 20 µg/plate BBLADT 44,485,85
 mmo-esc 20 µg/plate BBLADT 44,485,85
 dnr-bcs 5 µg/plate BBLADT 44,485,85

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HM5500 CAS: 96-67-3 HR: 1
2-HYDROXY-5-NITROMETANILIC ACID

mf: C₆H₆N₂O₆S mw: 234.20

PROP: Prisms or needles. Mp: 285° (decomp).

SYNS: 3-AMINO-2-HYDROXY-5-NITRO-BENZENESULFONIC ACID □ KYSELINA-4-NITRO-2-AMINOFENOL-6-SULFONOVA (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H MOD 28ZPAK -,181,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFONATES.

HMZ100 CAS: 100836-60-0 HR: D
3-HYDROXYNITROSOCARBOFURAN

mf: C₁₂H₁₄N₂O₅ mw: 266.28

SYN: METHYLNITROSO-CARBAMIC ACID-2,3-DIHYDRO-2,2-DIMETHYL-3-HYDROXY-7-BENZOFURANYL ESTER

TOXICITY DATA with REFERENCE:

mno-sat 1 µg/plate JTEHD6 7,519,81
 cyt-ham:ovr 50 nmol/L JTEHD6 7,519,81
 sce-ham:ovr 500 nmol/L JTEHD6 7,519,81

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS, CARBAMATES, and ESTERS.

HNA000 CAS: 100700-12-8 HR: D
3-HYDROXY-4-(NITROSOCYANAMIDO)-BUTYRAMIDE

mf: C₅H₈N₄O₃ mw: 172.17

SYNS: γ-GUANIDINO-β-HYDROXYBUTYRIC ACID AMIDE, NITROSATED □ 4-(NITROSOCYANAMIDO)-3-HYDROXY-BUTYRAMIDE

TOXICITY DATA with REFERENCE:

mno-sat 400 nmol/L GANNA2 65,45,74

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

HNA500 CAS: 101913-96-6 HR: D
2-HYDROXY-6-(NITROSOCYANAMIDO)-HEXANAMIDE

mf: C₇H₁₂N₄O₃ mw: 200.23

SYN: HOMOARGININE, nitrosated

TOXICITY DATA with REFERENCE:

mno-sat 10 µmol/L GANNA2 65,45,74

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

HNB000 CAS: 525-05-3 HR: 3
2-HYDROXY-3-NITROSO-2,7-NAPHTHALENE-DISULFONIC ACID DISODIUM SALTmf: $C_{10}H_5NO_8S_2 \cdot 2Na$ mw: 377.26**PROP:** Golden-yellow crystals. Sol in H_2O .**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:320 mg/kg CSLNX* NX#05619

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits very toxic fumes of NO_x , Na_2O , and SO_x . See also SULFONATES.**HNB500 CAS: 30310-80-6 HR: 2**
trans-4-HYDROXY-1-NITROSO-L-PROLINEmf: $C_5H_8N_2O_4$ mw: 160.15**SYN:** N-NITROSOHYDROXYPROLINE**CONSENSUS REPORTS:** IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 17,303,78.**SAFETY PROFILE:** Questionable carcinogen. When heated to decomposition it emits toxic fumes of NO_x .**HNB550 CAS: 21567-21-5 HR: 3**
4-HYDROXYNONACHLORODIPHENYL ETHERmf: $C_{12}HCl_9O_2$ mw: 496.18**SYNS:** NONACHLORO-4-PHENOXYPHENOL □ PHENOL, 2,3,5,6-TETRACHLORO-4-(PENTACHLOROPHENOXY)- □ 2,3,5,6-TETRACHLORO-4-(PENTACHLOROPHENOXY)PHENOL**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:126 mg/kg JTEHD6 10,699,1982

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of Cl^- .**HNB600 CAS: 29343-52-0 HR: 3**
4-HYDROXY-2-NONENALmf: $C_9H_{16}O_2$ mw: 156.25**SYN:** 4-HYDROXYNONENAL**TOXICITY DATA with REFERENCE:**dni-gpg:oth 100 μ mol/L CBINA8 52,233,84oms-gpg:oth 100 μ mol/L CBINA8 52,233,84

ipr-rat LD50:35 mg/kg TOXID9 4,100,84

ipr-mus LD50:69 mg/kg ZolH## 23OCT75

SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**HNB700 CAS: 152322-55-9 HR: D**
trans-4-HYDROXY-2-NONENALmf: $C_9H_{16}O_3$ mw: 172.25**SYNS:** 3-(1-HYDROXYHEXYL)OXIRANECARBOXALDEHYDE (2- α -3- α (S*))-, □ OXIRANECARBOXALDEHYDE, 3-(1-HYDROXYHEXYL)-, (2- α -3- α (S*))-**TOXICITY DATA with REFERENCE:**

mic-bac-sat 25 nmol/plate CRNGDP 14,2073,93

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HNB875 CAS: 54-49-9 HR: 3****HYDROXYNOREPHEDRINE**mf: $C_9H_{13}NO_2$ mw: 167.23**SYNS:** 1- α -(1-AMINOETHYL)-m-HYDROXYBENZYL ALCOHOL□ ARAMINE □ BENZENEMETHANOL, α -(1-AMINOETHYL)-3-HYDROXY-, (R-(R*,S*))-(9CI) □ m-HYDROXY NOREPHEDRINE □ m-HYDROXYPROPADRINE □ ICORAL B □ METARADRINE □ METARAMINOL □ (-)-METARAMINOL □ 1-METARAMINOL □ PRESSONEX**TOXICITY DATA with REFERENCE:**

orl-rat LD50:240 mg/kg 27ZIAQ -,155,73

ipr-rat LD50:41 mg/kg 27ZIAQ -,155,73

scu-rat LD50:117 mg/kg 27ZIAQ -,155,73

orl-mus LD50:99 mg/kg 27ZIAQ -,155,73

scu-mus LD50:92 mg/kg 27ZIAQ -,155,73

ivn-mus LD50:51 mg/kg 27ZIAQ -,155,73

SAFETY PROFILE: A poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x .**HNC000 CAS: 33402-03-8 HR: 3**
1-m-HYDROXYNOREPHEDRINEmf: $C_9H_{13}NO_2 \cdot C_4H_6O_6$ mw: 317.33**PROP:** Crystals. Mp: 176–177°.**SYNS:** 1- α -(1-AMINOETHYL)-m-HYDROXYBENZYL ALCOHOL BITARTRATE □ (-)- α -(1-AMINOETHYL)-m-HYDROXYBENZYL ALCOHOL BITARTRATE □ 1- α -(1-AMINOETHYL)-m-HYDROXYBENZYL ALCOHOL HYDROGEN-d-TARTRATE □ ARAMINE □ 1-1-(m-HYDROXYPHENYL)-2-AMINO-1-PROPANOL-d-HYDROGEN TARTRATE □ METARAMINOL BITARTRATE □ METRAMINOL BITARTRATE □ d-(-)-METRAMINOL BITARTRATE □ 1-METRAMINOL BITARTRATE □ (-)-METRAMINOL (+)-BITARTRATE □ METARAMINOL TARTRATE (1:1) □ PRESSONEX □ PRESSONEX BITARTRATE □ PRESSOROL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:240 mg/kg NIIRDN 6,820,82

ipr-rat LD50:41 mg/kg NIIRDN 6,820,82

scu-rat LD50:117 mg/kg NIIRDN 6,820,82

ivn-rat LD50:3427 μ g/kg AIPTAK 281,89,86

orl-mus LD50:99 mg/kg NIIRDN 6,820,82

ipr-mus LD50:680 mg/kg TXAPA9 15,304,69

ivn-mus LD50:39 mg/kg NIIRDN 6,820,82

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x .**HNC500 CAS: 26698-66-8 HR: D**
17-HYDROXY-19-NOR-17- α -PREGN-4-EN-20-YN-3-ONE 1-ADAMANTANECARBOXYLATE (ESTER) OXIMEmf: $C_{32}H_{43}NO_3$ mw: 489.76**SYN:** 19-NOR-17- α -PREGN-4-EN-20-YN-3-ONE, 17-HYDROXY-, 1-ADAMANTANECARBOXYLATE (ESTER), OXIME**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x .**HND000 CAS: 78128-84-4 HR: 3**
4-HYDROXY-5-OCTYL-2(5H)FURANONEmf: $C_{12}H_{20}O_3$ mw: 212.32

SYN: γ -OCTYL- β -HYDROXY- $\Delta^{\alpha\beta}$ -BUTENOLID (GERMAN)

TOXICITY DATA with REFERENCE:

scu-mus LD50:550 mg/kg ARZNAD 11,277,61

ivn-mus LD50:160 mg/kg ARZNAD 11,277,61

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits acrid smoke and fumes.

HND100 CAS: 1843-05-6 HR: 1
2-HYDROXY-4-(OCTYLOXY)BENZOPHENONE

mf: $C_{21}H_{26}O_3$ mw: 326.47

SYNS: ADUVEX 248 \square ADVASTAB 46 \square ANTI-UV P \square BENZON 00 \square BENZOPHENONE 12 \square BENZOPHENONE, 2-HYDROXY-4-(OCTYLOXY)- \square BIOSORB 130 \square CARSTAB 700 \square CHIMASSORB 81 \square CYASORB UV 531 \square (2-HYDROXY-4-(OCTYLOXY)PHENYL)PHENYLMETHANONE \square 2-HYDROXY-4-OKTYLOXYBENZOFENON \square METHANONE, (2-HYDROXY-4-(OCTYLOXY)PHENYL)PHENYL-(9CI) \square OCTABENZONE \square SPECTRA-SORB UV 531 \square SUMISORB 130 \square UF 4 \square UV 1 \square UV 531 \square UVA 1 \square UVINUL 408

TOXICITY DATA with REFERENCE:

orl-rat LD50:>10 g/kg FCTXAV 6,199,68

orl-mus LD50:13 g/kg 85JCAE -,648,86

skn-rbt LD50:>10 g/kg FCTXAV 6,199,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Slightly toxic by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

HND150 CAS: 110516-60-4 HR: D
4-HYDROXY-2(OR 5)-ETHYL-5(OR 2)-METHYL-3(2H)-FURANONE

mf: $C_7H_{10}O_3$ mw: 142.17

SYNS: 2(OR 5)-ETHYL-4-HYDROXY-5(OR 2)-METHYL-3(2H)-FURANONE \square 3(2H)-FURANONE, 2(OR 5)-ETHYL-4-HYDROXY-5(OR 2)-METHYL-

TOXICITY DATA with REFERENCE:

mic-sat 2 mg/plate FCTOD7 36,305,1998

dnd-uns 20 μ mol/L FCTOD7 36,305,1998

mnt-orl-mus 1 g/kg MUREAV 415,79,1998

mnt-ipr-mus 500 mg/kg FCTOD7 36,305,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HND200 CAS: 474-74-8 HR: D
N-((3- α -5- β)-3-HYDROXY-24-OXOCHOLAN-24-YL)GLYCINE

mf: $C_{26}H_{43}NO_4$ mw: 433.70

SYNS: GLYCINE, N-(3- α -HYDROXY-5- β -CHOLAN-24-OYL)-(8CI) \square GLYCINE, N-((3- α -5- β)-3-HYDROXY-24-OXOCHOLAN-24-YL)- \square GLYCOLITHOCHOLIC ACID (6CI,7CI) \square LITHOCHOLIC ACID GLYCINE CONJUGATE \square LITHOCHOLYLGLYCINE

TOXICITY DATA with REFERENCE:

add-unr-lym 10 mg/L CRNGDP 15,1911,94

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .

HND250 CAS: 26911-39-7 HR: D
5-HYDROXY-4-OXO-I-NORVALINE

mf: $C_5H_9NO_4$ mw: 147.15

SYNS: (S)-2-AMINO-5-HYDROXY-4-OXOPENTANOIC ACID \square ANTIBIOTIC RI-331 \square LEVULINIC ACID, 2-AMINO-5-HYDROXY-, 1- \square I-NORVALINE, 5-HYDROXY-4-OXO- \square RI-331

TOXICITY DATA with REFERENCE:

dni-smc 1 μ mol/L DECRDP 14,467,1988

uns-smc 1 μ mol/L DECRDP 14,467,1988

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .

HND375 HR: 3
HYDROXYOXOPHENYL IODANIUM PERCHLORATE

mf: $C_6H_6ClO_6$ mw: 336.47

$C_6H_5I^+(O)OHCIO_4^-$

SAFETY PROFILE: An unstable explosive. Upon decomposition it emits toxic fumes of Cl^- and I^- . See also PERCHLORATES and IODIDES.

HND800 HR: D
3- β -HYDROXY-20-OXO-17- α -PREGN-5-ENE-16- β -CARBOXAMIDE ACETATE

mf: $C_{24}H_{34}NO_4$ mw: 400.59

SYN: 16- β -CARBOXAMIDE-3- β -ACETOXY- Δ^5 -(17- α)-ISOPREGNENE-20-ONE

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .

HND900 CAS: 68567-97-5 HR: 2
(+)-4-HYDROXY-2-OXO-1-PYRROLIDINE-ACETAMIDE

mf: $C_6H_{10}N_2O_3$ mw: 158.18

SYNS: (+)-OXIRACETAM \square 1-PYRROLIDINEACETAMIDE, 4-HYDROXY-2-OXO-, (+)-

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:>1 g/kg FRPSAX 39,16,1984

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x .

HNE400 CAS: 101565-05-3 HR: D
1-HYDROXY-3-n-PENTYL- Δ^8 -TETRAHYDRO-CANNABINOL

mf: $C_{21}H_{30}O_2$ mw: 314.51

SYNS: ABN- Δ^8 -THC \square 1-PENTYL-6,6,9-TRIMETHYL-6a,7,10,10a-TETRAHYDRO-6H-DIBENZO(b,d)PYRAN-3-OL

TOXICITY DATA with REFERENCE:

dni-mus:lng 1480 nmol/L CNREA8 36,95,76

dni-mus:leu 5 μ mol/L CNREA8 36,95,76

dni-mus:bmr 3560 nmol/L CNREA8 36,95,76

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and fumes. See also TETRAHYDROCANNABINOL.

HNE450 CAS: 64011-43-4 HR: 3
1-HYDROXY-2-PENTYNE-4-ONE

mf: $C_5H_6O_2$ mw: 98.11

SYNS: 4-PENTYN-2-ONE, 5-HYDROXY- \square TL 1150

TOXICITY DATA with REFERENCE:

orl-rat LDLo:50 mg/kg NCNSA6 5,9,53

ihl-mus LCLo:500 mg/m³/10M NDRC** No.9-4-1-19,43

SAFETY PROFILE: A poison by ingestion. Moderately toxic by inhalation. When heated to decomposition it emits acrid smoke and irritating vapors.

HNE500 CAS: 6305-04-0 HR: 3
4-HYDROXYPHENACYL CHLORIDE

mf: C₈H₇ClO₂ mw: 170.60

SYNS: ACETOPHENONE, 2-CHLORO-4'-HYDROXY-(6Cl,7Cl) □ p-(CHLOROACETYL)PHENOL □ 2-CHLORO-1-(4-HYDROXY-PHENYL)ETHANONE □ CHLOROPHENACYL □ ETHANONE, 2-CHLORO-1-(4-HYDROXYPHENYL)- □ p-HYDROXY-PHENACYL CHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg SEV JACTDZ 12,581,93

eye-rbt 10 mg SEV JACTDZ 12,581,93

orl-rat LD50:230 mg/kg JACTDZ 12,581,93

skn-rbt LD50:>8 g/kg JACTDZ 12,581,93

SAFETY PROFILE: A poison by ingestion. A severe skin and eye irritant. When heated to decomposition it emits toxic vapors of Cl⁻.

HNF000 CAS: 7568-93-6 HR: 3
β-HYDROXYPHENETHYLAMINE

mf: C₈H₁₁NO mw: 137.20

PROP: Leaves of benzene. Mp: 112–114°, bp: 175–181°; sol in water, alc, benzene; sltly sol in hot xylene.

