

IAB000 CAS: 64622-45-3 HR: 2
IBUPROFEN PICONOL

mf: C₁₉H₂₃NO₂ mw: 297.43

SYNS: BE 100 □ 2-(p-ISOBUTYLPHENYL)PROPIONIC ACID 2-PYRIDYLMETHYL ESTER □ α-METHYL-4-(2-METHYLPROPYL)-BENZENEACETIC ACID 2-PYRIDINYLMETHYL ESTER □ PIMEPROFEN □ PROPIONIC ACID, 2-(p-ISOBUTYLPHENYL)-, 2-PYRIDYLMETHYL ESTER □ 2-PYRIDYLMETHYL 2-(p-(2-METHYLPROPYL)PHENYL)-PROPIONATE □ STADERM □ U 75630

TOXICITY DATA with REFERENCE:

skn-rbt 25 mg MOD OYYAA2 24,231,82
eye-rbt 25 mg OYYAA2 24,221,82
scu-rat TDLo:2800 mg/kg (17-22D preg/21D post):REP OYYAA2 24,21,82
scu-rbt TDLo:2275 mg/kg (female 6-18D post):TER OYYAA2 24,37,82
orl-rat LD50:1440 mg/kg OYYAA2 23,691,82
ipr-rat LD50:1410 mg/kg OYYAA2 23,691,82
scu-rat LD50:1400 mg/kg OYYAA2 23,691,82
orl-mus LD50:1980 mg/kg OYYAA2 23,691,82
ipr-mus LD50:709 mg/kg OYYAA2 23,691,82
scu-mus LD50:1250 mg/kg OYYAA2 23,691,82
scu-dog LD50:986 mg/kg OYYAA2 23,691,82

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. Experimental teratogenic and reproductive effects. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also p-ISOBUTYLHYDRATROPIC ACID (IBUPROFEN).

IAB100 CAS: 31121-93-4 HR: D
IBUPROFEN SODIUM

mf: C₁₃H₁₇O₂•Na mw: 228.29

PROP: Colorless, crystalline powder with slight odor. Sol in water.

SYNS: BENZENEACETIC ACID, α-METHYL-4-(2-METHYLPROPYL)-, SODIUM SALT (9CI) □ HYDRATROPIC ACID, p-ISOBUTYL-, SODIUM SALT □ p-ISOBUTYLHYDRATROPIC ACID SODIUM SALT □ SODIUM IBUPROFEN

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

IAB200 CAS: 122647-32-9 HR: 3
IBUTILIDE FUMARATE

mf: C₄₀H₇₂N₄O₆S₂•C₄H₄O₄ mw: 885.36

PROP: Antiarrhythmic drug.

SYNS: METHANESULFONAMIDE, N-(4-(4-(ETHYLHEPTYLAMINO)-1-HYDROXYBUTYL)PHENYL)-, (+)-, (E)-2-BUTENEDIOATE (2:1) (SALT) □ U 70226E

TOXICITY DATA with REFERENCE:

orl-rat LD :>500 mg/kg TJADAB 49,406,94
ivn-rat LD50:94,200 µg/kg TJADAB 49,406,94

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

IAC000 CAS: 553-68-4 HR: 3
IBYLCAINE HYDROCHLORIDE

mf: C₁₃H₂₀N₂O₂•ClH mw: 272.81

PROP: A solid. Mp: 192–196°. Sltly sol in CHCl₃, C₆H₆; insol in Et₂O.

SYNS: BUTETHAMINE HYDROCHLORIDE □ 2-ISOBUTYL-AMINOETHANOL HYDROCHLORIDE ACID SALT, p-AMINOBENZOIC ACID ESTER □ 2-(ISOBUTYLAMINO)ETHYL-p-AMINOBENZOATE HYDROCHLORIDE □ MONOCAINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:182 mg/kg ANESAV 3,398,42
ivn-rat LD50:28 mg/kg ANESAV 3,398,42
ipr-mus LD50:169 mg/kg AIPTAK 115,483,58
scu-mus LD50:449 mg/kg ANESAV 3,398,42
ivn-mus LD50:36 mg/kg AIPTAK 115,483,58
ivn-rbt LDLo:30 mg/kg JPETAB 62,69,38
scu-gpg LDLo:215 mg/kg JPETAB 62,69,38

SAFETY PROFILE: A poison by intraperitoneal, intravenous, and subcutaneous routes. Used in veterinary medicine as local anesthetic. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.

IAC100 HR: 1
ICE-NUCLEATION-ACTIVE PSEUDOMONAS SYRINGAE

SYN: PSEUDOMONAS SYRINGAE, ICE-NUCLEATION-ACTIVE, Strain 3/a

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg TOLED5 54,157,90
ihl-rat LC50:5100 mg/m³/4H TOLED5 54,157,90
skn-rbt LD50:>2 g/kg TOLED5 54,157,90

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

IAD000 CAS: 8029-68-3 HR: 3
ICHTHAMMOL

PROP: Pale yellow or (usually) brownish-black, thick, viscous liquid. Bituminous odor; misc with H₂O, glycerol, propylene glycol, fats, oils, etc.; sltly sol in alc, ether.

SYNS: AMMONIUM BITHIOLICUM □ AMMONIUM ICHTHOSULFONATE □ AMMONIUM SULFOICHTHYOLATE □ AMSUBIT □ FUNGICHTHOL □ HIRATHIOL □ ICHDEN □ ICHTAMMON □ ICHTHADONE □ ICHTHALUM □ ICHTH-AMMONIUM □ ICHTHIUM □ ICHTHOSAN □ ICHTHOSAURAN □ ICHTHOSULFOL □ ICHTHYMALL □ ICHTHYNAT □ ICHTHYOL □ ICHTHYOPON □ ICHTHYSALLE □ LEU-KICHTHOL □ LITHOL □ PERICHTHOL □ PETROSULPHO

PISCAROL □ PISCIOLO □ SAUROL □ SUBITOL □ SULFOGENOL
□ THILAVEN □ THIOLIN □ THIOZIN □ TRASULPHANE □
TUMENOL

TOXICITY DATA with REFERENCE:

orl-wmn LDLo:125 mg/kg:CNS,PUL,GIT AMLTAS
37,248,57

ivn-mus LD50:700 mg/kg ARZNAD 6,199,56

ivn-rbt LDLo:1 g/kg ARZNAD 6,199,56

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.

SAFETY PROFILE: A human poison which causes
these systemic effects: nausea, acute pulmonary edema,
coma. An FDA over-the-counter drug. When heated to
decomposition it emits very toxic fumes of NH₃, NO_x,
and SO_x.

IAD100 CAS: 40666-04-4 HR: 3
ICI 79,939

mf: C₂₂H₂₉FO₆ mw: 408.51

SYNS: 7-(2-(4-(4-FLUOROPHENOXY)-3-HYDROXY-1-BUTEN-
YL)-3,5-DIHYDROXYCYCLOPENTYL)-(1-α-(Z),2-β-(1E,3S*)),3-α,5-
α)-5-HEPTENOIC ACID □ racemic-ICI 79,939

TOXICITY DATA with REFERENCE:

unr-rat LDLo:100 µg/kg PRGLBA 10,5,75

SAFETY PROFILE: Deadly poison by an unspecified
route. Experimental reproductive effects. When heated to
decomposition it emits toxic fumes of F⁻.

IAE000 CAS: 38915-28-5 HR: 3
ICR 340

mf: C₂₀H₂₄Cl₂N₄O•2ClH mw: 480.30

SYN: 7-CHLORO-10-(3-(N-(2-CHLOROETHYL)-N-ETHYL)-
AMINOPROPYLAMINO)-2-METHOXY-BENZO(B)(1,5)-
NAPHTHYRIDINE DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

mno-sat 500 ng/plate MUREAV 136,185,84

msc-ham:ovr 1 µmol/L CNREA8 39,487,59

ivn-mus TDLo:4800 µg/kg:NEO CNREA8 36,242,76

ivn-mus LDLo:7 mg/kg CNREA8 36,242,76

SAFETY PROFILE: Poison by intravenous route.
Questionable carcinogen with experimental neoplastigenic
data. Mutation data reported. When heated to
decomposition it emits very toxic fumes of HCl and NO_x.

IAG300 CAS: 33691-06-4 HR: 2
ID-622

mf: C₁₈H₁₆ClFN₂O₃S mw: 394.87

TOXICITY DATA with REFERENCE:

orl-mus LD50:2700 mg/kg ARZNAD 25,534,75

ipr-mus LD50:1350 mg/kg ARZNAD 25,534,75

scu-mus LD50:5 g/kg ARZNAD 25,534,75

SAFETY PROFILE: Moderately toxic by ingestion and
intraperitoneal routes. When heated to decomposition it
emits toxic fumes of F⁻, Cl⁻, SO_x, and NO_x.

IAG600 CAS: 23210-56-2 HR: 3
IFENPRODIL

mf: C₂₁H₂₇NO₂ mw: 325.49

PROP: Mp: 114°.

SYNS: 4-BENZYL-α-(p-HYDROXYPHENOL)-β-METHYL-1-
PIPERIDINEETHANOL □ α-(4-HYDROXYPHENYL)-β-METHYL-
4-(PHENYLMETHYL)-1-PIPERIDINEETHANOL (9CI) □ RC 61-91

TOXICITY DATA with REFERENCE:

orl-mus LD50:320 mg/kg ARZNAD 21,199,71

orl-dog LD50:461 mg/kg OYYAA2 14,415,77

ivn-dog LD50:41 mg/kg OYYAA2 14,415,77

SAFETY PROFILE: Poison by ingestion and
intravenous routes. When heated to decomposition it
emits toxic fumes of NO_x. See also IFENPRODIL
TARTRATE.

IAG625 CAS: 23210-58-4 HR: 3
IFENPRODIL TARTRATE

mf: C₄₂H₅₄N₂O₄•C₄H₆O₆ mw: 801.08

PROP: A solid. Mp: 178–180°.

SYNS: 4-BENZYL-α-(p-HYDROXYPHENYL)-β-METHYL-1-
PIPERIDINEETHANOL TARTRATE □ 4-BENZYL-α-(p-
HYDROXYPHENYL)-β-METHYL-1-PIPERIDINE-ETHANOL-(L)-
(+)-TARTRATE □ 2-(4-BENZYL-PIPERIDINO)-1-(4-
HYDROXYPHENYL)-1-PROPANOL TARTRATE (2:1) □
IFENPRODIL TARTRATE (2:1) □ IFENPRODIL L-(+)-TARTRATE
□ VADILEX

TOXICITY DATA with REFERENCE:

orl-rat LD50:538 mg/kg OYYAA2 10,785,75

ipr-rat LD50:138 mg/kg OYYAA2 10,785,75

ivn-rat LD50:50 mg/kg NIIRDN 6,79,82

ims-rat LD50:240 mg/kg OYYAA2 10,785,75

orl-mus LD50:17 mg/kg USXXAM #3509164

ipr-mus LD50:120 mg/kg USXXAM #3509164

ivn-mus LD50:44 mg/kg OYYAA2 10,785,75

ims-mus LD50:222 mg/kg OYYAA2 10,785,75

orl-dog LD50:461 mg/kg OYYAA2 14,415,77

ivn-dog LD50:34,200 µg/kg OYYAA2 10,785,75

orl-rbt LD50:500 mg/kg OYYAA2 10,785,75

ivn-rbt LD50:18,300 µg/kg OYYAA2 10,785,75

ims-rbt LD50:77,600 µg/kg OYYAA2 10,785,75

SAFETY PROFILE: Poison by ingestion,
intramuscular, intravenous, and intraperitoneal routes. An
experimental teratogen. Experimental reproductive
effects. When heated to decomposition it emits toxic
fumes of NO_x.

IAG700 CAS: 35607-13-7 HR: 3
IF ROM 203

mf: C₂₀H₂₈N₂P₄•2ClH mw: 433.42

SYNS: N,N'-BIS(2-HYDROXY-3-PHENOXYPROPYL)-
ETHYLENEDIAMINE DIHYDROCHLORIDE □ N,N'-DI(3-
PHENOXY-2-HYDROXYPROPYL)ETHYLENEDIAMINE
DIHYDROCHLORIDE □ ROM 203

TOXICITY DATA with REFERENCE:

orl-rat LD50:2920 mg/kg DPHFAK 24,103,72

ivn-rat LD50:71 mg/kg DPHFAK 24,103,72

orl-mus LD50:2080 mg/kg DPHFAK 24,103,72

ivn-mus LD50:61,250 µg/kg DPHFAK 24,103,72

ivn-rbt LD50:55 mg/kg DPHFAK 24,103,72

ivn-gpg LD50:20,100 µg/kg DPHFAK 24,103,72

SAFETY PROFILE: Poison by intravenous route.
Moderately toxic by ingestion. When heated to
decomposition it emits toxic fumes of NO_x and HCl.

IAH000 CAS: 9036-19-5 HR: 2
IGEPAL GAS

PROP: Polymerized ethylene oxide condensate
(JAPMA8 38,428,49).

TOXICITY DATA with REFERENCE:

eye-rbt 1% SEV JAPMA8 38,428,49

orl-mus LD50:3500 mg/kg JAPMA8 38,428,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A severe eye irritant. When heated to decomposition it emits acrid smoke and fumes.**IAH050 CAS: 51338-27-3 HR: 2 ILLOXAN**mf: C₁₆H₁₄Cl₂O₄ mw: 341.20**SYNS:** 2-(4-(2,4-DICHLOROPHENOXY)PHENOXY)-METHYL-PROPIONATE □ DICLOFOP-METHYL □ HOE 23408 □ HOEGRASS □ HOELON □ HOELON 3EC □ ILOXAN □ METHYL 2-(4-(2,4-DICHLOROPHENOXY)PHENOXY)-PROPIONATE □ PROPIONIC ACID, 2-(4-(2,4-DICHLOROPHENOXY)PHENOXY)-, METHYL ESTER**CONSENSUS REPORTS:** EPA FIFRA 1988 pesticide subject to registration or re-registration.

orl-rat LD50:512 mg/kg FMCHA2-C165,1991

ihl-rat LC50:8300 mg/m³/4H 85JFAN A138,1983

skn-rat LD50:>2 g/kg 85JFAN A138,1983

orl-mus LD50:586 mg/kg ZDBEA9 (3),29,1984

orl-dog LD50:1600 mg/kg 85JFAN A138,1983

orl-qal LD50:>10 g/kg PEMNDP 9,262,1991

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Low toxicity by inhalation. When heated to decomposition it emits toxic vapors of Cl⁻.**IAH100 CAS: 81335-37-7 HR: 2 IMAZAQUIN**mf: C₁₇H₁₇N₃O₃ mw: 311.37**SYNS:** AC 252214 □ 2-(4,5-DIHYDRO-4-METHYL-4-(1-METHYLETHYL)-5-OXO-1H-IMIDAZOL-2-YL)-3-QUINOLINECARBOXYLIC ACID □ 3-QUINOLINECARBOXYLIC ACID, 2-(4,5-DIHYDRO-4-METHYL-4-(1-METHYLETHYL)-5-OXO-1H-IMIDAZOL-2-YL)- □ SCEPTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4073 mg/kg NNGADV 24,245,1999

ihl-rat LC50:5700 mg/m³ NNGADV 24,245,1999

skn-rat LD50:>2 g/kg NNGADV 24,245,1999

orl-mus LD50:1752 mg/kg NNGADV 24,245,1999

skn-rbt LD50:2 g/kg FMCHA2-C270,1991

orl-qal LD50:>2150 mg/kg PEMNDP 9,488,1991

orl-dck LD50:>2150 mg/kg PEMNDP 9,488,1991

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Low toxicity by inhalation. When heated to decomposition it emits toxic vapors of NO_x.**IAK100 CAS: 25843-64-5 HR: D IMET 3106**mf: C₂₁H₂₃Cl₂N₃•Cl mw: 423.82**SYNS:** 2-(((4-(BIS(2-CHLOROETHYL)AMINO) PHENYL) IMINO)-METHYL)-1-METHYL-QUINOLINIUM CHLORIDE (9CI) □ QUINOLINE-2-ALDEHYDECHLOROMETHYLATE-(p-(BIS-β-CHLOROETHYL)-AMINO)ANIL) □ ZIMET 3106**SAFETY PROFILE:** Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of Cl⁻ and NO_x.**IAK200 CAS: 24270-51-7 HR: 3****IMGREITE**

mf: NiTe mw: 186.31

PROP: Red, pale rose, hexagonal crystal with metallic luster. Hardness: 4 Mohs. Found in Russia.**CONSENSUS REPORTS:** IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90.**SAFETY PROFILE:** Suspected carcinogen. When heated to decomposition it emits toxic vapors of Ni and Te.**IAK300 CAS: 61001-21-6 HR: D IMIDAZO(2,1-A)ISOQUINOLINE, 5,6-DIHYDRO-2-(m-METHOXYPHENYL)-**mf: C₁₈H₁₆N₂O mw: 276.36**SYNS:** 2-(m-METHOXYPHENYL)-5,6-DIHYDROIMIDAZO(2,1-A)ISOQUINOLINE □ 2-(3-METHOXYPHENYL)-5,6-DIHYDROIMIDAZO(2,1-A)ISOQUINOLINE**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.**IAL000 CAS: 288-32-4 HR: 3 IMIDAZOLE**mf: C₃H₄N₂ mw: 68.09**PROP:** Prisms. Mp: 90–91°, bp: 257°. Sol in water, ether, chloroform; very sol in alc, pyridine; sltly sol in benzene.**SYNS:** 1,3-DIAZA-2,4-CYCLOPENTADIENE □ 1,3-DIAZOLE □ GLYOXALIN □ GLYOXALINE □ IMIDAZOL □ IMINAZOLE □ IMUTEX □ MIAZOLE □ PYRRO(b)MONAZOLE □ USAF EK-4733 □ N,N'-VINYLENEFORMAMIDINE**TOXICITY DATA with REFERENCE:**

dni-hmn:oth 1 mmol/L JIDEAE 65,400,75

orl-rat LD50:220 mg/kg PREPAB 67,295,93

scu-rat LD50:626 mg/kg JPETAB 119,444,57

orl-mus LD50:880 mg/kg GWXXBX #3046325

ipr-mus LD50:300 mg/kg NTIS** AD277-689

scu-mus LD50:817 mg/kg JPETAB 119,444,57

ivn-mus LD50:475 mg/kg ARZNAD 33,716,83

scu-cat LDLo:125 mg/kg AEXPBL 84,155,18

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion, subcutaneous, and intraperitoneal routes. Moderately toxic by intravenous route. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**IAL100 CAS: 72-40-2 HR: D 1H-IMIDAZOLE-4-CARBOXAMIDE, 5-AMINO-, MONOHYDROCHLORIDE**mf: C₄H₆N₄O•ClH mw: 162.60**SYNS:** 4-AMINO-5-IMIDAZOLECARBOXAMIDE HYDROCHLORIDE □ 5-IMIDAZOLECARBOXAMIDE, 4-AMINO-, HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

mmo-klp 10 mmol/L/20H MUREAV 66,207,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.

IAL200 CAS: 67747-09-5 HR: 3
1H-IMIDAZOLE-1-CARBOXAMIDE, N-PROPYL-N-(2-(2,4,6-TRICHLOROPHENOXY)ETHYL)-mf: $C_{15}H_{16}Cl_3N_3O_2$ mw: 376.69**SYNS:** ASCURIT □ BTS 40542 □ BTS 40542-7877 □ DIBAVIT □ DMI □ OCTAVE □ OMEGA □ PRELUDE □ PROCHLORAZ □ 1-(N-PROPYL-N-(2-(2,4,6-TRICHLORO PHENOXY) ETHYL)-CARBAMOYL)IMIDAZOLE □ N-PROPYL-N-(2-(2,4,6-TRICHLOROPHENOXY)ETHYL)-1H-IMIDAZOLE-1-CARBOXAMIDE □ RIVAL □ SPORGON □ SPORTAK □ SPORTAK α □ SPORTAK Δ □ SPORTAK PF □ SPRINT**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1600 mg/kg FMCHA2 -,C249,91
 ihl-rat LCLo:>200 mg/m³ DOVEAA 37,121,83
 skn-rat LD50:>5 g/kg DOVEAA 37,121,83
 ipr-rat LD50:400 mg/kg 85ESA3 11,1231,89
 orl-mus LD50:2400 mg/kg FMCHA2 -,C249,91
 skn-rbt LD50:>3 g/kg 85JFAN A475,84
 orl-dck LD50:3132 mg/kg PEMNDP 9,701,91
 orl-brd LD50:590 mg/kg DOVEAA 37,121,83

SAFETY PROFILE: A poison by inhalation. Moderately toxic by ingestion, skin contact and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**IAM000 CAS: 570-22-9 HR: 2**
IMIDAZOLE-4,5-DICARBOXYLIC ACIDmf: $C_5H_4N_2O_4$ mw: 156.11**PROP:** A solid. Mp: 288° (decomp).**SYNS:** 4,5-DICARBOXYIMIDAZOLE □ GLYCOXALINEDICARBOXYLIC ACID □ α-β-IMIDAZOLECARBOXYLIC ACID □ 4,5-IMIDAZOLEDICARBOXYLATE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:1800 mg/kg RPTOAN 41,249,78

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.**IAM025 CAS: 82078-98-6 HR: D**
1H-IMIDAZOLE, 4,5-DIHYDROHEPTADECENYL, MONOHYDROCHLORIDEmf: $C_{20}H_{38}N_2 \cdot ClH$ mw: 343.06**CONSENSUS REPORTS:** EPA FIFRA pesticide subject to registration or re-registration.**SAFETY PROFILE:** A pesticide with unreported toxicity. When heated to decomposition it emits toxic vapors of NO_x and HCl.**IAM035 CAS: 141363-21-5 HR: D**
1H-IMIDAZOLE, 2-((2,3-DIHYDRO-1H-INDEN-1-YLIDENE)METHYL)-1-METHYL-5-NITROmf: $C_{14}H_{13}N_3O_2$ mw: 255.30**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.**IAM040 CAS: 57878-77-0 HR: D**
1H-IMIDAZOLE, 2,2'-(DITHIOBIS(METHYLENE))-BIS(1-METHYL-5-NITRO)-mf: $C_{10}H_{12}N_6O_4S_2$ mw: 344.40**SYN:** 2,2'-(DITHIOBIS(METHYLENE))BIS(1-METHYL-5-NITRO-1H-IMIDAZOLE)**TOXICITY DATA with REFERENCE:**

uns-bac-esc 8700 pmol/plate EMMUEG 19,167,92

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**IAM100 HR: 2**
IMIDAZOLE-2-HYDROXYBENZOATEmf: $C_7H_6O_3 \cdot C_3H_4N_2$ mw: 206.22**SYNS:** IMIDAZOLE with SALICYLIC ACID □ IMIDAZOL-2-HYDROXYBENZOAT (GERMAN) □ ITF 182**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1211 mg/kg ARZNAD 33,716,83
 scu-rat LD50:724 mg/kg ARZNAD 33,716,83
 inv-rat LD50:422 mg/kg ARZNAD 33,716,83
 orl-mus LD50:1034 mg/kg ARZNAD 33,716,83
 scu-mus LD50:595 mg/kg ARZNAD 33,716,83
 inv-mus LD50:435 mg/kg ARZNAD 33,716,83

SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. See also IMIDAZOLE and SALICYLIC ACID.**IAN000 CAS: 5034-77-5 HR: 3**
IMIDAZOLE MUSTARDmf: $C_8H_{12}Cl_2N_6O$ mw: 279.16**SYNS:** BIC □ 5-(3,3-BIS(2-CHLOROETHYL)-1-TRIAZENO)IMIDAZOLE-4-CARBOXAMIDE □ NCI-C01616 □ NSC-82196 □ SRI 2489 □ TIC MUSTARD**TOXICITY DATA with REFERENCE:**

ipr-rat TDLo:600 mg/kg/7W-I:ETA CANCAR 40(Suppl 4),1935,77
 inv-hmn TDLo:9 g/kg:GIT CCROBU 56,671,72
 orl-cat LD50:267 mg/kg NCISP* JAN86
 ipr-rat LD50:210 mg/kg NCISP* JAN86
 ipr-mus LD50:60,060 μg/kg NCISP* JAN86

CONSENSUS REPORTS: NCI Carcinogenesis Studies (ipr); Clear Evidence: mouse, rat CANCAR 40,1935,77.**SAFETY PROFILE:** Suspected carcinogen with experimental neoplastigenic and tumorigenic data. Poison by ingestion and intraperitoneal routes. Experimental teratogenic effects. Human systemic effects by intravenous route: nausea. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.**IAN100 CAS: 6714-29-0 HR: 3**
IMIDAZOLEPYRAZOLEmf: $C_5H_7N_3$ mw: 109.15**PROP:** A solid. Mp: 68–69°.**SYNS:** BA 21381 □ 2,3-DIHYDRO-1H-IMIDAZO(1,2-b)PYRAZO-LE □ 2,3-DIHYDRO-1H-PYRAZOLO(2,3-a)IMIDAZOLE □ IMPY □ NSC-51143 □ PYRAZOLO(2,3-a)IMIDAZOLIDINE**TOXICITY DATA with REFERENCE:**

dni-hmn:leu 3 mmol/L CNREA8 43,5093,83
 dni-mus:fbr 300 μmol/L BCPA6 20,2639,71

ipr-mus LD50:410 mg/kg NCISP* JAN86
 ivn-mus LD50:993 mg/kg CTRRDO 64,1031,80
 ivn-dog LDLo:400 mg/kg CTRRDO 64,1031,80

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

IAO000 CAS: 872-35-5 HR: 3
IMIDAZOLE-2-THIOL

mf: C₃H₃N₂S mw: 99.14

PROP: Crystal from H₂O. Mp: 226–228°.

SYNS: 2-MERCAPTOIMIDAZOLE □ USAF EL-57

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. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS.

IAO100 CAS: 38304-52-8 HR: D
2,4-IMIDAZOLIDINEDIONE, 3,3'-(2-(OXIRANYL-METHOXY)-1,3-(PROPANEDIYL)BIS(5,5-DIMETHYL-1-(OXIRANYLMETHYL)-

mf: C₂₂H₃₂N₄O₈ mw: 480.58

TOXICITY DATA with REFERENCE:

msc-mus:lym 64 mg/L TSCAT* OTS 206476

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IAP000 CAS: 556-90-1 HR: 3
4,5-IMIDAZOLIDINEDITHIONE

mf: C₃H₄N₂S₂ mw: 132.21

SYNS: PSEUDO-THIOHYDANTOIN □ USAF BE-4-5 □ USAF DM-1

TOXICITY DATA with REFERENCE:

ipr-mus LD50:100 mg/kg NTIS** AD277-689

ivn-mus LD50:320 mg/kg CSLNX* NX#02090

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IAQ000 CAS: 96-45-7 HR: 3
2-IMIDAZOLIDINETHIONE

mf: C₃H₆N₂S mw: 102.17

PROP: White crystals, needles, or prisms from EtOH or pentanol. Mp: 197–200°. Water solubility: 9 g/100 mL @ 30°. Often occurs as a main degradation product of the metal salts of ethylene bis-dithiocarbamic acid. Sol in H₂O; insol in Et₂O, CHCl₃, C₆H₆, and Me₂CO.

SYNS: AKROCHEM ETU-22 □ 4,5-DIHYDROIMIDAZOLE-2(3H)-THIONE □ ETHYLENE THIOUREA □ N,N'-ETHYLENE-THIOUREA □ 1,3-ETHYLENE-2-THIOUREA □ I'ETHYLENE THIOUREE (FRENCH) □ ETU □ 2-MERCAPTOIMIDAZOLINE □ 2-MERKAPTOIMIDAZOLIN (CZECH) □ NA-22 □ NCI-C03372 □ PENNAC CRA □ RCRA WASTE NUMBER U116 □ RODANIN

S-62 (CZECH) □ SODIUM-22 NEOPRENE ACCELERATOR □ 2-THIOL-DIHYDROGLYOXALINE □ USAF EL-62 □ VULKACIT NPV/C2 □ WARECURE C

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,167,72

mma-sat 3333 µg/plate ENMUDM 8(Suppl 7),1,86

mma-esc 200 mg/L PMRSDJ 1,396,81

dnd-bcs 2 mg/disc PMRSDJ 1,175,81

otr-ham:kdy 80 µg/L BJCAAI 37,873,78

orl-rat TDLo:10,920 mg/kg/2Y-C:CAR NTPTR* NTP-TR-388,92

orl-rat TDLo:5306 mg/kg/77W-C:CAR JJIND8 49,583,72

orl-rat LD50:1832 mg/kg BECTA6 7,19,72

orl-mus LD50:3000 mg/kg TJADAB 21,71,80

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

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,207,87; Animal Sufficient Evidence IMEMDT 7,45,74. Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (ETU) Use encapsulated form; minimize exposure

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Poison by ingestion and intraperitoneal routes. Experimental teratogenic and reproductive effects. Mutation data reported. An eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ethylene Thiourea, 5011.

IAR000 CAS: 120-93-4 HR: 3
2-IMIDAZOLIDINETHIONE mixed with SODIUM NITRITE

SYNS: ETHYLENETHIOUREA mixed with SODIUM NITRITE □ SODIUM NITRITE mixed with ETHYLENETHIOUREA

TOXICITY DATA with REFERENCE:

mno-sat 1 µL/plate MUREAV 48,225,77

dlt-mus-orl 1000 mg/kg/5D-I MUREAV 56,335,78

hma-mus/sat 5 mg/kg MUREAV 106,27,82

SAFETY PROFILE: Suspected carcinogen. 2-Imidazolidinethione and sodium nitrite are experimental carcinogens. Experimental teratogenic and reproductive data. Sodium nitrite is a poison. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x, Na₂O, and NO_x. See also SODIUM NITRITE and 2-IMIDAZOLIDINETHIONE.

IAS000 CAS: 120-93-4 HR: 2
2-IMIDAZOLIDINONE

mf: C₃H₆N₂O mw: 86.11

PROP: Needles from CHCl₃; crystals from H₂O. Mp: 131°, bp: 192° @ 16 mm. Sol in water and in hot alc; very sltly sol in ether.

SYNS: ETHYLENE UREA □ 1,3-ETHYLENE UREA □ 2-IMIDAZOLIDONE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:500 mg/kg EJMCA5 17,235,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IAS100 CAS: 78491-02-8 HR: 2
IMIDAZOLIDINYL UREA 11

mf: C₈H₁₄N₄O₇ mw: 278.26

PROP: Sol in water, propylene glycol, glycerine.

SYNS: N-(1,3-BIS(HYDROXYMETHYL)-2,5-DIOXO-4-IMIDAZOLIDINYL)-N,N'-BIS(HYDROXYMETHYL)UREA □ DIAZOLIDINYL UREA □ GERMALL 11 □ N-(HYDROXYMETHYL)-N-(1,3-DIHYDROXYMETHYL-2,5-DIOXO-4-IMIDAZOLIDINYL)-N'-(HYDROXYMETHYL)UREA □ UREA, N-(1,3-BIS(HYDROXYMETHYL)-2,5-DIOXO-4-IMIDAZOLIDINYL)-N,N'-BIS(HYDROXYMETHYL)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:2600 mg/kg JACTDZ 9(2),229,90

orl-mus LD50:3700 mg/kg JACTDZ 9(2),229,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IAT000 CAS: 504-75-6 HR: 3
IMIDAZOLINE

mf: C₃H₆N₂ mw: 70.11

PROP: Waxy crystals. Mp: 53–57°, bp: 96–98° @ 14 mm.