SYNS: 2-AMINO-1-PHENYL-1-ETHANOL □ ETHANOL, 2-AMINO-1-PHENYL- □ ETHYLAMINE, β-HYDROXY-β-PHENYL- □ β-HYDROXY-β-PHENYLETHYLAMINE □ PHENETHYLAMINE, β-HYDROXY-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:250 mg/kg NTIS** AD691-490

scu-mus LDLo:686 mg/kg APTAK 47,96,34

ivn-rbt LDLo:23 mg/kg APTAK 47,96,34

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

HNF100 CAS: 501-22-4 HR: 3
(m-HYDROXYPHENETHYL)TRIMETHYL-AMMONIUM HYDROXIDE

mf: C₁₁H₁₈NO•HO mw: 197.31

SYNS: AMMONIUM, (m-HYDROXYPHENETHYL)TRIMETHYL-, HYDROXIDE □ BENZENEETHANAMINIUM, 3-HYDROXY-N,N,N-TRIMETHYL-, HYDROXIDE (9CI) □ LEPTODACTYLIN

TOXICITY DATA with REFERENCE:

scu-mus LD50:10 mg/kg NATWAY 56,615,1969

SAFETY PROFILE: A poison by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x.

HNG000 CAS: 66967-84-8 HR: 3
(m-HYDROXYPHENETHYL)TRIMETHYL-AMMONIUM PICRATE

mf: C₁₁H₁₇NO•C₆H₃N₃O₇ mw: 408.41

SYNS: 3-HYDROXY-N,N,N-TRIMETHYLBENZENEETHANAMINIUM PICRATE □ LEPTODACTYLIN PICRATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:325 mg/kg MEIEDD 10,781,83

ivn-mus LD50:3300 µg/kg MEIEDD 10,781,83

SAFETY PROFILE: Poison by ingestion and intravenous routes. Used as a neuromuscular blocker. When heated to decomposition it emits toxic fumes of NH₃ and NO_x. See also PICRIC ACID.

HNG100 CAS: 38246-95-6 HR: D
N-HYDROXY-p-PHENETIDINE

mf: C₈H₁₁NO₂ mw: 153.20

SYNS: 4-ETHOXY-N-HYDROXY-BENZENAMINE □ N-(p-ETHOXYPHENYL)HYDROXYLAMINE □ (p-ETHOXY-PHENYL)HYDROXYLAMINE □ N-HYDROXYPHENETIDINE

TOXICITY DATA with REFERENCE:

mno-sat 50 µg/plate CRNGDP 3,167,82

mma-sat 1 µmol/plate CPBTAL 33,287,85

dnd-rat:lv 50 µmol/L CNREA8 44,1098,84

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HNG500 CAS: 550-82-3 HR: 2
7-HYDROXY-3H-PHENOXAZIN-3-ONE-10 OXIDE

mf: C₁₂H₇NO₄ mw: 229.20

PROP: Blue prisms from AcOH. Dark red to greenish prisms or plates from AcOH and EtOAc. Sol in Et₂O and EtOH.

SYNS: AZORESORCIN □ DIAZORESORCINOL □ 7-HYDROXY-3H-FENOXAZIN-3-ON-10-OXID □ RESAZOIN □ RESAZURIN □ RESAZURINE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:500 mg/kg NCNSA6 5,24,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

HNG550 CAS: 17194-82-0 HR: D
4-HYDROXYPHENYLACETAMIDE

mf: C₈H₉NO₂ mw: 151.18

SYNS: ACETAMIDE, 2-(p-HYDROXYPHENYL)- □ p-(CARBAMOYLMETHYL)PHENOL □ BENZENEACETAMIDE, 4-HYDROXY- □ 4-HYDROXYBENZENEACETAMIDE □ (p-HYDROXYPHENYL)ACETAMIDE □ 2-(p-HYDROXYPHENYL)-ACETAMIDE

TOXICITY DATA with REFERENCE:

mnt-ipr-mus 80 mg/kg/24H-C MUREAV 224,209,1989

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HNG600 CAS: 156-38-7 HR: 2
(4-HYDROXYPHENYL)ACETIC ACID

mf: C₈H₈O₃ mw: 152.16

SYNS: ACETIC ACID, (p-HYDROXYPHENYL)- □ BENZENEACETIC ACID, 4-HYDROXY-(9CI) □ 4-HYDROXYBENZENEACETIC ACID □ (p-HYDROXYPHENYL)ACETIC ACID

TOXICITY DATA with REFERENCE:

ipr-mus LD50:3500 mg/kg FRPSAX 13,286,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

HNG700 CAS: 306-23-0 HR: 2
p-HYDROXYPHENYLACETIC ACID

mf: C₉H₁₀O₄ mw: 182.19

TOXICITY DATA with REFERENCE:

scu-mus TDLo:800 mg/kg (15-21D post):CAR,TER
BEXBAN 87,46,79

scu-mus TDLo:800 mg/kg (15-21D post):CAR,TER
BEXBAN 87,46,79

SAFETY PROFILE: An experimental teratogen. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits acrid smoke and fumes.

HNG800 CAS: 5453-66-7 HR: 1
4-HYDROXYPHENYLARSENIOUS ACID

mf: C₆H₅AsO₂ mw: 184.03

SYNS: p-ARSENOSOPHENOL □ PHENOL, p-ARSENOSO-

TOXICITY DATA with REFERENCE:

ivn-mus LDLo:2 g/kg PHBUA9 2,19,54

OSHA PEL: TWA 0.5 mg(As)/m³

ACGIH TLV: BEI: 35 μ (As)/L inorganic arsenic and methylated metabolites in urine

SAFETY PROFILE: Mildly toxic by intravenous route. When heated to decomposition it emits toxic fumes of As.

HNH475 CAS: 29050-86-0 HR: D
6-((p-HYDROXYPHENYL)AZO)URACIL

mf: C₁₀H₈N₄O₃ mw: 232.22

TOXICITY DATA with REFERENCE:

oms-bcs 20 mg/L JOBAAY 126,108,76

dni-bcs 25 mg/L JOBAAY 126,108,76

pic-bcs 100 μmol/L JOVIAM 14,1470,74

dni-omi 6 μmol/L FOMIAZ 27,7,82

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HNH500 CAS: 136-36-7 HR: 3
3-HYDROXYPHENYL BENZOATE

mf: C₁₃H₁₀O₃ mw: 214.23

PROP: Leaflets from EtOH (aq). Mp: 135–136°.

SYNS: BENZOIC ACID-m-HYDROXYPHENYL ESTER □ EASTMAN INHIBITOR RMB □ RESORCINOL, MONO-BENZOATE

TOXICITY DATA with REFERENCE:

eye-rbt 5% MILD JAPMA846,185,57

skn-gpg 500 mg MOD KODAK* #906511

orl-rat LD50:1600 mg/kg KODAK* #906511

ipr-rat LD50:400 mg/kg 14CYAT 2,1897,63

ipr-mus LD50:710 mg/kg JAPMA8 46,185,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

HNI000 CAS: 835-64-3 HR: 2
2-(o-HYDROXYPHENYL)BENZOXAZOLE

mf: C₁₃H₉NO₂ mw: 211.23

PROP: Pink crystals from EtOH or AcOH (aq). Mp: 125–126°, bp: 338°. Sol in EtOH.

SYN: USAF EK-6754

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2000 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.

HNI500 CAS: 129-20-4 HR: 3
p-HYDROXYPHENYLBUTAZONE

mf: C₁₉H₂₀N₂O₃ mw: 324.41

SYNS: ARTROFLOG □ BM 1 □ BUTAFLOGIN □ BUTANOVA

□ BUTAPIRONE □ BUTYLENE □ 4-BUTYL-2-(4-HYDROXY-PHENYL)-1-PHENYL-3,5-DIOXOPYRAZOLIDINE □ 4-BUTYL-1-(p-HYDROXYPHENYL)-2-PHENYL-3,5-PYRAZOLIDINEDIONE □ 4-BUTYL-1-(4-HYDROXYPHENYL)-2-PHENYL-3,5-PYRAZOLIDINEDIONE □ 4-BUTYL-2-(p-HYDROXYPHENYL)-1-PHENYL-3,5-PYRAZOLIDINEDIONE □ CROVARIL □ DEFLOG-IN □ 3,5-DIOXO-1-PHENYL-2-(p-HYDROXYPHENYL)-4-N-BUTYLPYRAZOLIDINE □ ETROZOLIDINA □ FLAMARIL □ FLANARIL □ FLOGHENE □ FLOGISTIN □ FLOGITOLO □ FLOGODIN □ FLOGORIL □ FLOGOSTOP □ FLOPIRINA □ FRABEL □ G 27202 □ GLOGAL □ 1-(p-HYDROXYPHENYL)-2-PHENYL-4-BUTYL-3,5-PYRAZOLIDINEDIONE □ 1-p-HYDROXYPHENYL-2-PHENYL-3,5-DIOXO-4-N-BUTYLPYRAZOLIDINE □ IDROBUTAZINA □ INFAMIL □ IPABUTONA □ IRIDIL □ ISOBUTAZINA □ ISOBUTIL □ METABOLITE I □ NEO-FARMADOL □ NEOFEN □ OFFITRIL □ OXALID □ OXAZOLIDIN □ OXAZOLIDIN-GEIGY □ OXIBUTOL □ OXIFENIBUTOL □ OXIFENYLBUTAZON □ OXYPHENBUTAZONE □ OXYPHENYLBUTAZONE □ 1-PHENYL-2-(p-HYDROXY-PHENYL)-3,5-DIOXO-4-BUTYLPYRAZOLIDINE □ PIRABUTINA □ PIRAFLOGIN □ POLIFLOGIL □ REMAZIN □ REUMOX □ RUMAPAX □ TANDACOTE □ TANDALGESIC □ TANDEARIL □ TANDERAL □ TELIDAL □ TENDEARIL □ VALIOIL □ VISUBUTINA □ USAF GE-14

TOXICITY DATA with REFERENCE:

sln-asn 1 g/L MUREAV 26,159,74

orl-chd LDLo:420 mg/kg/4W-I:LIV,BLD BMJOAE 2,1517,62

orl-man TDLo:27 mg/kg/14D:GIT,BLD LAKAA3 63,53,66

orl-cld LDLo:420 mg/kg/4W-I:SYS,BLD BMJOAE 2,1517,62

orl-man TDLo:27 mg/kg/14D:GIT LAKAA3 63,53,66

orl-wmn TDLo:50 mg/kg/7D:SKN,MET LAKAA3 63,53,66

orl-wmn TDLo:24 mg/kg/4D:GIT,END JAMAAP 238,1399,77

orl-rat LD50:350 mg/kg MPHEAE 16,536,67

ivn-rat LD50:68 mg/kg MEXPAG 6,88,62

orl-mus LD50:350 mg/kg BCFAAI 103,245,64

ipr-mus LD50:100 mg/kg NTIS** AD414-344

ivn-mus LD50:52 mg/kg ARZNAD 10,129,60

ivn-dog LD50:178 mg/kg AIPAK 149,571,64

ivn-rbt LD50:104 mg/kg ANYAA9 86,263,60

orl-gpg LD50:1165 mg/kg PHMGBN 11,220,74

orl-ham LD50:1180 mg/kg ATSDG 7,365,84

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Human Inadequate Evidence IMEMDT 13,183,77.

SAFETY PROFILE: A poison by ingestion, intraperitoneal, and intravenous routes. Moderately toxic to humans by ingestion. Human systemic effects: agranulocytosis, dermatitis, diarrhea, fever, hemorrhage, hepatitis, hypermotility, nausea or vomiting, salivary gland changes, thrombocytopenia. Experimental reproductive effects. Questionable carcinogen. Mutation data reported. Used as an anti-inflammatory agent. When heated to decomposition it emits toxic fumes of NO_x.

HNI600 CAS: 89365-50-4 HR: 3
(+)-4-HYDROXY- α 1-(((6-(4-PHENYLBUTOXY)-HEXYL)AMINO)METHYL)-1,3-BENZENE-DIMETHANOL

mf: C₂₅H₃₇NO₄ mw: 415.63

SYNS: 1,3-BENZENEDIMETHANOL, 4-HYDROXY- α 1-(((6-(4-PHENYLBUTOXY)HEXYL)AMINO)METHYL)-, (+)- □ GR 33343X □ SALMETEROL

TOXICITY DATA with REFERENCE:

ihl-mky TClO:1.4 µg/kg/10M PUPHE* 14,289,2000

SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits toxic vapors of NO_x.

HNJ000 CAS: 50-19-1 HR: 2
2-HYDROXY-2-PHENYLBUTYL CARBAMATE

mf: C₁₁H₁₅NO₃ mw: 209.27

PROP: A solid. Mp: 55–56.5°.

SYNS: β -ETHYL- β -HYDROXYPHENETHYL CARBAMATE □ β -ETHYL- β -HYDROXYPHENETHYL CARBAMIC ACID ESTER □ HIDROXIFENAMATO □ HYDROXYPHENAMATE □ LISTICA □ NSC-108034 □ OXYFENAMATE □ OXYPHENAMATE □ P 301 □ PHENYLBUTAMATE □ 2-PHENYL-1,2-BUTANEDIOL 1-CARBAMATE □ TENSIFEN

TOXICITY DATA with REFERENCE:

orl-rat LD50:607 mg/kg 27ZQAG -,394,72

orl-mus LD50:830 mg/kg MEIEDD 10,705,83

ivn-mus LD50:425 mg/kg DNSSAW 22,9,61

SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. A minor tranquilizer. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

HNJ500 CAS: 5418-32-6 HR: 3
4-(p-HYDROXYPHENYL)-2,5-CYCLOHEXA-DIENE-1-ONE SODIUM SALT

mf: C₁₂H₈NO₂•Na mw: 221.20

TOXICITY DATA with REFERENCE:

ipr-mus LD50:50 mg/kg JMCMAR 21,11,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x and Na₂O.

HNK000 CAS: 27068-06-0 HR: 3
(3-HYDROXYPHENYL)DIETHYLMETHYL-AMMONIUM BROMIDE

mf: C₁₁H₁₈NO•Br mw: 260.21

SYNS: DIETHYL(m-HYDROXYPHENYL)METHYLAMMONIUM BROMIDE □ RO 2-2980

TOXICITY DATA with REFERENCE:

orl-mus LD50:690 mg/kg JPETAB 100,83,50

ipr-mus LD50:26 mg/kg JPETAB 100,83,50

scu-mus LD50:61 mg/kg JPETAB 100,83,50

ivn-mus LD50:10 mg/kg JPETAB 100,83,50

ivn-dog LD50:20 mg/kg JPETAB 100,83,50

ivn-rbt LD50:27 mg/kg JPETAB 100,83,50

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and Br⁻. See also BROMIDES.

HNK500 CAS: 6249-65-6 HR: 3
(m-HYDROXYPHENYL)DIETHYLMETHYL-AMMONIUM IODIDE, DIMETHYLCARBAM-ATE

mf: C₁₄H₂₃N₂O₂•I mw: 378.29

SYNS: DIETHYL(m-HYDROXYPHENYL)METHYLAMMONIUM IODIDE DIMETHYLCARBAMATE □ N,N-DIMETHYL-CARBAMIC ACID-3-DIETHYLAMINOPHENYL ESTER METHIODIDE □ DIMETHYLCARBAMIC ACID-m-(DIETHYL-METHYLAMINO)PHENYL ESTER IODIDE □ (3-(DIMETHYL-CARBAMOYLOXY)PHENYL)DIETHYLMETHYLAMMONIUM IODIDE □ TL-1238

TOXICITY DATA with REFERENCE:

scu-rat LDLo:400 µg/kg NTIS** PB158-508

scu-mus LD50:175 µg/kg NTIS** PB158-508

ivn-mus LD50:60 µg/kg NTIS** PB158-508

scu-dog LDLo:300 µg/kg NTIS** PB158-508

scu-cat LDLo:200 µg/kg NTIS** PB158-508

scu-rbt LDLo:150 µg/kg NTIS** PB158-508

scu-gpg LDLo:100 µg/kg NTIS** PB158-508

SAFETY PROFILE: A deadly poison by subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and I⁻. See also CARBAMATES and IODIDES.