SYN: 2-IMIDAZOLINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:50 mg/kg AMRL** -,89,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IAT100 CAS: 5789-17-3 HR: 3
IMIDAZOLINE-2,4-DITHIONE

mf: C₃H₄N₂S₂ mw: 132.20



SYN: DITHIOHYDANTOIN

SAFETY PROFILE: A storage hazard; it may explode during long-term storage at room temperature. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

IAT200 CAS: 50916-04-6 HR: 3
2-IMIDAZOLINE, 2-METHYL-1-(3,4,5-TRIMETHOXYBENZOYL)-

mf: C₁₄H₁₈N₂O₄ mw: 278.34

SYN: KETONE, 2-METHYL-2-IMIDAZOLIN-1-YL 3,4,5-TRIMETHOXYPHENYL-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1 g/kg FRPSAX 28,818,73

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

IAT250 CAS: 68650-39-5 HR: 2
IMIDAZOLIUM COMPOUNDS,1-(2-(CARBOXYMETHOXY)ETHYL)-1-(CARBOXYMETHYL)-4,5-DIHYDRO-2-NORCOCO ALKYL, HYDROXIDES, INNER SALTS, DISODIUM SALTS

SYNS: AMPHOLAK XCO 30 □ AMPHOTERIC 2 □ MIRANOL C 2M CONC. □ MIRANOL C 2M-SF CONC.

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL SEV NTIS** OTS0536642

SAFETY PROFILE: A severe eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

IAT275 CAS: 159081-23-9 HR: 3
2-(1H-IMIDAZOL-4-YLMETHYL)-8H-INDENO(1,2-D)THIAZOLE MONOFUMARATE

mf: C₁₄H₁₁N₃S•C₄H₄O₄ mw: 369.40

SYNS: 8H-INDENO(1,2-D)THIAZOLE, 2-(1H-IMIDAZOL-4-YLMETHYL)-, (E)-2-BUTENEDIOATE (1:1) □ YM-31636

TOXICITY DATA with REFERENCE:

orl-unr TDLo: 0.03 mg/kg EJPHAZ 424,151,2001

scu-rat TDLo:10 mg/kg EJPHAZ 431,35,2001

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

IAT300 CAS: 97901-22-9 HR: 2
6-(1-IMIDAZOLYLMETHYL)-5,6,7,8-TETRAHYDRONAPHTHALENE-2-CARBOXYLIC ACID MONOHYDROCHLORIDE

mf: C₁₅H₁₆N₂O₂•ClH mw: 292.79

SYNS: DP-1904 □ 2-NAPHTHALENECARBOXYLIC ACID, 5,6,7,8-TETRAHYDRO-6-(1H-IMIDAZOL-1-YLMETHYL)-, MONOHYDROCHLORIDE, HEMIHYDRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1994 mg/kg JKXXAF #93-97669

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

IAT400 CAS: 16128-42-0 HR: 3
(1-IMIDAZOLYL)TRIBUTYLPLUMBANE

mf: C₁₅H₃₀N₂Pb mw: 445.66

SYNS: 1H-IMIDAZOLE, 1-(TRIBUTYLPLUMBYL)- □ PLUMBANE, (1-IMIDAZOLYL)TRIBUTYL- □ TRIBUTYLIMIDAZOLE LEAD □ TRIBUTYLLEAD IMIDAZOLE □ N-(TRIBUTYLPLUMBYL)IMIDAZOLE □ 1-(TRI-N-BUTYLPLUMBYL)-IMIDAZOLE □ PLUMBANE, TRIBUTYLIMIDAZOL-1-YL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#04714

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

IAY000 CAS: 55843-86-2 HR: 3
4-IMIDAZO(1,2-a)PYRIDIN-2-YL-α-METHYLBENZENEACETIC ACID

mf: $C_{16}H_{14}N_2O_2$ mw: 266.32

SYNS: 2-(4-(IMIDAZO(1,2-a)PYRIDIN-2-YL)PHENYL)-PROPIONIC ACID □ 2-(p-(2-IMIDAZO(1,2-a)PYRIDYL)-PHENYL)PROPIONIC ACID □ MIROPROFEN □ Y-9213

TOXICITY DATA with REFERENCE:

orl-rat LD50:292 mg/kg IYKEDH 12,993,81
 ipr-rat LD50:365 mg/kg IYKEDH 12,993,81
 scu-rat LD50:372 mg/kg IYKEDH 12,993,81
 orl-mus LD50:570 mg/kg DRFUD4 4,373,79
 ipr-mus LD50:696 mg/kg IYKEDH 12,993,81
 scu-mus LD50:687 mg/kg IYKEDH 12,993,81

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and subcutaneous routes. Experimental teratogenic and reproductive effects. Used as an analgesic and anti-inflammatory agent. When heated to decomposition it emits toxic fumes of NO_x .

IBA000 CAS: 2465-27-2 HR: 3
4,4'-(IMIDOCARBONYL)BIS(N,N-DIMETHYL-AMINE) MONOHYDROCHLORIDE

mf: $C_{17}H_{21}N_3 \cdot ClH \cdot H_2O$ mw: 321.89

PROP: Golden-yellow plates from H_2O . Mp: 267°. Sltly sol in cold H_2O .

SYNS: ADC AURAMINE O □ AIZEN AURAMINE □ AURAMINE (MAK) □ AURAMINE HYDROCHLORIDE □ AURAMINE O (BIOLOGICAL STAIN) □ AURAMINE YELLOW □ 4,4'-BIS(DIMETHYLAMINO)BENZHYDRYLIDENIMINE HYDROCHLORIDE □ 4,4'-BIS(DIMETHYLAMINO) BENZO-PHENONE-IMINE HYDROCHLORIDE □ 1,1-BIS(p-DIMETHYL-AMINOPHENYL)METHYLENIMINEHYDROCHLORIDE □ CALCOZINE YELLOW OX □ 4,4'-CARBONIMIDOYLBIS(N,N-DIMETHYLBENZENAMINE)-MONOHYDROCHLORIDE □ C.I. 41000 □ C.I. BASIC YELLOW 2 □ C.I. BASIC YELLOW 2, MONOHYDROCHLORIDE □ MITSUI AURAMINE O

TOXICITY DATA with REFERENCE:

mma-sat 2 mg/plate CRNGDP 2,1317,81
 dnd-esc 30 ppm MUREAV 89,95,81
 dnd-hmn:fbr 300 μ mol/L JTEHD6 9,941,82
 dnd-rat:lvrr 3 μ mol/L SinJF# 26OCT82
 sce-mus-ipr 7500 μ g/kg JTEHD6 9,941,82
 orl-rat LDLo:1500 mg/kg CNREA8 26,619,66
 ipr-rat LD50:135 mg/kg NALSDJ 60,745,83
 orl-mus LD50:480 mg/kg CRDLP* 4-59,64
 skn-mus LD50:300 mg/kg CRDLP* 4-59,64
 orl-car LD50:150 mg/kg CWLTM* 47-6,59
 orl-dom LD50:150 mg/kg CWLTM* 47-6,59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Confirmed carcinogen with experimental neoplastigenic and tumorigenic data. Poison by skin contact, ingestion, and intraperitoneal routes. Human mutation data reported. A chelating agent that might disturb trace element metabolism if taken into the body. Used as a biological stain. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

IBB000 CAS: 492-80-8 HR: 3
4,4'-(IMIDOCARBONYL)BIS(N,N-DIMETHYL-ANILINE)

mf: $C_{17}H_{21}N_3$ mw: 267.41

PROP: Yellow needles or yellow plates from EtOH. Mp: 136°. Insol in water; sol in EtOH, Et_2O , and acids; sltly sol in H_2O .

SYNS: APYONINE AURAMINE BASE □ AURAMINE (MAK) □ AURAMINE BASE □ BIS(p-DIMETHYLAMINOPHENYL) METHYLENEIMINE □ BRILLIANT OIL YELLOW □ 4,4'-CARBONIMIDOYLBIS(N,N-DIMETHYLBENZENAMINE) □ C.I. 41000B □ C.I. BASIC YELLOW 2, FREE BASE □ C.I. SOLVENT YELLOW 34 □ 4,4'-DIMETHYLAMINO BENZOPHENONIMIDE □ GLAURAMINE □ RCRA WASTE NUMBER U014 □ TETRAMETH-YLDIAMINODIPHENYLACETIMINE □ WAXOLINE YELLOW O □ YELLOW PYOCTANINE

TOXICITY DATA with REFERENCE:

mma-sat 250 μ g/plate PMRSDJ 1,333,81
 dns-hmn:fbr 20 mg/L TXCYAC 21,151,81
 otr-rat-orl 150 mg/kg CNREA8 40,1157,80
 otr-ham:kdy 13,100 μ g/L PMRSDJ 1,626,81
 otr-ham:emb 2 mg/L NCIMAV 58,243,81
 ipr-mus LD50:103 mg/kg PMRSDJ 1,682,81

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,118,87; Human Sufficient Evidence IMEMDT 1,69,72; Animal Sufficient Evidence IMEMDT 1,69,72. Community Right-To-Know List. Reported in EPA TSCA Inventory.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by intraperitoneal route. Human mutation data reported. Used as an antiseptic. When heated to decomposition it emits toxic fumes of NO_x .

IBB100 CAS: 628-87-5 HR: 3
1,1'-IMIDODIACETONITRILE

mf: $C_4H_5N_3$ mw: 95.12

SYNS: ACETONITRILE, 2,2'-IMINOBI(9CI) □ ACETONITRILE, IMINODI- □ DI(CIANOMETIL)AMMINA □ 2,2'-IMINOBIACETONITRILE □ IMINODIACETONITRILE □ 2406 I.S.

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg FRPSAX 17,753,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IBC000 CAS: 4375-11-5 HR: 3
IMIDODICARBOXYLIC ACID, DIHYDRAZIDE

mf: $C_2H_7N_5O_2$ mw: 133.14

PROP: Needles or prisms. Mp: 200° (decomp). Sol in H_2O , hot AcOH; sltly sol in EtOH and Et_2O .

SYNS: DIAMINOBIURET □ 1,5-DIAMINOBIURET □ 1,5-DIAMINOBIURET DIHYDRAZIDE □ DICARBAZAMIDE □ IMIDODICARBONIC DIHYDRAZIDE (9 CI) □ NSC-3095 □ X 34

TOXICITY DATA with REFERENCE:

mno-esc 5 g/L/1H CRSUBM 3,69,55
 ipr-mus LD50:267 mg/kg NCISP* JAN86

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

IBD000 CAS: 128-87-0 HR: 1
1,1'-IMINOBIS(4-AMINOANTHRAQUINONE)

mf: C₂₈H₁₇N₃O₄ mw: 459.48

SYNS: BIS(4-AMINO-1-ANTHRAQUINONYL)AMINE □ 4,4'-DIAMINO-1,1'-ANIHRRIMIDE □ 4,4'-DIAMINO-1,1'-DIANTHRAQUINONYLAMINE □ 4,4'-DIAMINO-1,1'-DIANTHRAQUINONYLIMINE □ 4,4'-DIAMINO-1,1'-DIANTHRIMID (CZECH) □ 4,4'-DIAMINO-1,1'-DIANTHRIMIDE □ 4,4'-DIAMINO-IMINO-1,1'BIANTHRAQUINONE □ 4,4'-DIAMINO-1,1'-IMINOBIS-ANTHRAQUINONE □ 1,1'-IMINOBIS(4-AMINO-9,10-ANTHRACENEDIONE)

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,125,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

IBE000 CAS: 128-89-2 HR: 1
4,5'-IMINOBIS(4-BENZAMIDOANTHRAQUINONE)

mf: C₄₂H₂₅N₃O₆ mw: 667.70

SYN: 4,5'-BIS-BENZOYLAMINO-1,1'-DIANTHRIMID (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,127,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

IBF000 CAS: 73816-77-0 HR: 2
5,6'-IMINOBIS(1-HYDROXY-2-NAPHTHALENE-SULFONIC ACID)

mf: C₂₀H₁₅NO₈S₂ mw: 461.48

SYNS: BIS-(5-HYDROXY-7-SULFO-2-NAFTYL)AMIN (CZECH) □ KYSELINA DI-I (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H SEV 28ZPAK -,195,72

orl-rat LD50:11 g/kg 28ZPAK -,195,72

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

IBH000 CAS: 142-73-4 HR: 3
IMINODIACETIC ACID

mf: C₄H₇NO₄ mw: 133.12

PROP: Orthorhombic crystals. Decomp @ 247.5°. Mp: 220–250° (commercial grade). Insol in alc and ether. Insol in acetone, methanol, ether, benzene, carbon tetrachloride and heptanone.

SYNS: N-(CARBOXYMETHYL)GLYCINE □ DIGLYCIN □ DIGLYCINE □ DIGLYKOKOLL □ HAMPSHIRE □ IDA □ IMINOBIS(ACETIC ACID) □ 2,2'-IMINODIACETIC ACID □ IMINODIETHANOIC ACID □ USAF DO-55

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 toxic fumes of NO_x.

IBI000 CAS: 82-22-4 HR: 1
1,1'-IMINODIANTHRAQUINONE

mf: C₂₈H₁₅NO₄ mw: 429.44

PROP: Deep-red needles from PhCl; rhombs from PhNO₂. Sol in conc in H₂SO₄; sltly sol in aniline, PhCl, PhNO₂; insol in org solvs.

SYNS: ANTHRAQUINONYLAMINOANTHRAQUINONE □ ANTHRIMIDE □ DI-1,1'-ANTHRACHINONYLAMIN (CZECH) □ DIANTHRAQUINONYLAMINE □ 1,1'-DIANTHRAQUINONYLAMINE □ 1,1'-DIANTHRIMID (CZECH) □ DIANTHRIMIDE □ 1,1'-DIANTHRIMIDE □ IMINO-1,1'-BIANTHRAQUINONE □ 1,1'-IMINOBIS-9,10-ANTHRACENEDIONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,125,72

eye-rbt 500 mg/24H MLD 28ZPAK -,125,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

IBJ000 CAS: 128-79-0 HR: 1
N,N'-(IMINODI-4,1-ANTHRAQUINONYLENE)-BISBENZAMIDE

mf: C₄₂H₂₅N₃O₆ mw: 667.70

SYNS: 4,4'-BIS-BENZOYLAMINO-1,1'-DIANTHRIMID (CZECH)

□ C.I. 65010 □ C.I. VAT BLACK 28 □ 4,4'-DIBENZAMIDO-1,1'-DIANTHRIMIDE □ 1,1'-IMINOBIS(4-BENZAMIDOANTHRAQUINONE) □ MIKETHRENE GREY K □ OLIVE AR, ANTHRIMIDE □ OLIVE R BASE □ ROMANTRENE GREY K

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H SEV 28ZPAK -,126,72

orl-rat LD50:19,300 mg/kg 28ZPAK -,126,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A severe eye irritant. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

IBJ050 CAS: 90000-16-1 HR: 3
IMINODI-2,1-ETHANEDIYL CARBAMIMIDOTHIOATE DIHYDROBROMIDE

mf: C₆H₁₅N₅S₂•2BrH mw: 383.22

SYNS: CARBAMIMIDOTHIOIC ACID, IMINODI-2,1-

ETHANEDIYL ESTER, DIHYDROBROMIDE □ PSEUDOURA, 2,2'-(IMINODIETHYLENE)BIS(2-THIO-, DIHYDROBROMIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:89 mg/kg RPTOAN 52,135,1989

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

IBJ100 CAS: 1752-24-5 HR: 3
4,4'-IMINODIPHENOL

mf: C₁₂H₁₁NO₂ mw: 201.24

SYNS: BIS(p-HYDROXYPHENYL)AMINE □ BIS(4-HYDROXY-PHENYL)AMINE □ 4,4'-DIHYDROXYDIPHENYLAMINE □ 4,4'-MINOBISPHENOL □ LEUCOINDOPHENOL □ PHENOL, 4,4'-IMINOBIS-(9CI) □ PHENOL, 4,4'-IMINODI-

TOXICITY DATA with REFERENCE:

orl-mus LD50:380 mg/kg ARZNAD 12,1123,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IBL000 CAS: 6846-35-1 HR: 3

5-IMINO-1,2,4-DITHIAZOLIDINE-3-THIONE

mf: C₂H₂N₂S₃ mw: 150.24

PROP: Yellow prisms from H₂O or DMSO (aq). Mp: 200–202°. Sol in CHCl₃; mod sol in Me₂CO, EtOH, C₆H₆, insol in Et₂O and H₂O.

SYNS: 5-AMINO-1,2,4-DITHIAZOLE-3-THIONE □ ISOPERTHIOCYANIC ACID □ XANTHAHYDROGEN

TOXICITY DATA with REFERENCE:

orl-rat LD50:3050 mg/kg GISAAA 49(4),90,84

orl-mus LD50:1200 mg/kg GISAAA 49(4),90,84

ivn-mus LD50:56 mg/kg CSLNX* NX#00229

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

IBL100 CAS: 21150-23-2 HR: 3

9,18-(IMINOETHANIMINOETHANIMINOETHAN-IMINOMETHANO)PYRROLO(1',2':8,9)(1,5,8,-11,14)THIATETRAAZACYCLOOCTADEC-INO(18,17-B)INDOLE-6-ACETAMIDE, 1,2,3,5,6,7,8,9, 10,12,17,18,19,20,21,22,23,-23A-OCTADECALHYDRO-29-sec-BUTYL-2,14-DIHYDROXY-21-(2-HYDROXY-1-METHYL-PROPYL)-5,8,20,23,24,27,30,33-OCTA-EXO,11-OXIDE

mf: C₃₉H₅₄N₁₀O₁₃S mw: 903.09

SYN: α-AMANITIN, 3-(4-HYDROXY-L-ISOLEUCINE)-, (S)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 µg/kg CRTBB2 5,185,78

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

IBL200 CAS: 150403-89-7 HR: 3

I-N⁶)-(1-IMINOETHYL)LYSINE HYDRO-CHLORIDE

mf: C₁₈H₁₇N₃O₂•ClH mw: 343.81

SYN: L-LYSINE, N⁶-IMINOETHYL-, HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-rat TDLo:6 mg/kg JPETAB 293,968,2000

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.

IBM000 CAS: 2152-34-3 HR: 3

2-IMINO-5-PHENYL-4-OXAZOLIDINONE

mf: C₉H₈N₂O₂ mw: 176.19

SYNS: PHENOXAZOLE □ 5-PHENYL-2-IMINO-4-OXAZO-LIDINONE □ 5-PHENYL-2-IMINO-4-OXOOXAZOLIDINE □ PHENYL ISOHYDANTOIN □ PHENYLSEUDOHYDANTOIN

TOXICITY DATA with REFERENCE:

orl-man TDLo:536 µg/kg JCPYDR 3,331,83

unr-cld TDLo:66 µg/kg/4W-I:SYS SMJOAV 77,938,84

orl-rat LD50:436 mg/kg PBPSDY 1,33,77 TXAPA9 21,315,72

orl-mus LD50:375 mg/kg PBPSDY 1,33,77

ipr-mus LD50:365 mg/kg PBPSDY 1,33,77

orl-bwd LD50:100 mg/kg TXAPA9 21,315,72

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. Human systemic effects: hepatitis. An experimental teratogen. A central nervous system stimulant. When heated to decomposition it emits toxic fumes of NO_x.

IBM100 CAS: 84545-30-2 HR: 2

3-((IMINO((2,2,2-TRIFLUOROETHYL)AMINO)-METHYL)AMINO)-1H-PYRAZOLE-1-PENTANAMIDE

mf: C₁₁H₁₇F₃N₆O mw: 306.34

SYNS: ICI 162846 □ 1H-PYRAZOLE-1-PENTANAMIDE, 3-((IMINO((2,2,2-TRIFLUOROETHYL)AMINO)METHYL)AMINO)-

SAFETY PROFILE: Questionable carcinogen with tumorigenic data reported. When heated to decomposition it emits toxic vapors of NO_x and F⁻.

IBP000 CAS: 19864-71-2 HR: 3

IMIPRAMINE-N-OXIDE HYDROCHLORIDE

mf: C₁₉H₂₄N₂O•ClH mw: 332.91

PROP: White crystals or hygroscopic powder. Mp: 153.1–155° (decomp).

SYN: 5-(3-DIMETHYLAMINO) PROPYL-10,11-DIHYDRO 5H-DIBENZ(b,f)AZEPINE, 5-OXIDE MONOHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:770 mg/kg OYYAA2 11,601,76

ipr-rat LD50:90 mg/kg MEIEDD 10,716,83

scu-rat LD50:260 mg/kg OYYAA2 11,601,76

orl-mus LD50:640 mg/kg OYYAA2 11,601,76

ipr-mus LD50:150 mg/kg MEIEDD 10,716,83

scu-mus LD50:255 mg/kg OYYAA2 11,601,76

ivn-mus LD50:86 mg/kg OYYAA2 11,601,76

SAFETY PROFILE: A poison by intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion. Experimental reproductive effects. Used as an antidepressant. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

IBP200 CAS: 561-43-3 HR: 3

IMMETROPAN

mf: C₂₁H₃₂NO₃•Br mw: 426.45

PROP: A solid. Mp: 176°.

SYNS: BM 3055 □ BRL 556 □ IMETRO □ L.D. 3055 □ 1-METHYL-2-(PYRROLID-2-YL)METHYL PHENYLCYCLOHEXYL GLYCOLLATE METHOBROMIDE □ OXYPYRRONIUM □ OXYPYRRONIUM BROMIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1040 mg/kg AIPTAK 147,552,64

scu-mus LD50:303 mg/kg AIPTAK 147,552,64

ivn-mus LD50:18 mg/kg AIPTAK 147,552,64

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

IBP250 CAS: 9007-83-4 HR: 1
IMMUNE ENDOGLOBULIN

SYNS: γ-GLOBULIN

□ GLOBULINS, γ- □ IMMUNOGLOBULIN □ SANDOGLOBULIN

TOXICITY DATA with REFERENCE:

ivn-chd TDLo:2 g/kg/94D-I:BLD BMJOAE
296,1262,1988

ivn-man TDLo:2 g/kg/5D-I:SYS NEJMAG
327,1032,1992

ivn-man TDLo:28571 µg/kg/5D-I:PUL,SYS AIMDAP
154,1985,1994

ivn-man TDLo:2800 mg/kg/7D-I:BLD AJMEAZ
82,633,1987

ivn-man TDLo:1340 mg/kg/2D-I:SYS,GIT AJKDDP
25,228,1995

orl-rat LD :>15 g/kg KSRNAM 5,1932,1971

scu-rat LD50:>15 g/kg KSRNAM 13,89,1979

ivn-rat LD50:>11 g/kg KSRNAM 13,89,1979

orl-mus LD :>15 g/kg KSRNAM 5,1932,1971

scu-mus LD50:>15 g/kg KSRNAM 13,89,1979

ivn-mus LD50:>11 g/kg KSRNAM 13,89,1979

scu-gpg LD50:>6 g/kg KSRNAM 5,2118,1971

ivn-gpg LD50:>8 g/kg KSRNAM 5,2118,1971

SAFETY PROFILE: Low toxicity by ingestion and intravenous routes. Human systemic effects When heated to decomposition it emits acrid smoke and irritating vapors.

IBP309 CAS: 2207-85-4 HR: 3
IMPIRAMINE-N-OXIDE

mf: C₁₉H₂₄N₂O mw: 296.45

PROP: White needle-like crystals. Mp: 120–123° (decomp); sol in methanol, ether, acetone, and benzene. Hygroscopic.

SYNS: 5-(3-(DIMETHYLAMINO)PROPYL)-10,11-DIHYDRO-5H-DIBENZ(b,f)AZEPINE-5-OXIDE □ GP 38383 □ IPNO

TOXICITY DATA with REFERENCE:

orl-rat LD50:102 mg/kg MPHEAE 15,187,66

ipr-rat LD50:90 mg/kg 27ZQAG -,79,72

ipr-mus LD50:150 mg/kg 27ZQAG -,79,72

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also IMIPRAMINE-N-OXIDE HYDROCHLORIDE.

IBQ075 CAS: 65573-02-6 HR: 3
IMPROMIDINE HYDROCHLORIDE

mf: C₁₄H₂₃N₇S•3ClH mw: 430.88

PROP: Crystals from EtOH. Mp: 195–197°.

SYNS: IMPROMIDINE TRIHYDROCHLORIDE □ SK&F 92676

TOXICITY DATA with REFERENCE:

ivn-rat LD50:25 mg/kg JJATDK 2,265,82

ivn-mus LD50:9600 µg/kg JJATDK 2,265,82

ivn-dog LDLo:27,700 µg/kg JJATDK 2,265,82

SAFETY PROFILE: Poison by intravenous route. A histamine H₂-receptor agonist. When heated to

decomposition it emits toxic fumes of SO_x, NO_x, and HCl.

IBQ100 CAS: 32784-82-0 HR: 3
IMPROSULFAN TOSYLATE

mf: C₈H₁₉NO₆S₂•C₇H₈O₃S mw: 461.61

SYNS: BIS(3-METHYLSULFONYLOXYPROPYL)AMINE p-TOLUENESULFONATE □ 3,3'-IMINOBIS-1-PROPANOL DIMETHANESULFONATE (ester), 4-METHYLBENZENE-SULFONATE (salt) □ IMINODIPROPYL DIMETHANE-SULFONATE 4-TOLUENESULPHONATE □ IMPROSULFAN-p-TOLUENESULFONATE □ IMPROSULFAN TOSILATE □ NSC-140117 □ PROTECTON □ 864T

TOXICITY DATA with REFERENCE:

mma-esc 50 µg/plate TAKHAA 44,96,85

orl-rat LD50:108 mg/kg IYKEDH 10,232,79

ipr-rat LD50:104 mg/kg IYKEDH 10,232,79

scu-rat LD50:147 mg/kg IYKEDH 10,232,79

ivn-rat LD50:70 mg/kg GTKRDX 6,183,79

orl-mus LD50:211 mg/kg IYKEDH 10,232,79

ipr-mus LD50:210 mg/kg IYKEDH 10,232,79

scu-mus LD50:228 mg/kg IYKEDH 5,444,74

ivn-mus LD50:149 mg/kg IYKEDH 10,232,79

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

IBQ300 CAS: 53734-79-5 HR: 3
INCASAN

mf: C₁₅H₁₇N₃O•ClH mw: 291.81

SYNS: INCAZANE □ INKASAN □ 3-METHYL-8-METHOXY-3H,1,2,5,6-TETRAHYDROPYRAZINO-(1,2,3-ab)-β-CARBOLINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:445 mg/kg FATOAO 43,133,80

scu-mus LD50:250 mg/kg FATOAO 43,133,80

ivn-mus LD50:85 mg/kg FATOAO 43,133,80

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.

IBQ400 CAS: 57296-63-6 HR: 3
INDACRINONE

mf: C₁₈H₁₄Cl₂O₄ mw: 365.22

PROP: Crystals from AcOH. Mp: 167–168°.

SYNS: ACETIC ACID, ((2,3-DIHYDRO-6,7-DICHLORO-2-METHYL-1-OXO-2-PHENYL-1H-INDEN-5-YL)OXY)-, (±)- □ 6,7-DICHLORO-2-METHYL-1-OXO-2-PHENYL-5-INDANYLOXYACETIC ACID □ MK 196 □ (±)-MK 196

TOXICITY DATA with REFERENCE:

orl-mus LD50:592 mg/kg DRFUD4 13,257,88

ipr-mus LD50:246 mg/kg DRFUD4 13,257,88

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of Cl⁻.

IBR000 CAS: 496-11-7 HR: 1
INDAN

mf: C₉H₁₀ mw: 118.19

PROP: Colorless liquid. D: 0.963, bp: 176.5°, mp: -51.4°. Insol in water, misc in alc and ether, sol in org solvs.

SYNS: 2,3-DIHYDROINDENE □ 1,2-HYDRINDENE □ HYDRINDONAPHTHENE □ INDANE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5000 mg/kg 28ZRAQ -,55,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IBR200 CAS: 40507-78-6 HR: 3

INDANAZOLINE HYDROCHLORIDE

mf: C₁₂H₁₅N₃•ClH mw: 237.76

PROP: Crystals from pet ether. Mp: 109–113°.

SYNS: FARIAL □ N-(2-IMIDAZOLINE-2-YL)-N-(4-INDANYL)AMIN-MONOHYDROCHLORID (GERMAN) □ N-(2-IMIDAZOLINE-2-YL)-N-(4-INDANYL)AMINE MONOHYDROCHLORIDE □ INDANAZOLIN (GERMAN) □ INDANAZOLINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:481 mg/kg ARZNAD 30,1760,80

ivn-rat LD50:16 mg/kg ARZNAD 30,1760,80

orl-mus LD50:179 mg/kg ARZNAD 30,1760,80

ivn-mus LD50:22 mg/kg ARZNAD 30,1760,80

orl-dog LDLo:316 mg/kg ARZNAD 30,1760,80

SAFETY PROFILE: Poison by ingestion and intravenous routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl. A nasal decongestant and vasoconstrictor.

IBS000 CAS: 606-23-5 HR: 3

1,3-INDANDIONE

mf: C₉H₆O₂ mw: 146.15

PROP: Crystals or liquid; needles from ligroin. Mp: 129–131° decomp. Very sltly sol in cold water; sol in hot alc, benzene.

SYNS: 1,3-DIKETOHYDRINDENE □ 1H-INDENE-1,3(2H)-DIONE

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:100 mg/kg ARTODN 33,191,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Experimental teratogenic and reproductive effects. When heated to decomposition it emits acrid smoke and fumes.

IBU000 CAS: 1470-94-6 HR: 2

5-INDANOL

mf: C₉H₁₀O mw: 134.19

PROP: Needles from pet ether. Mp: 56°, bp: 225°.

SYNS: 5-HYDROXYHYDRINDENE □ INDAN-5-OL

TOXICITY DATA with REFERENCE:

skn-rbt 100 µg/24H open AIHAAP 23,95,62

orl-rat LD50:3250 mg/kg AIHAAP 23,95,62

skn-rbt LD50:450 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IBV000 CAS: 615-13-4 HR: 3

2-INDANONE

mf: C₉H₈O mw: 132.17

PROP: Needles from EtOH or Et₂O. Mp: 61°.