HNK550 CAS: 63957-59-5 HR: 3
(m-HYDROXYPHENYL)DIETHYLMETHYL-AMMONIUM METHOSULFATE METHYL-CARBAMATE

mf: C₁₃H₂₁N₂O₂•CH₃O₄S mw: 348.46

SYNS: (3-(N-CARBAMOYLOXY)PHENYL)DIETHYLMETHYL-AMMONIUM METHOSULFATE □ N-METHYL-CARBAMIC ACID-3-DIETHYLAMINOPHENYL ESTER, DIMETHYLSULFATE □ N-METHYL-CARBAMIC ACID-3-DIETHYLAMINOPHENYL ESTER, METHOSULFATE □ METHYL-CARBAMIC ACID-m-(DIETHYLMETHYLAMMONIO)PHENYL ESTER, METHOSULFATE □ TL-1317

TOXICITY DATA with REFERENCE:

scu-mus LD50:100 µg/kg NTIS** PB 158-508

scu-cat LDLo:100 µg/kg NTIS** PB158-508

scu-rbt LDLo:50 µg/kg NTIS** PB158-508

scu-gpg LDLo:50 µg/kg NTIS** PB158-508

SAFETY PROFILE: A deadly poison by subcutaneous route. When heated to decomposition it emits toxic fumes of SO_x, NH₃, and NO_x. See also CARBAMATES.

HNK560 CAS: 99-07-0 HR: D

(3-HYDROXYPHENYL)DIMETHYLAMINEmf: C₈H₁₁NO mw: 137.20**SYNS:** m-(DIMETHYLAMINO)PHENOL □ 3-(DIMETHYLAMINO)PHENOL □ PHENOL, m-(DIMETHYLAMINO)-**TOXICITY DATA with REFERENCE:**

mma-sat 33 µg/plate EMMUEG 11(Suppl 12),1,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**HNK575 CAS: 99071-30-4 HR: 3
(4-HYDROXY-m-PHENYLENE)BIS(ACETATO-MERCURY)**mf: C₁₀H₁₀Hg₂O₅ mw: 611.38**SYNS:** DIACETOXYMERCURIPHENOL □ MERCURY, (4-HYDROXY-m-PHENYLENE)BIS(ACETATO)- □ PHENOL, 2,4-BIS(ACETOXYMERCURI)-**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:113 mg/kg JPETAB 31,87,27

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**SAFETY PROFILE:** Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of Hg.**HNK585 CAS: 91269-98-6 HR: 2
5-HYDROXY-4-(2-PHENYL(E)-ETHENYL)-2(5H)-FURANONE**mf: C₁₂H₁₀O₃ mw: 202.21**SYN:** 2(5H)-FURANONE, 5-HYDROXY-4-((1E)-2-PHENYLETHENYL)-**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HNK600 CAS: 100242-24-8 HR: 2
7-HYDROXY-4-PHENYL-3-(4-HYDROXYPHENYL)COUMARIN**mf: C₂₁H₁₄O₄ mw: 330.35**SYNS:** COUMARIN, 7-HYDROXY-3-(p-HYDROXYPHENYL)-4-PHENYL- □ (OV₁)**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:1410 mg/kg IJEBAA 25,450,87

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.**HNK700 CAS: 73343-70-1 HR: 3
p-HYDROXYPHENYL 2-MESITYLBENZO-FURAN-3-YL KETONE**mf: C₂₄H₂₀O₃ mw: 356.44**SYNS:** BENZOFURAN, 3-(p-HYDROXYBENZOYL)-2-MESITYL- □ (HYDROXY-4 BENZOYL)-3 MESITYL-2 BENZOFURANNE □ KETONE, p-HYDROXYPHENYL 2-MESITYL-3-BENZOFURANYL □ METHANONE, (4-HYDROXYPHENYL)(2-(2,4,6-TRIMETHYL-PHENYL)-3-BENZOFURANYL)-**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:2 g/kg EJMAC5 14,517,79

DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Low toxicity by ingestion. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**HNK800 CAS: 73343-69-8 HR: 3
p-HYDROXYPHENYL 2-MESITYLBENZO-FURAN-4-YL KETONE**mf: C₂₄H₂₀O₃ mw: 356.44**SYNS:** BENZOFURAN, 4-(p-HYDROXYBENZOYL)-2-MESITYL- □ (HYDROXY-4 BENZOYL)-4 MESITYL-2 BENZOFURANNE □ KETONE, p-HYDROXYPHENYL 2-MESITYL-4-BENZOFURANYL □ METHANONE, (4-HYDROXYPHENYL)(2-(2,4,6-TRIMETHYL-PHENYL)-4-BENZOFURANYL)-**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:2 g/kg EJMAC5 14,517,79

DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Low toxicity by intraperitoneal route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**HNK900 CAS: 10309-97-4 HR: 3
2-HYDROXYPHENYL METHYLCARBAMATE**mf: C₈H₉NO₃ mw: 167.18**SYNS:** 1,2-BENZENEDIOL, MONO(METHYLCARBAMATE) (9CI) □ CARBAMIC ACID, METHYL-, o-HYDROXYPHENYL ESTER □ o-HYDROXYPHENYL METHYLCARBAMATE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:>167 mg/kg JAFCAU 16,561,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.**HNK950 CAS: 64058-44-2 HR: 3
4-(m-HYDROXYPHENYL)-1-METHYLISONIPECOTINOYL METHYL KETONE**mf: C₁₄H₁₉NO₂ mw: 233.34**SYN:** METHYL (4-(m-HYDROXYPHENYL)-1-METHYL)-4-PIPERIDYL KETONE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:104 mg/kg SCIEAS 104,587,46

DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: A poison by intravenous route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.**HNL100 CAS: 34920-64-4 HR: 3
1-(p-HYDROXYPHENYL)-2-(3'-PHENYLTHIOPROPYLAMINO)-1-PROPANOL HYDROCHLORIDE**mf: C₁₈H₂₃NO₂S•ClH mw: 353.94**SYNS:** 4-HYDROXY-α-(1-((3-(PHENYLTHIO)PROPYL)-AMINO)ETHYL)-BENZENEMETHANOL HYDROCHLORIDE □ p-HYDROXY-α-(1-((3-(PHENYLTHIO)PROPYL)AMINO)ETHYL)-BENZYL ALCOHOL HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:650 mg/kg CHTPBA 6,474,71

orl-mus LD50:650 mg/kg CHTPBA 6,474,71

scu-mus LD50:125 mg/kg CHTPBA 6,474,71
 scu-dog LDLo:300 mg/kg CHTPBA 6,474,71
 ivn-dog LDLo:65 mg/kg CHTPBA 6,474,71
 ivn-rbt LD50:27 mg/kg CHTPBA 6,474,71

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl.

HNL200 CAS: 1779-48-2 HR: 2
HYDROXYPHENYLPHOSPHINE OXIDE

mf: C₆H₇O₂P mw: 142.10

SYNS: BENZENEPHOSPHINIC ACID □

BENZENEPHOSPHONOUS ACID □ PHENYLPHOSPHINIC ACID □ PHENYLPHOSPHONOUS ACID □ PHOSPHINIC ACID, PHENYL-

TOXICITY DATA with REFERENCE:

ipr-mus LD :>625 mg/kg CBCCT* 2,56,50

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of PO_x.

HNL500 CAS: 156-39-8 HR: 2
p-HYDROXYPHENYLPYRUVIC ACID

mf: C₉H₈O₄ mw: 180.17

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.

HNL600 CAS: 98-67-9 HR: 1
4-HYDROXYPHENYLSULFONIC ACID

mf: C₆H₆O₄S mw: 174.18

SYN: BENZENESULFONIC ACID, p-HYDROXY-

TOXICITY DATA with REFERENCE:

orl-mus LD50:6400 mg/kg JAFCAU 15,845,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits toxic vapors of SO_x.

HNM000 CAS: 144-12-7 HR: 3
4-(3-HYDROXY-3-PHENYL-3-(2-THIENYL)-PROPYL)-4-METHYLMORPHOLINIUMIODIDE

mf: C₁₈H₂₄NO₂S•I mw: 445.39

PROP: A solid. Mp: 189–191°.

SYNS: 114 C.E. □ CERFA 114 □ l'IODURE de α-THIENYL-1 PHENYL-1 N-METHYL MORPHOLINIUM-3 PROPANOL-1 (FRENCH) □ TE 114 □ 1-α-THIENYL-1-PHENYL-3-N-METHYLMORPHOLINIUM-1-PROPANOL IODIDE □ TIEMONIUM IODIDE □ TIEMOZYL □ VISCERALGIN □ VISCERALGINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2295 mg/kg OYYAA2 3,390,69

ipr-rat LD50:240 mg/kg OYYAA2 3,390,69

scu-rat LD50:1350 mg/kg OYYAA2 3,390,69

ivn-rat LD50:30 mg/kg AIPAK 141,465,63

orl-mus LD50:1800 mg/kg OYYAA2 3,390,69

ipr-mus LD50:130 mg/kg OYYAA2 3,390,69

scu-mus LD50:450 mg/kg OYYAA2 3,390,69

ivn-mus LD50:30 mg/kg NIIRDN 6,865,82

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and

subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and I⁻. See also IODIDES.

HNN000 CAS: 64051-06-5 HR: 3
(m-HYDROXYPHENYL)TRIMETHYLAMMONIUM CHLORIDE, METHYLCARBAMATE

mf: C₁₁H₁₇N₂O₂•Cl mw: 244.75

SYNS: METHOCHLORIDE of N-METHYLURETHANE of 3-DIMETHYLAMINOPHENOL □ N-METHYLCARBAMIC ACID-3-DIMETHYLAMINOPHENYL ESTER METHOCHLORIDE □ METHYLCARBAMIC ACID, (m-(TRIMETHYLAMMONIO)-PHENYL) ESTER CHLORIDE □ (3-(METHYLCARBAMOXYLOXY)-PHENYL)TRIMETHYLAMMONIUM CHLORIDE □ T-1690 □ TL-1226

TOXICITY DATA with REFERENCE:

scu-mus LD50:140 µg/kg NTIS** PB158-508

ivn-mus LD50:70 µg/kg NTIS** PB158-508

SAFETY PROFILE: A deadly poison by subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and Cl⁻. See also CARBAMATES.

HNN500 CAS: 2498-27-3 HR: 3
(m-HYDROXYPHENYL)TRIMETHYLAMMONIUM IODIDE

mf: C₉H₁₄NO•I mw: 279.14

SYNS: m-(DIMETHYLAMINO)PHENOL METHIODIDE □ 3-HYDROXY-N,N,N-TRIMETHYLBENZENAMINIUM IODIDE □ 3-OXYPHENYL TRIMETHYLAMMONIUM IODIDE □ TMPH □ 3-(TRIMETHYLAMMONIO)PHENOL IODIDE

TOXICITY DATA with REFERENCE:

orl-mus LDLo:200 mg/kg JPETAB 43,413,31

ipr-mus LD50:65 mg/kg PCJOAU 10,327,76

ivn-mus LDLo:25 mg/kg JPETAB 43,413,31

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and I⁻. See also IODIDES.

HNO000 CAS: 64051-08-7 HR: 3
(m-HYDROXYPHENYL)TRIMETHYLAMMONIUM IODIDE, BENZYL CARBAMATE

mf: C₁₇H₂₁N₂O₂•I mw: 412.30

SYNS: N-BENZYL CARBAMIC ACID-3-DIMETHYLAMINOPHENYL ESTER METHIODIDE □ BENZYL CARBAMIC ACID-m-(TRIMETHYLAMMONIO)PHENYL ESTER IODIDE □ (3-(BENZYL CARBAMOXYLOXY)PHENYL)-TRIMETHYLAMMONIUM IODIDE □ METHIODIDE of N-BENZYLURETHANE of 3-DIMETHYLAMINOPHENOL □ T-1125

TOXICITY DATA with REFERENCE:

scu-mus LD50:350 µg/kg NTIS** PB158-508

scu-rbt LD50:200 µg/kg NTIS** PB158-508

SAFETY PROFILE: A deadly poison by subcutaneous route. When heated to decomposition it emits very toxic fumes of NH₃, NO_x and I⁻. See also IODIDES and CARBAMATES.

HNO500 CAS: 3983-39-9 HR: 3
(m-HYDROXYPHENYL)TRIMETHYLAMMONIUM IODIDE, METHYLCARBAMATE

mf: C₁₁H₁₇N₂O₂•I mw: 336.20

SYNS: CARBAMIC ACID-N-METHYL-3-DIMETHYLAMINO-PHENYL ESTER METHIODIDE □ METHIODIDE of N-METHYLURETHANE of 3-DIMETHYLAMINOPHENOL □ METHYLCARBAMIC ACID, (m-(TRIMETHYLAMMONIO)-PHENYL)ESTER, IODIDE □ (3-(METHYLCARBAMOYLOXY)-PHENYL)TRIMETHYLAMMONIUM IODIDE □ T-1152 □ TL 1178

TOXICITY DATA with REFERENCE:

scu-rat LDLo:500 µg/kg NTIS** PB158-508
 scu-mus LD50:270 µg/kg NTIS** PB158-508
 ivn-mus LD50:115 µg/kg NTIS** PB158-508
 scu-dog LDLo:1 mg/kg NDRC** No. 9-4-1-19,44
 scu-cat LDLo:500 µg/kg NDRC** No. 9-4-1-19,44
 scu-rbt LD50:260 µg/kg NTIS** PB158-508
 scu-gpg LDLo:250 µg/kg NDRC** No. 9-4-1-19,44

SAFETY PROFILE: A deadly poison by subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and I. See also IODIDES, CARBAMATES, and ESTERS.

HNP000 CAS: 3983-40-2 HR: 3
(p-HYDROXYPHENYL)TRIMETHYLAMMONIUM IODIDE, METHYLCARBAMATE

mf: C₁₁H₁₇N₂O₂•I mw: 336.20

SYNS: AR-17 □ METHIODIDE of N-METHYLURETHANE of 4-DIMETHYLAMINOPHENOL □ N-METHYL CARBAMIC ACID, 4-DIMETHYLAMINOPHENYL ESTER METHIODIDE □ N-METHYLCARBAMIC ACID-p-(TRIMETHYLAMMONIO)PHENYL ESTER IODIDE □ METHYLCARBAMIC ESTER of p-OXY-PHENYLTRIMETHYLAMMONIUM IODIDE □ (4-(N-METHYLCARBAMOYLOXY)PHENYL)TRIMETHYLAMMONIUM IODIDE □ ((p-METHYLCARBAMOYLOXY)PHENYL)TRIETHYL-AMMONIUM IODIDE □ T-1088 □ TL-1097

TOXICITY DATA with REFERENCE:

orl-mus LDLo:50 mg/kg JPETAB 43,413,31
 scu-mus LD50:50 mg/kg NTIS** PB158-508
 ivn-mus LD80:2 mg/kg NTIS** PB158-508

SAFETY PROFILE: Poison by ingestion, subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of NH₃, NO_x and I. See also IODIDES and CARBAMATES.

HNP500 CAS: 64051-18-9 HR: 3
(m-HYDROXYPHENYL)TRIMETHYLAMMONIUM METHYLSULFATE, CARBAMATE

mf: C₁₀H₁₅N₂O₂•CH₃O₄S mw: 306.37

SYNS: AR-11 □ CARBAMIC ACID-3-DIMETHYLAMINOPHENYL ESTER, METHOSULFATE □ CARBAMIC ACID, (m-TRIMETHYLAMMONIO)PHENYL ESTER, METHYLSULFATE □ CARBAMIC ESTER of 3-OXYPHENYL-TRIMETHYLAMMONIUM METHYLSULFATE □ ((m-CARBAMOYLOXY)PHENYL)TRIMETHYLAMMONIUM METHYLSULFATE

TOXICITY DATA with REFERENCE:

orl-mus LDLo:500 mg/kg JPETAB 43,413,31
 ivn-mus LD80:700 µg/kg NTIS** PB158-508

SAFETY PROFILE: A deadly poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and SO_x. See also SULFATES.