SYN: 1,3-DIHYDRO-2H-INDEN-2-ONE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#08390

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IBV050 CAS: 81-77-6 HR: 3

INDANTHRENE BLUE

mf: C₂₈H₁₄N₂O₄ mw: 442.44

SYNS: ANTHRAQUINONE BLUE □ ANTHRAQUINONE DEEP BLUE □ 5,9,14,18-ANTHAZINETETTRONE, 6,15-DIHYDRO- □ ATIC VAT BLUE XRN □ BENZADONE BLUE RS □ BLEU SOLANTHRENE □ BLUE ANTHRAQUINONE PIGMENT □ BLUE O □ CALCOLOID BLUE RS □ CALEDON BLUE RN □ CALEDON BLUE XRN □ CALEDON BRILLIANT BLUE RN □ CALEDON PAPER BLUE RN □ CALEDON PRINTING BLUE RN □ CALEDON PRINTING BLUE XRN □ CARBANTHRENE BLUE 2R □ CARBANTHRENE BLUE RS □ CARBANTHRENE BLUE RSP □ CELLITON BLUE RN □ C.I. 1106 □ C.I. 69800 □ CIBANONE BLUE FRS □ CIBANONE BLUE FRSN □ CIBANONE BLUE RS □ CIBANONE BRILLIANT BLUE FR □ C.I. PIGMENT BLUE 60 □ C.I. VAT BLUE 4 □ CROMOPHTAL BLUE A 3R □ N,N-DIHYDRO-1,1,1',2'-ANTHRAQUINONE-AZINE □ E 130 □ FENAN BLUE RSN □ FENANTHREN BLUE RS □ FOOD BLUE 4 □ GRAPHTOL BLUE RL □ HELIANTHRENE BLUE RS □ HELIOGEN BLUE 6470 □ INDANTHREN BLUE □ INDANTHREN BLUE GP □ INDANTHREN BLUE GPT □ INDANTHREN BLUE RPT □ INDANTHREN BLUE RS □ INDANTHREN BLUE RSN □ INDANTHREN BLUE RSP □ INDANTHREN BRILLIANT BLUE R □ INDANTHRENE □ INDANTHRENE BLUE GP □ INDANTHRENE BLUE RP □ INDANTHRENE BLUE RS □ INDANTHRENE BLUE RSA □ INDANTHRENE BLUE RSN □ INDANTHREN PRINTING BLUE FRS □ INDANTHREN PRINTING BLUE KRS □ INDANTHRENE □ LAKE FAST BLUE BS □ LAKE FAST BLUE GGS □ LATEXOL FAST BLUE SD □ L-BLAU 1 □ LIONOGEN BLUE R □ LUTETIA FAST BLUE RS □ MEDIUM BLUE □ MIKETHRENE BLUE RSN □ MIKETHRENE BRILLIANT BLUE R □ MODR KYPOVA 4 □ MODR PIGMENT 60 □ MODR POTRAVINARSKA 4 □ MONOLITE FAST BLUE 3R □ MONOLITE FAST BLUE 3RD □ MONOLITE FAST BLUE RV □ MONOLITE FAST BLUE SRS □ NAVINON BLUE RSN □ NAVINON BLUE RSN REDDISH SPECIAL □ NIHONTHRENE BLUE RSN □ NIHONTHRENE BRILLIANT BLUE RP □ OSTANTHREN BLUE RS □ OSTANTHREN BLUE RSN □ OSTANTHREN BLUE RSZ □ OSTANTHRENE BLUE RS □ PALANTHRENE BLUE GPT □ PALANTHRENE BLUE GPZ □ PALANTHRENE BLUE RPT □ PALANTHRENE BLUE RPZ □ PALANTHRENE BLUE RSN □ PALANTHRENE BRILLIANT BLUE R □ PALANTHRENE PRINTING BLUE KRS □ PARADONE BLUE RS □ PARADONE BRILLIANT BLUE R □ PARADONE PRINTING BLUE FRS □

PERNITHRENE BLUE RS □ PIGMENT ANTHRAQUINONE
DEEP BLUE □ PIGMENT BLUE 60 □ PIGMENT BLUE
ANTHRAQUINONE □ PIGMENT BLUE ANTHRAQUINONE V
□ PIGMENT DEEP BLUE ANTHRAQUINONE □ POLYMON
BLUE 3R □ PONSOL BLUE GZ □ PONSOL BLUE RCL □
PONSOL BLUE RPC □ PONSOL BRILLIANT BLUE R □ PONSOL
RP □ ROMANTHRENE BLUE FRS □ ROMANTRENE BLUE FRS
□ ROMANTRENE BLUE GGSL □ ROMANTRENE BLUE RSZ □
ROMANTRENE BRILLIANT BLUE FR □ ROMANTRENE
BRILLIANT BLUE R □ SANDOTHRENE BLUE NRSC □
SANDOTHRENE BLUE NRSN □ SANYO THRENE BLUE IRN □
SCHULTZ No. 1228 □ SOLANTHRENE BLUE RS □
SOLANTHRENE BLUE RSN □ SOLANTHRENE R FOR SUGAR □
SYMULER FAST BLUE 6011 □ TINON BLUE RS □ TINON BLUE
RSN □ TYRIAN BLUE I-RSN □ TYRIAN BRILLIANT BLUE I-R □
VAT BLUE 4 □ VAT BLUE O □ VAT BLUE OD □ VAT FAST
BLUE R □ VERSAL BLUE GGSL □ VULCAFIX FAST BLUE SD □
VULCAFOR FAST BLUE 3R □ VULCANOSINE FAST BLUE GG □
VULCOL FAST BLUE S □ VYNAMON BLUE 3R

TOXICITY DATA with REFERENCE:

orl-rat LD50:2 g/kg FAONAU 38B,60,66
itr-rat LD50:250 mg/kg 85JCAE -,1327,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intratracheal route. When heated to decomposition it emits toxic vapors of NO_x.

IBV100 CAS: 26807-65-8 HR: 3
INDAPAMIDE

mf: C₁₆H₁₆ClN₃O₃S mw: 365.86

PROP: Crystals from isopropanol/water. Mp: 160–162°.

SYNS: 3-(AMINOSULFONYL)-4-CHLORO-N-(2,3-DIHYDRO-2-METHYL-1H-INDOL-1-YL)-BENZAMIDE (9CI) □ BAJATEN □ 4-CHLORO-N-(2-METHYL-1-INDOLINYL)-3-SULFAMOYL BENZAMIDE □ FLUDEX □ INDAFLEX □ INDAMOL □ IPAMIX □ LOZOL □ NATRILIX □ NORANAT □ TANDIX □ S 1520 □ SE-1520

TOXICITY DATA with REFERENCE:

ipr-rat LD50:393 mg/kg ARZNAD 25,1491,75
ivn-rat LD50:394 mg/kg ARZNAD 25,1491,75
ipr-mus LD50:410 mg/kg ARZNAD 25,1491,75
ivn-mus LD50:577 mg/kg ARZNAD 25,1491,75
ivn-rbt LD50:337 mg/kg IYKEDH 12,1110,81
ipr-gpg LD50:347 mg/kg ARZNAD 25,1491,75
ivn-gpg LD50:272 mg/kg ARZNAD 25,1491,75

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of Cl⁻, SO_x, and NO_x.

IBW100 CAS: 81265-54-5 HR: 2
2-(p-(2H-INDAZOL-2-YL)PHENYL)PROPIONIC ACID

mf: C₁₆H₁₄N₂O₂ mw: 266.32

SYN: M.G.18755

TOXICITY DATA with REFERENCE:

orl-rat LD50:1550 mg/kg FRPSAX 36,1037,81
orl-mus LD50:1150 mg/kg FRPSAX 36,1037,81
ipr-mus LD50:435 mg/kg FRPSAX 36,1037,81

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

IBW400 HR: 3
INDECAINIDE HYDROCHLORIDE

mf: C₂₀H₂₄N₂O•ClH mw: 344.92

SYN: 9-(3-((1-METHYLETHYL)AMINO)PROPYL)-9H-FLUORENE-9-CARBOXAMIDE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:82 mg/kg FAATDF 5,175,85
ivn-rat LD50:10 mg/kg TOLED5 26,107,85
orl-mus LD50:96 mg/kg FAATDF 5,175,85
orl-dog LD50:25 mg/kg FAATDF 5,175,85
ivn-dog LDLo:10 mg/kg TOLED5 26,107,85

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

IBW500 CAS: 65043-22-3 HR: 3
INDELOXAZINE HYDROCHLORIDE

mf: C₁₄H₁₇NO₂•ClH mw: 267.78

PROP: (±)-Form: Polymorphic; pale yellow needles from methanol. Mp: 169–170°. Colorless, acicular crystals from acetone. Mp: 155–156°. (+)-Form: Crystals from ethanol. Mp: 112–113°. (–)-Form: Crystals from isopropanol. Mp: 142–142.5°.

SYNS: ELEN □ 2-(7-INDENYLOXYMETHYL)MORPHOLINE HYDROCHLORIDE □ 2-((1H-INDEN-7-YLOXY)METHYL)-MORPHOLINE HYDROCHLORIDE □ YM-08054 □ YM-08054-1

TOXICITY DATA with REFERENCE:

orl-rat LD50:502 mg/kg KSRNAM 19,5687,85
scu-rat LD50:206 mg/kg KSRNAM 19,5687,85
ivn-rat LD50:77,300 µg/kg KSRNAM 19,5687,85
orl-mus LD50:444 mg/kg KSRNAM 19,5687,85
scu-mus LD50:245 mg/kg KSRNAM 19,5687,85
ivn-mus LD50:47 mg/kg AIPTAK 238,81,79

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

IBX000 CAS: 95-13-6 HR: 2
INDENE

mf: C₉H₈ mw: 116.17

PROP: Liquid from coal tars. D: 0.9968 @ 20°/4°, mp: –1.8°, bp: 181.6°. Water-insol, but misc in org solvs.

SYN: INDONAPHTHENE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:14 g/m³ GISAAA 41(4),104,76
unr-rat LD50:2300 mg/kg GISAAA 41(4),104,76
unr-mus LD50:1800 mg/kg GISAAA 41(4),104,76
orl-uns LD50:>5 g/kg GISAAA 39(4),86,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 10 ppm

ACGIH TLV: TWA 10 ppm

NIOSH REL: (Indene) TWA 10 ppm

SAFETY PROFILE: Low toxicity by ingestion, inhalation, and possibly other routes. Irritating to skin,

eyes, and mucous membranes. It has exploded during nitration with (H₂SO₄ + HNO₃). When heated to decomposition it emits acrid smoke and fumes.

IBY000**HR: 2****INDENE TRIPROPYLAMINE****TOXICITY DATA with REFERENCE:**

eye-rbt 100 mg SEV IHFCAY 6,1,67

orl-rat LD50:540 mg/kg IHFCAY 6,1,67

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

IBY600**CAS: 81789-85-7****HR: 3****INDENOLOL HYDROCHLORIDE**mf: C₁₅H₂₁NO₂•ClH mw: 283.83**PROP:** Crystals from EtOH/Et₂O. Mp: 147–148°.**SYN:** 1-(4(or 7)-INDENYLOXY)-3-(ISOPROPYLAMINO)-2-PROPANOL HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:549 mg/kg NIIRDN 6,89,82

ipr-rat LD50:62 mg/kg NIIRDN 6,89,82

scu-rat LD50:345 mg/kg NIIRDN 6,89,82

ivn-rat LD50:29 mg/kg NIIRDN 6,89,82

orl-mus LD50:388 mg/kg NIIRDN 6,89,82

ipr-mus LD50:107 mg/kg NIIRDN 6,89,82

scu-mus LD50:236 mg/kg NIIRDN 6,89,82

ivn-mus LD50:27 mg/kg NIIRDN 6,89,82

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

IBY650**CAS: 68906-88-7****HR: 3****INDENOLOL HYDROCHLORIDE**mf: C₁₅H₂₁NO₂•ClH mw: 283.83

SYNS: 2-PROPANOL, 1-(4(OR 7)-INDENYLOXY)-3-(ISOPROPYLAMINO)-, HYDROCHLORIDE □ INDENOLOL CLORHIDR-ATO □ dl-INDENOLOL HYDROCHLORIDE □ 2-PROPANOL, 1-(7-INDENYLOXY)-3-(ISOPROPYLAMINO)-, HYDROCHLORIDE AND 1-(4-INDENYLOXY)-3-ISOPROPYLAMINO-2-PROPANOL HYDROCHLORIDE (2:1 TAUTOMERIC MIXTURE) □ 2-PROPANOL, 1-(1H-INDEN-4(OR 7)-YLOXY)-3-((1-METHYLETHYL)-AMINO)-, HYDROCHLORIDE, (+)- □ PULSAN (PHARMACEUTICAL)

TOXICITY DATA with REFERENCE:

orl-rat LD50:549 mg/kg MDACAP 16,20,1980

ipr-rat LD50:62 mg/kg MDACAP 16,20,1980

scu-rat LD50:345 mg/kg IYKEDH 9,1066,1978

ivn-rat LD50:29500 µg/kg IYKEDH 9,1066,1978

orl-mus LD50:388 mg/kg IYKEDH 9,1066,1978

ipr-mus LD50:107 mg/kg MDACAP 16,20,1980

scu-mus LD50:236 mg/kg MDACAP 16,20,1980

ivn-mus LD50:26600 µg/kg IYKEDH 9,1066,1978

SAFETY PROFILE: A poison by intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.

IBY700**CAS: 212-54-4****HR: D****13H-INDENO(1,2-c)PHENANTHRENE**mf: C₂₁H₁₄ mw: 266.35**TOXICITY DATA with REFERENCE:**

mic-sat 40 µLg/plate CRNGDP 17,2009,1996

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

IBZ000**CAS: 193-39-5****HR: 3****INDENO(1,2,3-cd)PYRENE**mf: C₂₂H₁₂ mw: 276.34

PROP: Yellow crystals from cyclohexane; bright-yellow plates from pet ether/C₆H₆. Mp: 161–163.5°.

SYNS: 1,10-(o-PHENYLENE)PYRENE □ 1,10-(1,2-PHENYLENE)PYRENE □ 2,3-PHENYLENEPYRENE □ 2,3-o-PHENYLENEPYRENE □ RCRA WASTE NUMBER U137

TOXICITY DATA with REFERENCE:

mma-sat 3 µg/plate/48H FCTXAV 17,141,79

otr-ham:lng 100 µg/L TXYAC 17,149,80

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 32,373,83; IMEMDT 3,229,73. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Polynuclear Aromatic Hydrocarbons (HPLC), 5506; (GC), 5515.

IBZ100**CAS: 99520-58-8****HR: 2****INDENO(1,2,3-cd)PYREN-8-OL**mf: C₂₂H₁₂O mw: 292.34

PROP: Fine yellow crystals from C₆H₆. Mp: 221–222.5° (decomp).

SYN: 8-HYDROXYINDENO(1,2,3-cd)PYRENE**TOXICITY DATA with REFERENCE:**

mma-sat 10 µg/plate CNREA8 45,5421,85

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

ICA000**CAS: 36576-14-4****HR: 3****(±)-1-(7-INDENYLOXY)-3-ISOPROPYLAMINO-PROPAN-2-OL HYDROCHLORIDE**mf: C₁₅H₂₁NO₂•ClH mw: 283.83**SYNS:** dl-YB2 □ INDENOLOL HYDROCHLORIDE □ PULSAN**TOXICITY DATA with REFERENCE:**

orl-mus LD50:232 mg/kg AIPTAK 202,79,73

ivn-mus LD50:26 mg/kg ARZNAD 27,1022,77

SAFETY PROFILE: Poison by ingestion and intravenous routes. Used as a beta-adrenergic blocker. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

ICB000**CAS: 525-66-6****HR: 3****INDERAL**mf: C₁₆H₂₁NO₂ mw: 259.38

PROP: White, odorless crystalline powder. Sol of 1 in 20 of water or alcohol; sltly sol in chloroform; practically insol in ether.

SYNS: AY 64043 □ DOCITON □ ICI 45520 □ 1-ISOPROPYL-AMINE-3-(1-NAPHTHYLOXY)-2-PROPANOL □ 1-ISOPROPYL-AMINO-3-(1-NAPHTHYLOXY)-2-PROPANOL □ NSC-91523 □ PROPANALOL □ PROPANOLOL

TOXICITY DATA with REFERENCE:

mnt-mus-ipr 74,500 µg/kg MUREAV 173,207,86
 orl-wmn TDLo:3200 µg/kg:GLN IJMDAI 18,725,82
 orl-hmn TDLo:2300 µg/kg:CNS BMJOAE 1,1182,78
 orl-wmn LDLo:120 mg/kg APTOA6 41,190,77
 orl-cld LDLo:800 µg/kg/12H BMJOAE 2,254,78
 orl-chd TDLo:400 mg/kg:CNS, CVS MJAUJ 1,82,81
 orl-man TDLo:8343 mg/kg/4Y-I:SYS AIMDAP 143,2193,83
 ivn-hmn LDLo:71 µg/kg LANCAO 1,165,67
 orl-rat LD50:660 mg/kg PHARAT 31,635,76
 ivn-rat LD50:23 mg/kg PHARAT 31,635,76
 orl-mus LD50:289 mg/kg ARZNAD 30,1831,80
 ipr-mus LD50:42 mg/kg AIMJA9 30,23,79
 scu-mus LD50:150 mg/kg FATOAO 44,342,81
 ivn-mus LD50:1900 µg/kg CYLPDN 5,251,84
 orl-dog LDLo:120 mg/kg NYKZAU 69(4),262P,73
 ivn-gpg LD50:26 mg/kg DPHFAK 24,103,72

SAFETY PROFILE: A deadly human poison by ingestion and intravenous routes. Poison experimentally by ingestion, intraperitoneal, intravenous, and subcutaneous routes. Human systemic effects by ingestion: cardiac arrhythmias, hallucinations, hypoglycemia, convulsions, and thyroid malfunction. Human reproductive and teratogenic effects by ingestion: extra embryonic structures, abnormal Apgar score in newborn, and abnormal growth statistics. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also INDERAL HYDROCHLORIDE.

ICC000 CAS: 318-98-9 HR: 3 INDERAL HYDROCHLORIDE

mf: C₁₆H₂₁NO₂•ClH mw: 295.84

PROP: A solid. Mp: 163–164°.

SYNS: ANAPRILIN □ AY 64043 □ BERKOLOL □ BETA-NEG □ CARIDOROL □ DERALIN □ DOCITON □ FREKVEN □ ICI 45520 □ INDEREX □ INDEROL □ INDOBLOC □ 1-(ISO-PROPYLAMINO)-3-(α-NAPHTHOXY)-2-PROPANOL HYDROCHLORIDE □ 1-ISOPROPYLAMINO-3-(1-NAPHTHOXY)-PROPAN-2-OL HYDROCHLORIDE □ 1-(ISOPROPYLAMINO)-3-(1-NAPHTHYLOXY)PROPAN-2-OL HYDROCHLORIDE □ 1-(ISOPROPYLAMINO)-3-(1-NAPHTHYLOXY)-2-PROPANOL HYDROCHLORIDE □ KEMI □ 1-((1-METHYLETHYL)AMINO)-3-(1-NAPHTHALENYLOXY)-2-PROPANOL HYDROCHLORIDE □ 1-(1-NAPHTHYLOXY)-2-HYDROXY-3-ISOPROPYLAMINO-PROPANE HYDROCHLORIDE □ NSC-91523 □ OPOSIM □ PROPANOLOL □ PROPANOLOL HYDROCHLORIDE □ PYLAPRON □ RAPHYNOGEN □ TESNOL

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:8400 µg/kg/7D-I:PNS,BAH CTOXAO 4,357,71
 orl-wmn TDLo:160 mg/kg:BAH, CVS AEMED3 16,1381,87
 orl-man TDLo:4 mg/kg/1W-I:PUL, DICPBB 16,776,82
 orl-man TDLo:857 µg/kg/3D-I:SKN ARDEAC 121,1326,85
 orl-man TDLo:43 mg/kg SAMJAF 67,1062,85
 orl-man TDLo:417 mg/kg/1Y-I:PUL PRACAK 229,663,85

orl-wmn TDLo:77 mg/kg:EYE,PSY AEMED3 14,161,85
 orl-wmn TDLo:22 mg/kg/4W-I:CNS JCGADC 8,74,86
 ivn-wmn LDLo:40 µg/kg:CVS,PUL AIMDAP 144,173,84
 ivn-man TDLo:29 µg/kg/5M-I:CVS,BPR AEMED3 14,1112,85
 orl-rat LD50:466 mg/kg ARZNAD 35,1236,85
 ipr-rat LD50:76 mg/kg ARZNAD 26,506,76
 scu-rat LD50:115 mg/kg YACHDS 12(Suppl 6),969,84
 ivn-rat LD50:21 mg/kg YACHDS 12(Suppl 6),969,84
 orl-mus LD50:320 mg/kg OYAA2 2,70,68
 ipr-mus LD50:80 mg/kg JDGRAX 16,171,85
 scu-mus LD50:208 mg/kg YACHDS 12(Suppl 6),969,84
 ivn-mus LD50:18 mg/kg ARZNAD 27,1022,77
 orl-rbt LD50:600 mg/kg NIIRDN 6,733,82

SAFETY PROFILE: A deadly human poison by intravenous route. Poison experimentally by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Experimental reproductive effects. Human systemic effects: acute pulmonary edema, altered sleep time, blood pressure elevation, bronchiolar constriction, cardiac arrhythmias, cardiac changes, coma, convulsions, cough, dermatitis, distorted perceptions, dyspnea, encephalitis, hallucinations, mydriasis, pulse rate increase, sensory change involving peripheral nerve, somnolence, toxic psychosis. A beta-adrenergic blocker. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also INDERAL.

ICC700 HR: 3 INDIAN COBRA VENOM

SYNS: NAJA NAJA NAJA VENOM □ N. NAJA NAJA VENOM □ VENOM, INDIAN COBRA, NAJA NAJA NAJA

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 µg/kg TOXIA6 19,295,81
 ivn-mus LD50:244 µg/kg TOXIA6 9,131,71
 ivn-rbt LDLo:25 µg/kg TOXIA6 19,295,81

SAFETY PROFILE: Deadly poison by intravenous and intraperitoneal routes.

ICC800 CAS: 458-37-7 HR: 2 INDIAN TURMERIC

mf: C₂₁H₂₀O₆ mw: 368.41

PROP: Orange powder, odorless. Insol in water. Mp: 183°.

SYNS: C.I. 75300 □ C.I. NATURAL YELLOW 3 □ CURCUMA □ CURCUMIN □ DIFERULOYLMETHANE □ E 100 □ GOLDEN SEAL □ HAIDR □ HALAD □ HALDAR □ HALUD □ 1,6-HEPTADIENE-3,5-DIONE, 1,7-BIS(4-HYDROXY-3-METHOXYPHENYL)- □ HYDRASTIS □ INDIAN SAFFRON □ KACHA HALDI □ KURKUMIN □ MERITA EARTH □ NCI-C61325 □ ORANGE ROOT □ SOUCHET □ TURMERIC YELLOW □ YELLOW GINGER □ YELLOW PUCCON □ YELLOW ROOT □ YO-KIN □ ZLUT PRIRODNI 3

TOXICITY DATA with REFERENCE:

mnt-hmn:emb 73,600 µg/L SNSHBT (20),574,80
 cyt-hmn:emb 36,800 µg/L SNSHBT (20),574,80
 mnt-hmn:lng 73,600 µg/L SNSHBT (20),574,80
 orl-mus LD50:>2 g/kg JPPMAB 25,447,73
 ipr-mus LD50:1500 mg/kg IJMRAQ 64,601,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

ICD000 CAS: 2642-37-7 HR: 2
INDICAN (POTASSIUM SALT)

mf: $C_8H_6NO_4S \cdot K$ mw: 251.31

PROP: Light brown plates from aq alc. Decomp @ 179–180° (subl), very sol in water; insol in cold alc.

SYNS: INDOL-3-OL, HYDROGEN SULFATE (ESTER), POTASSIUM SALT □ INDOL-3-OL, POTASSIUM SULFATE □ INDOL-3-YL POTASSIUM SULFATE □ INDOL-3-YL SULFATE, POTASSIUM SALT □ POTASSIUM INDOL-3-YL SULFATE □ URINARY INDICAN

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x , K_2O , and SO_x .

ICD100 CAS: 41708-76-3 HR: 2
INDICINE-N-OXIDE

mf: $C_{15}H_{25}NO_6$ mw: 315.41

PROP: Deliquescent crystals from MeOH. Mp: 130–131° (decomp).

SYNS: INDI □ NSC-132319

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1917 mg/kg NCISP* JAN86

ivn-mus LD50:3733 mg/kg NTIS** PB84-161694

ivn-dog LD50:1200 mg/kg DRFUD4 7,633,82

SAFETY PROFILE: Moderately toxic by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x . See also ESTERS.

ICE000 CAS: 520-18-3 HR: 2
INDIGO YELLOW

mf: $C_{15}H_{10}O_6$ mw: 286.25

PROP: Yellow needles from EtOH (aq). Mp: 276–278°. Sol in EtOH.

SYNS: 4H-1-BENZOPYRAN-4-ONE, 3,5,7-TRIHYDROXY-2-(4-HYDROXYPHENYL)- □ CAMPHEROL □ C.I. 75640 □ KAEMPFEROL □ KAEMPFEROL □ KAMPHEROL □ KEMPFEROL □ NIMBECETIN □ PELARGIDENOLON □ PELARGIDENOLON 1497 □ POPULNETIN □ RHAMNOLUTEIN □ RHAMNOLUTIN □ ROBIGENIN □ SWARTZIOI □ 3,4',5,7-TETRAHYDROXYFLAVONE □ TRIFOLITIN □ 5,7,4'-TRIHYDROXYFLAVONOL

TOXICITY DATA with REFERENCE:

mma-sat 166 nmol/plate MUREAV 54,297,78

mnt-mus-ipr 200 mg/kg MUREAV 89,69,81

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 31,171,83.

SAFETY PROFILE: Questionable carcinogen. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

ICE100 CAS: 157810-81-6 HR: 2
INDINAVIR SULFATE

mf: $C_{36}H_{47}N_5O_4 \cdot H_2O_4S$ mw: 711.96

SYNS: CRIXIVAN □ d-ERYTHRO-PENTONAMIDE, 2,3,5-TRIDEOXY-N-(2,3-DIHYDRO-2-HYDROXY-1H-INDEN-1-YL)-5-(2-((1,1-DIMETHYLETHYL)AMINO)CARBONYL)-4-(3-PYRIDINYLMETHYL)-1-PIPERAZINYL)-2-(PHEN YLMETHYL)-, (1(S,2R),5(S))-, SULFATE (1:1) (SALT) □ L 735524 □ MK639

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg YAKUD5 39,2167,1997

ipr-rat LD50:>5 g/kg YAKUD5 39,2167,1997

orl-mus LD50:>5 g/kg YAKUD5 39,2167,1997

ipr-mus LD50:>5 g/kg YAKUD5 39,2167,1997

orl-dog LD50:>640 mg/kg YAKUD5 39,2167,1997

ipr-dog LD50:>640 mg/kg YAKUD5 39,2167,1997

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

ICF000 CAS: 7440-74-6 HR: 3
INDIUM

af: In aw: 114.82

PROP: Soft, silvery-white, malleable and ductile metal. Liquid wets glass; stable in dry air. Slowly oxidized in moist air. Reacts with halogens, S, Se, Te, As, P on heating. Dissolves in Hg. Not affected by alkalis. Has plastic properties at cryogenic temps. Mp: 156.61°, bp: 2080°, d: 7.31 @ 20°. Insol in H_2O in bulk form; sol in most acids.

TOXICITY DATA with REFERENCE:

scu-mus LDLo:10 mg/kg 28ZLA8 -,144,61

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 mg(In)/m³

ACGIH TLV: TWA 0.1 mg(In)/m³

SAFETY PROFILE: A poison by subcutaneous route. It affects the liver, heart, kidneys, and the blood. Teratogenic effects. Inhalation of indium compounds may cause damage to the respiratory system. Hydrated indium oxide is a poison by intravenous route. Flammable in the form of dust when exposed to heat or flame. Incandescens. Explosive reaction with dinitrogen tetraoxide + acetonitrile. Violent reaction with mercury(II) bromide at 350°C. Mixtures with sulfur ignite when heated.

ICG000 CAS: 14405-45-9 HR: 3
INDIUM ACETYLACETONATE

mf: $C_{15}H_{21}InO_6$ mw: 412.18

PROP: White crystals from Me_2CO . Mp: 186°. Sol in MeOH, C_6H_6 , $CHCl_3$, $MeNO_2$, and Me_2CO ; almost insol in H_2O .

SYN: TRIS(2,4-PENTANEDIONATO)INDIUM

TOXICITY DATA with REFERENCE:

ivn-mus LD50:79 mg/kg CSLNX* NX#05186

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ICG100 CAS: 1303-11-3 HR: 1
INDIUM ARSENIDE

mf: AsIn mw: 189.74

PROP: Dark grey, odorless solid with vitreous lustre.

Mp: 94°, d: 5.67. Insol in water.

SYNS: INDIAM ARSENIDE □ INDIUM MONOARSENIDE

TOXICITY DATA with REFERENCE:

scu-mus LD50:32,500 mg/kg TOXID9 12,360,1992

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by subcutaneous route. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of As and In.

ICH000 CAS: 4194-69-8 HR: 2
INDIUM CITRATE

mf: C₁₈H₁₅O₂₁•In mw: 682.15

TOXICITY DATA with REFERENCE:

scu-mus LDLo:600 mg/kg 28ZLA8 -,144,61

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

ICI000 CAS: 13770-61-1 HR: 2
INDIUM NITRATE

mf: InN₃O₉ mw: 300.85

PROP: Crystal white powder.

TOXICITY DATA with REFERENCE:

skn-mam 500 mg SEV GISAAA 45(10),13,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Experimental teratogenic and reproductive effects. A severe skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also INDIUM and NITRATES.

ICI100 CAS: 1312-43-2 HR: 1
INDIUM OXIDE

mf: In₂O₃ mw: 277.64

PROP: Yellow, odorless, powder. Mp: 1900–1920°. Insol innwater.

SYNS: DIINDIUM TRIOXIDE □ INDIA □ INDIUM (III) OXIDE □ INDIUM (3+) OXIDE □ INDIUM SESQUIOXIDE □ INDIUM TRIOXIDE

TOXICITY DATA with REFERENCE:

orl-rat LD:>10 g/kg GTPZAB 29(12),38,85

orl-mus LDLo:10 g/kg GISAAA 30(10),28,65

ipr-mus LDLo:5 g/kg GISAAA 30(10),28,65

orl-gpg LD:>10 g/kg GTPZAB 29(12),38,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of indium.

ICI300 CAS: 22398-80-7 HR: 3
INDIUM PHOSPHIDE

mf: InP mw: 145.79

SYN: INDIUM MONOPHOSPHIDE

TOXICITY DATA with REFERENCE:

itr-rat LD :>100 mg/kg JOCHFV 38,205,1997

orl-mus LD :>5 g/kg JOCHFV 38,6,1996

ipr-mus LD :>5 g/kg JOCHFV 38,6,1996

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intratracheal route.

Low toxicity by ingestion and intraperitoneal route.

Experimental reproductive effects. When heated to

decomposition it emits toxic vapors of PO_x and In.

ICJ000 CAS: 13464-82-9 HR: 3
INDIUM SULFATE

mf: O₁₂S₃•In₂ mw: 517.82

PROP: Grayish-white, hygroscopic powder. D: 3.44. Sol in water. Keep well-closed.

SYNS: INDISULFAT (GERMAN) □ SULFURIC ACID, INDIUM SALT

TOXICITY DATA with REFERENCE:

orl-rat LDLo:1200 mg/kg AEPPAE 173,458,33

scu-rat LD50:22,500 µg/kg EQSSDX 1,1,75

ivn-rat LD50:5630 µg/kg EQSSDX 1,1,75

orl-rbt LDLo:1300 mg/kg AEPPAE 173,458,33

scu-rbt LDLo:2600 µg/kg EQSSDX 1,1,75

ivn-rbt LDLo:670 µg/kg EQSSDX 1,1,75

scu-frg LDLo:600 mg/kg AEPPAE 173,458,33

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous and subcutaneous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x. See also INDIUM and SULFATES.

ICK000 CAS: 10025-82-8 HR: 3
INDIUM TRICHLORIDE

mf: Cl₃In mw: 221.17

PROP: Yellowish, deliquescent crystals. D: 4.0, mp: 586°, sublimes @ 500°, bp: volatile @ 600°. Very sol in water. Keep tightly closed.

SYN: INDIUM CHLORIDE

TOXICITY DATA with REFERENCE:

dnd-mam:lym 40 µmol/L JCHODP 7,411,76

ipr-rat LD50:2370 µg/kg DRUGAY -,136,90

scu-rat LDLo:10 mg/kg JIHTAB 24,243,42

ivn-rat LD50:4460 µg/kg DRUGAY -,136,90

ipr-mus LD50:9500 µg/kg COREAF 256,1043,63

scu-mus LDLo:60 mg/kg EQSSDX 1,1,75

scu-rbt LDLo:2350 µg/kg EQSSDX 1,1,75

ivn-rbt LDLo:640 µg/kg EQSSDX 1,1,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by subcutaneous, intraperitoneal, and intravenous routes. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl₂. See also INDIUM.

ICL000 HR: 3
INDOCYANINE GREEN

mf: C₄₃H₄₇N₂O₆S₂•Na₂•I mw: 924.92

SYN: 2-(7-(1,1-DIMETHYL-3-(4-SULFOBUTYL)BENZ(e)INDOLIN-2-YLIDENE)-1,3,5-HEPTATRIENYL)-1,1-DIMETHYL-3-(4-SULFOBUTYL)1H-BENZ(e)INDOLIUM IODIDE, INNER SALT, SODIUM SALT

TOXICITY DATA with REFERENCE:

ivn-rat LD50:95 mg/kg OYYAA2 3,68,69

scu-mus LD50:1000 mg/kg OYYAA2 3,68,69

ivn-mus LD50:71 mg/kg OYYAA2 3,68,69

ivn-dog LD50:90 mg/kg OYYAA2 3,68,69

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of NO_x, Na₂O, SO_x, and I⁻.

ICL500

HR: 3

INDOLAPRIL HYDROCHLORIDE

mf: C₂₄H₃₄N₂O₅•ClH mw: 467.00

SYNS: (2S-(1(4*(4*)),2-α,3-α-β,7-α-β))-OCTAHYDRO-1-(2-((1-(ETHOXYCARBONYL)-3-PHENYLPROPYL)AMINO)-1-OXYPROPYL)-1H-INDOLE-2-CARBOXYLIC ACID

MONOHYDROCHLORIDE □ SCH 31846 HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2500 mg/kg TXAPA9 82,104,86

ivn-rat LD50:150 mg/kg TXAPA9 82,104,86

orl-mus LD50:1800 mg/kg TXAPA9 82,104,86

ivn-mus LD50:450 mg/kg TXAPA9 82,104,86

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and HCl.

ICM000 INDOLE

CAS: 120-72-9

HR: 3

mf: C₈H₇N mw: 117.16

PROP: Colorless to yellowish scales or crystals from water. Intense fecal odor. Mp: 52°, bp: 253°; volatile with steam. Sol in hot water, alc, ether, petroleum ether; insol in mineral oil, glycerin.

SYNS: 1-AZAINDENE □ 1-BENZAZOLE □ BENZOPYRROLE □ 2,3-BENZOPYRROLE □ FEMA No. 2593 □ INDOL (GERMAN) □ KETOILE

TOXICITY DATA with REFERENCE:

eye-rbt 750 µg/24H SEV 85JCAE -,820,86

orl-rat LD50:1000 mg/kg AIHAAP 23,95,62

orl-mus LDLo:1070 mg/kg AECTCV 14,111,85

ipr-mus LD50:117 mg/kg YKKZAJ 94,1620,74

scu-mus LD50:225 mg/kg KLWOAZ 35,504,57

skn-rbt LD50:790 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal and subcutaneous routes. Moderately toxic by ingestion and skin contact. A severe eye irritant. Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

ICN000

CAS: 87-51-4

HR: 3

1H-INDOLE-3-ACETIC ACID

mf: C₁₀H₉NO₂ mw: 175.20

PROP: Colorless leaves from benzene. Crystals from CHCl₃. Mp: 165–168°. Very sltly sol in cold water; sol in alc, ether, and acetic acid; insol in chloroform.

SYNS: HETEROAUXIN □ IAA □ β-INDOLEACETIC ACID □ β-INDOLE-3-ACETIC ACID □ 3-INDOLEACETIC ACID □ INDOLYLACETIC ACID □ α-INDOL-3-YL-ACETIC ACID □ β-INDOLYLACETIC ACID □ INDOLYL-3-ACETIC ACID □ 3-INDOLYLACETIC ACID □ RHIZOPIN □ ω-SKATOLE CARBOXYLIC ACID

TOXICITY DATA with REFERENCE:

mrc-asn 1150 µmol/L CRNGDP 4,1409,83

sln-asn 1150 µmol/L

CRNGDP 4,1409,83

dnd-sal:spr 250 µmol/L PYTCAS 11,3135,72

dnd-mam:lym 250 µmol/L PYTCAS 11,3135,72

ipr-mus LD50:150 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Questionable carcinogen with experimental tumorigenic and teratogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

ICO000

CAS: 1204-06-4

HR: 2

INDOLE-3-ACRYLIC ACID

mf: C₁₁H₉NO₂ mw: 187.21

SYNS: 3-INDOLYLACRYLIC ACID □ 3-(1-H-INDOL-3-YL)-2-PROPENOIC ACID

TOXICITY DATA with REFERENCE:

cyt-hmn:leu 100 mg/L TSITAQ 15,1505,73

cyt-mky-scu 15 mg/kg/2D-I TSITAQ 15,1505,73

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

ICP000

CAS: 133-32-4

HR: 3

1H-INDOLE-3-BUTANOIC ACID

mf: C₁₂H₁₃NO₂ mw: 203.26

PROP: White crystals from C₆H₆/pet ether or powder. Mp: 124°. Sol in acetone and ether; insol in water and chloroform.

SYNS: HORMEX ROOTING POWDER □ HORMODIN □ IBA □ INDOLE BUTYRIC □ INDOLE BUTYRIC ACID □ β-INDOLEBUTYRIC ACID □ γ-(INDOLE-3)-BUTYRIC ACID □ 3-INDOLEBUTYRIC ACID □ γ-(INDOL-3-YL)BUTYRIC ACID □ INDOLYL-3-BUTYRIC ACID □ 3-INDOLYL-γ-BUTYRIC ACID □ γ-(3-INDOLYL)BUTYRIC ACID □ 4-(INDOLYL)BUTYRIC ACID □ 4-(INDOL-3-YL)BUTYRIC ACID □ 4-(3-INDOLYL)BUTYRIC ACID □ JIFFY GROW □ ROOTONE

TOXICITY DATA with REFERENCE:

mrc-asn 1 mmol/L CRNGDP 4,1409,83

sln-asn 1 mmol/L CRNGDP 4,1409,83

orl-mus LD50:100 mg/kg 85ARAE 3,76,76/77

ipr-mus LDLo:100 mg/kg PCOC** -,614,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. Mutation data reported. Used for promoting and accelerating root formation of plant clippings. When heated to decomposition it emits toxic fumes of NO_x.

ICP100

CAS: 700-06-1

HR: 2

INDOLE-3-CARBINOL

mf: C₉H₉NO mw: 147.19

PROP: Platelets from C₆H₆. Mp: 89–91°.

SYNS: 3-HYDROXYMETHYLINDOLE □ INDOLE-3-METHANOL □ 1H-INDOLE-3-METHANOL (9CI) □ 3-INDOLYL-CARBINOL

TOXICITY DATA with REFERENCE:

scu-rat LDLo:500 mg/kg FCTXAV 18,159,80

SAFETY PROFILE: Moderately toxic by subcutaneous route. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.

ICR000 CAS: 91-56-5 HR: 3
INDOLE-2,3-DIONE

mf: C₈H₅NO₂ mw: 147.14

PROP: Orange crystals. Mp: 203.5° (decomp). Sltly sol in H₂O.

SYNS: o-AMINO BENZOYLFORMIC ANHYDRIDE □ 2,3-DIKETOINDOLINE □ 2,3-DIOXOINDOLINE □ 2,3-INDOLINEDIONE □ ISATIC ACID LACTAM □ ISATIN □ ISATINIC ACID ANHYDRIDE □ 2,3-KETOINDOLINE

TOXICITY DATA with REFERENCE:

orl-rat LDLo: 5 g/kg IJPPAZ 6,145,62

orl-mus LD50: 300 mg/kg NYKZAU 55,1514,59

ipr-mus LD50: 563 mg/kg PCJOAU 15,858,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ICS000 CAS: 526-55-6 HR: 3
INDOLE ETHANOL

mf: C₁₀H₁₁NO mw: 161.22

PROP: Prisms from C₆H₆/pet ether; plates from Et₂O/pet ether. Mp: 59°, bp: 174° @ 2 mm. Sol in most org solvs; sltly sol in H₂O and pet ether.

SYN: 3-INDOLYLETHANOL

TOXICITY DATA with REFERENCE:

ipr-mus LD50: 351 mg/kg JTEHD6 1,515,76

ivn-mus LD50: 180 mg/kg CSLNX* NX#00777

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes such as NO_x.

ICS100 CAS: 68527-79-7 HR: 1
INDOLENE

mf: C₁₈H₂₅NO mw: 271.44

SYNS: HYDROXYCITRONELLAL-INDOLE (SCHIFF BASE) □ HYDROXYCITRONELLYLIDENE-INDOLE □ 7-OCTEN-2-OL, 2,6-DIMETHYL-8-(1H-INDOL-1-YL)-

TOXICITY DATA with REFERENCE:

skn-gpg 500 mg/24H MLD FCTOD7 21,857,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits toxic fumes of NO_x.

ICS200 CAS: 830-96-6 HR: 3
1H-INDOLE-3-PROPIONIC ACID

mf: C₁₁H₁₁NO₂ mw: 189.23

SYNS: INDOLEPROPIONIC ACID □ β-INDOLEPROPIONIC ACID □ 3-(3-INDOLYL)PROPANOIC ACID

TOXICITY DATA with REFERENCE:

ipr-mus LDLo: 100 mg/kg PSEBAA 34,138,36

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ICS300 CAS: 496-15-1 HR: 3
INDOLINE

mf: C₈H₉N mw: 119.18

PROP: Yellow clear liquid.

SYNS: 1-AZAIN DAN □ 2,3-DIHYDROINDOLE □ 2,3-DIHYDRO-1H-INDOLE □ 1H-INDOLE, 2,3-DIHYDRO-

TOXICITY DATA with REFERENCE:

ipr-mus LD50: >238 mg/kg YKKZAJ 94,1620,74

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.

ICU100 HR: 3
INDOL-N-METHYLHARMINE HYDROCHLORIDE

mf: C₁₄H₁₄N₂O•ClH mw: 262.76

SYN: 1,9-DIMETHYL-7-METHOXY-9H-PYRIDO(3,4-b)INDOLE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-mus LDLo: 64 mg/kg QJPPAL 9,37,36

scu-gpg LDLo: 38 mg/kg QJPPAL 9,37,36

scu-frg LDLo: 113 mg/kg QJPPAL 9,37,36

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

ICU135 CAS: 2475-31-2 HR: 1
3H-INDOL-3-ONE, 1,2-DIHYDRO-5,7-DIBROMO-2-(5,7-DIBROMO-1,3-DIHYDRO-3- OXO-2H-INDOL-2-YLIDENE)-

mf: C₁₆H₆Br₄N₂O₂ mw: 577.88

SYNS: AHC VAT PRINTING BLUE 2BD □ AMANTHRENE NAVY BLUE 2B-MF □ AMANTHRENE NAVY BLUE NEW □ ARLANONE BLUE 2B □ BASF BRILLIANT INDIGO 4B □ BASF BRILLIANT INDIGO 4BC □ (Δ^{2,2'}-(BIINDOLINE)-3,3'-DIONE, 5,5',7,7'-TETRABROMO-(7Cl,8Cl) □ BRILLIANT INDIGO 4B □ BRILLIANT INDIGO 4BJD □ BRILLIANT INDIGO 4BR □ BRILLIANT INDIGO 4BV □ BROMINDIGO □ BROMINDIGO 2BD □ C.I. 73065 □ CIBA BLUE 2B □ CIBA BLUE 2BD □ CIBA BLUE 2BDG □ CIBA BLUE 2BN □ CIBA BLUE 2BPF □ CIBA BRILLIANT BLUE BS □ C.I. VAT BLUE 5 □ 1,2-DIHYDRO-5,7-DIBROMO-2-(5,7-DIBROMO-1,3-DIHYDRO-3- OXO-2H-INDOL-2-YLIDENE)-3H-INDOL-3-ONE □ DURINDONE BLUE 4B □ DURINDONE BLUE 4BC □ DURINDONE BLUE 4BCP □ DURINDONE PRINTING BLUE 4BC □ HOSTAVAT BLUE 2BD □ HOSTAVAT BLUE 4BR □ INDIGO 4B □ MITSUI TSUYA INDIGO 2B □ SOLINDENE BLUE 2BD □ SULFANTHRENE BLUE 2B □ TETRA BLUE 2B □ TETRABROMOINDIGO □ 5,5',7,7'-TETRABROMOINDIGO □ THIOVAT BRILLIANT INDIGO 4BR □ TINA BLUE 2B □ TSUYA INDIGO 2B □ VAT BLUE 5 □ VAT BLUE 4B

TOXICITY DATA with REFERENCE:

ipr-rat LD50: 5700 mg/kg GTPZAB 27(8),54,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and Br^- .

ICU145 CAS: 159212-35-8 HR: 2
2H-INDOL-2-ONE, 1,3-DIHYDRO-3-(((2-PHENYLETHYL)AMINO)METHYLENE)-, (E)-

mf: $\text{C}_{17}\text{H}_{16}\text{N}_2\text{O}$ mw: 264.35

SYN: 1,3-DIHYDRO-3-(((2-PHENYLETHYL)AMINO)METHYLENE)-2H-INDOL-2-ONE (E)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:>1 g/kg PCJOAU 28,236,94

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

ICW000 CAS: 771-51-7 HR: 3
3-INDOLYLACETONITRILE

mf: $\text{C}_{10}\text{H}_8\text{N}_2$ mw: 156.20

PROP: A solid. Mp: 36.5–37°, bp: 157° @ 0.2 mm.

SYNS: 3-(CYANOMETHYL)INDOLE □ 3-INDOLACETONITRILE □ INDOLEACETONITRILE □ INDOLE-3-ACETONITRILE □ 1H-INDOLE-3-ACETONITRILE □ INDOLYLACETONITRILE □ USAF CB-29

TOXICITY DATA with REFERENCE:

scu-rat LD50:255 mg/kg FCTXAV 18,159,80

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

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

SAFETY PROFILE: A poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic NO_x and CN^- . See also NITRILES.

ICW100 CAS: 73747-53-2 HR: 3
INDOL-1-YL ETHYL KETONE

mf: $\text{C}_{11}\text{H}_{11}\text{NO}$ mw: 173.23

SYNS: INDOLE, 1-PROPIONYL- □ N-PROPIONYLINDOLE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#01923

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 .

ICW150 CAS: 39032-87-6 HR: 2
3-(1-(1H-INDOL-3-YL)ETHYL)-1-(PHENYL-METHYL)-4-PIPERIDINONE

mf: $\text{C}_{22}\text{H}_{24}\text{N}_2\text{O}$ mw: 332.48

SYNS: N-BENZYL-3-(α-(3'-INDOLYL)ETHYL)-4-PIPERIDONE □ ICIG 777 □ 4-PIPERIDINONE, 3-(1-(1H-INDOL-3-YL)ETHYL)-1-(PHENYLMETHYL)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:>1500 mg/kg BIMDB3 21,101,74

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

ICW200 CAS: 34559-71-2 HR: 3
2-INDOLYL METHOXYMETHYL KETONE

mf: $\text{C}_{11}\text{H}_{12}\text{NO}_2$ mw: 190.24

SYNS: KETONE, 2-INDOLYL METHOXYMETHYL- □ 2-(METHOXYACETYL)INDOLE

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 .

ICY000 CAS: 35412-68-1 HR: 3
1-(INDOLYL-3)-2-METHYLAMINOETHANOL-1 RACEMATE

mf: $\text{C}_{11}\text{H}_{14}\text{N}_2\text{O}$ mw: 190.27

SYN: (±)-1-(3-INDOLYL)-2-METHYLAMINOETHANOL

TOXICITY DATA with REFERENCE:

orl-mus LD50:1700 mg/kg RPTOAN 35(3),109,72

ipr-mus LD50:144 mg/kg RPTOAN 35(3),109,72

scu-mus LD50:265 mg/kg RPTOAN 35(3),109,72

ivn-mus LD50:96 mg/kg RPTOAN 35(3),109,72

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

ICY100 CAS: 703-80-0 HR: 3
INDOL-3-YL METHYL KETONE

mf: $\text{C}_{10}\text{H}_9\text{NO}$ mw: 159.20

SYNS: ACETYL-3-INDOLE □ 3-ACETYLINDOLE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:300 mg/kg EJMCA5 9,453,74

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 .

ICZ100 CAS: 75410-87-6 HR: 3
1-(3'-INDOLYLMETHYL)-4-(2"-QUINOLYL)-PIPERAZINE DIMALEATE

mf: $\text{C}_{22}\text{H}_{22}\text{N}_4 \cdot 2\text{C}_4\text{H}_4\text{O}_4$ mw: 574.64

SYN: 2-(4-(3-INDOLYLMETHYL)-1-PIPERAZINYL)-QUINOLINE DIMALEATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:620 mg/kg FATOAO 43(5),530,80

ipr-mus LD50:152 mg/kg

FATOAO 43(5),530,80

ivn-mus LD50:93 mg/kg FATOAO 43(5),530,80

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

ICZ150 CAS: 30256-74-7 HR: 3
INDOLYL-3-MORPHOLINOMETHYL KETONE

mf: $\text{C}_{14}\text{H}_{16}\text{N}_2\text{O}_2$ mw: 244.32

SYN: KETONE, 3-INDOLYL MORPHOLINOMETHYL

TOXICITY DATA with REFERENCE:

ivn-mus LD50:126 mg/kg CSLNX* NX#12098

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 .

ICZ200 CAS: 30256-73-6 HR: 3**INDOLYL-3-PIPERIDINOMETHYL KETONE**mf: C₁₅H₁₈N₂O mw: 242.35**SYN:** KETONE, 3-INDOLYL PIPERIDINOMETHYL**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#12097

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.**IDA000 CAS: 53-86-1 HR: 3****INDOMETHACIN**mf: C₁₉H₁₆ClNO₄ mw: 357.81**PROP:** Crystals from tert-butyl alcohol. One form: mp: 155°; another form: mp: 162°. Sol in ethanol, ether, acetone, and castor oil; insol in water.**SYNS:** AMUNO □ ARTRACIN □ ARTRINOVO □ ARTRIVIA □ N-p-CHLOROBENZOYL-5-METHOXY-2-METHYLINDOLE-3-ACETIC ACID □ 1-(p-CHLOROBENZOYL)-5-METHOXY-2-METHYLINDOLE-3-ACETIC ACID □ 1-(p-CHLOROBENZOYL)-2-METHYL-5-METHOXYINDOLE-3-ACETIC ACID □ 1-(p-CHLOROBENZOYL)-2-METHYL-5-METHOXY-3-INDOLE-ACETIC ACID □ α-(1-(p-CHLOROBENZOYL)-2-METHYL-5-METHOXY-3-INDOLYL)ACETIC ACID □ 1-p-CLORO-BENZOIL-5-METOXI-2-METILINDOL-3-ACIDO ACETICO (SPANISH) □ CONFORTID □ DOLOVIN □ IDOMETHINE □ IMBRILON □ INACID □ INDOCID □ INDOMECOL □ INDOMED □ INDOMETHAZINE □ INDOMETICINA (SPANISH) □ INDOPTIC □ INDO-RECTOLMIN □ INDO-TABLINEN □ INFLAZON □ INTEBAN SP □ LAUSIT □ METACEN □ METARTRIL □ METHAZINE □ METINDOL □ MEZOLIN □ MIKAMETAN □ MOBILAN □ NCI-C56144 □ REUMACIDE □ SADOREUM □ TANNEX**TOXICITY DATA with REFERENCE:**dni-mus-skn 44 μmol/kg RCOCB8 24,533,79
orl-man LDLo:15 mg/kg/2W-I:BLD IJMDAI 17,433,81
orl-inf TDLo:400 μg/kg/2D-I:GIT JOPDAB 107,484,85
orl-wmn TDLo:2098 μg/kg/1D-I:KID SMJOAV 78,1390,85
orl-man TDLo:22,500 μg/kg/3W-I:SYS BMJOAE 3,155,67
orl-hmn TDLo:113 mg/kg/8W-I:GIT ARZNAD 33,636,83
ivn-inf TDLo:200 μg/kg:BLD JOPDAB 107,312,85
unr-man TDLo:499 mg/kg/87W-I ARHEAW 20,917,77
rec-man TDLo:2586 mg/kg/3.5Y-I:EYE AJOPAA 73,846,72
orl-rat LD50:2420 μg/kg ARZNAD 25,1526,75
ipr-rat LD50:13 mg/kg TXAPA9 38,127,76
scu-rat LD50:12 mg/kg OYYAA2 2,70,68
ivn-rat LD50:21 mg/kg ARZNAD 31,655,81
orl-mus LD50:13 mg/kg ARZNAD 30,1398,80
orl-mus LD50:13 mg/kg ARZNAD 30,1398,80
ipr-mus LD50:15 mg/kg EJMCA5 24,91,89
scu-mus LD50:18,300 μg/kg ARZNAD 30,1398,80
ivn-mus LD50:30 mg/kg ARZNAD 19,1198,69
orl-dog LD50:160 mg/kg OYYAA2 2,70,68
ivn-cat LDLo:20,200 μg/kg ARZNAD 33,726,83**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes.Human systemic effects by ingestion: aplastic anemia, changes in kidney tubules, decreased urine volume, diarrhea, fibrous hepatitis, hemorrhage, hypermotility, liver changes, necrotic stomach changes, retinal changes. Human teratogenic effects by ingestion and intravenous routes: developmental abnormalities of the respiratory system and urogenital system, homeostasis, other neonatal effects. Experimental teratogenic and reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic Cl⁻ and NO_x.**IDA100 CAS: 74252-25-8 HR: 3****INDOMETHACIN SODIUM TRIHYDRATE**mf: C₁₉H₁₅ClNO₄•3H₂O•Na mw: 401.85**SYNS:** INDOCIN I.V. □ 1H-INDOLE-3-ACETIC ACID, 1-(4-CHLOROBENZOYL)-5-METHOXY-2-METHYL-, SODIUM SALT, TRIHYDRATE □ SODIUM 1-(p-CHLOROBENZOYL)-5-METHOXY-2-METHYLINDOLE-3-ACETATE TRIHYDRATE**TOXICITY DATA with REFERENCE:**orl-rat LD50:21 mg/kg YAKUD5 37,952,1995
scu-rat LD50:21 mg/kg YAKUD5 37,952,1995
ivn-rat LD50:23 mg/kg YAKUD5 37,952,1995
orl-mus LD50:21 mg/kg YAKUD5 37,952,1995
scu-mus LD50:21 mg/kg YAKUD5 37,952,1995
ivn-mus LD50:23 mg/kg YAKUD5 37,952,1995**SAFETY PROFILE:** A poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**IDA400 CAS: 31842-01-0 HR: 3****INDOPROFEN**mf: C₁₇H₁₅NO₃ mw: 281.33**PROP:** Colorless scales from ethanol. Mp: 213–214°.**SYNS:** BOR-IND □ 2-(4-(1-CARBOXYETHYL)PHENYL)-1-ISOINDOLINONE □ 4-(1,3-DIHYDRO-1-OXO-2H-ISOINDOL-2-YL)-α-METHYLBENZENEACETIC ACID □ FLOSIN □ FLOSINT □ ISINDONE □ K 4277 □ p-(1-OXO-2-ISOINDOLINYL)-HYDRATROPIC ACID □ α-(4-(1-OXO-2-ISO-INDOLINYL)-PHENYL)-PROPIONIC ACID □ 2-(p-(1-OXO-2-ISOINDOLINYL)-PHENYL)-PROPIONIC ACID □ 1-OXO-2-(p-(α-METHYL)-CARBOXYMETHYL)PHENYL)ISOINDOLINE □ PRAXIS □ REUMOFENE**TOXICITY DATA with REFERENCE:**orl-rat LD50:84 mg/kg ARZNAD 23,1100,73
orl-mus LD50:700 mg/kg ARZNAD 23,1100,73**SAFETY PROFILE:** Poison by ingestion. An anti-inflammatory agent and analgesic. When heated to decomposition it emits toxic fumes of NO_x.**IDA500 CAS: 3568-23-8 HR: 3****INDORM**mf: C₂₀H₂₄N₂OS•C₄H₄O₄ mw: 456.60**PROP:** A solid. Mp: 160–161°.**SYNS:** 1678 CB □ 10-DIMETHYLAMINOISOPROPYL-2-PROPIONYLPHENOTHIAZINE MALEATE □ 1-(10-(2-DIMETHYLAMINOPROPYL)-PHENOTHIAZIN-2-YL)-1-PROPANONE MALEATE □ 10-(2-DIMETHYLAMINOPROPYL)-2-PROPIONYLPHENOTHIAZINE MALEATE □ DOREVANE □ PROPAVAN □ PROPIOMAZINE MALEATE □ 3-PROPIONYL-10-DIMETHYLAMINO-ISOPROPYLPHENOTHIAZINE MALEATE □ PROPIONYLPROMETHAZINE MALEATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:500 mg/kg AIPTAK 123,78,59
 scu-mus LD50:288 mg/kg AIPTAK 119,367,59
 ivn-mus LD50:67 mg/kg AIPTAK 123,78,59

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

IDA525 CAS: 16377-01-8 HR: D
INDOSPICINE MONOHYDROCHLORIDE MONOHYDRATE

mf: C₇H₁₅N₃O₂•ClH•H₂O mw: 227.73

SYNS: NORLEUCINE, 6-AMIDINO-, MONOHYDROCHLORIDE, 1- □ 1- α -AMIDO-EPSILON-AMIDINO HEXANOIC ACID MONOHYDROCHLORIDE MONOHYDRATE □ HEPTANOIC ACID, 2,7-DIAMINO-7-IMINO-, MONOHYDROCHLORIDE, (S)- □ INDOSPICINE HYDROCHLORIDE □ NORLEUCINE, 6-AMIDINO-, MONOHYDROCHLORIDE, HYDRATE

TOXICITY DATA with REFERENCE:

orl-rat TDLo:2 g/kg (female 13D post):REP BJEP45 51,34,1970

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.

IDA550 CAS: 173584-44-6 HR: 3
INDOXACARB

mf: C₂₂H₁₇ClF₃N₃O₇ mw: 527.84

SYN: INDENO(1,2-E)(1,3,4)OXADIAZINE-4A(3H)-CARBOXYLIC ACID, 7-CHLORO-2,5-DIHYDRO-2-((METHOXYCARBONYL)(4-(TRIFLUOROMETHOXY)PHENYL)AMINO)CARBONYL-, METHYL ESTER, (4AS)-

TOXICITY DATA with REFERENCE:

skn-rat LD50:5000 mg/kg FEREAC 67,3703,2002

ihl-rat LC50:5.5 g/m³ FEREAC 67,3703,2002

orl-rat LD50:268 mg/kg FEREAC 67,3703,2002

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

IDA600 CAS: 608-08-2 HR: 2
INDOXYLACETATE

mf: C₁₀H₉NO₂ mw: 175.20

PROP: Mp: 128–130°

SYNS: ACETIC ACID, 3-INDOLYL ESTER □ 3-ACETOXYIN-DOLE □ INDOLE, 3-ACETATO- □ INDOL-3-OL, ACETATE (ester) (8CI) □ 1H-INDOL-3-OL, ACETATE (ester) (9CI) □ INDOXYL-O-ACETATE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:600 mg/kg NYKZAU 55,1514,59

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.

IDB000 CAS: 37394-33-5 HR: 2
INGENANE HEXADECANOATE

mf: C₃₆H₅₈O₆ mw: 586.94

SYN: 2,5,5a,6,9,10,10a,1a-OCTAHYDRO-4-HYDROXYMETHYL-1,1,7,9-TETRAMETHYL-5,5a-6-TRIHYDROXY-1H-2,8a-METHANOCYCLOPENTA(a)CYCLOPROPA(e)CYCLODECEN-11-ONE-5-HEXADECANOATE

TOXICITY DATA with REFERENCE:

skin-mus 82 ng MLD 85CVA2 5,213,70

skin-mus TDLo:56 mg/kg/12W-I:ETA 85CVA2 5,213,70

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

IDB100 HR: 2
INHG-SODIUM

mf: C₁₂H₁₄N₃O₇•Na•2H₂O mw: 371.32

SYNS: N-ISONICOTINOYL-N'-GLUCURONID-HYDRAZIN-NATRIUMSALZ DIHYDRAT (GERMAN) □ 2-(2-ISONICOTINOLYLHYDRAZINO)-d-GLUCOPYRANURONIC ACID SODIUM SALT DIHYDRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:7500 mg/kg ARZNAD 26,409,76

ivn-rat LD50:3150 mg/kg ARZNAD 26,409,76

orl-mus LD50:483 mg/kg ARZNAD 26,409,76

ivn-mus LD50:2150 mg/kg ARZNAD 26,409,76

orl-gpg LD50:665 mg/kg ARZNAD 26,409,76

SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and Na₂O.

IDB200 CAS: 116788-55-7 HR: 1
INKREDOL-1

TOXICITY DATA with REFERENCE:

orl-rat LD50:12,000 mg/kg GISAAA 5(5),87,86

orl-mus LD50:11,800 mg/kg GISAAA 5(5),87,86

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

IDD000 CAS: 15130-85-5 HR: D
INOKOSTERONE

mf: C₂₇H₄₄O₇ mw: 480.71

PROP: Crystals from MeOH/EtOAc. Mp: 255° (decomp).

SYN: (22R,25RS)-2- β ,3- β ,14,20,22,26-HEXAHYDROXY-5- β -CHOLEST-7-EN-6-ONE

TOXICITY DATA with REFERENCE:

cyt-dmg-par 300 μ mol/L NNBYA7 230,222,71

ipr-mus LD50:7800 mg/kg NYKZAU 66,551,70

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

IDD100 CAS: 18559-59-6 HR: 3
INOLIN

mf: C₁₉H₂₃NO₅•ClH mw: 381.89

PROP: dl-Form (hydrochloride): Pale yellow crystals from methanol + ether. Decomp 224.5–226°. l-Form (hydrochloride): Pale yellow crystals, freely sol in water; sol in alc.