HNQ000 CAS: 6033-07-4 HR: 3
(m-HYDROXYPHENYL)TRIMETHYLAMMONIUM METHYLSULFATE DIETHYLCARBAMATE

mf: C₁₄H₂₃N₂O₂•CH₃O₄S mw: 362.49

SYNS: AR-33 □ DIETHYLCARBAMIC ACID ESTER with (m-HYDROXYPHENYL)TRIMETHYLAMMONIUM METHYLSULFATE □ N,N-DIETHYLCARBAMIC ACID-3-(TRIMETHYLAMMONIO)PHENYL ESTER, METHYLSULFATE □ DIETHYLCARBAMIC ESTER of 3-OXYPHENYLTRIMETHYL-AMMONIUM METHYLSULFATE □ (3-(N',N'-DIETHYLCARBAMOYLOXY)PHENYL)TRIMETHYLAMMONIUM METHYLSULFATE

TOXICITY DATA with REFERENCE:

orl-mus LDLo:71 mg/kg JPETAB 43,413,31
 ivn-mus LD80:8 mg/kg NTIS** PB158-508

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and SO_x. See also SULFATES, ESTERS, and CARBAMATES.

HNQ500 CAS: 64051-20-3 HR: 3
(m-HYDROXYPHENYL)TRIMETHYLAMMONIUM METHYLSULFATE, ETHYLCARBAMATE

mf: C₁₂H₁₉N₂O₂•CH₃O₄S mw: 334.43

SYNS: AR-21 □ N-ETHYLCARBAMIC ACID-3-DIMETHYLAMINOPHENYL ESTER, METHOSULFATE □ N-ETHYLCARBAMIC ACID-3-(TRIMETHYLAMMONIO)PHENYL ESTER, METHYLSULFATE □ ETHYLCARBAMIC ESTER of m-OXYPHENYLTRIMETHYLAMMONIUM METHYLSULFATE □ (3-(N-ETHYLCARBAMOYLOXY)PHENYL)TRIMETHYL-AMMONIUM METHYLSULFATE

TOXICITY DATA with REFERENCE:

orl-mus LDLo:100 mg/kg JPETAB 43,413,31
 ivn-mus LD80:1 mg/kg NTIS** PB158-508

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and SO_x. See also SULFATES, ESTERS, and CARBAMATES.

HNR000 CAS: 64050-77-7 HR: 3
(m-HYDROXYPHENYL)TRIMETHYLAMMONIUM METHYLSULFATE, METHYLCARBAMATE

mf: C₁₁H₁₇N₂O₂•CH₃O₄S mw: 320.40

SYNS: AR-13 □ N-METHYLCARBAMIC ACID-3-DIMETHYL-AMINOPHENYL ESTER, METHOSULFATE □ N-METHYL-CARBAMIC ACID-(3-(TRIMETHYLAMMONIO)PHENYL) ESTER, METHYLSULFATE □ METHYLCARBAMIC ESTER of 3-OXY-PHENYLTRIMETHYLAMMONIUM METHYLSULFATE □ (3-(N-METHYLCARBAMOYLOXY)PHENYL)TRIMETHYLAMMONIUM METHYLSULFATE

TOXICITY DATA with REFERENCE:

orl-mus LDLo:2500 µg/kg JPETAB 43,413,31
 ivn-mus LD50:300 µg/kg THERAP 8,714,53

SAFETY PROFILE: Very poisonous by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and SO_x. See also SULFATES, ESTERS, and CARBAMATES.

HNR500 CAS: 64050-79-9 HR: 3
(m-HYDROXYPHENYL)TRIMETHYLAMMONIUM METHYLSULFATE METHYLPHENYL-CARBAMATE

mf: C₁₇H₂₁N₂O₂•CH₃O₄S mw: 396.50

SYN: METHYLPHENYLCARBAMIC ESTER of 3-OXYPHENYLTRIMETHYLAMMONIUM METHYLSULFATE

TOXICITY DATA with REFERENCE:

orl-mus LDLo:75 mg/kg JPETAB 43,413,31

scu-mus LDLo:3 mg/kg JPETAB 43,413,31
 ivn-mus LDLo:3500 µg/kg JPETAB 43,413,31
 scu-rbt LDLo:1 mg/kg JPETAB 43,413,31
 ivn-rbt LDLo:500 µg/kg JPETAB 43,413,31

SAFETY PROFILE: A poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and SO_x. See also SULFATES, ESTERS, and CARBAMATES.

HNS000 CAS: 64050-81-3 HR: 3
(m-HYDROXYPHENYL)TRIMETHYLAMMONIUM METHYLSULFATE, PENTAMETHYLENECARBAMATE

mf: C₁₅H₂₃N₂O₂•CH₃O₄S mw: 374.50

SYNS: AR-35 □ N,N-PENTAMETHYLENECARBAMIC ACID-3-DIMETHYLAMINOPHENYL ESTER, METHOSULFATE □ PENTAMETHYLENECARBAMIC ACID-m-(TRIMETHYLAMMONIO)PHENYL ESTER, METHYLSULFATE □ PENTAMETHYLENECARBAMIC ESTER of 3-OXYPHENYLTRIMETHYLAMMONIUM METHYLSULFATE □ (3-(PENTAMETHYLENECARBAMOYLOXY)PHENYL)TRIMETHYLAMMONIUM METHYLSULFATE

TOXICITY DATA with REFERENCE:

orl-mus LDLo:500 mg/kg JPETAB 43,413,31
 ivn-mus LD80:6 mg/kg NTIS** PB158-508

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and SO_x. See also CARBAMATES, ESTERS, and SULFATES.

HNS500 CAS: 64050-83-5 HR: 3
(m-HYDROXYPHENYL)TRIMETHYLAMMONIUM METHYLSULFATE, PHENYL CARBAMATE

mf: C₁₆H₁₉N₂O₂•CH₃O₄S mw: 382.47

SYNS: AR-25 □ N-PHENYL CARBAMIC ACID-3-(TRIMETHYLAMMONIO)PHENYL ESTER, METHYLSULFATE □ PHENYL CARBAMIC ESTER of 3-OXYPHENYLTRIMETHYLAMMONIUM METHYLSULFATE □ (3-(N-PHENYL CARBAMOYLOXY)PHENYL)TRIMETHYLAMMONIUM METHYLSULFATE

TOXICITY DATA with REFERENCE:

orl-mus LDLo:125 mg/kg JPETAB 43,413,31
 ivn-mus LD80:2 mg/kg NTIS** PB158-508

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of NH₃, NO_x and SO_x. See also SULFATES; ESTERS and CARBAMATES.

HNS550 CAS: 113852-37-2 HR: 2
(S)-1-(3-HYDROXY-2-PHOSPHONYLMETHOXY-PROPYL)CYTOSINE

mf: C₈H₁₄N₃O₆P mw: 279.19

SYNS: CIDOFOVIR □ HPMP □ PHOSPHONIC ACID, ((2-(4-AMINO-2-OXO-1(2H)-PYRIMIDINYL)-1-(HYDROXYMETHYL)-ETHOXY)METHYL)-, (S)-

TOXICITY DATA with REFERENCE:

skn-rbt 1%/18D-I MOD open ARSRDR 46,135,2000
 skn-rbt 0.1%/8W MOD open ARSRDR 48,131,2000
 skn-rbt 1%/8W SEV open ARSRDR 48,131,2000

SAFETY PROFILE: A severe skin irritant. When heated to decomposition it emits toxic vapors of NO_x and PO_x.

HNS600 CAS: 524-38-9 HR: 3
N-HYDROXYPHTHALIMIDE

mf: C₈H₅NO₃ mw: 163.14

SYN: PHTHALIMIDE, N-HYDROXY-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:178 mg/kg CSLNX* NX#00747

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

HNT075 CAS: 14838-45-0 HR: 2
3-(1-HYDROXY-2-PIPERIDINOETHYL)-5-PHENYLISOXAZOLE CITRATE

mf: C₁₆H₂₀N₂O₂•C₆H₈O₇ mw: 464.52

SYNS: α-(PIPERIDINOMETHYL)-5-PHENYL-3-ISOXAZOLEMETHANOL CITRATE □ 31252-S

TOXICITY DATA with REFERENCE:

scu-mus LD50:416 mg/kg JMCMA 10,411,67

SAFETY PROFILE: Moderately toxic by subcutaneous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

HNT100 CAS: 93793-83-0 HR: 3
2-HYDROXY-N-(3-(m-(PIPERIDINOMETHYL)-PHENOXY)PROPYL)ACETAMIDE ACETATE (ester) HYDROCHLORIDE

mf: C₁₉H₂₈N₂O₄•ClH mw: 384.95

PROP: A solid. Mp: 145–146°.

SYNS: 2-ACETOXY-N-(3-(m-(1-PIPERIDINYL METHYL)PHENOXY)PROPYL)ACETAMIDE HYDROCHLORIDE □ TZU-0460

TOXICITY DATA with REFERENCE:

orl-rat LD50:755 mg/kg YACHDS 13,1167,85
 ipr-rat LD50:227 mg/kg YACHDS 13,1167,85
 scu-rat LD50:595 mg/kg YACHDS 13,1167,85
 ivn-rat LD50:110 mg/kg YACHDS 13,1167,85
 orl-mus LD50:509 mg/kg YACHDS 13,1167,85
 scu-mus LD50:384 mg/kg YACHDS 13,1167,85
 ivn-mus LD50:83 mg/kg YACHDS 13,1167,85
 orl-dog LD50:100 mg/kg YACHDS 13,1167,85
 ivn-dog LD50:75 mg/kg YACHDS 13,1167,85
 ivn-mky LD50:50 mg/kg YACHDS 13,1167,85
 orl-rbt LD50:900 mg/kg YACHDS 13,1167,85

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

HNT200 CAS: 62822-49-5 HR: 3
10-(3-(4-HYDROXYPIPERIDINO)PROPYL)-PHENOTHIAZIN-2-YL METHYL KETONE

mf: C₂₂H₂₆N₂O₂S mw: 382.56

SYNS: ETHANONE, 1-(10-(3-(4-HYDROXY-1-PIPERIDINYL)-PROPYL)-10H-PHENOTHIAZIN-2-YL)- □ 10-(3-(4-HYDROXY-PIPERIDINO)PROPYL)PHENOTHIAZIN-2-YL METHYL KETONE □ 4-PIPERIDINOL, 1-(3-(2-ACETYLPHENOTHIAZIN-10-YL)PROPYL)-

TOXICITY DATA with REFERENCE:

scu-mus LD50:470 mg/kg AIPTAK 149,374,64

DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Moderately toxic by subcutaneous route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

HNT500 CAS: 630-56-8 HR: 2
HYDROXYPROGESTERONE CAPROATE

mf: C₂₇H₄₀O₄ mw: 428.67

PROP: Dense needles from MeOH or isopropyl ether. Mp: 119–121°.

SYNS: CAPRON □ CORLUTIN L.A. □ DELALUTIN □ DEPO-PROLUTON □ DURALUTON □ ESTRALUTIN □ GESTEROL L.A. □ 17-α-HEXANOYLOXYPREGN-4-ENE-3,20-DIONE □ HORMOFORT □ HPC □ HYDROXON □ 17-HYDROXYPREGN-4-ENE-3,20-DIONE HEXANOATE □ 17-α-HYDROXY-PROGESTERONE CAPROATE □ 17-α-HYDROXY PROGESTERONE-N-CAPROATE □ 17-α-HYDROXY-PROGESTERONE HEXANOATE □ HYLUTIN □ HYPROVAL-PA □ IDROGES-TENE □ LUETOICRIN DEPOT □ LUTATE □ LUTEOICRIN □ LUTOPRON □ NEOLUTIN □ NSC-17592 □ 17-((1-OXOHXYL)-OXY)PREGN-4-ENE-3,20-DIONE □ PRIMOLUT DEPOT □ PROGESTERONE CAPROATE □ PROGESTERONE RETARD PHARLON □ PROLUTON DEPOT □ RELUTIN □ SQUIBB □ SYNGYNON □ TERALUTIL

CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 21,399,79.

SAFETY PROFILE: Human reproductive effects by an unknown route: behavioral effects on newborn. Experimental teratogenic and reproductive effects. Questionable carcinogen. A steroid. Used to treat menstrual disorders, threatened abortion, and sterility. When heated to decomposition it emits acrid smoke and fumes.

HNT525 CAS: 51-35-4 HR: D
trans-I-HYDROXYPROLINE

mf: C₅H₉NO₃ mw: 131.15

SYNS: HYDROXYPROLINE □ HYDROXY-I-PROLINE □ I-HYDROXYPROLINE □ trans-HYDROXYPROLINE □ trans-4-HYDROXYPROLINE □ 4-HYDROXYPROLINE □ I-4-HYDROXYPROLINE □ PROLINE, 4-HYDROXY-, I- □ I-PROLINE, 4-HYDROXY-, trans-

TOXICITY DATA with REFERENCE:

sce-hmn-lym 10 mg/L MUREAV 372,75,196

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HNT550 CAS: 6813-92-9 HR: 3
O-(2-HYDROXYPROPYL)-1-ACETILBENZO-CYCLOBUTENE OXIME

mf: C₁₃H₁₇NO₂ mw: 219.31

SYNS: BICYCLO(4.2.0)OCTA-1,3,5-TRIEN-7-YL METHYL KETONE O-(2-HYDROXYPROPYL)OXIME □ KETONE, BICYCLO(4.2.0)OCTA-1,3,5-TRIEN-7-YL METHYL-, O-(2-HYDROXYPROPYL)OXIME

TOXICITY DATA with REFERENCE:

ipr-mus LD50:550 mg/kg JMCAR 9,656,66

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

HNT600 CAS: 999-61-1 HR: 3
2-HYDROXYPROPYL ACRYLATE

mf: C₆H₁₀O₃ mw: 130.16

SYNS: ACRYLIC ACID-2-HYDROXYPROPYL ESTER □ β-HYDROXYPROPYL ACRYLATE □ 1,2-PROPANEDIOL-1-ACRYLATE □ 2-PROPENOIC ACID-2-HYDROXYPROPYL ESTER □ PROPYLENE GLYCOL MONOACRYLATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:250 mg/kg DTLSV* 4,227,80

orl-mus LD50:1056 mg/kg TOLED5 11,125,82

scu-rbt LD50:160 mg/kg AIHAAP 30,470,69

OSHA PEL: TWA 0.5 ppm (skin)

ACGIH TLV: TWA 0.5 ppm (sensitizer)

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. See also ESTERS. When heated to decomposition it emits acrid smoke and fumes.

HNU500 CAS: 94-13-3 HR: 3
p-HYDROXYPROPYL BENZOATE

mf: C₁₀H₁₂O₃ mw: 180.22

PROP: Colorless crystals or white powder. Mp: 96–97°. Sltly sol in water; sol in alc, ether.

SYNS: ASEPTOFORM P □ BETACIDE P □ BONOMOLD OP □ 4-HYDROXYBENZOIC ACID PROPYL ESTER □ p-HYDROXY-BENZOIC ACID PROPYL ESTER □ NIPASOL □ p-OXYBENZ-OESAEUREPROPYLESTER (GERMAN) □ PARABEN □ PARASEPT □ PASEPTOL □ PRESERVAL P □ PROPYL p-HYDROXYBENZOATE □ n-PROPYL p-HYDROXYBENZOATE □ PROPYLPARABEN (FCC) □ PROPYLPARASEPT □ PROTABEN P □ TEGOSEPT P

TOXICITY DATA with REFERENCE:

orl-mus LD50:6332 mg/kg NEZAAQ 28,463,73

ipr-mus LD50:200 mg/kg NTIS** AD691-490

scu-mus LD50:1650 mg/kg AIPTAK 128,135,60

orl-rbt LDLo:6 g/kg AEPPAE 146,208,29

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. Mildly toxic by ingestion. An allergen. When heated to decomposition it emits acrid smoke and fumes.