SYNS: TRIMETHOQUINOL □ (-)-TRIMETHOQUINOL □ 1-1-(3,4,5-TRIMETHOXYBENZYL)-6,7-DIHYDROXY-1,2,3,4-TETRAHYDROISOQUINOLINE HYDROCHLORIDE □ TRIMETOQUINOL □ 1-TRIMETOQUINOL □ TRIMETOQUINOL HYDROCHLORIDE □ TRIQUINOL

TOXICITY DATA with REFERENCE:

orl-rat TDLo:2 g/kg (7-14D preg):TER OYYAA2
2,383,68

orl-rat LD50:2 g/kg YAKUD5 24,2331,82

ipr-rat LD50:298 mg/kg EJPHAZ 5,303,68

scu-rat LD50:1100 mg/kg EJPHAZ 5,303,68

ivn-rat LD50:164 mg/kg EJPHAZ 5,303,68

orl-mus LD50:2250 mg/kg NIIRDN 6,529,82

ipr-mus LD50:370 mg/kg EJPHAZ 5,303,68

scu-mus LD50:2000 mg/kg EJPHAZ 5,303,68

ivn-mus LD50:120 mg/kg NIIRDN 6,529,82

ivn-dog LD50:160 mg/kg EJPHAZ 5,303,68

ipr-gpg LD50:505 mg/kg EJPHAZ 5,303,68

scu-gpg LD50:1470 mg/kg EJPHAZ 5,303,68

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and subcutaneous routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

**IDE000
INOSINE****CAS: 58-63-9****HR: 2**

mf: C₁₀H₁₂N₄O₅ mw: 268.26

PROP: A solid. Mp: 215° (decomp).

SYNS: ATOREL □ HXR □ HYPOXANTHINE NUCLEOSIDE □ HYPOXANTHINE RIBONUCLEOSIDE □ HYPOXANTHINE RIBOSIDE □ HYPOXANTHINE-*d*-RIBOSIDE □ HYPOX-ANTHOSINE □ INO □ INOSIE □ β-INOSINE □ OXIAMIN □ PANTHOLIC-L □ RIBONOSINE □ SELFER □ TROPICARDYL

TOXICITY DATA with REFERENCE:

dnd-mam:lym 60 mmol/L PNASA6 48,686,62

ipr-rat LD50:2900 mg/kg NIIRDN 6,77,82

ipr-mus LD50:3175 mg/kg PCJOAU 20,160,86

scu-mus LD50:5000 mg/kg NIIRDN 6,77,82

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.

**IDE050
INOSINE DIALDEHYDE****CAS: 23590-99-0****HR: 2**

mf: C₁₀H₁₀N₄O₅ mw: 266.24

SYNS: DIGLYCOALDEHYDE □ (R,R)-α-(1-FORMYL-2-HYDROXYETHOXY)-1,6-DIHYDRO-6-OXO-9H-PURINE-9-ACETALDEHYDE □ INOX □ NSC 118994 □ 9H-PURINE-9-ACETALDEHYDE, α-(1-FORMYL-2-HYDROXYETHOXY)-1,6-DIHYDRO-6-OXO-, (R,R)- □ 9H-PURINE-9-ACETALDEHYDE, α-(1-FORMYL-2-HYDROXYETHOXY)-1,6-DIHYDRO-6-OXO-, (R,(R*,R*))-

TOXICITY DATA with REFERENCE:

dni-rat-oth 830 μmol/L CNREA8 37,2188,1977

uns-rat-oth 830 μmol/L CNREA8 37,2188,1977

dni-mus-lym 1 mmol/L BCPCA6 34,1717,1985

uns-mus-lym 1 mmol/L BCPCA6 34,1717,1985

ivn-mus LD50:567 mg/kg NTIS** PB82-166125

SAFETY PROFILE: Moderately toxic by intravenous route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

**IDE100
(INOSINE)PENTAAMINERUTHENIUM(3+)****CAS: 61483-80-5****HR: D****TRICHLORIDE**

SYN: RUTHENIUM(3+), (INOSINE)PENTAAMINE-, 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 Cl₂.

IDE200**CAS: 131-99-7****HR: 2****INOSINIC ACID**

mf: C₁₀H₁₃N₄O₈P mw: 348.22

PROP: Syrup, solidifies to a glass when dried over H₂SO₄; agreeable sour taste. Freely sol in water, formic acid; very sparingly sol in alc, ether.

SYNS: IMP □ 5'-IMP □ INOSINE-5'-MONOPHOSPHATE □ INOSINE-5'-MONOPHOSPHORIC ACID □ INOSINE-5'-PHOSPHATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:16 g/kg ARTODN 47,77,81

ipr-rat LD50:4850 mg/kg ARTODN 47,77,81

scu-rat LD50:3900 mg/kg ARTODN 47,77,81

ivn-rat LD50:2730 mg/kg ARTODN 47,77,81

orl-mus LD50:12 g/kg ARTODN 47,77,81

ipr-mus LD50:5400 mg/kg ARTODN 47,77,81

scu-mus LD50:5480 mg/kg ARTODN 47,77,81

ivn-mus LD50:3300 mg/kg ARTODN 47,77,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of PO_x and NO_x.

IDE300**CAS: 87-89-8****HR: D****INOSITOL**

mf: C₆H₁₂O₆ mw: 180.16

PROP: White crystals or crystalline powder; odorless with a sweet taste. Mp: 225°. Sol in water; insol in ether, chloroform.

SYNS: cis-1,2,3,5-trans-4,6-CYCLOHEXANEHEXOL □ i-INOSITOL □ meso-INOSITOL

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

IDE400**CAS: 70701-62-1****HR: 2****INOSITOL HEXASULFATE SODIUM SALT**

mf: C₆H₆O₁₈S₆•6Na mw: 696.42

SYN: MYO-INOSITOL, HEXAKIS(HYDROGEN SULFATE), HEXASODIUM SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg USXXAM #4207339

scu-rat LD50:>2500 mg/kg USXXAM #4207339

orl-mus LD50:>5 g/kg USXXAM #4207339

scu-mus LD50:>2500 mg/kg USXXAM #4207339

SAFETY PROFILE: Moderately toxic by subcutaneous route. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of SO_x.

IDF000**CAS: 909-39-7****HR: 3****INSIDON DIHYDROCHLORIDE**

mf: C₂₃H₂₉N₃O•2ClH mw: 436.47

PROP: Long, rectangular plates from water. Mp: 228°.

SYNS: 4-(3-(5H-DIBENZ(b,f)AZEPIN-5-YL)PROPYL)-1-PIPERAZINEETHANOL DIHYDROCHLORIDE □ 5-(γ-(β-HYDROXYETHYLPIPERAZINO)PROPYL)-5H-DIBENZO(b,f)-AZEPINE DIHYDROCHLORIDE □ OPIPRAMOL DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:36 mg/kg/25D-C:CNS AJPASO 119,465,62

orl-rat LD50:1110 mg/kg RSPSA2 52,204,63

ipr-rat LD50:95 mg/kg AIPTAK 148,560,64

scu-rat LD50:497 mg/kg AIPTAK 148,560,64

ivn-rat LD50:32 mg/kg AIPTAK 148,560,64

orl-mus LD50:443 mg/kg RSPSA2 52,204,63

ipr-mus LD50:120 mg/kg AIPTAK 148,560,64

scu-mus LD50:315 mg/kg AIPTAK 148,560,64

ivn-mus LD50:45 mg/kg AIPTAK 148,560,64

ivn-rbt LD50:11 mg/kg AIPTAK 148,560,64

SAFETY PROFILE: A poison by intraperitoneal, intravenous, and subcutaneous routes. Moderately toxic by ingestion. Human systemic effects by ingestion: somnolence. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

IDF300 CAS: 9004-10-8 HR: 3 INSULIN

PROP: Crystals, hexagonal system, usually obtained as flat rhombohedra and containing 0.4% Zn. Mp: 233°. Readily sol in dil acids and alkalies.

SYNS: ACTRAPID □ DECURVON □ ENDOPANCRINE □ ILETIN □ INSULAR □ INSULIN INJECTION □ INSULYL □ ISZILIN □ OPTISULIN LONG

TOXICITY DATA with REFERENCE:

dns-hmn:oth 10 mg/L CNREA8 46,2545,86

dns-mus:emb 50 µg/L ECREAL 158,311,85

ivn-cld TDLo:313 µg/kg PEDIAU 81,526,88

ivn-cld TDLo:313 µg/kg:BAH PEDIAU 81,526,88

ivn-mus LD50:6300 units/kg PSEBAA 118,756,65

SAFETY PROFILE: Poison by intravenous route. An experimental teratogen. Other experimental reproductive effects. Human systemic effects: distorted perceptions, hallucinations, somnolence. Human mutation data reported. A hormone which regulates sugar metabolism. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

IDF325 CAS: 9004-17-5 HR: 3 INSULIN PROTAMINE ZINC

PROP: White suspension of rod-shaped crystals.

SYNS: DEPO-INSULIN □ DEPOSULIN □ HUMULIN I □ INSULATARD □ INSULIN RETARD RI □ INSULIN ZINC PROTAMINATE □ INSULIN ZINC PROTAMINE □ INSULYL-RETARD □ ISOPHANE INSULIN □ ISOPHANE INSULIN INJECTION □ ISOPHANE INSULIN SUSPENSION □ I.P.Z. □ NPH 50 INSULIN □ NPH INSULIN □ NPH ILETIN □ PROTAMINE ZINC INSULIN □ PROTAMINE ZINC INSULIN INJECTION □ PROTAMINE ZINC INSULIN SUSPENSION □ ZINC PROTAMINE INSULIN

TOXICITY DATA with REFERENCE:

ipr-rat LD50:830 µg/kg TXAPA9 4,631,62

scu-mus LD50:195 iu/kg AIPTAK 153,379,65

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

SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and SO_x. A hypoglycemic agent. See also various insulin compounds.

IDG000 CAS: 480-79-5 HR: 3 INTEGERRIMINE

mf: C₁₈H₂₅NO₅ mw: 335.44

PROP: An alkaloid isolated from *S. Senecio integerrimus* (RETOAE 5,55,49). Mp: 172°.

SYNS:

□ 3-ETHYLIDENE-3,4,5,6,9,11,13,14,14A,14B-DECAHYDRO-6-HYDROXY-5,6-DIMETHYL(1,6)DIOXACYCLODODECINO(2,3,4-GH)-PYRROLIZINE-2,7-DIONE □ (15E)-12-HYDROXY-SENECIONAN-11,16-DIONE (9CI) □ SQUALIDIN □ SQUALIDINE

TOXICITY DATA with REFERENCE:

mno-asn 5 mmol/L BBGED3 9,393,86

cyt-mus-ipr 18,750 µg/kg MUREAV 241,297,90

ipr-rat LDLo:250 mg/kg NCNSA6 5,47,53

ipr-mus LD50:75 mg/kg IJEBAA 9,177,71

ivn-mus LD50:78 mg/kg JPETAB 75,69,42

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

IDG100 CAS: 94218-75-4 HR: 1 INTERLEUKIN 2 (HUMAN CLONE PTG853 PROTEIN MOIETY REDUCED)

mf: C₆₉₈H₁₁₂₇N₁₇₉O₂₀₄S₈ mw: 4539.52

SYN: TECELEUKIN

TOXICITY DATA with REFERENCE:

ivn-rat LD :>5680 µg/kg YKYUA6 43,867,1992

ivn-mus LD :>5680 µg/kg YKYUA6 43,867,1992

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

IDH200 CAS: 8013-17-0 HR: D INVERT SUGAR

PROP: Hygroscopic liquid; sweet taste. Very sol in water, glycerin, glycols; sltly sol in acetone, alc.

SYN: INVERT SUGAR SYRUP

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

IDJ500 CAS: 54605-45-7 HR: 3 IOCARMATE MEGLUMINE

mf: C₂₄H₂₀I₆N₄O₈•2C₇H₁₇NO₅ mw: 1644.38

SYNS: 5,5'-(ADIPOLYDIMINO)BIS(2,4,6-TRIHODO-N-METHYLISOPHTHALAMIC ACID) □ BIS-CONRAY □ DB 2041 □ DIMEGLUMINE IOCARMATE □ DIMERAY □ DIMER X □ DIRAX □ IOCARMIC ACID DI-N-METHYLGLUCAMINE SALT □ LM 280 □ MEGLUMINE IOCARMATE □ MYELOTRAST DI-N-METHYLGLUCAMINE SALT

TOXICITY DATA with REFERENCE:

par-wmn TDLo:140 mg/kg:CNS,BPR,MSK BMJOAE 1,692,78

ivn-rat LD50:13,300 mg/kg KSRNAM 8,595,74

ice-rat LD50:610 mg/kg KSRNAM 8,595,74

ivn-mus LD50:10,900 mg/kg KSRNAM 8,595,74

ice-mus LD50:697 mg/kg KSRNAM 8,595,74

unr-rbt LD50:70 mg/kg FRPSAX 32,835,77

SAFETY PROFILE: Poison by an unspecified route. Moderately toxic by intracerebral route. Human systemic effects by parenteral route: muscle spasms, blood pressure depression and musculo-skeletal changes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Γ^- and NO_x .

IDJ550 CAS: 16034-77-8 HR: 2
IOCETAMIC ACID

mf: $\text{C}_{12}\text{H}_{13}\text{I}_3\text{N}_2\text{O}_3$ mw: 613.97

SYNS: N-ACETYL-N-(3-AMINO-2,4,6-TRIIODOPHENYL)- β -AMINOISOBUTYRIC ACID \square 3-(ACETYL-(3-AMINO-2,4,6-TRIIODOPHENYL)AMINO)-2-METHYLPROPANOIC ACID \square N-ACETYL-N-(3-AMINO-2,4,6-TRIIODOPHENYL)-2-METHYL- β -ALANINE \square N-ACETYL-N-(2,4,6-TRIIODO-3-AMINOPHENYL)- β -AMINOISOBUTYRIC ACID \square CHOLEBRINE \square CHOLIMIL \square DRC 1201 \square MP 620 \square PROPIONIC ACID, 3-(ACETYL-(3-AMINO-2,4,6-TRIIODOPHENYL)AMINO)-2-METHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:7100 mg/kg TXAPA9 14,232,1969

ipr-rat LD50:2250 mg/kg YAKUD5 13,1147,1971

scu-rat LD50:3 g/kg YAKUD5 13,1147,1971

ivn-rat LD50:700 mg/kg TXAPA9 14,232,1969

orl-mus LD50:7900 mg/kg YAKUD5 13,1147,1971

ipr-mus LD50:2500 mg/kg YAKUD5 13,1147,1971

scu-mus LD50:6 g/kg YAKUD5 13,1147,1971

ivn-mus LD50:410 mg/kg JMCMA9 13,997,1970

SAFETY PROFILE: Moderately toxic by intraperitoneal, subcutaneous, and intravenous routes. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Γ^- .

IDJ600 CAS: 18656-21-8 HR: 1
IODAMIDE MEGLUMINE

mf: $\text{C}_{12}\text{H}_{11}\text{I}_3\text{N}_2\text{O}_4 \cdot \text{C}_7\text{H}_{17}\text{NO}_5$ mw: 823.20

SYNS: CONRAXIN H \square IODAMIDE 380 \square IODAMIDE METHYLGLUCAMINE \square MEGLUMINE IODAMIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:17,900 mg/kg NIIRDN 6,871,82

ivn-rat LD50:11,400 mg/kg NIIRDN 6,871,82

ivn-mus LD50:9000 mg/kg NIIRDN 6,871,82

ivn-rbt LD50:13,200 mg/kg NIIRDN 6,871,82

ipr-gpg LD50:15,000 mg/kg NIIRDN 6,871,82

SAFETY PROFILE: Mildly toxic. When heated to decomposition it emits toxic fumes of Γ^- and NO_x .

IDJ700 HR: 1
IODATES

SAFETY PROFILE: Salts of iodic acid. Variable toxicity. Generally eye, skin, and mucous membrane irritants. Powerful oxidizers. Similar to bromates and chlorates. Contamination of iodates with organic matter may produce explosive mixtures. Iodates are used in bread as an improving agent for the dough. When heated to decomposition they emit toxic fumes of Γ^- . See also specific compounds.

IDK000 CAS: 7782-68-5 HR: 3

IODIC ACIDmf: HIO_3 mw: 175.91

PROP: Orthorhombic colorless crystals which darken upon exposure to light. Partially dehydrates giving I_2O_5 . D: 4.629 @ $0^\circ/4^\circ$, mp: 110° (decomp). Insol in Et_2O , CHCl_3 , EtOH ; very sol in H_2O , HNO_3 , and EtOH (aq).

SAFETY PROFILE: A powerful oxidizer. Probably a severe eye, skin and mucous membrane irritant. Dangerous reactions with nonmetals, e.g., boron (vigorous reaction); charcoal; phosphorus; sulfur (ignition on heating). Incompatible with nonmetals; phosphonium iodide. When heated to decomposition it emits toxic fumes of Γ^- . See also IODINE.

IDL000 HR: 2
IODIDES

SAFETY PROFILE: Similar in toxicity to bromides. Prolonged absorption of iodides may produce "iodism," which is manifested by skin rash, running nose, headache, and irritation of mucous membranes. In severe cases, the skin may show pimples, boils, redness, black-and-blue spots, hives, and blisters. Weakness, anemia, loss of weight, and general depression may occur. Generally very soluble in water and easily absorbed into the body. The iodides of copper(I), lead(II), silver(I), and mercury(II) are poorly soluble in water. When heated to decomposition they can emit highly toxic fumes of Γ^- and iodine compounds. See also IODINE.

IDL100 HR: D
IODINATED CASEIN

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

IDM000 CAS: 7553-56-2 HR: 3
IODINE

mf: I_2 mw: 253.80

PROP: Rhombic, violet-black crystals with metallic luster; flakes with characteristic odor, sharp acrid taste. Sublimes slowly at room temp. Mp: 113.5° , bp: 185.24° , d: 4.93 (solid @ 25°), vap press: 1 mm @ 38.7° , vap press: (solid): 0.030 mm @ 0° . Sltly sol in H_2O . Sol in many org solvs. IDLH 2 ppm.

SYNS: IODE (FRENCH) \square IODINE CRYSTALS \square IODINE SUBLIMED \square IODIO (ITALIAN) \square JOD (GERMAN, POLISH) \square JOOD (DUTCH)

TOXICITY DATA with REFERENCE:

orl-hmn LDLo:28 mg/kg;GIT 34ZIA9 -,330,69

orl-wmn TDLo:26 mg/kg/1Y-I:SYS PGMJAO 62,661,86

unr-man LDLo:29 mg/kg 85DCAI 2,73,70

orl-rat LD50:14 g/kg DRFUD4 4,876,79

ihl-rat LCLo:800 mg/m³/1H 85GMAT -,76,82

orl-mus LD50:22 g/kg DRFUD4 4,876,79

orl-dog LDLo:800 mg/kg HBAMAK 4,1289,35

ivn-dog LDLo:40 mg/kg HBTXAC 5,76,59

orl-rbt LD50:10 g/kg DRFUD4 4,876,79

scu-rbt LDLo:175 mg/kg HBTXAC 5,76,59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 0.1 ppm

ACGIH TLV: CL 0.1 ppm

DFG MAK: 0.1 ppm (1.1 mg/m³)

SAFETY PROFILE: A human poison by ingestion and possibly other routes. An experimental poison by intravenous and subcutaneous routes. Moderately toxic by inhalation. Human systemic effects by ingestion: diarrhea, evidence of thyroid hyperfunction. Experimental reproductive effects. Mutation data reported. The effect of iodine vapor upon the body is similar to that of chlorine and bromine, but it is more irritating to the lungs. Serious exposures are seldom encountered in industry due to the low volatility of the solid at ordinary room temperatures. Signs and symptoms are irritation and burning of the eyes, lachrymation, coughing, and irritation of the nose and throat. Ingestion of large quantities causes abdominal pain, nausea, vomiting, diarrhea. In severe cases, purging, excessive thirst, and circulatory failure may develop. Doses of 2–3 g have been fatal. Chronic ingestion of large amounts (200 mg/day) results in thyroid disease.

Explosive reaction with acetylene, antimony powder, hafnium powder + heat, tetraamine copper(II) sulfate + ethanol, trioxxygen difluoride (possibly ignition), polyacetylene (at 113°C). Forms sensitive, explosive mixtures with potassium (impact- and heat-sensitive), sodium (shock-sensitive), oxygen difluoride (heat-sensitive). Reacts to form explosive products with ammonia, ammonia + lithium 1-heptynide, ammonia + potassium, butadiene + ethanol + mercuric oxide, silver azide.

Ignition on contact with bromine pentafluoride (or violent reaction), chlorine trifluoride, fluorine, metals (powdered) + water, aluminum-titanium alloys + heat, metal acetylides (e.g., cesium acetylide, copper(I) acetylide, lithium acetylide, rubidium acetylide), nonmetals (e.g., boron ignites at 700°C), phosphorus, sodium phosphinate. Violent reaction with acetaldehyde, aluminum + diethyl ether, dipropylmercury, titanium (above 113°C). Incandescent reaction with cesium oxide (above 150°C), bromine trifluoride, metal acetylides or carbides [e.g., barium acetylide (above 122°C), calcium acetylide (above 305°C), strontium acetylide (above 182°C), zirconium acetylide (above 400°C)].

Incompatible with ethanol, ethanol + butadiene, ethanol + phosphorus, ethanol + methanol + HgO, formamide + pyridine + sulfur trioxide, formamide, halogens or interhalogens (e.g., chlorine), mercuric oxide, metals (e.g., aluminum, lithium, magnesium), metal carbides (e.g., lithium carbide, zirconium carbide), oxygen, pyridine, sodium hydride, sulfides.

When heated to decomposition it emits toxic fumes of I⁻ and various iodine compounds. Reacts vigorously with reducing materials. See also IODIDES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-177 or NIOSH: Iodine, 6005.

IDN000 CAS: 14696-82-3 HR: 3
IODINE AZIDE

mf: IN₃ mw: 168.93

PROP: Bright yellow crystals; stable in the dark for several days. Sol in Et₂O, CH₂Cl₂, and MeCN.

SYNS: IODINE AZIDE (dry) (DOT) □ IODINE(I) AZIDE □ IODOAZIDE □ NITROGEN IODIDE

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: A very shock- and friction-sensitive explosive. Incompatible with sulfur-containing alkenes. When heated to decomposition it emits very toxic fumes of I⁻ and NO_x. See also IODINE.

IDN200 CAS: 7789-33-5 HR: 3
IODINE BROMIDE

mf: BrI mw: 206.809

PROP: Dark red solid. D: 4.414 @ 10°/4°, mp: 41°, bp: 116° (decomp).

SAFETY PROFILE: Explosive or violent reaction with sodium (by impact), potassium (when heated), tin phosphorus (when heated). When heated to decomposition it emits toxic fumes of Br⁻ and I⁻. See also BROMIDES and IODIDES.

IDP000 CAS: 25402-50-0 HR: 3
IODINE DIOXYGEN TRIFLUORIDE

mf: F₃IO₂ mw: 215.9

PROP: Yellow volatile crystals or solid. Sol in BrF₅.

SYN: IODINE DIOXIDE TRIFLUORIDE

SAFETY PROFILE: Ignites on contact with flammable organic materials. When heated to decomposition it emits very toxic fumes of F⁻ and I⁻. See also IODINE and FLUORIDES.

IDQ000 CAS: 16921-96-3 HR: 3
IODINE HEPTAFLUORIDE

mf: F₇I mw: 259.89

PROP: Colorless gas, crystals when solid. Moldy acrid odor; attacks glass and quartz. Strong fluorinating agent. Vapor hydrolyzes without violence. D: (liquid): 2.8 @ 6°, sublimates @ 4.77°, mp: 4.5°, bp: 5.5°, sublimates @ 4°.

SAFETY PROFILE: Mixtures with hydrogen explode on exposure to sparks or heat. Ignition on contact with carbon; combustible gases (e.g., methane or carbon monoxide); other organic compounds (e.g., benzene; light petroleum; ethanol; ether; cellulose; grease; oils). Reacts vigorously with metals (e.g., barium; potassium; sodium; aluminum + heat; magnesium + heat; tin + heat); and organic materials (e.g., acetic acid; acetone; ethyl acetate). Incompatible with ammonium bromide; ammonium chloride; ammonium iodide; sulfuric acid; water. When heated to decomposition it emits very toxic fumes of F⁻ and I⁻. See also IODINE and FLUORIDES.

IDR000 CAS: 3607-48-5 HR: 3
IODINE ISOCYANATE

mf: CNI mw: 152.91

PROP: Photosensitive pale-brown oil. Sol in Et₂O and THF.

SAFETY PROFILE: A storage hazard. Solutions gradually precipitate a touch-sensitive explosive solid which is probably cyanogen peroxide. Mildly explosive. When heated to decomposition it emits very toxic fumes of I⁻, NO_x, and CN⁻. See also IODINE and CYANATES.

IDS000 CAS: 7790-99-0 HR: 3
IODINE MONOCHLORIDE

DOT: UN 1792

mf: CII mw: 162.38

PROP: Black crystals or reddish-brown liquid. Exists in α , β forms; crystals α form (stable) black needles; sol in water, alc, ether, CS₂, acetic acid. Red-brown crystals or oily liquid. Mp: (α) 27°, (β) 14°, bp: 97.4° (decomp @ 100°), d (α) 3.1822 @ 0°, (β) 3.24 @ 34°.

SYNS: IODINE CHLORIDE □ PROTOCHLORURE d'IODE (FRENCH) □ WIJS' CHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:50 mg/kg KODAK* 21MAY71

skn-rat LDLo:500 mg/kg KODAK* 21MAY71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive**SAFETY PROFILE:** A poison by ingestion.

Moderately toxic by skin contact. A corrosive irritant to skin, eyes, and mucous membranes. Moderately explosive when exposed to heat. Reacts with water or steam to produce toxic and corrosive fumes. Dangerous reactions with metals e.g., sodium (mixture explodes on impact). potassium (explodes on contact). aluminum (ignition after a delay period). Reacts violently with Al foil. CdS. PbS. organic matter. P. PCl₃. rubber. Ag₂S. ZnS. When heated to decomposition it emits highly toxic fumes of Cl⁻ and I⁻ and may explode. See also IODINE and CHLORIDES.

IDS300 CAS: 12029-98-0 HR: 3
IODINE(V) OXIDE

mf: I₂O₅ mw: 333.81

PROP: White hygroscopic crystals; decomp to I₂ + O₂ at 2°. Insol CS₂, CHCl₃, and Et₂O; very sol in H₂O, forming HIO₃.

SAFETY PROFILE: Explosive reaction when warmed with nonmetals, (e.g., carbon; sulfur; rosin; sugar; and other easily combustible materials). Reacts violently with bromine pentafluoride; hydrazine (at high temperatures and pressures). Ignites on contact with aluminum powder. When heated to decomposition it emits toxic fumes of I⁻. See also IODATES.

IDT000 CAS: 7783-66-6 HR: 3
IODINE PENTAFLUORIDE

DOT: UN 2495mf: F₅I mw: 221.90

PROP: Yellow liquid. Mp: 9.43°, bp: 100.5°, d: 3.19 @ 25°. Fumes in air, attacks glass, especially when hot.

SYN: PENTAFLUOROIODINE

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.

DOT CLASSIFICATION: 5.1; Label: Oxidizer, Poison**NIOSH REL:** (Fluorides, Inorganic) TWA 2.5 mg(F)/m³

SAFETY PROFILE: A poison. Probably an irritant to the eyes, skin, and mucous membranes. A powerful oxidizer. Explosive reaction with benzene (above 50°C), diethylaminotrimethyl silane, dimethyl sulfoxide, limonene + tetrafluoroethylene (polymerization), potassium, molten

sodium, tetraiodoethylene. Reaction with organic compounds results in charring and then ignition. Violent reaction with water, potassium hydroxide. Incandescent reaction with calcium carbide, potassium hydride, metals, and nonmetals (e.g., boron, silicon, red phosphorus, sulfur, arsenic, antimony, bismuth, molybdenum, tungsten). When heated to decomposition it emits very toxic fumes of F⁻ and I⁻. See also IODINE and FLUORIDES.

IDU000 CAS: 38005-31-1 HR: 3
IODINE(III) PERCHLORATE

mf: Cl₃IO₁₂ mw: 425.26
I(ClO₄)₃**PROP:** Yellow crystals; very readily hydrolyzes.**SAFETY PROFILE:** Exploded on laser irradiation.

When heated to decomposition it emits very toxic fumes of Cl⁻ and I⁻. See also IODINE and PERCHLORATES.

IDV000 CAS: 6540-76-7 HR: 3
IODINE TRIACETATE

mf: C₆H₉IO₆ mw: 304.0
I(OCO•CH₃)₃

SAFETY PROFILE: Explodes when heated to 140°C. Upon decomposition it emits toxic fumes of I⁻.

IDW000 CAS: 144-48-9 HR: 3
IODOACETAMIDE

mf: C₂H₄INO mw: 184.97**PROP:** Flaky crystals from H₂O. Mp: 95°.

SYNS: α -IODOACETAMIDE □ 2-IODOACETAMIDE □ MONOIODOACETAMIDE □ SURAUTO □ USAF D-1

TOXICITY DATA with REFERENCE:

dnd-esc 20 ppm MUREAV 24,365,74

dni-hmn:lym 10 μ mol/L STBIBN 50,97,75

orl-mus LD50:74 mg/kg ARTODN 47,09,81

ipr-mus LDLo:50 mg/kg NTIS** AD277-689

ivn-mus LD50:56 mg/kg CSLNX* NX#02060

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

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

IDY000 CAS: 622-50-4 HR: 3
4'-IODOACETANILIDE

mf: C₈H₈INO mw: 261.07**PROP:** Platelets from H₂O. Mp: 184°.**SYNS:** p-IODOACETANILIDE □ 4-IODOACETANILIDE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:320 mg/kg CSLNX* NX#02848

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of I⁻ and NO_x.

IDZ000 CAS: 64-69-7 HR: 3

IDOACETIC ACIDmf: $C_2H_3IO_2$ mw: 185.95**PROP:** Colorless or white crystals; plates from lignoin.

Mp: 82–83°. Sol in water and alc; very sltly sol in ether.

SYNS: 1A □ IODOACETATE □ MIA □ MONOIODOACETATE

□ MONOIODOACETIC ACID

TOXICITY DATA with REFERENCE:

cyt-smc 5 mg/L NATUAS 294,263,81

dni-hmn:hla 500 μ mol/L RAREAE 37,334,69dni-mus:ast 2143 μ mol/L JPMSAE 67,1235,78

skn-mus TDLo:5800 mg/kg/27W-I:NEO BJCAAI 7,482,53

ihl-rat LCLo:94 g/m³/30M RPTOAN 41,113,78

ipr-rat LD50:75 mg/kg RPTOAN 41,113,78

scu-rat LD50:60 mg/kg TXAPA9 26,93,73

orl-mus LD50:83 mg/kg JPETAB 86,336,46

ivn-dog LD50:45 mg/kg JNCIAM 31,297,63

scu-rbt LDLo:60 mg/kg JPHYA7 80,360,34

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion, subcutaneous, and intravenous routes. Experimental teratogenic effects. Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of I^- . See also IODINE.**IDZ100 CAS: 18312-12-4 HR: 3**
N-(IDOACETYL)-3-**AZABICYCLO(3.2.2)NONANE**mf: $C_{10}H_{16}INO$ mw: 293.17**SYNS:** 3-AZABICYCLO(3.2.2)NONANE, 3-(IDOACETYL)- □ KETONE, 3-AZABICYCLO(3.2.2)NONYL IODOMETHYL**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:18 mg/kg CSLNX* NX#03485

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 and I^- .**IDZ200 CAS: 143-86-2 HR: 3**
1-IDOACETYL- α - α -DIPHENYL-4-**PIPERIDINEMETHANOL**mf: $C_{20}H_{22}INO_2$ mw: 435.33**SYNS:** KETONE, 4-(DIPHENYLHYDROXYMETHYL)PIPERIDINO IODOMETHYL □ 4-PIPERIDINEMETHANOL, 1-(IDOACETYL)- α - α -DIPHENYL-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:20 mg/kg JPMSAE 55,529,66

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 and I^- .**IDZ400 CAS: 14545-08-5 HR: 3**
IDOACETYLENEmf: C_2HI mw: 151.93**PROP:** Volatile, irritant liquid. Fp: -14 (to -13°), bp: 32°.**SAFETY PROFILE:** Explodes when heated above 85°C. Upon decomposition it emits toxic fumes of I^- . See also IODIDES and ACETYLENE COMPOUNDS.**IEB000 CAS: 626-01-7 HR: 3**
m-IDOANILINEmf: C_6H_6IN mw: 219.03**PROP:** Leaves or needles. Mp: 33°, bp: 145–146° @ 15 mm. Insol in water; sol in alc.**SYNS:** m-AMINOIODOBENZENE □ 3-

AMINONITROBENZENE □ 3-IDOANILINE

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:274 mg/kg TOXID9 14,66,94

ivn-mus LD50:100 mg/kg CSLNX* NX#06766

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and I^- .**IEC000 CAS: 540-37-4 HR: 3**
p-IDOANILINEmf: C_6H_6IN mw: 219.03**PROP:** Needles from water. Mp: 67–68°; sltly sol in water; sol in alc, ether, and chloroform.**SYNS:** p-AMINOPHENYL IODIDE □ 4-IDOANILINE □ 4-IODOBENZENAMINE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:523 mg/kg CEHYAN 23,168,78

orl-bwd LD50:100 mg/kg TXAPA9 21,315,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Poison by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and I^- .**IEC500 CAS: 591-50-4 HR: 3**
IODOBENZENEmf: C_6H_5I mw: 204.01**PROP:** A liquid. D: 1.86 @ 0°/4°, fp: -29°, bp: 188°.**SYNS:** BENZENEIODIDE □ IODINEBENZOL □

IODOBENZENE □ PHENYL IODIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1799 mg/kg GTPZAB 19(9),36,75

ihl-rat LC50:16,320 mg/m³ GTPZAB 19(9),36,75ihl-uns LC50:17 g/m³ GTPZAB 32(10),25,88**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. Explodes when heated above 200°C. Upon decomposition it emits toxic fumes of I^- . See also IODIDES.**IED000 HR: 3**
4-IODOBENZENEDIAZONIUM-2-CARBOXYLATEmf: $C_7H_3IN_2O_2$ mw: 274.0**SAFETY PROFILE:** A highly explosive solid. When heated to decomposition it emits very toxic fumes of I^- and NO_x . See also IODIDES.**IEE000 CAS: 88-67-5 HR: 3**

o-IODOBENZOIC ACIDmf: C₇H₅IO₂ mw: 248.02**PROP:** White needles from water. D: 2.25, mp: 162°.

Very sltly sol in water; sol in alc and ether.

SYN: USAF EK-572**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1500 mg/kg PHARAT 12,415,57

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. When heated to decomposition it emits toxic fumes of I⁻.**IEE025 CAS: 619-58-9 HR: 2**
p-IODOBENZOIC ACIDmf: C₇H₅IO₂ mw: 248.02**SYNS:** BENZOIC ACID, *p*-IODO- □ 4-JODBENZOESEAEURE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:2500 mg/kg PHARAT 12,415,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intravenous route. When heated to decomposition it emits toxic vapors of I⁻.**IEE050 CAS: 2532-17-4 HR: 2**
o-IODOBENZOIC ACID SODIUM SALTmf: C₇H₄IO₂•Na mw: 270.00**SYNS:** SODIUM-*o*-IODOBENZOATE □ SODIUM-2-
IODOHIPPURATE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1500 mg/kg JAPMA8 43,495,54

ivn-mus LD50:1010 mg/kg MECHAN 6,343,63

ims-mus LD50:864 mg/kg JPETAB 117,307,56

SAFETY PROFILE: Moderately toxic by ingestion, intravenous, and intramuscular routes. When heated to decomposition it emits toxic fumes of I⁻ and Na₂O.**IEE100 CAS: 1005-30-7 HR: 2**
p-IODOBENZOIC ACID SODIUM SALTmf: C₁₅H₂₃NO₅ mw: 297.39**SYN:** SODIUM-*p*-IODOBENZOATE**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:786 mg/kg JAPMA8 32,44,43

orl-mus LD50:2500 mg/kg JAPMA8 43,495,54

ims-mus LD50:540 mg/kg JPETAB 117,307,56

SAFETY PROFILE: Moderately toxic by ingestion, intravenous, and intramuscular routes. When heated to decomposition it emits toxic fumes of I⁻ and Na₂O.**IEF000 CAS: 73927-94-3 HR: 3**
(o-IODOBENZOYLOXY)TRIPROPYLSTANNANEmf: C₁₆H₂₅IO₂Sn mw: 495.00**SYN:** TRIPROPYL-TIN-*o*-IODOBENZOATE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:32 mg/kg CSLNX* NX#03672

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:** Poison by intravenous route.When heated to decomposition it emits toxic fumes of I⁻. See also TIN COMPOUNDS.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**IEF100 CAS: 60075-65-2 HR: 3**
p-IODOBENZYL ISOBUTYL CARBONATEmf: C₁₂H₁₅IO₃ mw: 334.17**SYNS:** CARBONIC ACID, *p*-IODOBENZYL ISOBUTYL ESTER □ CARBONIC ACID, (4-IODOPHENYL)METHYL 2-METHYL-
PROPYL ESTER**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:3 mL/kg JMCMA8 19,1362,76

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of I⁻.**IEF200 CAS: 60075-70-9 HR: 3**
p-IODOBENZYL-4-METHYL-2-PENTYL
CARBONATEmf: C₁₄H₁₉IO₃ mw: 362.23**SYNS:** CARBONIC ACID, 1,3-DIMETHYLBUTYL *p*-IODOBENZYL ESTER □ CARBONIC ACID, 1,3-DIMETHYLBUTYL (4-
IODOPHENYL)METHYL ESTER □ 1,3-DIMETHYLBUTYL *p*-
IODOBENZYL CARBONATE**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:7 mL/kg USXXAM #4175544

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of I⁻.**IEG000 CAS: 6088-91-1 HR: 3**
1-IODO-1,3-BUTADIENEmf: C₄HI mw: 175.94

IC≡CC≡CH

PROP: Long, coarse needles by cooling in CO₂ trap. Mp: -30°. Sol in, and forms addition complex with Et₂O.**SAFETY PROFILE:** Will explode when heated to 35°C or scratched. Do not handle above 30°C. When heated to decomposition it emits toxic fumes of I⁻. See also IODINE and ACETYLENE COMPOUNDS.**IEH000 CAS: 513-48-4 HR: 3**
2-IODOBUTANE**DOT:** UN 2390mf: C₄H₉I mw: 184.03**PROP:** Flash p: 14°F.**SYNS:** *sec*-BUTYL IODIDE □ 2-JODBUTAN**TOXICITY DATA with REFERENCE:**

dnr-esc 25 µL/well/16H CBINA8 15,219,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits toxic fumes of I⁻. See also IODIDES.

IEI000 CAS: 676-75-5 HR: 3**IODODIMETHYLARSINE**mf: C₂H₆AsI mw: 231.89**PROP:** Yellowish oil with penetrating odor. Bp: 155–160°.**CONSENSUS REPORTS:** Arsenic and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Incompatible with air. Residue from distillation explodes at 72°C. When heated to decomposition it emits toxic fumes of As and I⁻. See also ARSENIC COMPOUNDS, IODIDES, and ACETYLENE COMPOUNDS.**IEI600 CAS: 10557-85-4 HR: 3****4-iodo-3,5-dimethylisoxazole**mf: C₅H₆INO mw: 223.01**SAFETY PROFILE:** Reaction with peroxytrifluoroacetic acid forms an explosive product. When heated to decomposition it emits toxic fumes of I⁻ and NO_x. See also IODIDES.**IEI700 CAS: 302542-42-3 HR: 3****4-iodo-3,5-dimethyl-N-(2-methylphenyl)-1H-pyrazole-1-acetamide**mf: C₁₄H₁₆IN₃O mw: 369.21**TOXICITY DATA with REFERENCE:**

orl-mus LD50:565 mg/kg FRMCE8 55,362,2000

scu-mus TDLo:55 mg/kg FRMCE8 55,362,2000

ocu-rbt TDLo:55 mg/kg FRMCE8 55,362,2000

SAFETY PROFILE: A poison by subcutaneous and ocular routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and I⁻.**IEI730 CAS: 302542-51-4 HR: 3****4-iodo-3,5-dimethyl-N-(3-methylphenyl)-1H-pyrazole-1-acetamide**mf: C₁₄H₁₆IN₃O mw: 369.21**TOXICITY DATA with REFERENCE:**

orl-mus LD50:508 mg/kg FRMCE8 55,362,2000

scu-mus TDLo:50 mg/kg FRMCE8 55,362,2000

ocu-rbt TDLo:50 mg/kg FRMCE8 55,362,2000

SAFETY PROFILE: A poison by subcutaneous and ocular routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and I⁻.**IEI740 CAS: 302542-63-8 HR: 3****4-iodo-3,5-dimethyl-N-(4-methylphenyl)-1H-pyrazole-1-acetamide**mf: C₁₄H₁₆IN₃O mw: 369.21**TOXICITY DATA with REFERENCE:**

orl-mus LD50:543 mg/kg FRMCE8 55,362,2000

scu-mus TDLo:55 mg/kg FRMCE8 55,362,2000

ocu-rbt TDLo:55 mg/kg FRMCE8 55,362,2000

SAFETY PROFILE: A poison by subcutaneous ocular routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and I⁻.**IEJ000 HR: 3****2-iodo-3,5-dinitrobiphenyl**mf: C₁₂H₇IN₂O₄ mw: 370.05**SAFETY PROFILE:** Explosive reaction with the sodium salt of ethyl acetoacetate. When heated to decomposition it emits very toxic fumes of NO_x and I⁻. See also IODIDES and NITRO COMPOUNDS of AROMATIC HYDROCARBONS.**IEL000 CAS: 624-76-0 HR: D****2-iodoethanol**mf: C₂H₅IO mw: 171.97**PROP:** Colorless liquid. D: 2.197 @ 20°/4°, bp: 176–177° @ 25 mm. Sol in water and alc.**SYNS:** ETHYLENE IODOHYDRIN □ IODOETHANOL**TOXICITY DATA with REFERENCE:**

mmo-sat 2 μmol/plate MUREAV 26,367,74

dnr-esc 1 μmol/L EVHPAZ 21,79,77

mmo-klp 15 μmol/L EXPEAM 25,85,69

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic fumes of I⁻. See also IODIDES and ALCOHOLS.**IEL700 CAS: 83665-55-8 HR: 3****2-(2-iodoethyl)-1,3-dioxolane**mf: C₅H₉IO₂ mw: 228.03**PROP:** Very pale-yellow oil. Bp: 67–68° @ 2 mm.**SAFETY PROFILE:** Decomposes violently at 55°C/1.6 mbar. Upon decomposition it emits toxic fumes of I⁻. See also IODIDES.**IEL800 CAS: 5634-39-9 HR: 3****2-(1-iodoethyl)-1,3-dioxolane-4-methanol**mf: C₆H₁₁IO₃ mw: 258.07**SYNS:** 1,3-DIOXOLANE-4-METHANOL, 2-(1-iodoethyl)- □ IODINATED GLYCEROL □ IODOPROPYLIDENE GLYCEROL □ NCI-C55469 □ ORGANIDIN**TOXICITY DATA with REFERENCE:**

mmo-sat 333 μg/plate ENMUDM 9(Suppl 9),1,87

cyt-ham:ovr 2500 mg/L NTPTR* NTP-TR-340,90

orl-rat TDLo:64,375 mg/kg/2Y-C:CAR NTPTR* NTP-TR-340,90

CONSENSUS REPORTS: NTP Carcinogenesis Studies (gavage) Some Evidence: mouse, rat NTPTR* NTP-TR-340,90.**SAFETY PROFILE:** Suspected carcinogen with carcinogenic and neoplastigenic data. Mutation data reported. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of I⁻.**IEM300 CAS: 5110-69-0 HR: 3**
(2-iodoethyl)trimethylammonium iodidemf: C₅H₁₃IN•I mw: 340.99**TOXICITY DATA with REFERENCE:**

orl-rat LD50:700 mg/kg QJPPAL 20,81,47

scu-rat LD50:200 mg/kg QJPPAL 20,81,47

orl-mus LD50:1500 mg/kg QJPPAL 20,81,47

ipr-mus LD50:150 mg/kg QJPPAL 20,81,47

scu-mus LD50:200 mg/kg QJPPAL 20,81,47

ims-mus LD50:130 mg/kg QJPPAL 20,81,47

SAFETY PROFILE: Poison by subcutaneous, intramuscular, and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of I^- , NH_3 , and NO_x . See also IODIDES.

IEN000 CAS: 18181-70-9 HR: 2 IODOFENOPHOS

mf: $\text{C}_8\text{H}_8\text{Cl}_2\text{IO}_3\text{PS}$ mw: 412.99

PROP: A crystalline powder, sol in kerosene. Mp: 76°.

SYNS: ALFACRON □ C-9491 □ CIBA C-9491 □ CIBA 9491 □ CIBA-GEIGY C-9491 □ COMPOUND C-9491 □ O-(2,5-DICHLORO-4-IODOPHENYL) O,O-DIMETHYL PHOSPHOROTHIOATE □ 3,4-DICHLOROPHENOL, O-ESTER with O-METHYL METHYLPHOSPHORAMIDOTHIOATE □ O,O-DIMETHYL-O-(2,5-DICHLOR-4-IODOPHENYL)-THIONOPHOSPHAT (GERMAN) □ O,O-DIMETHYL-O-(2,5-DICHLOR-4-IODOPHENYL)-MONO-THIOPHOSPHAT (GERMAN) □ O,O-DIMETHYL-O-2,5-DICHLORO-4-IODOPHENYL THIOPHOSPHATE □ ENT 27,408 □ IODOPHOS □ JODFENPHOS □ NSC-190998 □ NUVANOL N □ OMS-1211

TOXICITY DATA with REFERENCE:

orl-rat LD50:2000 mg/kg GUCHAZ 5,197,68
skn-rat LD50:2150 mg/kg SPEADM 78-1,45,74
orl-mus LD50:3 g/kg 85DPAN -,71/76
orl-dog LD50:3 g/kg 85DPAN -,71/76
orl-rbt LD50:2 g/kg 85DPAN -,71/76
skn-rbt LD50:500 mg/kg 85DPAN -,71/76

CONSENSUS REPORTS: Chlorophenol compounds are on The Community Right-To-Know List.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Used as a pesticide. When heated to decomposition it emits very toxic fumes of Cl^- , I^- , PO_x , and SO_x . See also CHLOROPHENOLS.

IEO000 CAS: 14722-22-6 HR: 2 N-(3-iodo-2-fluorenyl)acetamide

mf: $\text{C}_{15}\text{H}_{12}\text{INO}$ mw: 349.18

SYN: 3-iodo-2-FAA

TOXICITY DATA with REFERENCE:

orl-rat TDLo:3400 mg/kg/44W-C:CAR JNCIAM 24,149,60

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of I^- and NO_x .

IEP000 CAS: 75-47-8 HR: 3 IODOFORM

mf: CHI_3 mw: 393.72

PROP: Yellow powder or crystals; plates from Me_2CO ; disagreeable odor. D: 4.1, mp: 120° (approx), bp: subl. Decomp at high temp, evolving iodine. Volatile with steam. Very sol in water, benzene, acetone; sltly sol in pet ether.

SYNS: NCI-C04568 □ TRIIODOMETHANE

TOXICITY DATA with REFERENCE:

mmo-sat 67 µg/plate ENMUDM 5(Suppl 1),3,83
mma-sat 100 µg/plate ENMUDM 5(Suppl 1),3,83
orl-rat LD50:355 mg/kg ZDTUAB 27(5),9,83
ihl-rat LC50:165 ppm/7H JTEHD6 8,59,81
skn-rat LD50:1184 mg/kg ZDTUAB 27(5),9,83
orl-mus LD50:470 mg/kg GISAAA 52(11),74,87

scu-mus LD50:630 mg/kg TXAPA9 4,354,62
orl-dog LDLo:1000 mg/kg ZEPTAT 1,446,05
orl-rbt LD50:450 mg/kg ZDTUAB 27(5),9,83
scu-rbt LDLo:500 mg/kg ZEPTAT 1,446,05

CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (gavage); No Evidence: mouse, rat NCITR* NCI-CG-TR-110,78. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.6 ppm (skin)

ACGIH TLV: TWA 0.6 ppm

SAFETY PROFILE: A poison by ingestion. Moderately toxic by inhalation, skin contact, and subcutaneous routes. Mutation data reported. Used as an antiseptic, disinfectant on superficial wounds, and in female reproductive tract. 1:1 mixtures with hexamethylenetetramine explode at 178°C. Incompatible with mercuric oxide, calomel, silver nitrate, tannin, balsam Peru directly mixed, Li, acetone. When heated to decomposition it emits toxic fumes of I^- . See also IODIDES.

IEP200 CAS: 547-91-1 HR: 2 7-iodo-8-hydroxyquinoline-5-sulfonic acid

mf: $\text{C}_9\text{H}_6\text{INO}_4\text{S}$ mw: 351.12

PROP: Sulfur yellow, almost odorless and tasteless, crystalline powder or laminae. Mp: 260–270° (decomp). One gram dissolves in 500 mL cold water, 170 mL boiling water. Very sltly sol in H_2O , EtOH; prac insol in Et_2O , CHCl_3 , and C_6H_6 .

SYNS: ANAYODIN □ CHINIOFON □ FERRON □ 8-HYDROXY-7-iodoquinoline sulfonate □ 8-HYDROXY-7-iodo-5-quinolinesulfonic acid □ 8-HYDROXY-7-iodo-quinolinesulfonic acid □ LORETIN □ MEDITRENE □ QUINIPHEN □ QUINOXYL □ SEFONA □ YATREN □ YELLON

TOXICITY DATA with REFERENCE:

orl-rat LD:>500 mg/kg NCNSA6 5,21,53
ivn-rat LDLo:500 mg/kg JPETAB 63,122,38
ims-rat LDLo:1000 mg/kg JPETAB 63,122,38
orl-mus LD50:4000 mg/kg JAPMA8 43,495,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, intravenous, and intramuscular routes. When heated to decomposition it emits toxic fumes of NO_x and SO_x . Note: The name Anayodin is also used to designate sodium iodide.

IER000 CAS: 27018-50-4 HR: 2 7-iodomethyl-12-methylbenz(a)-anthracene

mf: $\text{C}_{20}\text{H}_{15}\text{I}$ mw: 382.25

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of I^- .

IET000 CAS: 64049-02-1 HR: 3 IODOMETHYLTRIMETHYLARSONIUM IODIDE TOXICITY DATA with REFERENCE:

scu-mus LDLo:220 mg/kg JPETAB 25,315,25

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 subcutaneous route. When heated to decomposition it emits very toxic fumes of As and I⁻. See also ARSENIC COMPOUNDS.

IEU500 CAS: 628-17-1 HR: 2
1-IODOPENTANE

mf: C₅H₁₁I mw: 198.06

PROP: Colorless to pale or amber liquid with gasoline-like odor. Bp: 155°, d: 1.51 @ 20°. Flash p: 51 C. Insol in water.

SYNS: AMYL IODIDE □ n-AMYL IODIDE □ 1-JODPENTAN □ PENTANE, 1-iodo- □ PENTYL IODIDE □ n-PENTYL IODIDE □ 1-PENTYL IODIDE

TOXICITY DATA with REFERENCE:

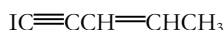
ipr-rat LD50:948 mg/kg 85GMAT -,21,82
 ipr-mus LD50:489 mg/kg 85GMAT -,21,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. A combustible liquid. When heated to decomposition it emits toxic vapors of I⁻.

IEU000 HR: 3
1-iodo-3-penten-1-yne

mf: C₅H₅I mw: 192.00



SAFETY PROFILE: Residue from distillation explodes at 72°C. When heated to decomposition it emits toxic fumes of I⁻. See also IODIDES and ACETYLENE COMPOUNDS.

IEU075 CAS: 423-62-1 HR: 1
1-iodoperfluorodecane

mf: C₁₀F₂₁I mw: 268.21

PROP: Bp: 195–200°, mp: 65–67°, d: 1.940.

SYNS: DECANE, HENEICOSAFLUORO-1-iodo- □ DECANE, 1-iodo-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-HENEICOSAFLUORO- □ HENEICOSAFLUORO-1-iododecane □ PERFLUORODECYL IODIDE □ PERFLUORO-1-iododecane

TOXICITY DATA with REFERENCE:

ivn-mus LD50:11,100 mg/kg MIVRA6 8,320,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by intravenous route. When heated to decomposition it emits toxic vapors of I⁻ and F⁻.

IEU085 CAS: 129-81-7 HR: 2
iodophenazone

mf: C₁₁H₁₁IN₂O mw: 314.14

SYNS: ANTIPYRINE IODIDE □ ANTIPYRINE, 4-iodo- □ ARTHRIPUR □ 1,2-DIHYDRO-4-iodo-1,5-DIMETHYL-2-PHENYL-3H-PYRAZOL-3-ONE □ IODOANTIPYRINE □ 4-iodoANTIPYRINE □ IODOPYRINE □ JODANTIPYRINE □ JODOPYRINE □ 3H-PYRAZOL-3-ONE, 1,2-DIHYDRO-4-iodo-1,5-DIMETHYL-2-PHENYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:2060 mg/kg EKFAE9 61(2),57,1998
 ipr-rat LD50:1720 mg/kg EKFAE9 61(2),57,1998
 orl-mus LD50:1600 mg/kg EKFAE9 61(2),57,1998

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

IEU100 CAS: 386-17-4 HR: 3
iodophene

mf: C₂₀H₁₀I₄O₄ mw: 821.90

SYNS: TETRAIODOPHENOLPHTHALEIN □ 3',3'',5',5''-TETRAIODOPHENOLPHTHALEIN □ TETRAJODPHENOL-PHTHALEIN (GERMAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:2800 mg/kg KLWOAZ 20,125,41
 ivn-rat LD50:310 mg/kg KLWOAZ 20,125,41
 orl-dck LD50:79,200 µg/kg VETNAL 54(5),64,78

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of I⁻.

IEU000 CAS: 533-58-4 HR: 2
2-iodophenol

mf: C₆H₅IO mw: 220.01

PROP: Needles or plates. D: 1.876, mp: 43°, bp: 186–187°. Sol in hot water; very sol in alc, ether, chloroform, and benzene.

SYNS: o-iodophenol □ o-JODFENOL □ 2-JODFENOL

TOXICITY DATA with REFERENCE:

scu-rat LDLo:4000 mg/kg RMSRA6 16,449,1896

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of I⁻. See also IODIDES and PHENOL.

IEU010 CAS: 626-02-8 HR: 2
3-iodophenol

mf: C₆H₅IO mw: 220.01

SYNS: m-HYDROXYIODOBENZENE □ m-iodophenol □ 3-JODPHENOL □ PHENOL, m-iodo- □ PHENOL, 3-iodo-

TOXICITY DATA with REFERENCE:

orl-mus LD50:2900 mg/kg PHARAT 18,642,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IEU000 CAS: 540-38-5 HR: 2
4-iodophenol

mf: C₆H₅IO mw: 220.01

PROP: Needles or water. Mp: 93–94°, d: 1.857, bp: decomp. Slty sol in water; very sol in alc and ether.

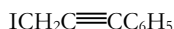
SYN: p-iodophenol

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:700 mg/kg JPMSAE 67,1154,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of I⁻. See also IODIDES and PHENOL.

IEX000
1-iodo-3-phenyl-2-propynemf: C₉H₇I mw: 242.01**HR: 3****SAFETY PROFILE:** Detonates on distillation. When heated to decomposition it emits toxic fumes of I⁻. See also IODIDES and ACETYLENE COMPOUNDS.**IEY000** **CAS: 141-76-4**
3-iodopropionic acidmf: C₃H₅IO₂ mw: 199.98**HR: 2****PROP:** (a) Needles from water. D: 1.857, mp: 93–94°, bp: decomp. Sltly sol in water; very sol in alc and ether. (b) Needles. Mp: 44.5–45.5°, bp: 105°. Very sol in EtOH, Et₂O; sol in hot H₂O; very sltly sol in cold H₂O.**TOXICITY DATA with REFERENCE:**

mmo-sat 50 µg/plate DHEFDK FDA-78-1046,78

skn-mus LDLo:1900 mg/kg CNREA8 28,653,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by skin contact. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of I⁻.**IEZ800** **CAS: 659-86-9**
3-iodopropynemf: C₃H₃I mw: 165.96**HR: 3****SAFETY PROFILE:** Explodes when heated to 180°C. Upon decomposition it emits toxic fumes of I⁻. See also IODIDES and ACETYLENE COMPOUNDS.**IFA000** **CAS: 777-11-7** **HR: 3**
3-iodo-2-propynyl-2,4,5-trichloro-phenyl ethermf: C₉H₄Cl₃IO mw: 361.38**PROP:** Pale-yellow crystals. Mp: 113–114°.**SYNS:** HALOPROGIN □ HALOTEX □ M 1028 □ MYCANDEN □ MYCILAN □ POLIK □ 2,4,5-TRICHLOROPHENYL IODOPROPARGYL ETHER □ 2,4,5-TRICHLOROPHENYL-γ-iodopropargyl ether**TOXICITY DATA with REFERENCE:**

skn-rbt 10 mg/72H MLD TXAPA9 22,375,72

eye-rbt 1 mg/24H MLD TXAPA9 22,375,72

skn-pig 5 mg/24H MLD TXAPA9 22,375,72

ipr-rat LD50:152 mg/kg TXAPA9 22,375,72

ipr-mus LD50:89 mg/kg DCTODJ 13,195,90

ipr-dog LD50:250 mg/kg TXAPA9 22,375,72

orl-rbt LD50:1625 mg/kg TXAPA9 22,375,72

ipr-rbt LD50:137 mg/kg TXAPA9 22,375,72

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** A poison by intraperitoneal route. Moderately toxic by ingestion. A skin and eye irritant. An FDA over-the-counter drug. An antibacterial agent. When heated to decomposition it emits very toxic Cl⁻ and I⁻.**IFA100** **CAS: 3736-90-1** **HR: 1**
iodopyracet megluminemf: C₇H₅I₂NO₃•C₇H₇NO₅ mw: 600.18**SYNS:** 3,5-DIIODO-4-OXO-1(4H)-PYRIDINEACETIC ACID COMPD. WITH 1-DEOXY-1-(METHYLAMINO)GLUCITOL □ 3,5-DIJOD-4-PYRIDON-N-ESSIGSAEURE METHYLGLUKAMIN □ d-GLUCITOL, 1-DEOXY-1-(METHYLAMINO)-, 3,5-DIIODO-4-OXO-1(4H)-PYRIDINEACETATE (SALT) □ PER-ABRODIL M □ 1(4H)-PYRIDINEACETIC ACID, 3,5-DIIODO-4-OXO-, COMPD. WITH 1-DEOXY-1-(METHYLAMINO)GLUCITOL □ 1(4H)-PYRIDINE-ACETIC ACID, 3,5-DIIODO-4-OXO-, SALT WITH METHYLGLUCAMINE**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:5900 mg/kg AEPPAE 222,584,1954

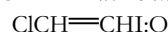
SAFETY PROFILE: Low toxicity by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and I⁻.**IFC000** **CAS: 536-80-1** **HR: 3**
iodosobenzenemf: C₆H₅IO mw: 220.01**PROP:** Yellow amorphous powder. Mp: 210° (decomp).**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:62,500 µg/kg CBCCT* 4,44,52

ivn-mus LD50:180 mg/kg CSLNX* NX#01479

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal and intravenous routes. Explodes when heated to 210°C. When heated to decomposition it emits toxic fumes of I⁻.**IFD000** **CAS: 3240-34-4** **HR: 3**
iodosobenzene diacetatemf: C₈H₈IO•C₂H₃O₂ mw: 322.11**PROP:** A solid. Mp: 160.5°.**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#02976

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits toxic fumes of I⁻.**IFE000** **CAS: 696-33-3** **HR: 3**
iodosylbenzenemf: C₆H₅IO mw: 219.98**PROP:** Needles from water. Mp: 230°, mp: 236–237° (explodes).**SAFETY PROFILE:** Explodes at 210°C. When heated to decomposition it emits toxic fumes of I⁻.**IFE875** **CAS: 69180-59-2** **HR: 3**
4-iodosyltoluenemf: C₇H₇IO mw: 234.04**SAFETY PROFILE:** Explodes when heated above 175°C. Upon decomposition it emits toxic fumes of I⁻. See also IODIDES.**IFE879** **HR: 3**
2-iodosylvinyl chloridemf: C₂H₂ClIO mw: 204.5

SAFETY PROFILE: Explodes when heated to 63°C. Reacts with water to form the more explosive 2-iodylvinyl chloride. Upon decomposition it emits toxic fumes of Cl^- and I^- . See also IODIDES and CHLORIDES.

IFG000 CAS: 17236-22-5 HR: 3
3-IODOTETRAHYDROTHIOPHENE-1,1-DIOXIDE

mf: $\text{C}_4\text{H}_7\text{IO}_2\text{S}$ mw: 246.07

SYN: TETRAHYDRO-3-IODOTHIOPHENE-1,1-DIOXIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:100 mg/kg AIPTAK 119,423,59

ipr-mus LD50:33 mg/kg AIPTAK 119,423,59

ivn-mus LD50:9300 $\mu\text{g/kg}$ AIPTAK 119,423,59

SAFETY PROFILE: A poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits very toxic fumes of I^- and SO_x .

IFG100 CAS: 625-95-6 HR: 2
3-IODOTOLUENE

mf: $\text{C}_7\text{H}_7\text{I}$ mw: 218.04

SYNS: BENZENE, 1-iodo-3-methyl- \square 1-iodo-3-methyl-benzene \square m-iodotoluene \square m-methyliodobenzene \square 3-methylphenyl iodide \square toluene, m-iodo-(7Cl,8Cl) \square m-tolyl iodide

TOXICITY DATA with REFERENCE:

orl-rat LD50:2296 mg/kg GTPZAB 36(9-10),44,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IFK509 CAS: 624-31-7 HR: 3
4-IODOTOLUENE

mf: $\text{C}_7\text{H}_7\text{I}$ mw: 218.04

PROP: Leaves from EtOH. D: 1.678 @ 40°/4°, mp: 36–37°, bp: 211°.