HNV000 CAS: 9004-64-2 HR: 3
HYDROXYPROPYL CELLULOSE

PROP: White powder. Sol in water and org solvs.

SYNS: HYDROXYPROPYL ETHER of CELLULOSE □ KLUCCEL

TOXICITY DATA with REFERENCE:

orl-rat LD50:10,200 mg/kg FAONAU 46A,131,69

ivn-rat LD50:250 mg/kg OYAA2 4,1013,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous route. Slightly toxic by ingestion. When heated to decomposition it emits acrid smoke and fumes.

HNV050 CAS: 13189-98-5 HR: D
S-(3-HYDROXYPROPYL)-I-CYSTEINE

mf: C₆H₁₃NO₃S mw: 179.26

SYNS: ALANINE, 3-((3-HYDROXYPROPYL)THIO)- □ ALANINE, 3-((3-HYDROXYPROPYL)THIO)-, I- □ I-CYSTEINE, S-

2054 HNV100 (E)-HYDROXYPROPYLDIAZENE POTASSIUM SALT

(3-HYDROXYPROPYL)- □ SS320A □ S-(3-HYDROXYPROPYL)-CYSTEINE

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of SO_x.

HNV100 CAS: 98114-64-8 HR: D (E)-HYDROXYPROPYLDIAZENE POTASSIUM SALT

mf: C₃H₇N₂O•K mw: 126.22

SYNS: DIAZENE, HYDROXYPROPYL-, POTASSIUM SALT, (E)- □ POTASSIUM (E)-BUTANEDIAZOTATE

TOXICITY DATA with REFERENCE:

mic-esc 250 nmol/plate MUREAV 412,99,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HNV150 CAS: 98114-61-5 HR: D (Z)-HYDROXYPROPYLDIAZENE POTASSIUM SALT

mf: C₃H₇N₂O•K mw: 126.22

SYNS: DIAZENE, HYDROXYPROPYL-, POTASSIUM SALT, (Z)- □ POTASSIUM (Z)-BUTANEDIAZOTATE

TOXICITY DATA with REFERENCE:

mic-esc 1 μmol/plate MUREAV 412,99,1998

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HNV500 CAS: 923-26-2 HR: 1 2-HYDROXYPROPYL METHACRYLATE

mf: C₇H₁₂O₃ mw: 144.19

SYNS: β-HYDROXYPROPYL METHACRYLATE □ 2-HYDROXYPROPYL 2-METHYL-2-PROPENOATE □ METHACRYLIC ACID, 2-HYDROXYPROPYL ESTER □ 2-PROPENOIC ACID, 2-METHYL-, 2-HYDROXYPROPYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

orl-mus LD50:7964 mg/kg TOLED5 11,125,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

HNX000 CAS: 9004-65-3 HR: 1 HYDROXYPROPYL METHYLCELLULOSE

PROP: White fibrous or granular powder. Sol in water, org solvs; insol in anhyd alc, ether, and chloroform.

SYN: METHOCEL HG

TOXICITY DATA with REFERENCE:

ipr-rat LD50:5200 mg/kg JPETAB 99,112,50

ipr-mus LD50:5000 mg/kg JPETAB 99,112,50

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes.

HNX500 CAS: 61499-28-3 HR: 3 1-(((2-HYDROXYPROPYL)NITROSO)-AMINO)ACETONE

mf: C₆H₁₂N₂O₃ mw: 160.20

SYNS: HPOP □ 1-((2-HYDROXYPROPYL)NITROSOAMINO)-2-PROPANONE □ N-NITROSO(2-HYDROXYPROPYL)(2-OXOPROPYL)AMINE

TOXICITY DATA with REFERENCE:

dnd-rat:oth 25 mg/L CBINA8 48,59,84

dns-rat:lvr 100 μmol/L MUREAV 144,197,85

scu-ham LD50:354 mg/kg CNREA8 39,3828,79

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. A poison by subcutaneous route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

HNX600 CAS: 21905-32-8 HR: 3 2-HYDROXYPROPYL PHENYL ARSINIC ACID

mf: C₉H₁₃AsO₃ mw: 244.14

SYNS: ARSINE OXIDE, HYDROXY(2-HYDROXYPROPYL)PHENYL- □ HYDROXY(2-HYDROXYPROPYL)PHENYLARSINE OXIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#06914

OSHA PEL: TWA 0.5 mg(As)/m³

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of As.

HNX800 CAS: 10171-78-5 HR: 2 N-(3-HYDROXYPROPYL)-1,2-PROPANEDIAMINE

mf: C₆H₁₆N₂O mw: 132.24

TOXICITY DATA with REFERENCE:

skn-rbt 100 μg/24H open AIHAAP 23,95,62

orl-rat LD50:5660 mg/kg AIHAAP 23,95,62

skn-rbt LD50:2120 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

HNY000 CAS: 9049-76-7 HR: 3 HYDROXYPROPYL STARCH

TOXICITY DATA with REFERENCE:

orl-rat LD50:218 mg/kg FAONAU 50A,32,72

orl-dog LDLo:200 mg/kg FAONAU 50A,32,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits acrid smoke and fumes.

HNY500 CAS: 50-39-5 HR: 2 1-(2-HYDROXYPROPYL)THEOBROMINE

mf: C₁₀H₁₄N₄O₃ mw: 238.28

PROP: Crystals from isopropanol. Mp: 140–142°. Very sol in water; sol in chloroform, hot ethanol, warm glycerol; insol in ether.

SYNS: BONICOR □ CORDABROMIN □ CORDALEROMIN □ CORODIL □ 3,7-DIHYDRO-1-(2-HYDROXYPROPYL)-3,7-DIMETHYL-1H-PURINE-2,6-DIONE □ 1-(2-HYDROXYPROPYL)-3,7-DIMETHYLXANTHINE □ 1-(β-HYDROXYPROPYL)THEOBROMINE □ MTB □ β-OXYPROPYLTHEOBROMINE □

PANTOBROMINO □ PRO-COR □ PROTHEOBROMINE □ TEBE
□ THEOCOR □ VASCOPII

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:780 mg/kg ARZNAD 6,457,56
scu-mus LD50:580 mg/kg ARZNAD 6,601,56

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. Used as a diuretic agent. When heated to decomposition it emits toxic fumes of NO_x. See also THEOBROMINE.

HNZ000 CAS: 59413-14-8 HR: 2 1-(3-HYDROXYPROPYL)THEOBROMINE

mf: C₁₀H₁₄N₄O₃ mw: 238.28

SYNS: 3,7-DIHYDRO-1-(3-HYDROXYPROPYL)-3,7-DIMETHYL-1H-PURINE-2,6-DIONE □ 1-(3-HYDROXYPROPYL)-3,7-DIMETHYLXANTHINE □ 1-(3-HYDROXYPROPYL)THEOBROMINE □ γ-OXYPROPYLTHEOBROMIN (GERMAN) □ γ-(γ-OXYPROPYL)-THEOBROMIN (GERMAN)

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:1200 mg/kg ARZNAD 6,457,56
scu-mus LD50:1055 mg/kg ARZNAD 6,601,56

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x. See also THEOBROMINE.

HOA000 CAS: 603-00-9 HR: 2 β-HYDROXYPROPYLTHEOPHYLLINE

mf: C₁₀H₁₄N₄O₃ mw: 238.28

SYNS: BRONTYL □ 3,7-DIHYDRO-1,3-DIMETHYL-7-(2-HYDROXYPROPYL)-1H-PURINE-2,6-DIONE □ 3,7-DIHYDRO-7-(2-HYDROXYPROPYL)-1,3-DIMETHYL-1H-PURINE-2,6-DIONE □ HYDROXYPROPYLTHEOPHYLLINE □ 7-(β-HYDROXY-PROPYL)THEOPHYLLINE □ 7-(2-HYDROXYPROPYL)THEOPHYLLINE □ MONOPHYLLINE □ MT □ OXYPROPYLTHEOPHYLLINE □ β-OXYPROPYLTHEOPHYLLIN □ PROXIPHYLLINE □ PROXYPHYLLINE □ PUROPHYLLIN □ SANWAPHYLLIN □ SIGOPHYL □ SPASMOLYSIN □ THEAN □ THEODEN □ THEON

TOXICITY DATA with REFERENCE:

orl-rat LD50:460 mg/kg OYYAA2 19,845,80
ipr-rat LD50:445 mg/kg NIIRDN 6,720,82
ivn-rat LD50:430 mg/kg OYYAA2 19,845,80
orl-mus LD50:730 mg/kg NIIRDN 6,720,82
ipr-mus LD50:505 mg/kg ARZNAD 27,14,77
scu-mus LD50:410 mg/kg ARZNAD 4,649,54
ivn-mus LD50:475 mg/kg NIIRDN 6,720,82

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. See also THEOPHYLLINE.

HOA500 CAS: 590-63-6 HR: 3 (2-HYDROXYPROPYL)TRIMETHYLAMMONIUM CHLORIDE CARBAMATE

mf: C₇H₁₇N₂O₂•Cl mw: 196.71

PROP: Hygroscopic crystals with slt amine odor. Mp: 218–219° (decomp). Very sol in H₂O.

SYNS: 2-((AMINOCARBONYL)OXY)-N,N,N-TRIMETHYL-1-PROPANAMINIUM CHLORIDE □ BETHAINE CHOLINE CHLORIDE □ BETHANECHOL CHLORIDE □ 2-CARBAMOYL-OXYPROPYLTRIMETHYLAMMONIUM CHLORIDE □

CARBAMYL METHYLCHOLINE CHLORIDE □ DUVOID □ MECHOTHANE □ β-METHYLCHOLINE CHLORIDE
CARBAMINOYL □ β-METHYLCHOLINE CHLORIDE URETHAN
□ MYOCHOLINE □ URECHOLINE □ URECHOLINE CHLORIDE

TOXICITY DATA with REFERENCE:

scu-hmn TDLo:130 mg/kg;SKN 34ZIAG -,130,69
scu-man TDLo:1071 µg/kg/3D-I:SKN ARDEAC 95,499,67

orl-rat LD50:1500 mg/kg JPETAB 58,337,36
scu-rat LD50:175 mg/kg JPETAB 58,337,36
ivn-rat LD50:21 mg/kg JPETAB 58,337,36
ims-rat LD50:220 mg/kg NIIRDN 6,139,82
orl-mus LD50:250 mg/kg JPETAB 58,337,36
scu-mus LD50:120 mg/kg JPETAB 58,337,36
ivn-mus LD50:10 mg/kg JPETAB 58,337,36
ims-mus LD50:192 mg/kg NIIRDN 6,139,82
ivn-gpg LDLo:13 mg/kg AIPTAK 106,245,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, subcutaneous, intramuscular and intravenous routes. Human systemic effects by subcutaneous route: allergic dermatitis and sweating. Used as a synthetic cholinergic drug. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and Cl⁻. See also CARBAMATES.

HOA575 CAS: 114-03-4 HR: 2 di-HYDROXYTRYPTOPHAN

mf: C₁₁H₁₂N₂O₃ mw: 220.25

PROP: Rods or needles from EtOH (aq). Decomposes @ 298–300°. Mod sol in water; sol in 50% boiling alc.

SYNS: 5-HYDROXYTRYPTOPHAN □ (±)-5-HYDROXYTRYPTOPHAN □ di-5-HYDROXYTRYPTOPHAN □ PRETONINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1080 mg/kg NYKZAU 69,523,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.

HOA600 CAS: 4350-09-8 HR: 3 5-HYDROXY-L-TRYPTOPHAN

mf: C₁₁H₁₂N₂O₃ mw: 220.25

PROP: Pale-pink needles. Mp: 273° (decomp).

SYNS: L-5-HTP □ L-5-HYDROXYTRYPTOPHAN □ L-TRYPTOPHAN, 5-HYDROXY-, (9CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:243 mg/kg NYKZAU 69,523,73
ipr-rat LD50:91 mg/kg NYKZAU 69,523,73
scu-rat LD50:149 mg/kg IYKEDH 6,307,75
ivn-rat LD50:27 mg/kg IYKEDH 6,307,75
ipr-mus LD50:298 mg/kg IYKEDH 6,307,75
ivn-mus LD50:375 mg/kg NYKZAU 69,523,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. An experimental teratogen. Other experimental reproductive

effects. When heated to decomposition it emits toxic fumes of NO_x.

HOB000 CAS: 54643-52-6 HR: 2
3-HYDROXYPURIN-2(3H)-ONE

mf: C₅H₄O₂ mw: 96.09

SYNS: 3-HYDROXY-2-OXOPURINE

TOXICITY DATA with REFERENCE:

scu-rat TDLo:96 mg/kg/8W-I:ETA CBINA8 25,369,79

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.

HOB025 CAS: 99026-65-0 HR: D
N-(3-HYDROXY-1-PYRENYL)ACETAMIDE

mf: C₁₈H₁₃NO₂ mw: 275.32

SYNS: 1-ACETAMIDOPYREN-3-OL □ ACETAMIDE, N-(3-HYDROXY-1-PYRENYL)- □ 3-PYRENOL, 1-ACETAMIDO-

TOXICITY DATA with REFERENCE:

mic-sat 50 ng/plate MUREAV 369,209,1996

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HOB050 CAS: 91598-91-3 HR: D
N-(6-HYDROXY-1-PYRENYL)ACETAMIDE

mf: C₁₈H₁₃NO₂ mw: 275.32

SYNS: 1-ACETAMIDOPYREN-6-OL □ ACETAMIDE, N-(6-HYDROXY-1-PYRENYL)- □ 1-PYRENOL, 6-ACETAMIDO-

TOXICITY DATA with REFERENCE:

mic-sat 50 ng/plate MUREAV 369,209,1996

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HOB100 CAS: 626-64-2 HR: 2
4-HYDROXYPYRIDINE

mf: C₅H₅NO mw: 95.11

SYNS: γ-HYDROXYPYRIDINE □ 4-PYRIDINOL

TOXICITY DATA with REFERENCE:

ipr-mus LD50:923 mg/kg TOXIA6 23,815,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

HOB500 CAS: 1121-30-8 HR: 3
1-HYDROXY-2-PYRIDINETHIONE

mf: C₅H₅NOS mw: 127.17

PROP: Crystals from C₆H₆/pet ether. Mp: 68°. Sol in CHCl₃.

SYNS: 1-HYDROXY-2-(1H)-PYRIDINETHIONE □ OMADINE □ PTO □ PYRITHIONE □ SQ 2113

TOXICITY DATA with REFERENCE:

orl-mus LD50:535 mg/kg TXAPA9 2,156,60

ipr-mus LD50:165 mg/kg TXAPA9 2,156,60

scu-mus LD50:450 mg/kg TXAPA9 2,156,60

ivn-mus LD50:340 mg/kg TXAPA9 2,156,60

orl-cat LD50:108 mg/kg TOANDB 3,1,79

orl-bwd LD50:100 mg/kg AECTCV 12,355,83

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. Moderately toxic

by subcutaneous route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

HOC000 CAS: 15922-78-8 HR: 3
1-HYDROXY-2-(1H)-PYRIDINETHIONE SODIUM SALT

mf: C₅H₅NOS•Na mw: 150.16

SYNS: OMACIDE 24 □ SODIUM OMADINE □ SODIUM PYRIDINETHIONE □ SODIUM PYRITHIONE SQ 3277 □ SQ 3277

TOXICITY DATA with REFERENCE:

orl-rat LDLo:745 mg/kg TXAPA9 2,156,60

ipr-rat LDLo:385 mg/kg TXAPA9 2,156,60

orl-mus LD50:870 mg/kg OYYAA2 8,1067,74

ipr-mus LD50:265 mg/kg TXAPA9 2,156,60

scu-mus LD50:428 mg/kg OYYAA2 8,1067,84

ivn-mus LD50:335 mg/kg TXAPA9 2,156,60

ivn-rbt LDLo:200 mg/kg TXAPA9 9,269,66

DFG MAK: 1 mg/m³

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of Na₂O, NO_x, and SO_x.