SAFETY PROFILE: Explodes when heated above 200°C. Upon decomposition it emits toxic fumes of I^- . See also IODIDES.

IFL000 CAS: 26037-72-9 HR: 3
iodo(p-TOLYL)MERCURY

mf: $\text{C}_7\text{H}_7\text{HgI}$ mw: 418.63

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

SYN: p-TOLYLMERCURY IODIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:18 mg/kg CSLNX* NX#05140

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

ACGIH TLV: TWA 0.1 mg(Hg)/ m^3 (skin); BEI: 35 $\mu\text{g/g}$ creatinine total inorganic mercury in urine preshift; 15 $\mu\text{g/g}$ 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/ m^3 (skin)

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes

of Hg and I^- . See also MERCURY COMPOUNDS and IODIDES.

IFM000 CAS: 7342-47-4 HR: 3
IODOTRIBUTYLSTANNANE

mf: $\text{C}_{12}\text{H}_{27}\text{ISn}$ mw: 416.98

SYN: TRI-N-BUTYL TIN IODIDE

TOXICITY DATA with REFERENCE:

ihl-mus LCLo:1340 mg/ m^3 NDRC** NDCro-132, Feb, 42

orl-rbt LDLo:100 mg/kg SAIGBL 15,3,73

skn-rbt LDLo:200 mg/kg SAIGBL 15,3,73

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: Poison by ingestion and skin contact. Moderately toxic by inhalation. Tributyl tin compounds are extremely toxic to marine life. When heated to decomposition it emits toxic fumes of I^- . See also IODIDES and TIN COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

IFM100 CAS: 2314-97-8 HR: 3
IODOTRIFLUOROMETHANE

mf: CF_3I mw: 195.91

PROP: Colorless gas. Mp: < -78°, bp: -22.5°.

SYNS: FREON 13T1 \square METHANE, TRIFLUOROiodo- \square MONOiodotrifluoromethane \square PERFLUOROMETHYL IODIDE \square TRIFLUOROiodomethane \square TRIFLUOROMETHYL IODIDE

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:1 pph/4H FAATDF 35,64,1997

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

IFN000 CAS: 811-73-4 HR: 3
IODOTRIMETHYLTIN

mf: $\text{C}_3\text{H}_9\text{ISn}$ mw: 290.71

PROP: White powder, insol in water and org solvs.

SYNS: IODOTRIMETHYLSTANNANE \square

TRIMETHYLSTANNYL IODINE \square TRIMETHYLTIN IODIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:4500 $\mu\text{g/kg}$ CSLNX* NX#02982

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 intravenous route. When heated to decomposition it emits toxic fumes of I^- . See also IODIDES and TIN COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

IFO000 CAS: 894-09-7 HR: 3
IODOTRIPHENYLSTANNANE

mf: $\text{C}_{18}\text{H}_{15}\text{ISn}$ mw: 476.92

SYN: TRIPHENYLTIN IODIDE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#02203

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:** Poison by intravenous route.When heated to decomposition it emits toxic fumes of I⁻. See also TIN COMPOUNDS and IODIDES.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**IFO700****HR: 3****iodo-undecinic acid**mf: C₁₁H₁₇IO₂ mw: 308.18**SYNS:** 11-iodo-10-undecinic acid □ 11-iodo-10-undecynoic acid**TOXICITY DATA with REFERENCE:**

scu-rat LD50:149 mg/kg OYYAA2 2,70,68

orl-mus LD50:225 mg/kg OYYAA2 2,70,68

scu-mus LD50:117 mg/kg OYYAA2 2,70,68

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of I⁻.**IFP000****CAS: 696-07-1****HR: 3****5-iodouracil**mf: C₄H₃IN₂O₂ mw: 237.99**PROP:** Crystals from H₂O. Mp: 272° (decomp).**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:300 mg/kg BCPA6 13,1249,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of I⁻ and NO_x.**IFP800****CAS: 51764-33-1****HR: 2****iodoxamate meglumine**mf: C₂₆H₂₆I₆N₂O₁₀•2C₇H₁₇NO₅ mw: 1678.44**PROP:** Sol in water.**SYNS:** CHOLOVUE □ ENDIBIL □ IODOXAMIC ACID MEGLUMINE SALT □ MEGLUMINE IODOXAMATE**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:4500 mg/kg NIIRDN 6,871,82

par-rat LD50:2928 mg/kg FRPSAX 28,1011,73

ivn-mus LD50:5300 mg/kg NIIRDN 6,871,82

ivn-dog LD50:4850 mg/kg FRPSAX 28,996,73

par-rbt LD50:5398 mg/kg FRPSAX 28,1011,73

SAFETY PROFILE: Moderately toxic by parenteral route. When heated to decomposition it emits toxic fumes of I⁻ and NO_x.**IFQ775****CAS: 16825-74-4****HR: 3****4-iodylanisole**mf: C₇H₇IO₃ mw: 266.04CH₃OC₆H₄I(O):O**PROP:** Leaflets from HCOOH or AcOH. Mp: 225° (decomp).**SAFETY PROFILE:** Explodes when heated to 225°C. Upon decomposition it emits toxic fumes of I⁻. See also IODIDES.**IFR000****CAS: 696-33-3****HR: 3****iodylbenzene**mf: C₆H₅IO₂ mw: 236.0**SAFETY PROFILE:** An explosive sensitive to impact and heating to 230°C. Upon decomposition it emits toxic fumes of I⁻. See also IODIDES.**IFS000****HR: 3****iodylbenzene perchlorate**mf: C₆H₅ClO₆ mw: 336.47C₆H₅I⁺(O)OH ClO₄⁻**SYN:** (HYDROXY)(OXO)(PHENYL)-LAMBDA³-IODANIUM PERCHLORATE**SAFETY PROFILE:** While damp it exploded violently. When heated to decomposition it emits toxic fumes of Cl⁻. See also IODIDES and PERCHLORATES.**IFS350****CAS: 16825-72-2****HR: 3****4-iodyl toluene**mf: C₇H₇IO₂ mw: 250.04CH₃C₆H₄I(O):O**SAFETY PROFILE:** Explodes when heated above 200°C. Upon decomposition it emits toxic fumes of I⁻. See also IODIDES.**IFS385****HR: 3****2-iodylvinyl chloride**mf: C₂H₂ClO₂ mw: 220.39ClCH=CHI(O):O₂**SAFETY PROFILE:** A powerful explosive sensitive to impact, friction, or heating to 135°C. Upon decomposition it emits toxic fumes of Cl⁻ and I⁻. See also IODIDES and CHLORIDES.**IFS400****CAS: 63941-74-2****HR: 3****io glucumide**mf: C₂₀H₂₈I₃N₃O₁₃ mw: 899.21**PROP:** A solid. Mp: 144–148°.**SYNS:** 3,5-BIS-d-GLUCONAMIDO-2,4,6-TRIIODO-N-METHYLBENZAMIDE □ N,N'-(2,4,6-TRIIODO-5-((METHYLAMINO)CARBONYL)-1,3-PHENYLENE)BIS-d-GLUCONAMIDE**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:15,600 mg/kg RADLAX 140,713,81

ice-rat LD50:365 mg/kg RADLAX 140,713,81

ivn-mus LD50:16,200 mg/kg RADLAX 140,713,81

ivn-dog LD50:22,700 mg/kg RADLAX 140,713,81

ivn-rbt LD50:23,800 mg/kg RADLAX 140,713,81

SAFETY PROFILE: Poison by intracerebral route.When heated to decomposition it emits toxic fumes of I⁻ and NO_x.**IFS500****CAS: 78649-41-9****HR: 1****io meprol**

mf: $C_{17}H_{22}I_3N_3O_8$ mw: 777.12

SYNS: 1,3-BENZENEDICARBOXAMIDE, N,N'-BIS(2,3-DIHYDROXYPROPYL)-5-((HYDROXYACETYL)METHYL-AMINO)-2,4,6-TRIIODO- \square IOMEPROLO \square IOMERON 350

TOXICITY DATA with REFERENCE:

ivn-rat LD50:14,300 mg/kg YAKUD5 36,2410,1994
ivn-mus LD50:19,700 mg/kg YAKUD5 36,2410,1994
ice-mus LD50:1186 mg/kg YAKUD5 36,2410,1994
ivn-dog LD :>12,500 mg/kg YAKUD5 36,2410,1994

SAFETY PROFILE: Low toxicity by intravenous and intracerebral routes. When heated to decomposition it emits toxic vapors of NO_x and I^- .

IFT100 CAS: 57285-10-6 HR: 3
IOMEX

TOXICITY DATA with REFERENCE:

orl-rat TDLo:60 g/kg (24D male):REP TXCYAC 7,57,77
orl-rat LDLo:10 g/kg BECTA6 14,241,75
ipr-rat LD50:5 mg/kg SRTCDF -,142,77
itr-rat LDLo:250 mg/kg BECTA6 14,241,75
orl-mus LDLo:10 g/kg BECTA6 14,241,75
ipr-mus LDLo:7500 mg/kg BECTA6 14,241,75
orl-rbt LDLo:10 g/kg BECTA6 14,241,75

SAFETY PROFILE: Poison by intraperitoneal and intratracheal routes. Mildly toxic by ingestion. Experimental reproductive effects. A weed killer.

IFT300 CAS: 28728-55-4 HR: 3
6,3-IONENE BROMIDE

mf: $(C_{13}H_{30}Br_2N_2)_n$

SYN: POLY((DIMETHYLIMINIO)HEXAMETHYLENE(DIMETHYLIMINO)TRIMETHYLENE DIBROMIDE)

TOXICITY DATA with REFERENCE:

ivn-rat LD50:20 mg/kg USXXAM #4013507
ipr-mus LD50:30 mg/kg RPTOAN 37,267,74
ivn-mus LD50:28 mg/kg USXXAM #4013507

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

IFT400 CAS: 25312-34-9 HR: 1
 α -IONOL

mf: $C_{13}H_{22}O$ mw: 194.35

SYNS: 3-BUTEN-2-OL, 4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)- \square 4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-3-BUTEN-2-OL

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5 g/kg FCTOD7 26,359,88
skn-rbt LD50:>5 g/kg FCTOD7 26,359,88

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.

IFT500 CAS: 22029-76-1 HR: 1
 β -IONOL

mf: $C_{13}H_{22}O$ mw: 194.35

SYNS: 3-BUTEN-2-OL, 4-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)- \square 4-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)-3-BUTEN-2-OL

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5 g/kg FCTOD7 26,361,88
skn-rbt LD50:>5 g/kg FCTOD7 26,361,88

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.

IFT600 CAS: 188364-50-3 HR: 2
IONOL K65

TOXICITY DATA with REFERENCE:

skn-rbt 500 μ L/24H SEV NTIS** OTS0539148
orl-rat LD50:2190 mg/kg NTIS** OTS0539148
skn-rat LD50:>2 g/kg NTIS** OTS0539148

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

IFV000 CAS: 8013-90-9 HR: 2
IONONE

mf: $C_{13}H_{20}O$ mw: 192.33

PROP: Liquid. Odor of cedarwood. D: 0.933–0.937 @ 25°/25°, bp: 126–128° @ 12 mm. Misc with abs alc; very sltly sol in H_2O ; moderate sol in alc, ether, chloroform, benzene.

SYNS: IRALDEINE \square IRISONE

TOXICITY DATA with REFERENCE:

dnr-bcs 19 mg/disc OIGZSE 34,267,85
orl-rat LD50:4590 mg/kg FCTXAV 2,327,64
scu-mus LD50:2605 mg/kg JAPMA8 46,77,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by subcutaneous route. Mildly toxic by ingestion. Caution: May cause allergic reactions. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

IFW000 CAS: 6901-97-9 HR: 1
 α -IONONE

mf: $C_{13}H_{20}O$ mw: 192.33

PROP: Colorless oil; woody, violet odor. D: 0.930, refr index: 1.497–1.502, bp: 136.1. Sol in alc, fixed oils, propylene glycol; sltly sol in water; misc in ether; insol in glycerin.

SYNS: α -CYCLOCITRYLIDENEACETONE \square FEMA No. 2594 \square 4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4590 mg/kg FCTXAV 2,327,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and fumes. See also IONONE.

IFX000 CAS: 14901-07-6 HR: 2
 β -IONONE

mf: $C_{13}H_{20}O$ mw: 192.33

PROP: Colorless oil; woody odor. D: 0.944, refr index: 1.517–1.522, bp: 150°, flash p: 234°F. Sol in alc, fixed oils,

propylene glycol; sltly sol in water; misc in ether; insol in glycerin.

SYNS: β -CYCLOCITRYLIDENEACETONE \square FEMA No. 2595 \square 4-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4590 mg/kg FCTXAV 2,327,64

ipr-mus LD50:2277 mg/kg FAONAU 44A,48,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Combustible liquid. When heated to decomposition it emits acrid smoke and fumes. See also IONONE.

IFX100 CAS: 79-77-6 HR: D
***trans*- β -IONONE**

mf: C₁₃H₂₀O mw: 192.33

SYNS: 3-BUTEN-2-ONE, 4-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)-, (E)- \square β -IONONE \square (E)- β -IONONE \square *trans*-4-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IFX200 CAS: 88-26-6 HR: 1
IONOX 100

mf: C₁₅H₂₄O₂ mw: 236.39

PROP: Crystals from Et₂O/pet ether. Mp: 141°, bp: 162° @ 2.6 mm.

SYNS: ANTIOXIDANT 754 \square AO 754 \square 3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXY-BENZENEMETHANOL \square 3,5-DI-*tert*-BUTYL-4-HYDROXYBENZYL ALCOHOL \square 2,6-DI-*tert*-BUTYL-4-HYDROXYMETHYLPHENOL \square IONOX 100 ANTIOXIDANT

TOXICITY DATA with REFERENCE:

dni-hmn:lym 25 μ mol/L BBRC9 80,963,78

orl-rat LDLo:7 g/kg TXAPA9 17,669,70

orl-mus LDLo:7 g/kg TXAPA9 17,669,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. Human mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

IFX300 CAS: 52210-18-1 HR: 1
 α -IONYL ACETATE

mf: C₁₅H₂₄O₂ mw: 236.39

SYNS: 3-BUTEN-2-OL, 4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-, ACETATE \square 4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-3-BUTEN-2-OL ACETATE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5 g/kg FCTOD7 26,363,88

skn-rbt LD50:>5 g/kg FCTOD7 26,363,88

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.

IFY000 CAS: 60166-93-0 HR: 2

IOPAMIDOL

mf: C₁₇H₂₂I₃N₃O₈ mw: 777.12

PROP: Mp: 300 (dec).

SYNS: B-15000 \square 1-(+)-N,N'BIS((2-HYDROXY)-1-HYDROXY-METHYLETHYL)-2,4,6-TRIIODO-5-LACTAMIDE ISOPHTHALAMIDE \square 1-5 α -HYDROXYPROPIONYLAMINO-2,4,6-TRIIODOISOPHTHALIC ACID DI(1,3-DIHYDROXY-2-PROPYLAMIDE) \square 1-5 α -IDROSSIPROPIONILAMINO-2,4,6-TRIIODOISOFTAL-DI(1,3-DIIDROSSI-2-PROPYLAMIDE) \square IOPAMIRON \square NIOPAM \square SOLUTRAST \square SQ 13396

TOXICITY DATA with REFERENCE:

ivn-man TDLo:600 mg/kg/3S-C:BAH AIMDAP 147,2208,87

ivn-man TDLo:1657 mg/kg;SYS AIMEAS 107,116,87

orl-rat LD:>49 g/kg FRPSAX 32,835,77

ivn-rat LD50:22,044 mg/kg ACRAAX 370,41,87

iat-rat LD50:13,268 mg/kg USXXAM #4001323

ipr-mus LD50:40,825 mg/kg USXXAM #4001323

ivn-mus LD50:33 g/kg YACHDS 12(Suppl 1),11,84

ice-mus LD50:3 g/kg FRPSAX 32,835,77

ivn-dog LD50:35 g/kg FRPSAX 32,835,77

ivn-rbt LD50:20 g/kg FRPSAX 32,835,77

par-rbt LD50:510 mg/kg USXXAM #4001323

SAFETY PROFILE: Moderately toxic by intracerebral and parenteral routes. Mildly toxic by other routes. Human systemic effects: acute tubular necrosis, change in heart rate, changes in kidney tubules, muscle contraction, muscle weakness. When heated to decomposition it emits very toxic fumes of I⁻ and NO_x.

IFY100 CAS: 96-83-3 HR: 3
IOPANOIC ACID

mf: C₁₁H₁₂I₃NO₂ mw: 570.94

PROP: dl-Form: Cream-colored solid. Mp: 155.2–157°.

Insol in water; sol in dil alkali, in 95% alc, and in other org solvs. l-Form: Crystals. Mp: 162–163°. d-Form: Crystals. Mp: 162°.

SYNS: 3-AMINO- α -ETHYL-2,4,6-TRIIODOHYDROCINNAMIC ACID \square 2-(3-AMINO-2,4,6-TRIIODOBENZYL)BUTYRIC ACID \square 3-(3-AMINO-2,4,6-TRIIODOPHENYL)-2-ETHYLPROPANOIC ACID \square β -(3-AMINO-2,4,6-TRIIODOPHENYL)- α -ETHYL-PROPIONIC ACID \square COLEPAX \square COPANOIC \square 2-ETHYL-3-(3-AMINO-2,4,6-TRIIODOPHENYL)PROPIONIC ACID \square IODOPANIC ACID \square IODOPANOIC ACID \square JOPAGNOST \square TELEPAQUE \square TELETRAST

TOXICITY DATA with REFERENCE:

orl-man TDLo:86 mg/kg/1W-I:SKN ARDEAC 123,387,87

orl-wmn TDLo:60 mg/kg;GIT,BLD,SKN CTOXAO 18,221,81

orl-rat LD50:1540 mg/kg TXAPA9 14,232,69

ivn-rat LD50:280 mg/kg TXAPA9 14,232,69

orl-mus LD50:6600 mg/kg JMCMA 13,997,70

ivn-mus LD50:320 mg/kg JMCMA 13,997,70

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. Human systemic effects by ingestion: dermatitis, nausea or vomiting, thrombocytopenia. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of I⁻ and NO_x.

IFZ800 CAS: 96-84-4 HR: 3
IOPHENOXIC ACID

mf: $C_{11}H_{11}I_3O_3$ mw: 571.92

PROP: Crystals from benzene + pet ether. Mp: 143–144°.

SYNS: α -ETHYL-3-HYDROXY-2,4,6-TRIIODOHYDRO-CINNAMIC ACID \square α -ETHYL- β -(3-HYDROXY-2,4,6-TRIIODOPHENYL)PROPIONIC ACID \square TERIDAX \square TRIIDOETHIONIC ACID \square α -(2,4,6-TRIIODO-3-HYDROXYBENZYL)BUTYRIC ACID

TOXICITY DATA with REFERENCE:

ipr-rat LD50:648 mg/kg JAPMA8 42,476,53
 orl-mus LD50:1850 mg/kg JAPMA8 42,476,53
 ipr-mus LD50:440 mg/kg JAPMA8 42,476,53
 ivn-mus LD50:374 mg/kg JMCMA8 13,997,70
 ivn-dog LD50:203 mg/kg JAPMA8 42,476,53
 ipr-gpg LD50:570 mg/kg JAPMA8 42,476,53

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of I^- .

IFZ900 CAS: 26786-32-3 HR: 3

IOPRAMINE HYDROCHLORIDE

mf: $C_{26}H_{27}ClN_2O \cdot ClH$ mw: 455.46

PROP: Crystals from butanone. Mp: 152–154°.

SYNS: AMPLIT \square 4'-CHLORO-2-((3-(10,11-DIHYDRO-5H-DIBENZ(b,f)AZEPIN-5-YL)PROPYL)METHYLAMINO)ACETO-PHENONE HCl \square CLOPEPRAMINE HYDROCHLORIDE \square DB 2182 HYDROCHLORIDE \square 5H-DIBENZ(b,f)AZEPINE, 5-(3-(p-CHLOROBENZOXYLMETHYL)-N-METHYLAMINO)PROPYL)-, HYDROCHLORIDE \square GAMONIL \square LEO 640 HYDRO-CHLORIDE \square LOFEPRAMINE HYDROCHLORIDE \square LOPRAMINE HYDROCHLORIDE \square TIMELIT \square TYMELYT

TOXICITY DATA with REFERENCE:

slt-dmg-ork 100 mmol/L MUREAV 286,155,93
 orl-rat TDLo:150 mg/kg (female 9-14D post):TER KSRNAM 10,2186,76
 ipr-mus LD50:4370 μ g/kg YKYUA6 32,1279,81

SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects. An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also AMINES.

IGA000 CAS: 37723-78-7 HR: 2

IOPRONIC ACID

mf: $C_{15}H_{18}I_3NO_5$ mw: 673.04

PROP: X-ray contrast medium for oral cholecystography.

SYNS: 3-(2-(3-ACETYLAMINO-2,4,6-TRIIODOPHENOXY)-ETHOXY)-2-ETHYLPROPIONIC ACID \square 2-(2-(3-(ACETYL-AMINO)-2,4,6-TRIIODOPHENOXY)ETHOXY)METHYL-BUTANOIC ACID \square B-11420 \square BILIMIRO \square BILIMIRON \square ORAVUE \square SQ-21983 \square VIDEOBIL

TOXICITY DATA with REFERENCE:

ork-rat LD50:5650 mg/kg FRPPAO 31,397,76
 ivn-rat LD50:1 g/kg MEIEDD 10,732,83
 orl-mus LD50:1950 mg/kg FRPPAO 31,397,76
 ivn-mus LD50:1090 mg/kg 43FLAV 4(3),1153,80
 ivn-dog LD50:835 mg/kg MEIEDD 10,732,83

SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of I^- and NO_x .

IGC000 CAS: 13087-53-1 HR: 3

IOTHALAMATE METHYLGLUCAMINE

mf: $C_{11}H_9I_3N_2O_4 \cdot C_7H_{17}NO_5$ mw: 809.17

SYNS: CONRAY \square CONRAY 30 \square CONRAY 60 \square CONRAY 280 \square CONRAY MEGLUMIN \square CONRAY MEGLUMINE 282 \square CONTRIX 28 \square CYSTO-CONRAY \square 1-DEOXY-1-(METHYLAMINO)-d-GLUCITOL 5-ACETAMIDO-2,4,6-TRIIODO-N-METHYLISOPHTHALAMATE (SALT) \square IOTALAMATE de METHYLGLUCAMINE (FRENCH) \square IOTHALAMATE MEGLUMINE \square IOTHALAMATE METHYLGLUCAMINE SALT \square MEGLUMINE CONRAY \square MEGLUMINE IOTHALAMATE \square MEGLUMINE ISOTHALAMATE \square METHYLGLUCAMINE IOTALAMATE \square METHYLGLUCAMINE IOTHALAMATE

TOXICITY DATA with REFERENCE:

ice-wmn TDLo:20 mg/kg:BAH ANASAB 27,454,72
 ivn-rat LD50:13,600 mg/kg NIIRDN 6,64,82
 ice-rat LD50:205 mg/kg NIIRDN 6,64,82
 ivn-mus LD50:11,500 mg/kg THERAP 26,595,71
 ice-mus LD50:300 mg/kg THERAP 26,595,71

SAFETY PROFILE: Poison intracerebral routes. Human systemic effects: convulsions. When heated to decomposition it emits very toxic fumes of NO_x and I^- .

IGC100 CAS: 1225-20-3 HR: 1

IOTHALAMATE SODIUM

mf: $C_{11}H_8I_3N_2O_4 \cdot Na$ mw: 635.90

PROP: Clear aqueous odorless solution. Bp: 100°, mp: 0°, d: 1.415–1.435.

SYNS: 5-ACETYLAMINO-N-METHYL-2,4,6-TRIIODOISO-PHTHALAMIC ACID SODIUM SALT \square ANGIO-CONRAY \square ANGIO-CONTRIX \square BENZOIC ACID, 3-(ACETYLAMINO)-2,4,6-TRIIODO-5-(METHYLAMINO)CARBONYL)-, MONOSODIUM SALT \square CONRAY 80 \square CONRAY 300 \square CONRAY-400 \square IOTALAMATE de SODIUM \square IOTHALAMATE SODIUM (INJECTION) \square IOTHALAMATE SODIUM SALT \square ISOPHTHALAMIC ACID, 5-ACETYLAMINO-N-METHYL-2,4,6-TRIIODO-, SODIUM SALT \square MEDIOCONTRIX \square MONOSODIUM 5-ACETAMIDO-2,4,6-TRIIODO-N-METHYLISOPHTHALAMATE \square SODIUM IOTHALAMATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:19,200 mg/kg JMCMA8 6,24,63

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

IGD000 CAS: 2276-90-6 HR: 3

IOTHALAMIC ACID

mf: $C_{11}H_9I_3N_2O_4$ mw: 613.92

PROP: Crystals. Decomp @ about 285°.

SYNS: 5-ACETYLAMINO-N-METHYL-2,4,6-TRIIODOISO-PHTHALAMIC ACID \square JOTA (GERMAN) \square JOTALAMSAEURE (GERMAN)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:19,800 mg/kg ARZNAD 15,222,65
 ivn-rat LD50:10,500 mg/kg ARZNAD 15,222,65
 ivn-mus LD50:19 mg/kg JMCMA8 6,24,63
 ipr-gpg LD50:14 g/kg ARZNAD 15,222,65

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

IGD075 CAS: 72704-51-9 HR: 1

IOTROXATE MEGLUMINE

mf: $C_{22}H_{18}I_6N_2O_9 \cdot C_7H_7NO_5$ mw: 1411.07**SYNS:** IOTROXATE METHYLGLUCAMINE SALT

□ MEGLUMINE IOTROXATE

TOXICITY DATA with REFERENCE:

scu-rat LD50:78,944 mg/kg NIIRDN 6,APP-1,82

ivn-rat LD50:46,588 mg/kg NIIRDN 6,APP-1,82

ipr-mus LD50:58,374 mg/kg NIIRDN 6,APP-1,82

scu-mus LD50:68,381 mg/kg NIIRDN 6,APP-1,82

ivn-mus LD50:31,355 mg/kg NIIRDN 6,APP-1,82

ivn-rbt LD50:45,698 mg/kg NIIRDN 6,APP-1,82

SAFETY PROFILE: Mildly toxic by several routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of I^- and NO_x .

IGD100 CAS: 51022-74-3 HR: 2
IOTROXIC ACID
mf: $C_{22}H_{18}I_6N_2O_9$ mw: 1215.82

SYNS: BILISCOPIN □ IOTROXINSAEURE (GERMAN) □ 3,3'-(2,2'-OXYDIETHYLENEDIOXYBISACETAMIDO)BIS(2,4,6-TRIIODOBENZOIC ACID) □ SH 213AB □ 3,3'-(3,6,9-TRIOXAUN-DECANEDIOYLDIAMINO)BIS(2,4,6-TRIIODOBENZOIC ACID)

TOXICITY DATA with REFERENCE:

scu-rat LD50:7100 mg/kg IYKEDH 13,637,82

ivn-rat LD50:4190 mg/kg IYKEDH 13,637,82

ipr-mus LD50:5250 mg/kg IYKEDH 13,637,82

scu-mus LD50:6500 mg/kg IYKEDH 13,637,82

ivn-mus LD50:2820 mg/kg IYKEDH 13,637,82

SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic fumes of I^- and NO_x .

IGD200 CAS: 59017-64-0 HR: 1
IOXAGLIC ACID
mf: $C_{24}H_{21}I_6N_5O_8$ mw: 1268.90

PROP: Mixture of ioxaglate meglumine and ioxaglate sodium. Mp: 302°.

SYNS: HEXABRIX □ P 286 (contrast medium)**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:13,300 mg/kg KSRNAM 19,2411,85

SAFETY PROFILE: Mildly toxic by intravenous route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of I^- , Na_2O , and NO_x . An herbicide.

IGE100 CAS: 89367-92-0 HR: 3
IP-10
mf: $C_{13}H_9N_4O_3S$ mw: 301.30

SYNS: 5-(p-HYDROXYBENZYLIDENE)AMINO)-3-METHYL-ISOTHIAZOLO(5,4-d)PYRIMIDINE-4,6(5H,7H)-DIONE □ 5-((4'-HYDROXYBENZYLIDENOIMINO)-3-METHYLSISOTHI-AZOLO(5,4-d)PYRIMIDINE-(7H)-4,6)-DIONE

TOXICITY DATA with REFERENCE:

ivn-rat LD50:535 mg/kg AITEAT 31,769,83

ipr-mus LD50:330 mg/kg AITEAT 31,769,83

ivn-mus LD50:275 mg/kg AITEAT 31,769,83

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

IGF000 CAS: 8012-96-2 HR: 1
IPECAC SYRUP

PROP: Dried rhizome and roots of Rio or Brazilian ipecac. Contains emetine, cephaline, emetamine, ipecacuanic acid, psychotrine, methyl psychotaine, resin.
SYNS: DIHYDROTACHY STEROL □ IPECACUANHA □ SYRUP of IPECAC, U.S.P.

TOXICITY DATA with REFERENCE:orl-hmn TDL₀:70 mg/kg:GIT JPMSAE 65,1398,76

orl-wmn LDLo:113 mg/kg/13W-C:CVS:PUL JAMAAP 243,1927,80

orl-rat LD50:7800 mg/kg 36THAV -,175,77

orl-dog LDLo:5 g/kg 36THAV -,175,77

SAFETY PROFILE: Mildly toxic by ingestion. A centrally acting emetic. Human systemic effects by ingestion: nausea, vomiting, blood pressure lowering, change in heart rate, dyspnea. Has caused fatalities after prolonged ingestion. An FDA over-the-counter drug. See also EMETINE.

IGF200 CAS: 53011-73-7 HR: 3
1,4-IPOMEADIOL
mf: $C_9H_{14}O_3$ mw: 170.23**SYN:** 1-(3-FURANYL)-2,4-PENTANEDIOL**TOXICITY DATA with REFERENCE:**

orl-mus LD50:104 mg/kg BBACAQ 337,184,74

ipr-mus LD50:67 mg/kg BBACAQ 337,184,74

ivn-mus LD50:68 mg/kg BBACAQ 337,184,74

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

IGF300 CAS: 496-06-0 HR: 3
IPOMEANINE
mf: $C_9H_{10}O_3$ mw: 166.19

PROP: Oil or crystals. Mp: 42–43°, bp: 74–79° @ 0,001 mm.

SYNS: 1-(3-FURANYL)-1,4-PENTANEDIONE □ 1-(3-FURYL)-1,4-PENTANEDIONE □ IPOMEANIN □ β-(γ-OXOVALEROYL)-FURAN

TOXICITY DATA with REFERENCE:

orl-mus LD50:26 mg/kg BBACAQ 337,184,74

ipr-mus LD50:25 mg/kg BBACAQ 337,184,74

ivn-mus LD50:14 mg/kg BBACAQ 337,184,74

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

IGF325 CAS: 34435-70-6 HR: 3
IPOMEANOL
mf: $C_9H_{12}O_3$ mw: 168.21**PROP:** Light-yellow solid.