HOC500 CAS: 10182-82-8 HR: D
β-(N-(3-HYDROXY-4-PYRIDONE))-α-AMINO-PROPIONIC ACID

mf: C₈H₁₀N₂O₄ mw: 198.20

PROP: Amino acid extracted from *Leucaena leucocephala* (TJADAB 3,21,70).

SYNS: LECENINE □ LEUCAENINE □ LEUCAENOL □ LEUCENOL □ MIMOSINE

TOXICITY DATA with REFERENCE:

dni-hmn:oth 200 μmol/L TOXIA6 9,241,71

oth-hmn:oth 200 μmol/L TOXIA6 9,241,71

orl-rat TDLo:22,750 mg/kg (female 42D pre):REP BCPCA6 14,1167,65

orl-rat TDLo:5558 mg/kg (female 1-19D post):TER TJADAB 3,21,70

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

HOE000 CAS: 1571-30-8 HR: 2
8-HYDROXYQUINALDIC ACID

mf: C₁₀H₇NO₃ mw: 189.18

PROP: Crystals. Mp: 210°.

TOXICITY DATA with REFERENCE:

imp-mus TDLo:160 mg/kg:NEO ANYAA9 108,924,63

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x.

HOE100 CAS: 86-75-9 HR: D
8-HYDROXYQUINOLINE BENZOATE

mf: C₁₆H₁₁NO₂ mw: 249.28

SYNS: BENZOIC ACID, 8-QUINOLYL ESTER □ BENZOXYQUINE □ BENZOXYLINE □ BENZOXYQUINE □ 8-BENZOYLOXYQUINOLINE □ DIOXYLINE □ OXYQUINOLINE BENZOATE □ 8-QUINOLINOL, BENZOATE (ester)

TOXICITY DATA with REFERENCE:

mno-bcs 10 mmol/L FAVUAI 6,118,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

**HOE150 CAS: 55720-07-5 HR: D
8-HYDROXYQUINOLINE SUCCINATE**

mf: C₁₄H₁₀O₄•xH₂O mw: 1134.29

SYNS: BUTANEDIOIC ACID, COMPOUNDS, COMPD. WITH 8-QUINOLINOL □ 8-QUINOLINOL, SUCCINATE (SALT) □ SUCCINATE OF 8-OXYQUINOLINE

TOXICITY DATA with REFERENCE:

mic-bcs 10 mmol/L FAVUAI 6,118,1974

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

**HOE200 CAS: 2598-31-4 HR: 3
8-HYDROXY-5-QUINOLYL METHYL KETONE**

mf: C₁₁H₉NO₂ mw: 187.21

SYNS: 5-ACETYL-8-HYDROXYQUINOLINE □ 5-ACETYLOX-INE □ ETHANONE, 1-(8-HYDROXY-5-QUINOLINYL)-(9CI) □ 1-(8-HYDROXY-5-QUINOLINYL)ETHANONE □ KETONE, 8-HYDROXY-5-QUINOLYL METHYL

TOXICITY DATA with REFERENCE:

ipr-mus LD50:500 mg/kg IJPPAZ 8,33,64

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

**HOE500 CAS: 59901-91-6 HR: 2
1'-HYDROXYSAFROLE-2',3'-OXIDE**

mf: C₁₀H₁₀O₄ mw: 194.20

SYN: α-EPOXYETHYL-1,3-BENZODIOXOLE-5-METHANOL

TOXICITY DATA with REFERENCE:

mno-sat 200 nmol/plate MUREAV 60,143,79

mma-sat 20 nmol/plate CRSBAW 171,1041,77

scu-rat TDLo:1554 mg/kg/10W-I:CAR CNREA8 43,1124,83

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

**HOE600 CAS: 89-86-1 HR: D
4-HYDROXYSAICYLIC ACID**

mf: C₇H₆O₄ mw: 154.13

PROP: Crystals from H₂O. Mp: 218–219°.

SYNS: BENZOIC ACID, 2,4-DIHYDROXY- (9CI) □ 4-CARBOXY-RESORCINOL □ 2,4-DHBA □ 2,4-DIHYDROXYBENZOIC ACID □ p-HYDROXYSAICYLIC ACID □ β-RESORCINOLIC ACID □ β-RESORCYLIC ACID

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An experimental teratogen. When heated to decomposition it emits acrid smoke and irritating fumes.

**HOF000 CAS: 26782-43-4 HR: 3
HYDROXYSENKIRKINE**

mf: C₁₉H₂₇NO₇ mw: 381.47

PROP: Isolated from the plant *Crotalaria laburnifolia*.

SYN: 8,12,18-TRIHYDROXY-4-METHYL-11,16-DIOXOSENECIONANUM

TOXICITY DATA with REFERENCE:

orl-rat LDLo:200 mg/kg NATUAS 227,401,70

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 10,265,76.

SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

**HOF500 HR: 3
5-HYDROXY-1(N-SODIO-5-TETRAZOLYLAZO)-TETRAZOLE**

mf: C₂HN₁₀NaO mw: 204.09

SYN: SODIUM-5(5'-HYDROXYTETRAZOL-3'-YLAZO)-TETRAZOLIDE

SAFETY PROFILE: Highly explosive when heated. When heated to decomposition it emits very toxic fumes of NO_x and Na₂O.

**HOG000 CAS: 106-14-9 HR: 2
12-HYDROXYSTEARIC ACID**

mf: C₁₈H₃₆O₃ mw: 300.54

SYNS: BAROLUB FTO □ CERIT FAC 3 □ CEROXIN GL □ HARWAX A □ HYDROFOL ACID 200 □ 12-HYDROXYSTEARIC ACID □ KOW □ LOXIOL G 21

TOXICITY DATA with REFERENCE:

mno-esc 700 μmol/L MUREAV 122,87,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

**HOG500 CAS: 141-23-1 HR: 2
12-HYDROXYSTEARIC ACID, METHYL ESTER**

mf: C₁₉H₃₈O₃ mw: 314.57

PROP: Mp: 53.4–53.6°, bp: 204–206° @ 4 mm.

SYN: METHYL-12-HYDROXYSTEARATE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

**HOH000 CAS: 65520-53-8 HR: D
1-HYDROXY-2-(3-SULFOPROPOXY)ANTHRA-QUINONE SODIUM SALT**

mf: C₁₇H₁₃O₇S•Na mw: 384.35

TOXICITY DATA with REFERENCE:

mno-sat 500 μg/plate BCSTB5 5,1489,77

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and Na₂O.

**HOH100 CAS: 68047-06-3 HR: D
4-HYDROXYTAMOXIFEN**mf: C₂₆H₂₉NO₂ mw: 387.56

SYNS: trans-4-(1-(4-(2-(DIMETHYLAMINO)ETHOXY)PHENYL)-2-PHENYL-1-BUTENYL)PHENOL □ HYDROXYTAMOXIFEN □ ICI 79,280 □ PHENOL,4-(1-(4-(2-(DIMETHYLAMINO)ETHOXY)-PHENYL)-2-PHENYL-1-BUTENYL)-, (E)-

TOXICITY DATA with REFERENCE:

mnt-hmn-lym 125 µg/L CRNGDP 18,303,1997

sln-hmn-lym 250 µg/L CRNGDP 18,303,1997

SAFETY PROFILE: Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**HOH200 CAS: 97170-41-7 HR: D
α-HYDROXYTAMOXIFEN**mf: C₂₆H₂₉NO₂ mw: 387.56

SYNS: BENZENEETHANOL, β-((4-(2-(DIMETHYLAMINO)-ETHOXY)PHENYL)PHENYLMETHYLENE)-α-METHYL-, (Z)- □ (Z)-β-((4-(2-(DIMETHYLAMINO)ETHOXY)PHENYL)PHENYLMETHYLENE)-α-METHYLBENZENEETHANOL

TOXICITY DATA with REFERENCE:

mic-sat 40 nmol/plate CRNGDP 19,1709,1998

add-rat-lvr 1 µmol/L CRNGDP 19,861,1998

msc-ham-lng 10 µmol/L CRNGDP 19,1709,1998

slt-ipr-rat 420 mg/kg/21D CALEDQ 176,37,2002

msc-orl-rat 0.399 µg/kg/10D-I CRNGDP 22,553,2001

dnd-ipr-rat 0.515 µg/kg/5D-I CRNGDP 22,553,2001

add-orl-rat 146.3 mg/kg/7D-I CRNGDP 22,1307,2001

add-ipr-rat 146.3 mg/kg/7D-I CRNGDP 22,1307,2001

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**HOH500 CAS: 79-57-2 HR: 3
5-HYDROXYTETRACYCLINE**mf: C₂₂H₂₄N₂O₉ mw: 460.48**PROP:** Light-yellow crystals or needles from MeOH (aq).

Mp: 181–182° (decomp) (hydrate).

SYNS: ADAMYCIN □ ANTIBIOTIC TM 25 □ BERKMYCEN □ BIOSTAT □ BIOSTAT PA □ DABICYCLINE □ FANTERRIN □ GEOMYCIN □ LENOCYCLINE □ LIQUAMYCIN LA 200 □ MACOCYN □ MYCOSHIELD TMQTHC 20 □ NCI-C56473 □ OKSISYKLIN □ OTC □ OXITETRACYCLIN □ OXYMYCIN □ OXYMYKON □ OXYTERRACIN □ OXYTERRACINE □ OXYTERRACYNE □ OXYTETRACYCLINE □ OXYTETRACYCLINE AMPHOTERIC □ RIOMITSIN □ RYOMYCIN □ TAOMYCIN □ TAOMYXIN □ TERRAFUNGINE □ TERRAMITSIN □ TERRAMYCIN □ TETRACYCLINE, 5-HYDROXY- □ TETRAN

TOXICITY DATA with REFERENCE:

spm-rat-unr 80 mg/kg/8D JOURAA 112,348,74

orl-man TDLo:114 mg/kg/4D:SKN,BLD JAMAAP 231,734,75

par-inf TDLo:136 mg/kg:MSK LANCAO 1,827,62

orl-rat LD50:4800 mg/kg 85ERAY 1,501,78

ivn-rat LD50:260 mg/kg 85ERAY 1,501,78

orl-mus LD50:2240 mg/kg ARZNAD 5,155

ipr-mus LD50:5706 mg/kg ANTBAL 20,793,75

scu-mus LD50:700 mg/kg 85GDA2 3,44,80

ivn-mus LD50:140 mg/kg ARZNAD 5,155

ivn-dog LDLo:220 mg/kg ANTCAO 3,1015,53

ipr-gpg LDLo:2250 mg/kg ANTBAL 20,793,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by intravenous route. Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. Human systemic effects by ingestion: hemorrhage, dermatitis, and unspecified effects on teeth and supporting structures. Human reproductive effects by an unspecified route: abnormal postnatal measures or effects. Experimental teratogenic and reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also TETRACYCLINE and various tetracycline derivatives.**HOI000 CAS: 2058-46-0 HR: 3
5-HYDROXYTETRACYCLINE HYDROCHLORIDE**mf: C₂₂H₂₄N₂O₉•ClH mw: 496.94**PROP:** Needles from MeOH; yellow platelets from H₂O.

SYNS: BISOLVOMYCIN □ HYDROCYCLIN □ LIQUAMYCIN INJECTABLE □ NSC-9169 □ OTETRYN □ OXLOPAR □ OXYJECT 100 □ OXYTETRACYCLINE HYDROCHLORIDE □ TERAMYCIN HYDROCHLORIDE □ TETRAMINE □ TETRAN HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

dnd-bcs 10 µmol/L BIORAK 39,587,74

mnt-mus-orl 100 mg/kg/24H-I MUREAV 117,193,83

scu-rat LD50:800 mg/kg ARZNAD 9,711,59

ivn-rat LD50:302 mg/kg JPETAB 99,234,50

orl-mus LD50:6696 mg/kg ANYAA9 53,238,50

scu-mus LD50:963 mg/kg JPETAB 99,234,50

ivn-mus LD50:100 mg/kg 85FZAT -,490,67

ivn-dog LDLo:100 mg/kg ANYAA9 53,238,50

ivn-rbt LDLo:80 mg/kg JPETAB 99,234,50

CONSENSUS REPORTS: NTP Carcinogenesis Studies (feed); Equivocal Evidence: rat NTPTR* NTP-TR-315,87. NTP Carcinogenesis Studies (feed); No Evidence: mouse NTPTR* NTP-TR-315,87. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Moderately toxic by subcutaneous route. Mildly toxic by ingestion. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also TETRACYCLINE and various tetracycline derivatives.**HOI200 CAS: 453-20-3 HR: 2
3-HYDROXYTETRAHYDROFURAN**mf: C₄H₈O₂ mw: 88.12

SYNS: 3-FURANOL, TETRAHYDRO- □ TETRAHYDRO-3-FURANOL

TOXICITY DATA with REFERENCE:

ivn-mus LD50:3850 mg/kg JPPMAB 22,694,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.**HOI222 CAS: 128202-33-5 HR: 2
2-HYDROXY-1,2,3,3-TETRAHYDRO-3H-PYRANO
(3,2-F)QUINOLINE-8(7H)-ONE**mf: C₁₂H₁₁NO₃ mw: 217.22

SYN: 1H-PYRANO(3,2-F)QUINOLIN-8(7H)-ONE, 2,3-DIHYDRO-2-HYDROXY-

TOXICITY DATA with REFERENCE:

orl-mus LD50:2000 mg/kg USXXAM #5093339

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

HOI245 CAS: 90035-14-6 HR: 3
4-HYDROXY-3-(1,2,3,4-TETRAHYDRO-3-(4-(4-(TRIFLUOROMETHYL)PHENOXY) PHENYL)-1-NAPHTHALENYL)2H-1-BENZOPYRAN-2-ONE

mf: C₃₂H₂₃F₃O₄ mw: 528.55

TOXICITY DATA with REFERENCE:

orl-rat LD50:320 µg/kg USXXAM #4520007

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of F⁻.

HOI265 CAS: 90034-99-4 HR: 3
4-HYDROXY-3-(1,2,3,4-TETRAHYDRO-3-(4-(TRIFLUOROMETHYL)PHENYL)-1-NAPHTHALENYL)2H-BENZOPYRAN-2-ONE

mf: C₂₆H₁₉F₃O₃ mw: 436.45

TOXICITY DATA with REFERENCE:

orl-rat LD50:680 µg/kg USXXAM #4520007

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of F⁻.

HOI300 CAS: 2226-96-2 HR: D
4-HYDROXY-2,2,6,6-TETRAMETHYL-1-PIPERIDINYLOXY

mf: C₉H₁₈NO₂ mw: 172.28

SYNS: 4-OXYPIPERIDOL □ PIPERIDINOOXY, 4-HYDROXY-2,2,6,6-TETRAMETHYL- □ 1-PIPERIDINYLOXY, 4-HYDROXY-2,2,6,6-TETRAMETHYL-(9CI) □ TANOL □ TEMPOL □ TETRAMETHYLPYPERIDINOL N-OXYL □ TMPN

TOXICITY DATA with REFERENCE:

mno-sat 24 µmol/plate ABBIA4 251,393,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

HOI400 CAS: 24282-51-7 HR: 3
3-HYDROXY-2,2,5,5-TETRAMETHYLTETRAHYDRO-3-FURYL METHYL KETONE

mf: C₁₀H₁₈O₃ mw: 186.28

SYNS: KETONE, 3-HYDROXY-2,2,5,5-TETRAMETHYLTETRAHYDRO-3-FURYL METHYL- □ 2,2,5,5-TETRAMETHYLTETRAHYDRO-3-HYDROXY-3-FURANYL METHYL KETONE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:715 mg/kg JPPMAB 22,694,70

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intravenous route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

HOJ000 CAS: 1012-82-4 HR: 2
7-HYDROXYTHEOPHYLLINE

mf: C₇H₈N₄O₃ mw: 196.19

SYNS: 3,7-DIHYDRO-7-HYDROXY-1,3-DIMETHYL-1H-PURINE-2,6-DIONE (9CI) □ 7-HYDROXYTHEOPHYLLIN (GERMAN)

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also various theophylline entries.

HOJ100 CAS: 31571-52-5 HR: 3
6-HYDROXY-2-THIO-8-AZAPURINE

mf: C₄H₃N₅OS mw: 169.18

SYNS: 8-AZAPURINE, 6-HYDROXY-2-THIO- □ 8-AZA-2-THIOXANTHINE □ 2-THIO-6-HYDROXY-8-AZAPURINE □ 5-THIONO-v-TRIAZOLO(4,5-d)PYRIMIDIN-7(4H,6H)-ONE □ 7H-1,2,3-TRIAZOLO(4,5-d)PYRIMIDIN-7-ONE, 1,4,5,6-TETRAHYDRO-5-THIOXO-(9CI) □ 3H-v-TRIAZOLO(4,5-d)PYRIMIDIN-7(4H,6H)-ONE, 5-THIONO- □ USAF CB-25

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

HOJ150 CAS: 3569-58-2 HR: 3
HYDROXYTHIOSPASMIN

mf: C₁₈H₂₇O₃S•I mw: 450.41

SYNS: OXYSONIUM IODIDE □ SULFONIUM, (2-((CYCLOHEXYLHYDROXYPHENYLACETYL)OXY)ETHYL)DIMETHYL-, IODIDE □ SULFONIUM, (2-HYDROXYETHYL)DIMETHYL-, IODIDE, α-PHENYLCYCLOHEXANEGLYCOLATE

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:33 mg/kg PHTXA6 20,348,1957

orl-mus LD50:360 mg/kg PHTXA6 20,348,1957

ivn-mus LD50:8700 µg/kg 28ZPAK-,254,1972

ivn-rbt LDLo:15 mg/kg PHTXA6 20,348,1957

SAFETY PROFILE: A poison by ingestion and intravenous routes. When heated to decomposition it emits toxic vapors of SO_x and I⁻.

HOK000 CAS: 81-48-1 HR: 3
1-HYDROXY-4-(p-TOLUIDINO)ANTHRAQUINONE

mf: C₂₁H₁₅NO₃ mw: 329.37

PROP: Crystals. Sol in concentrated H₂SO₄.

SYNS: AHCOQUINONE BLUE IR BASE □ ALIZARINE VIOLET 3B BASE □ C.I. SOLVENT VIOLET 13 □ D+C VIOLET No. 2 □ N-(4-HYDROXY-1-ANTHRAQUINONYL)-4-METHYLANILINE □ N-(4-HYDROXY-1-ANTHRAQUINONYL)-p-TOLUIDINE □ IRISOL BASE □ OIL VIOLET IRS □ N-(p-TOLYL)-4-HYDROXY-1-ANTHRAQUINONYLAMINE □ 11092 VIOLET □ WAXOLINE PURPLE A

TOXICITY DATA with REFERENCE:

mno-sat 25 µg/plate NTIS** AD-A142-106

itr-rat LD50:250 mg/kg 85JCAE -,1329,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intratracheal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

**HOL000 CAS: 64050-03-9 HR: 3
(3-HYDROXY-p-TOLYL)TRIMETHYLAMMONIUM
CHLORIDE,METHYLCARBAMATE**mf: C₁₂H₁₉N₂O₂·Cl mw: 258.78**SYN:** METHYLCARBAMIC ACID-5-(TRIMETHYLAMMONIO)-o-TOLYL ESTER, CHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2500 µg/kg NTIS** PB158-508

ipr-rat LD50:78 µg/kg NTIS** PB158-508

scu-rat LD50:100 µg/kg NTIS** PB158-508

ipr-mus LD50:88 µg/kg NTIS** PB158-508

scu-mus LD50:64 µg/kg NTIS** PB158-508

ivn-mus LD50:35 µg/kg NTIS** PB158-508

scu-dog LDLo:2 mg/kg NTIS** PB158-508

imp-mky LDLo:50 µg/kg NTIS** PB158-508

SAFETY PROFILE: A deadly poison by ingestion, intraperitoneal, subcutaneous, intravenous, and implantation routes. When heated to decomposition it emits very toxic fumes of NO_x and Cl⁻. See also CARBAMATES and ESTERS.**HOL100 CAS: 2000-40-0 HR: 2
(1-HYDROXY-2,2,2-TRICHLOROETHYL)UREA**mf: C₃H₅Cl₃N₂O₂ mw: 207.45**SYNS:** CHLORALUREA □ MONOCHLORALUREA □ UREA, (1-HYDROXY-2,2,2-TRICHLOROETHYL)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD :>500 mg/kg CBCCT* 4,323,52

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**HOL125 CAS: 6515-38-4 HR: 2
2-HYDROXY-3,5,6-TRICHLOROPYRIDINE**mf: C₅H₂Cl₃NO mw: 198.43**SYNS:** 2(1H)-PYRIDINONE, 3,5,6-TRICHLORO- □ 2(1H)-PYRIDONE, 3,5,6-TRICHLORO- □ TCP □ 3,5,6-TRICHLORO-2(1H)-PYRIDINONE □ 3,5,6-TRICHLORO-2-HYDROXY-PYRIDINE □ 3,5,6-TRICHLOROPYRIDINE-2-OL □ 3,5,6-TRICHLORO-2-PYRIDINOL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:800 mg/kg TOSCF2 53,100,2000

skn-rbt LD50:>2 g/kg TOSCF2 53,100,2000

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**HOL145 CAS: 125316-60-1 HR: D
6-(4-HYDROXY-3-TRICYCLO(3.3.1.1(3,7))DEC-1-YLPHENYL)-2-NAPHTHALENECARBOXYLIC
ACID**mf: C₂₇H₂₆O₃ mw: 398.53**SYNS:** CD 437 □ 2-NAPHTHALENECARBOXYLIC ACID, 6-(4-HYDROXY-3-TRICYCLO(3.3.1.1(3,7))DEC-1-YLPHENYL)-**TOXICITY DATA with REFERENCE:**

dni-hmn-oth 0.1 µmol/1/6D CALEDQ 137,217,1999

SAFETY PROFILE: Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HOL200 CAS: 65176-75-2 HR: 2****8-HYDROXY-6,10,11-TRIMETHOXY-3A,12C-DIHYDRO-7H-FURO(3',2':4,5)FURO(2,3-C)XANTHEN-7-ONE**mf: C₂₀H₁₄O₈ mw: 382.34**SYNS:** 5,6-DIMETHOXYSTERIGMATOCYSTIN □ DMSC □ 7H-FURO(3',2':4,5)FURO(2,3-C)XANTHEN-7-ONE, 3A,12C-DIHYDRO-8-HYDROXY-6,10,11-TRIMETHOXY-**TOXICITY DATA with REFERENCE:**

mic-sat 2 µg/plate AEMIDF 38,1015,79

dns-rat-lvr 1 µmol/L MUREAV 173,217,86

orl-rat TDLo:819 mg/kg/39W-C:CAR CRNGDP 9,1039,88

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HOL223 CAS: 5557-27-7 HR: D
8-HYDROXY-1,3,5-TRIMETHOXYXANTHEN-9-ONE**mf: C₁₆H₁₄O₆ mw: 302.30**SYNS:** DIMETHYLBELLIDIFOLIN □ XANTHEN-9-ONE, 8-HYDROXY-1,3,5-TRIMETHOXY-**TOXICITY DATA with REFERENCE:**

mic-sat 10 µLg/plate MUREAV 150,141,1985

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**HOM259 CAS: 13074-00-5 HR: D
17-β-HYDROXY-4,4,17-α-TRIMETHYL-ANDROST-5-ENE(2,3-d)ISOXAZOLE**mf: C₂₃H₃₃NO₂ mw: 355.57**PROP:** Crystals from EtOH. Mp: 177–180°.**SYNS:** ANDROSTA-2,5-DIENO(2,3-d)ISOXAZOL-17-OL, 4,4,17-TRIMETHYL-, (17-β)-(9CI) □ AZASTENE □ ISOXAZOL □ 4,4,17-α-TRIMETHYLANDROST-5-ENO(2,3-d)ISOXAZOL-17-OL □ WIN 17625**SAFETY PROFILE:** Experimental teratogenic and reproductive effects. A steroid. When heated to decomposition it emits toxic fumes of NO_x.**HOM270 CAS: 3902-71-4 HR: 2
6-HYDROXY-β,2,7-TRIMETHYL-5-BENZOFURANACRYLIC ACID γ-LACTONE**mf: C₁₄H₁₂O₃ mw: 228.26**SYNS:** 7H-FURO(3,2-G)(1)BENZOPYRAN-7-ONE, 2,5,9-TRIMETHYL- □ NSC-71047 □ 2,5,9-TRIMETHYL-7H-FURO(3,2-G)(1)BENZOPYRAN-7-ONE □ 2',4,8-TRIMETHYLPORALEN □ 4,5',8-TRIMETHYLPORALEN □ TRIOXALEN □ TRIOXSALEN □ TRIOXSALEN □ TRISORALEN**TOXICITY DATA with REFERENCE:**

mic-bac-sat 200 µg/plate MUREAV 136,49,84

dnd-mic-uns 3 mg/L BICHAW 20,1431,81

dnd-mic-uns 3 mg/L BICHAW 20,1431,81

orl-rat LD50:>22 g/kg DRUGAY 6,520,82

orl-mus LD50:>7 g/kg DRUGAY 6,520,82

ipr-mus LD50:>3 g/kg DRUGAY -,740,90

scu-mus LD50:>4 g/kg DRUGAY -,740,90

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,366,87; Human Inadequate Evidence IMEMDT 40,357,86; Animal Inadequate

Evidence IMEMDT 40,357,86. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. Low toxicity by ingestion. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

HOM300 CAS: 791-31-1 HR: 3
HYDROXYTRIPHENYLSILANE

mf: $C_{18}H_{16}OSi$ mw: 276.43

SYN: SILANE, HYDROXYTRIPHENYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#04018

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

HON000 CAS: 76-87-9 HR: 3
HYDROXYTRIPHENYLSTANNANE

mf: $C_{18}H_{16}OSn$ mw: 367.03

PROP: White powder. Mp: 116–120° (decomp). Mod sol in most org solvs; very sltly sol in H_2O .

SYNS: DOWCO 186 □ DU-TER □ ENT 28,009 □ FENOLOVO □ FENTIN HYDROXIDE □ FINTINE HYDROXYDE (FRENCH) □ FINTIN HYDROXID (GERMAN) □ FINTIN HYDROXYDE (DUTCH) □ FINTIN IDROSSIDO (ITALIAN) □ HAITIN □ HYDROXYDE de TRIPHENYL-ETAIN (FRENCH) □ HYDROXYTRIPHENYLTIN □ IDROSSIDO DI STAGNO TRIFENILE (ITALIAN) □ NCI-C00260 □ SUZU H □ TPTH □ TRIFENYL-TINHYDROXYDE (DUTCH) □ TRIPHENYLTIN HYDROXIDE (USDA) □ TRIPHENYLTIN OXIDE □ TRIPHENYL-ZINNHYDROXID (GERMAN) □ TUBOTIN □ VANCIDE KS

TOXICITY DATA with REFERENCE:

eye-rbt 10 mg CTOXAO 13,281,78

eye-gpg 100%/2S rns SEV TXAPA9 14,628,69

otr-rat:emb 19 ng/plate JJATDK 1,190,81

orl-rat LD50:46 mg/kg NCI-B* NIH-NCI-E-C-72-3252

ipr-rat LDLo:100 mg/kg NCNSA6 5,46,53

orl-mus LD50:209 mg/kg YKYUA6 30,505,79

ipr-mus LDLo:8500 µg/kg TXAPA9 23,288,72

CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCI-TR* NCI-CG-TR-139,78. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. Moderately toxic by an unspecified route. A severe eye irritant. Experimental teratogenic and reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes. See also TIN COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

HON500 HR: 3

3-HYDROXYTROPOLONE

mf: $C_7H_6O_3$ mw: 138.13

SYN: 2,3-DIHYDROXY-2,4,6-CYCLOHEPTATRIEN-1-ONE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:345 mg/kg YKKZAJ 91,550,71

scu-mus LD50:520 mg/kg YKKZAJ 91,550,71

ivn-mus LD50:177 mg/kg YKKZAJ 91,550,71

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits acrid smoke and fumes.

HON800 CAS: 114-03-4 HR: 3
di-HYDROXYTRYPTOPHAN

mf: $C_{11}H_{12}N_2O_3$ mw: 220.25

SYNS: 5-HYDROXYTRYPTOPHAN □ (±)-5-HYDROXYTRYPTOPHAN

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1080 mg/kg NYKZAU 69,523,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x .

HOO000 CAS: 4350-09-8 HR: 3
5-HYDROXY-L-TRYPTOPHAN

mf: $C_{11}H_{12}N_2O_3$ mw: 220.25

SYNS: L-5-HTP □ L-5-HYDROXYTRYPTOPHAN

TOXICITY DATA with REFERENCE:

orl-rat LD50:243 mg/kg NYKZAU 69,523,73

ipr-rat LD50:91 mg/kg NYKZAU 69,523,73

scu-rat LD50:149 mg/kg IYKEDH 6,307,75

ivn-rat LD50:27 mg/kg IYKEDH 6,307,75

orl-mus LD50:1708 mg/kg IYKEDH 6,307,75

ipr-mus LD50:298 mg/kg IYKEDH 6,307,75

scu-mus LD50:418 mg/kg IYKEDH 6,307,75

orl-rbt LD50:285 mg/kg IYKEDH 6,307,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .

HOO100 CAS: 56-69-9 HR: 3
5-HYDROXYTRYPTOPHANE

mf: $C_{11}H_{12}N_2O_3$ mw: 220.25

PROP: dl form: minute rods or needles, decomp @ 298–300°; l form: crystals; d form: crystals.

SYNS: 5-HTP □ HYDROXYTRYPTOPHAN □ 5-HYDROXYTRYPTOPHAN □ NCI-C56644 □ USAF CB-96

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .

HOO500 CAS: 127-07-1 HR: 2

orl-wmn TDLo:500 µg/kg:BAH HUPSEC 7,25,92
orl-man TDLo:357 µg/kg:BAH HUPSEC 7,25,92
orl-rat LD50:950 mg/kg TXAPA9 18,185,71
ipr-rat LD50:126 mg/kg TXAPA9 18,185,71
ipr-mus LD50:122 mg/kg YKYUA6 24,100,73
ivn-mus LD50:48,900 µg/kg YKYUA6 24,100,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Human systemic effects: altered sleep time. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.

**HOR500 CAS: 5978-92-7 HR: 3
HYDROXYZINE PAMOATE**

mf: C₄₄H₄₁ClN₂O₇ mw: 745.32

PROP: Crystals, insol in H₂O.

SYN: 4,4'-METHYLENEBIS(3-HYDROXY-2-NAPTHOIC ACID ESTER) with 2-(2-(4-(p-CHLORO-α-PHENYLBENZYL)-1-PIPERAZINYL)-ETHOXY)ETHANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1740 mg/kg NIIRDN 6,621,82
orl-mus LD50:1840 mg/kg NIIRDN 6,621,82
ipr-mus LD50:360 mg/kg NIIRDN 6,621,82

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. Experimental teratogenic effects. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.

**HOS500 CAS: 71767-91-4 HR: 3
HYGROSTATIN**

PROP: An antibiotic produced by *Streptomyces hygrostaticus* (85ERAY 2,1123,78).

TOXICITY DATA with REFERENCE:

orl-mus LD50:530 mg/kg 85ERAY 2,1123,78
ipr-mus LD50:22 mg/kg 85ERAY 2,1123,78
scu-mus LD50:247 mg/kg 85ERAY 2,1123,78
ivn-mus LD50:9 mg/kg 85ERAY 2,1123,78

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and fumes.

**HOT000 CAS: 57074-51-8 HR: D
HYMENOVIN**

mf: C₁₅H₂₂O₅ mw: 282.37

TOXICITY DATA with REFERENCE:

mno-sat 350 µmol/plate TXAPA9 45,629,78
mma-sat 3 µg/plate FCTXAV 15,225,77

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

**HOT200 CAS: 57377-32-9 HR: 3
HYMENOXON**

mf: C₁₅H₂₂O₅ mw: 282.37

PROP: Crystals.

SYN: HYMENOXONE

TOXICITY DATA with REFERENCE:

mno-sat 50 µg/plate TOLED5 9,395,81
dnr-bcs 1 mg/plate RCOCB8 34,161,81
orl-mus LD50:241 mg/kg TOLED5 9,395,81

ipr-mus LD50:16,240 µg/kg RCOCB8 28,189,80
ivn-dog LD50:30 mg/kg RCOCB8 8,381,74
orl-dom LD50:75 mg/kg RCOCB8 31,181,81

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

**HOT500 CAS: 114-49-8 HR: 3
HYOSCINE HYDROBROMIDE**

mf: C₁₇H₂₁NO₄•BrH mw: 384.31

PROP: A solid. Mp: 193–194° (anhyd).

SYNS: BELDAVRIN □ EUSCOPOL □ HYDROSCINE

HYDROBROMIDE □ HYOSCINE BROMIDE □ HYOSCINE F HYDROBROMIDE □ (-)-HYOSCINE HYDROBROMIDE □ 1-HYOSCINE HYDROBROMIDE □ HYOSCYNE HYDROBROMIDE □ HYSO □ ISOSCOPIL □ KWELLS □ SCOPAMIN □ SCOPOLAMINE BROMIDE □ (-)-SCOPOLAMINE BROMIDE □ SCOPOLAMINE HYDROBROMIDE □ (-)-SCOPOLAMINE HYDROBROMIDE □ SCOPOLAMINIUM BROMIDE □ SCOPOLAMMONIUM BROMIDE □ SCOPOS □ SEREEN □ TRIPTONE

TOXICITY DATA with REFERENCE:

cyt-hmn:hla 1 pph/5H HUMAA7 4,371,67
cyt-hmn:hla 1 pph HUMAA7 4,371,67
orl-rat LD50:1270 mg/kg AIPTAK 180,155,69
scu-rat LD50:3800 mg/kg AIPTAK 180,155,69
ims-rat LD50:486 µg/kg BJPCBM 39,822,70
idu-rat LD50:670 mg/kg AIPTAK 180,155,69
orl-mus LD50:1880 mg/kg ARZNAD 18,1132,68
ipr-mus LD50:650 mg/kg CLDND* 79,127,43
ims-mus LD50:974 µg/kg BJPCBM 39,822,70
ivn-cat LDLo:80 mg/kg AEPPAE 120,189,27
ivn-rbt LDLo:100 mg/kg AEPPAE 120,189,27

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: A poison by intravenous and intramuscular routes. Moderately toxic by ingestion, subcutaneous, intraduodenal, and intraperitoneal routes. Experimental teratogenic and reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HBr. See also SCOPOLAMINE.

**HOT600 CAS: 620-61-1 HR: 3
HYOSCYAMINE SULFATE**

mf: C₃₄H₄₆N₂O₆•H₂O₄S mw: 676.90

SYNS: (-)-HYOSCYAMINE SULFATE □ 1-α-H,5-α-H-TROPAN-3-α-OL, (-)-TROPATE (ester), SULFATE (2:1)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:210 mg/kg JPMSAE 55,849,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

**HOU000 CAS: 101-31-5 HR: 3
(-)-HYOSCYAMINE**

mf: C₁₇H₂₃NO₃ mw: 289.41

PROP: White, crystalline alkaloid. Mp: 108–111°. Very sol in alc, dil acids.

SYNS: (–)-ATROPINE □ DATURINE □ HYOSCYAMINE □ 1-HYOSCYAMINE □ (–)-TROPIC ACID ESTER with TROPINE

TOXICITY DATA with REFERENCE:

unr-man LDLo:1471 µg/kg 85DCAI 2,73,70

ivn-mus LD50:95 mg/kg BJPCAL 24,138,65

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A deadly human poison by an unspecified route. An experimental poison by intravenous route. This is one of the atropine alkaloids and is very toxic, acting very much like atropine. It has the same effect on the central nervous system but twice the effect on the peripheral nerves. The symptoms of poisoning are dryness of the throat and mouth, marked difficulty in swallowing, and a sensation of burning and thirst. The vision becomes impaired through dilation and loss of accommodation, and the eyes present a rather prominent, brilliant, staring appearance. The voice is husky and the tongue is red. When heated to decomposition it emits highly toxic fumes of NO_x.

HOU059 CAS: 1977-11-3 HR: 3
HYPNODIN

mf: C₁₉H₂₁N₃ mw: 291.40

PROP: Yellow, prismatic crystals from acetone-petrol ether. Mp: 136–138°.

SYNS: AW-14'2333 □ HF-2333 □ 6-(4-METHYL-1-PIPERAZINYL)-11H-DIBENZ(b,e)AZEPINE □ 6-(4-METHYL-1-PIPERAZINYL)MORPHANTHRIDINE □ PERLAPINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:660 mg/kg IYKEDH 4,193,73

scu-rat LD50:420 mg/kg IYKEDH 4,193,73

ivn-rat LD50:60 mg/kg IYKEDH 4,193,73

orl-mus LD50:270 mg/kg NIIRDN 6,770,82

scu-mus LD50:250 mg/kg IYKEDH 4,193,73

ivn-mus LD50:61 mg/kg IYKEDH 4,193,73

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. A hypnotic agent. When heated to decomposition it emits toxic fumes of NO_x.

HOU100 CAS: 33125-97-2 HR: 3
HYPNOMIDATE

mf: C₁₄H₁₆N₂O₂•H₂O₄S mw: 342.40

PROP: Crystals from diisopropyl ether. Mp: 67°. Solubility in water at 25°: 0.0045 mg/100 mL. Sol in chloroform, methanol, ethanol, propylene glycol, acetone.

SYNS: AMIDATE □ R-(+)-ETHYL-1-(1-PHENYLETHYL)-1H-IMIDAZOLE-5-CARBOXYLATE SULFATE □ ETOMIDATE □ (R)-(+)-1-(α-METHYLBENZYL)IMIDAZOLE-5-CARBOXYLIC ACID ETHYL ESTER □ 1-(α-METHYLBENZYL)-1H-IMIDAZOLE-5-CARBOXYLIC ACID ETHYL ESTER SULFATE □ 1-(1-PHENYLETHYL)-1H-IMIDAZOLE-5-CARBOXYLIC ACID ETHYL ESTER □ R 16659

TOXICITY DATA with REFERENCE:

ivn-hmn TDLo:300 µg/kg:PUL,CNS AACRAT 55,730,76

ivn-rat LD50:14,800 µg/kg AIPTAK 214,92,75

ivn-mus LD50:29,500 µg/kg AIPTAK 214,92,75

SAFETY PROFILE: A deadly human poison by intravenous route. Human systemic effects by intravenous route: somnolence, muscle spasms and respiratory effects. A hypnotic agent. When heated to decomposition it emits

toxic fumes of SO_x and NO_x. See also ESTERS and SULFATES.

HOU500 HR: 3
HYPOCHLORITES

PROP: Salts of hypochlorous acid.

SAFETY PROFILE: Toxic by ingestion and inhalation. Powerful irritants to the skin, eyes, and mucous membranes. Flammable by chemical reaction with reducing agents. These are powerful oxidizers particularly at higher temperatures, when chlorine and then oxygen are evolved, or in the presence of moisture or carbon dioxide. With urea, they form the highly explosive NCl₃. Dangerous; when heated or on contact with acid or acid fumes, they emit highly toxic fumes of Cl[–]. React with water or steam to produce toxic and corrosive fumes of Cl[–] and HCl. See also HYPOCHLOROUS ACID for more reactivity information.

HOV000 CAS: 7790-92-3 HR: 3
HYPOCHLOROUS ACID

mf: ClHO mw: 52.46

PROP: Greenish-yellow liquid (aq soln). Decomp to Cl₂, O₂, and HClO₄; very weak acid. Strong oxidizing agent. Protect from light. HOCl solns decomp to Cl₂ + O₂ + some ClO₃ slowly. Forms a dihydrate. Can be stored only in aq soln. Sol in H₂O.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An experimental teratogen. Explodes on contact with ammonia. Ignites on contact with arsenic. Mixture with acetic anhydride is a sensitive explosive. Incompatible with alcohols. When heated to decomposition it emits toxic fumes of Cl[–]. See also HYPOCHLORITES.

HOV500 CAS: 7778-54-3 HR: 3
HYPOCHLOROUS ACID, CALCIUM SALT

DOT: UN 1748

mf: Cl₂O₂•Ca mw: 142.98

PROP: White powder. Compound contains 39% or less available chlorine (FEREAC 41,15972,76). Disproportionates in aq soln forming CaCl₂ and Ca(ClO₃)₂. Decomp on heating to CaCl₂ + O₂. At high temps the reaction becomes explosive. Mp: 100°. Very sol in H₂O; insol in EtOH.

SYNS: B-K POWDER □ BLEACHING POWDER □ BLEACHING POWDER, containing 39% or less chlorine (DOT) □ CALCIUM CHLOROXYDROCHLORITE □ CALCIUM HYPOCHLORIDE □ CALCIUM HYPOCHLORITE □ CALCIUM OXYCHLORIDE □ CAPORIT □ CCH □ CHLORIDE of LIME (DOT) □ CHLORINATED LIME (DOT) □ HTH □ HY-CHLOR □ LIME CHLORIDE □ LO-BAX □ LOSANTIN □ PERCHLORON □ PITTCOLOR □ PITTCIDE □ PITTCOLOR □ SENTRY

TOXICITY DATA with REFERENCE:

mma-sat 1 mg/plate FCTOD7 22,623,84

cyt-ham:fbr 4 g/L FCTOD7 22,623,84

orl-rat LD50:850 mg/kg PESTC* 9,21,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 5.1; Label: Oxidizer

SAFETY PROFILE: Moderately toxic by ingestion. Can cause severe irritation of skin and mucous membranes and emit fumes capable of causing pulmonary edema. Mutation data reported. A powerful oxidizer.

The bulk material may ignite or explode in storage. Traces of water may initiate the reaction. A rapid exothermic decomposition above 175°C releases oxygen and chlorine. Moderately explosive in its solid form when heated. Explosive reaction with acetic acid + potassium cyanide, amines, ammonium chloride, carbon or charcoal + heat, carbon tetrachloride + heat, N,N-dichloromethylamine + heat, ethanol, methanol, iron oxide, rust, 1-propanethiol, isobutanethiol, turpentine. Potentially explosive reaction with sodium hydrogen sulfate + starch + sodium carbonate. Reaction with acetylene or nitrogenous bases forms explosive products.

Ignites on contact with algicide, hydroxy compounds (e.g., glycerol, diethylene glycol monomethyl ether, phenol), organic sulfur compounds. Violent reaction with organic matter (above 100°C), sulfur. Vigorous reaction with nitromethane, reducing materials. Flammable by chemical reaction with combustible materials, e.g., anthracene, grease, oil, mercaptans, methyl carbitol, nitromethane, organic matter, propylmercaptan.

Deflagration occurs in contact with combustible substances. Dangerous; when heated to decomposition or on contact with acid or acid fumes, it emits highly toxic fumes of HCl and explodes. Reacts with water or steam to produce toxic and corrosive fumes of Cl⁻ and HCl.

HOV503 CAS: 22464-76-2 HR: 2
HYPOCHLOROUS ACID, CALCIUM SALT, DIHYDRATE

mf: Cl₂O₂•Ca•2H₂O mw: 179.02

SYN: CALCIUM HYPOCHLORITE DIHYDRATE

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 52,159,91; Animal Inadequate Evidence IMEMDT 52,159,91; Human No Available Data IMEMDT 52,159,91.

SAFETY PROFILE: Questionable carcinogen. When heated to decomposition it emits toxic vapors of Ca and Cl⁻.

HOW100 CAS: 502-37-4 HR: 3
HYPOGLYCINE B

mf: C₁₂H₁₈N₂O₅ mw: 270.32

PROP: Needles from Me₂CO (aq). Mp: 194–195°, mp: 200–207° (double mp).

SYNS: ALANINE, N-1-γ-GLUTAMYL-3-(METHYLENECYCLO-PROPYL)- □ GLUTAMINE, N-(1-CARBOXY-2-(METHYLENE-CYCLOPROPYL)ETHYL)- (7CI) □ HYPOGLYCIN B

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:200 mg/kg JPETAB 121,272,57

ivn-mus LDLo:160 mg/kg JPETAB 121,272,57

ivn-rbt LDLo:25 mg/kg JPETAB 121,272,57

SAFETY PROFILE: Poison by intravenous route. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

HOW500 CAS: 14448-38-5 HR: 3

HYPONITROUS ACID

mf: H₂N₂O₂ mw: 62.03

PROP: White deliquescent plates. Very sol in EtOH; mod sol in Et₂O, CHCl₃, and C₆H₆.

SYN: N-NITROSOHYDROXYLAMINE

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: Many N-nitroso compounds are carcinogens. Incompatible with potassium hydroxide. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

HOW600 CAS: 63313-46-2 HR: D
(HYPOXANTHINE)PENTAAMMINERUTHENIUM(3+) TRICHLORIDE

SYN: RUTHENIUM(3+), (HYPOXANTHINE)PENTAAMMINE-, TRICHLORIDE

TOXICITY DATA with REFERENCE:

mic-sat 400 μmol/L CBINA8 31,355,1980

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, Rh, and Cl⁻.

HOW800 CAS: 37006-36-3 HR: D
HYRCANIN

mf: C₁₉H₂₄Cl₂O₇ mw: 435.33

SYNS: CENTAUREPENSIN □ CHLOROXYSSOPIFOLIN A □ PROPANOIC ACID, 3-CHLORO-2-HYDROXY-2-METHYL-, 9-(CHLOROMETHYL)DODECAHYDRO-8,9-DIHYDROXY-3,6-BIS(METHYLENE)-2-OXOAZULENO(4,5-B)FURAN-4-YL ESTER, (3ar-(3A-α,4-α(S*),6A-α,8-β,9-α,9A-α,9B-β))-

TOXICITY DATA with REFERENCE:

dni-mus ast 5 mg/L PLMEAA 40,179,1980

uns-mus ast 5 mg/L PLMEAA 40,179,1980

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of Cl⁻.

HOX000 CAS: 8006-83-5 HR: 2
HYSSOP OIL

PROP: Consists of 50% pinene, small quantities of aromatic alcohol and some sesquiterpenes (FCTXAV 16,637,78).

TOXICITY DATA with REFERENCE:

orl-mus LD50:1400 mg/kg FCTXAV 16,783,78

skn-rbt LD50:5000 mg/kg FCTXAV 16,783,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. When heated to decomposition it emits acrid smoke and fumes. See also individual components.

HOX100 CAS: 76-50-6 HR: 1
HYSTEROL

mf: C₁₅H₂₆O₂ mw: 238.41

SYNS: BORNYL ISOVALERATE □ BORNLYAL □ BUTANOIC ACID, 3-METHYL-, 1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPT-2-YL ESTER, endo- □ ISO-VALERIANATE de BORNYLE □ ISOVALERIC ACID, 2-BORNYL ESTER (7CI,8CI) □ endo-3-METHYLBUTANOIC ACID 1,7,7-TRIMETHYLBICYCLO(2.2.1)-HEPT-2-YL ESTER □ endo-1,7,7-TRIMETHYLBICYCLO(2.2.1)-HEPT-2-YL 3-METHYLBUTANOATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTXAV 12,831,89

2066 HOX100 HYSTEROL

scu-mus LDLo:2 g/kg APFRAD 14,710,56

skn-rbt LD50:>5 g/kg FCTXAV 12,831,89

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.