SYNS: 5-(3-FURANYL)-5-HYDROXY-2-PENTANONE □ 5-(3-FURYL)-5-HYDROXY-2-PENTANONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:79 mg/kg BBACAQ 337,184,74

ipr-mus LD50:49 mg/kg BBACAQ 337,184,74

ivn-mus LD50:35 mg/kg BBACAQ 337,184,74

SAFETY PROFILE: Poison by ingestion, intravenous and intraperitoneal routes. When heated to decomposition it emits acrid smoke and fumes. See also KETONES.

IGG000 CAS: 22254-24-6 HR: 3
IPRATROPIUM BROMIDE

mf: $C_{20}H_{30}NO_3 \cdot Br$ mw: 412.42

SYNS: ATEM □ ATROVENT □ 3- α -HYDROXY-8-ISOPROPYL-1- α -H,5- α -H-TROPANUM BROMIDE (±)-TROPATE □ (8r)-3- α -HYDROXY-8-ISOPROPYL-1- α -H,5- α -H-TROPIUMBROMIDE-(±)-TROPATE □ IPATR0PIUMBROMID (GERMAN) □ 8-ISOPROPYLNORATROPINE METHOBROMIDE □ N-ISOPROPYLNORATROPINIUM BROMOMETHYLATE □ ITROP □ Sch 1000

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H MOD KSRNAM 21,5692,87
ihl-man TClO:1 μ g/kg:GIT BMJOAE 292,380,86
orl-rat LD50:1663 mg/kg ARZNAD 26,985,76
ipr-rat LD50:113 mg/kg NIIRDN 6,348,82
scu-rat LD50:634 mg/kg NIIRDN 6,348,82
ivn-rat LD50:15,700 μ g/kg PBPSDY 2,489,79
orl-mus LD50:1001 mg/kg ARZNAD 26,985,76
ipr-mus LD50:72 mg/kg IYKEDH 9,417,78
scu-mus LD50:300 mg/kg ARZNAD 26,985,76
ivn-mus LD50:12 mg/kg ARZNAD 26,985,76

SAFETY PROFILE: A poison by intravenous, intraperitoneal, and subcutaneous routes. Moderately toxic by ingestion. Human systemic effects by inhalation of very small amounts: gastrointestinal changes. An experimental teratogen. Experimental reproductive effects. An eye irritant. Used as a bronchodilator. When heated to decomposition it emits toxic fumes of NO_x and Br^- . See also BROMIDES.

IGG300 CAS: 4013-92-7 HR: 3 IPROHEPTINE HYDROCHLORIDE

mf: $C_{11}H_{25}N \cdot ClH$ mw: 207.83

PROP: A solid. Mp: 161°.

SYNS: N-ISOPROPYL-6-METHYL-2-HEPTYLAMINE HYDROCHLORIDE □ 6-METHYL-N-(1-METHYLETHYL)-2-HEPTANAMINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus TDLo:448 mg/kg NIIRDN 6,81,82
scu-mus LD50:223 mg/kg NIIRDN 6,81,82
ivn-mus LD50:31,700 μ g/kg NIIRDN 6,81,82

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.

IGG600 CAS: 6011-62-7 HR: 2 IPRONIAZID HYDROCHLORIDE

mf: $C_9H_{13}N_3O \cdot 2ClH$ mw: 252.17

PROP: Crystals from 2-propanol. Mp: 227–228 (decomp).

SYNS: IPRONIAZID DIHYDROCHLORIDE □ 2-(1-METHYLETHYL)HYDRAZIDE 4-PYRIDINECARBOXYLIC ACID DIHYDROCHLORIDE (9Cl)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1470 mg/kg ENDOAO 67,511,60

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

IGG700 CAS: 305-33-9 HR: 2 IPRONIAZID PHOSPHATE

mf: $C_9H_{13}N_3O \cdot H_3O_4P$ mw: 277.25

PROP: White, off white crystalline powder. Mp: 175–184°.

SYN: ISONICOTINIC ACID, 2-ISOPROPYLHYDRAZIDE, PHOSPHATE

TOXICITY DATA with REFERENCE:

oth-bcs 10 mmol/L MUREAV 5,343,68
sce-mus-ipr 640 mg/kg JTEHD6 9,287,82
ipr-rat LD50:442 mg/kg ABMGAJ 18,617,67
scu-gpg LD50:730 mg/kg AIPTAK 137,375,62

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and PO_x .

IGG775 CAS: 62928-11-4 HR: 3 I PROPLATIN

mf: $C_6H_{20}Cl_2N_2O_2Pt$ mw: 418.27

PROP: Yellow crystals. Sol in water. IDLH 4 mg/ m^3 (as Pt).

SYNS: CHIP □ cis-DICHLORO-trans-DIHYDROXYBISISO-PROPYLAMINE PLATINUM (IV) □ DIISOPROPYLAMINE-trans-DIHYDROXYMALONATOPLATINUM(IV) □ JM-28 □ NSD 256927

TOXICITY DATA with REFERENCE:

mno-esc 10 μ mol/L MUREAV 173,13,86
mnt-ham:lng 8250 nmol/L NEOLA4 31,655,84
ipr-rat LD50:60 mg/kg BJCAAI 42,668,80
scu-rat LD50:92 mg/kg BJCAAI 42,668,80
ivn-rat LD50:30 mg/kg EJC0DS 20,1087,84
ipr-mus LD50:60 mg/kg EJC0DS 20,1087,84
ivn-mus LD50:45 mg/kg EJC0DS 20,1087,84

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and Cl^- . See also PLATINUM COMPOUNDS.

IGH000 CAS: 14885-29-1 HR: 2 I PROPRAN

mf: $C_7H_{11}N_3O_2$ mw: 169.21

PROP: Plates. Mp: 62–63°.

SYNS: IPRONIDAZOLE (USDA) □ 2-ISOPROPYL-1-METHYL-5-NITROIMIDAZOLE □ 1-METHYL-2-(1-METHYLETHYL)-5-NITRO-1H-IMIDAZOLE □ RO 7-1554

TOXICITY DATA with REFERENCE:

mno-sat 1 μ mol/L TCMUD8 3,429,83
mno-esc 50 μ mol/L MUREAV 48,155,77
mno-klp 20 μ mol/L/20H MUREAV 66,207,79
mno-omi 20 μ mol/L MUREAV 48,155,77
mno-smc 5 ppm MUREAV 86,243,81
orl-trk LD50:640 mg/kg POSCAL 49,92,70

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

IGH700 CAS: 3614-57-1 HR: D IREHDIAMINE A

mf: $C_{21}H_{36}N_2$ mw: 316.59

PROP: A solid. Mp: 148°.

SYN: PREGN-5-ENE-3- β ,20- α -DIAMINE

TOXICITY DATA with REFERENCE:

mno-omi 200 μ g/plate PNASA6 58,256,67
dni-omi 60 μ mol/L PNASA6 58,256,67

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

**IGI000 CAS: 8064-79-7 HR: 3
IRGAPYRIN**

mf: C₁₉H₂₀N₂O₂•C₁₃H₁₇N₃O mw: 539.74

SYNS: 4-BUTYL-1-1,2-DIPHENYL-3,5-PYRAZOLIDINEDIONE with 4-(DIMETHYLAMINO)-1,2-DIHYDRO-1,5-DIMETHYL-2-PHENYL-3H-PYRAZOL-3-ONE □ IRGAPYRINE □ PABIALGIN □ RHEOPYRINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1375 mg/kg SMWOAS 79,577,49
ipr-rat LD50:290 mg/kg JPETAB 109,387,53
ivn-rat LD50:160 mg/kg SMWOAS 79,577,49
orl-mus LD50:700 mg/kg SMWOAS 79,577,49
ipr-mus LD50:412 mg/kg DPHFAK 23,363,71
ivn-mus LD50:155 mg/kg JPETAB 109,387,53
ims-mus LD50:560 mg/kg OYYAA2 13,79,77
ivn-rbt LD50:145 mg/kg SMWOAS 79,577,49

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

**IGJ000 CAS: 7439-88-5 HR: 3
IRIDIUM**

af: Ir aw: 192.2

PROP: Silver-white, very hard metallic element. Mp: 2450°, bp: approx 4500°, d: 22.65 @ 20°/4°. Highest specific gravity of all elements.

SAFETY PROFILE: The pure metal is clinically inert. Most of its compounds are poorly soluble in water and thus are not absorbed efficiently by the body. The chlorides are poison or moderately toxic by ingestion and are eye and skin irritants. There are no reports of acute or chronic health effects to workers handling iridium and its compounds. The ¹⁹⁰Ir and ¹⁹²Ir radioisotopes are used in clinical radiography and most references to the toxicity of iridium relate to these isotopes.

A catalytic metal. The powdered metal may ignite spontaneously in air. Violent reaction or ignition on contact with interhalogens (e.g., bromine pentafluoride, chlorine trifluoride). Alloys with zinc, after extraction with acids, leave heat-sensitive explosive residues. Is attacked by F₂, Cl₂ at red heat, by potassium sulfate or a mixture of potassium hydroxide and nitrate on fusion, lead, zinc, tin.

**IGJ300 CAS: 12645-45-3 HR: 2
IRIDIUM CHLORIDE**

SYN: IRIIDIUM MURIATE

TOXICITY DATA with REFERENCE:

ivn-dog LDLo:778 mg/kg SMSJAR 26,131,1826

SAFETY PROFILE: Moderately toxic by intravenous route. Experimental reproductive effects.

**IGJ499 CAS: 10025-97-5 HR: 2
IRIDIUM TETRACHLORIDE**

mf: Cl₄Ir mw: 334.00

PROP: Hygroscopic, dark-brown, amorphous solid. Sol in H₂O, EtOH.

SYN: IRIIDIUM(IV) CHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1560 mg/kg GTPZAB 21(7),55,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl⁻. See also IRIIDIUM.

**IGJ550 CAS: 136572-09-3 HR: 3
IRINOTECTAN HYDROCHLORIDE HYDRATE**

mf: C₃₃H₃₈N₄O₆•ClH•3H₂O mw: 677.27

SYN: (1,4'-BIPIPERIDINE)-1'-CARBOXYLIC ACID, 4,11-DIETHYL-3,4,12,14-TETRAHYDRO-4-HYDROXY-3,14-DIOXO-1H-PYRANO(3',4':6,7)INDOLIZINO(1,2-B)QUINOLIN-9-YL ESTER, MONOHYDROCHLORIDE, TRIHYDRATE, (S)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:867 mg/kg IYKEDH 26,953,1995
ivn-rat LD50:83,600 µg/kg IYKEDH 26,953,1995
orl-mus LD50:1045 mg/kg IYKEDH 26,953,1995
ivn-mus LD50:132 mg/kg IYKEDH 26,953,1995
ivn-dog LD50:40 mg/kg IYKEDH 26,953,1995

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.

**IGJ600 CAS: 67801-38-1 HR: 1
IRITONE**

mf: C₁₃H₂₀O mw: 192.33

SYNS: 3-BUTEN-2-ONE, 4-(2,4,6-TRIMETHYL-3-CYCLOHEXEN-1-YL)- □ 4-(2,4,6-TRIMETHYL-3-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5200 mg/kg FCTOD7 30,131S,92
skn-rbt LD50:>5 g/kg FCTOD7 30,131S,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.

**IGK800 CAS: 7439-89-6 HR: 3
IRON**

af: Fe aw: 55.85

PROP: Silvery-white metal, relatively soft when pure. Traces of impurities have profound effect on physical props (steels). Rapidly oxidized, especially in damp air (rust). Attacked by dil acids. Passivated by HNO₃. From decomposition of iron pentacarbonyl: dark-gray powder. From electrodeposition: lusterless, gray-black powder. From chemical reduction: gray-black powder. Mp: 1535°, bp: 27° @ 3000 mm.

SYNS: ANCOR EN 80/150 □ ARMCO IRON □ CARBONYL IRON □ EFV 250/400 □ EO 5A □ FERROVAC E □ GS 6 □ IRON, CARBONYL (FCC) □ IRON, ELECTROLYTIC □ IRON, ELEMENTAL □ IRON, REDUCED (FCC) □ LOHA □ NC 100 □ PZh2M □ PZhO □ REMKO □ SUY-B 2 □ 3ZhP

TOXICITY DATA with REFERENCE:

itr-rat TDLo:450 mg/kg/15W-I:ETA SAIGBL 16,380,74
orl-cld TDLo:77 mg/kg:BAH,GIT,BLD JTCTDW 25,251,87
orl-rat LD50:30 g/kg IJPAAO 13,240,51
ipr-rbt LDLo:20 mg/kg NTIS** PB158-508

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental tumorigenic data. Human systemic effects: irritability, nausea or vomiting, normocytic anemia. Iron is potentially toxic in all forms and by all routes of exposure. The inhalation of large amounts of iron dust results in iron pneumoconiosis (arc welder's lung). Chronic exposure to excess levels of iron (>50–100 mg Fe/day) can result in pathological deposition of iron in the body tissues, the symptoms of which are fibrosis of the pancreas, diabetes mellitus, and liver cirrhosis.

As with other metals, it becomes more reactive as it is more finely divided. Ultrafine iron powder is pyrophoric and potentially explosive. Explosive or violent reaction with ammonium nitrate + heat, ammonium peroxodisulfate, chloric acid, chlorine trifluoride, chloroformamidinium nitrate, bromine pentafluoride + heat (with iron powder), air + oil (with iron dust), sodium acetylide. Ignites on contact with chlorine, dinitrogen tetraoxide, liquid fluorine, hydrogen peroxide (with iron powder), nitril fluoride + heat, peroxyformic acid, potassium perchlorate, potassium dichromate, sodium peroxide (at 240°), polystyrene + friction or spark (iron powder). Mixtures of iron dust with air + water may ignite on drying. Reduced iron reacts with water to produce explosive hydrogen gas. Catalyzes the exothermic polymerization of acetaldehyde. See also IRON COMPOUNDS, IRON DUST, and FERROUS ION.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Elements (ICP), 7300; Metals in Urine (ICP), 8310.

IGL000 CAS: 14024-18-1 HR: 3
IRON ACETYLACETONATE

mf: $C_{15}H_{21}FeO_6$ mw: 353.21

PROP: Red crystals from EtOH. Mp: 175°. Sltly sol in H_2O ; sol in EtOH, Me_2CO , $CHCl_3$, and CH_2Cl_2 .

SYNS: FERRIC ACETYLACETONATE □ FERRIC TRIACETYLACETONATE □ TRIS(2,4-PENTANEDIONATO)IRON

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#02372

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IGL100 CAS: 11121-96-3 HR: 3
IRON ALLOY, BASE

SYNS: AFNOR ZFENC45-36 □ AISI 332 □ ALLOY 800 □ ASTM B163-800 □ DIN 1.4876 □ INCOLOY 800 □ IRON ALLOY, BASE, Fe 39–47, Ni 30–35, Cr 19–23, Mn 0–1.5, Si 0–1, Cu 0–0.8, Al 0–0.6, Ti 0–0.6, C 0–0.1 □ NCF STEEL □ PYROMET 800 □ SANICRO 31 □ THERMAX 4876 □ TIG N800

CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90; Human Inadequate Evidence IMEMDT 49,257,90.

SAFETY PROFILE: Suspected carcinogen. When heated to decomposition it emits acrid smoke and irritating vapors.

IGL110 CAS: 12681-83-3 HR: 3
IRON ALLOY, BASE

SYNS: ALLOY 21-6-9 □ AMS 5656C □ ARMCO 21-6-9 □ ASTM XM10 □ IRON ALLOY, BASE, Fe 60–69, Cr 18–21, Mn 8–10, Ni 5–7, Si 0–1, N 0.2–0.4, C 0–0.1, P 0–0.1 □ NITRONIC 40 □ NITRONIC 40 STAINLESS STEEL □ PYROMET 538 □ STAINLESS STEEL 21-6-9 □ STEEL 21-6-9

CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90; Human Inadequate Evidence IMEMDT 49,257,90.

SAFETY PROFILE: Suspected carcinogen. When heated to decomposition it emits acrid smoke and irritating vapors.

IGL120 CAS: 11133-76-9 HR: 3
IRON ALLOY, BASE, Fe, Ni

SYN: FERRONICKEL

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg SchF## 16MAY86

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90; Human Inadequate Evidence IMEMDT 49,257,90.

SAFETY PROFILE: Confirmed human carcinogen. Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

IGL200 CAS: 7783-85-9 HR: 2
IRON AMMONIUM SULFATE HYDRATE

mf: $H_4N_2 \cdot Fe \cdot 2O_4 \cdot 6H_2O$ mw: 356.09

PROP: Light green powder with sulfurous odor. Mp: 212° F, d: 1.860.

SYNS: AMMONIUM FERROUS SULFATE HEXAHYDRATE □ AMMONIUM IRON(II) SULFATE, HEXAHYDRATE (2:1:2:6) □ FERROUS AMMONIUM SULFATE, HEXAHYDRATE □ MOHR'S SALT □ SULFURIC ACID, AMMONIUM IRON(2+) SALT, HEXAHYDRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3250 mg/kg AIHAAP 30,470,69

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

IGM000 CAS: 10102-50-8 HR: 3
IRON(II) ARSENATE (3:2)

DOT: UN 1608

mf: $As_2O_8 \cdot 3Fe$ mw: 445.39

SYNS: ARSENATE of IRON, FERROUS □ FERROUS ARSENATE (DOT) □ FERROUS ARSENATE, solid (DOT) □ IRON ARSENATE (DOT)

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

OSHA PEL: OSHA: Cancer Hazard

ACGIH TLV: TWA 0.01 mg/m^3 ; Confirmed Human Carcinogen; BEI: 35 μ (As)/L inorganic arsenic and methylated metabolites in urine

NIOSH REL: (Inorganic Arsenic) CL 0.002 $mg(As)/m^3/15M$

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Confirmed human carcinogen. A deadly poison by various routes. A pesticide. When heated

to decomposition it emits toxic fumes of As. See also ARSENIC COMPOUNDS and IRON COMPOUNDS.

**IGN000 CAS: 10102-49-5 HR: 3
IRON(III) ARSENATE (1:1)**

DOT: UN 1606

mf: $\text{AsO}_4 \cdot \text{Fe}$ mw: 194.77

SYNS: ARSENATE of IRON, FERRIC \square FERRIC ARSENATE, solid (DOT)

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

OSHA PEL: OSHA: Cancer Hazard

ACGIH TLV: TWA 0.01 mg/m³; Confirmed Human Carcinogen; BEI: 35 μ (As)/L inorganic arsenic and methylated metabolites in urine

NIOSH REL: (Inorganic Arsenic) CL 0.002 mg(As)/m³/15M

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Confirmed human carcinogen. A deadly poison. A pesticide. When heated to decomposition it emits toxic fumes of As. See also ARSENIC COMPOUNDS and IRON COMPOUNDS.

**IGO000 CAS: 63989-69-5 HR: 3
IRON(III)-o-ARSENITE PENTAHYDRATE**

DOT: UN 1607

mf: $\text{As}_2\text{Fe}_2\text{O}_6 \cdot \text{Fe}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ mw: 607.34

PROP: Brown-yellow powder.

SYNS: FERRIC ARSENITE, BASIC \square FERRIC ARSENITE, solid (DOT)

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

OSHA PEL: TWA 0.01 mg(As)/m³; Cancer Hazard

ACGIH TLV: TWA 0.01 mg/m³; Confirmed Human Carcinogen; BEI: 35 μ (As)/L inorganic arsenic and methylated metabolites in urine

NIOSH REL: (Inorganic Arsenic) CL 0.002 mg(As)/m³/15M

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Confirmed human carcinogen. A deadly poison. When heated to decomposition it emits toxic fumes of As. See also ARSENIC COMPOUNDS and IRON COMPOUNDS.

**IGO500 CAS: 72028-04-7 HR: D
IRON BLEOMYCIN**

mf: $\text{C}_{55}\text{H}_{83}\text{FeN}_{17}\text{O}_{21}\text{S}_3$ mw: 1470.58

SYNS: BLEOMYCINAMIDE, N1-(3-(DIMETHYLSULFONIO)-PROPYL)-, IRON COMPLEX \square FERRIC BLEOMYCIN A2 \square IRON(3+), (N1-(3-(DIMETHYLSULFONIO)PROPYL)BLEOMYCINAMIDATO)-

TOXICITY DATA with REFERENCE:

dnd-hmn ast 5 $\mu\text{mol/L}$ CNREA8 50,5275,1990

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

**IGP000 CAS: 7789-46-0 HR: 3
IRON(II) BROMIDE**

mf: Br_2Fe mw: 215.67

PROP: Deliquescent yellow or brown crystals. Mp: 684° (decomp). Very sol in H_2O ; sol in EtOH, Et_2O , and MeCN.

SAFETY PROFILE: Mixtures with potassium or sodium are shock-sensitive explosives. When heated to decomposition it emits toxic fumes of Br^- . See also IRON COMPOUNDS and BROMIDES.

**IGQ000 CAS: 10031-26-2 HR: 3
IRON(III) BROMIDE**

mf: Br_3Fe mw: 295.58

PROP: Red-brown crystals, deliquescent. Decomp to iron(II). Sol in H_2O , EtOH, Et_2O , and AcOH.

SAFETY PROFILE: Mixtures with potassium or sodium are shock-sensitive explosives. When heated to decomposition it emits toxic fumes of Br^- . See also IRON COMPOUNDS and BROMIDES.

**IGQ050 HR: D
IRON CAPRYLATE**

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

**IGQ750 CAS: 12011-67-5 HR: 2
IRON CARBIDE**

mf: CFe_3 mw: 179.55

PROP: Dark gray air-sensitive powder. Mp: 1250°.

SAFETY PROFILE: Reacts vigorously with halogens (e.g., chlorine below 100°C; bromine at 100°C). When heated to decomposition it emits acrid smoke and fumes. See also IRON COMPOUNDS.

**IGR499 HR: D
IRON COMPOUNDS**

SAFETY PROFILE: Of varying toxicity. Exposure to iron oxides is potentially a serious risk in all industrial settings. Some iron compounds are suspected carcinogens. In general, ferrous compounds are more toxic than ferric compounds. Acute exposure to excessive levels of ferrous compounds can cause liver and kidney damage, altered respiratory rates, and convulsions. Accidental ingestion of medicinal iron preparations results in thousands of intoxications per year in the United States. Iron pentacarbonyl is a poison. Ferbam, the iron salt of dimethyldithiocarbamic acid is very toxic. Chelated iron compounds (e.g., sodium iron ethylenediaminetetraacetate) are less toxic than the ferrous salts. Intramuscular injections of iron dextran can cause severe anaphylactic reactions. See also IRON.

**IGS000 CAS: 9004-66-4 HR: 3
IRON-DEXTRAN COMPLEX**

PROP: For human use, it is a sterile dark-brown colloidal solvent, water-soluble. Approximate molecular weight is 180,000 (IARC** 2,161,72).

SYNS: A 100 (pharmaceutical) \square B 75 \square CHINOFER \square DEXTRAN ION COMPLEX \square DEXTROFER 75 \square EISENDEXTRAN (GERMAN) \square Fe-DEXTRAN \square FENATE \square FERDEX 100 \square FERRIC DEXTRAN \square FERRIDEXTRAN \square FERRODEXTRAN \square FERROFLUKIN 75 \square FERROGLUCIN \square FERROGLUKIN 75 \square

IMFERON □ IMPOSIL □ IRO-JEX □ IRON DEXTRAN □ IRON DEXTRAN INJECTION □ IRON HYDROGENATED DEXTRAN □ IRONORM INJECTION □ MYOFER 100 □ POLYFER □ PROLONGAL □ RCRA WASTE NUMBER U139 □ URISOFERRAN

TOXICITY DATA with REFERENCE:

ims-wmn TDLo:20 mg/kg/3Y-I:NEO BMJOAE 2,277,73
scu-rat TDLo:750 mg(Fe)/kg/4W-I:CAR IJCNAW 2,370,67

scu-rat TD:1500 mg(Fe)/kg/8W-I:CAR IJCNAW 2,370,67
ipr-rat LD50:3 g(Fe)/kg TXAPA9 18,185,71
ims-rat LDLo:1617 mg(Fe)/kg ACVTA8 29,21,79
orl-mus LD50:1 g(Fe)/kg BJPCAL 24,352,65
ivn-mus LD50:460 mg(Fe)/kg APPHAX 18,149,61

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,226,87; Human Inadequate Evidence IMEMDT 2,161,73; Animal Sufficient Evidence IMEMDT 2,161,73.

SAFETY PROFILE: Confirmed carcinogen producing tumors at site of application. Experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. Moderately toxic by ingestion and several other routes. Other experimental reproductive effects. See also IRON COMPOUNDS.

IGS900 HR: 2

IRON DEXTRAN GLYCEROL GLYCOSIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2486 mg(Fe)/kg NNAPBA 270(Suppl),R50,71

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. See also IRON COMPOUNDS.

IGT000 CAS: 9004-51-7 HR: 3

IRON-DEXTRIN COMPLEX

PROP: For human use, it is a clear, brown, colloidal solvent. Approximate molecular weight is 230,000 (IARC** 2,161,72).

SYNS: ASTRAFER □ DEXTRIFERRON □ DEXTRIFERRON INJECTION □ FERRIGEN □ IRON CARBOHYDRATE COMPLEX □ IRON DEXTRIN INJECTION

TOXICITY DATA with REFERENCE:

ipr-mus LD50:980 mg/kg AJMSA9 241,296,61
ivn-mus LD50:175 mg/kg AJMSA9 241,296,61
ivn-dog LD50:94 mg/kg AJMSA9 241,296,61

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,227,87; Animal Sufficient Evidence IMEMDT 2,161,73.

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic and tumorigenic data. See also IRON COMPOUNDS.

IGT100 CAS: 13963-59-2 HR: 2

IRON(III) DIETHYLDITHIOCARBAMATE

mf: C₁₅H₃₀FeN₃S₆ mw: 500.69

SYNS: CARBAMIC ACID, DIETHYLDITHIO-, IRON(III) SALT □ IRON DIETHYLDITHIOCARBAMATE □ IRON, TRIS(DIETHYLDITHIOCARBAMATO)- □ IRON, TRIS(DIETHYLCARBAMO-DITHIOATO-S,S')-, (OC-6-11)- □ IRON TRIS(DIETHYLDI-

THIOCARBAMATE) □ TRIS(DIETHYLDITHIOCARBAMATO)-IRON

TOXICITY DATA with REFERENCE:

ipr-rat LD :>500 mg/kg NCNSA6 5,28,1953

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

IGV000 CAS: 12068-85-8 HR: 3

IRON DISULFIDE

mf: FeS₂ mw: 119.97

SYNS: IRON PYRITES □ IRON SULFIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by inhalation and ingestion. The powdered sulfide ignites spontaneously in air and some air-powder mixtures may be explosive. Trace carbon lowers the ignition temperature in air to 228°C and increases the sensitivity of air-dust mixtures. Heats up spontaneously and ignites with combustibles. Incompatible with water. When heated to decomposition or in reaction with acid or acid fumes it emits very toxic fumes of SO_x. See also IRON COMPOUNDS, SULFIDES, and HYDROGEN SULFIDE.

IGW000 HR: 3

IRON DUST

PROP: Silvery-white, tenacious, lustrous, ductile metal. Mp: 1535°, bp: 3000°, d: 7.86, vap press: 1 mm @ 1787°. Iron dust from open hearth furnace contained 52% iron (85AGAF -,480,76).

SAFETY PROFILE: Iron dust can cause conjunctivitis, choroiditis, retinitis, and siderosis of tissues if iron contacts and remains in these tissues. Iron ore dust can cause palpebral conjunctivitis, massive pulmonary fibrosis, and an increased incidence of lung cancer. Questionable carcinogen with experimental neoplastigenic data.

Flammable in the form of dust when exposed to heat or flame. Reacts violently with Cl₂, ClF₃, F₂, H₂O₂, NO₂, P, Na₂C₂, H₂SO₄, air, water, polystyrene. Moderately explosive in the form of dust when exposed to heat or flame. To fight fire, use special mixtures of dry chemical. See also IRON.

IGW500 CAS: 79-69-6 HR: 2

α-IRONE

mf: C₁₄H₂₂O mw: 206.36

SYNS: 3-BUTEN-2-ONE, 4-(2,5,6,6-TETRAMETHYL-2-CYCLOHEXEN-1-YL)-(9CI) □ 4-(2,5,6,6-TETRAMETHYL-2-CYCLO-HEXEN-1-YL)-3-BUTEN-2-ONE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IGX000 CAS: 21393-59-9 HR: 3

IRON(II) EDTA COMPLEX

mf: C₁₀H₁₂FeN₂O₈•2H mw: 346.11

TOXICITY DATA with REFERENCE:

ipr-mus LD50:40 mg(Fe)/kg PABIAQ 11,853,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x. See also IRON COMPOUNDS.

**IGX550 CAS: 15275-07-7 HR: 3
IRON(III)-EDTA COMPLEX**

mf: C₁₀H₁₂FeN₂O₈ mw: 344.09

SYNS: FERRIC VERSENATE □ FERRATE(1-), ((ETHYLENEDI-NITRILIO)TETRAACETATO)- □ IRON EDTA □ IRON(III)-EDTA

TOXICITY DATA with REFERENCE:

ipr-mus LD50:130 mg/kg PABIAQ 11,853,1963

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

**IGX875 CAS: 21626-24-4 HR: 3
IRON(III)-EDTA SODIUM**

mf: C₁₀H₁₂FeN₂O₈•2Na mw: 390.07

SYN: EDTA FERRIC SODIUM SALT

TOXICITY DATA with REFERENCE:

cyt-ham:ovr 2 mmol/L CNREA8 41,1628,81

orl-mus LD50:3305 mg/kg ARZNAD 24,880,74

ipr-mus LD50:264 mg/kg ARZNAD 24,880,74

ivn-mus LD50:264 mg/kg ARZNAD 24,880,74

ims-mus LD50:1190 mg/kg ARZNAD 24,880,74

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and intramuscular routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and Na₂O. See also IRON COMPOUNDS.

**IGY000 CAS: 14038-43-8 HR: 3
IRON(III) HEXACYANOFERRATE(4-)**

mf: C₁₈Fe₃N₁₈•4Fe mw: 859.31

Fe₄[Fe(CN)₆]₃

SYNS: FERRATE(4-), HEXAKIS(CYANO-C)-, IRON(3+) (3:4), (OC-6-11)-(9CI) □ FERRIC FERROCYANIDE □ FERRIC HEXACYANOFERRATE (II) □ FERRIHEXACYANOFERRATE □ FERROCIN □ FERROTSIN □ IRON BLUE □ IRON CYANIDE □ IRON (III) FERROCYANIDE □ IRON(3+) FERROCYANIDE □ MILORI BLUE □ PRUSSIAN BLUE □ TETRAIRON TRIS(HEXACYANOFERRATE)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:2100 mg/kg GTPZAB 35(1),35,91

itr-rat LDLo:250 mg/kg GTPZAB 35(1),35,91

ipr-mus LD50:2 g/kg GTPZAB 35(1),35,91

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(CN)/m³/10M

SAFETY PROFILE: A poison by intratracheal route. Moderately toxic by intraperitoneal route. Mixture with blown castor oil + tukey red oil (sulfonated castor oil) may ignite spontaneously in air. Reaction with ethylene oxide forms a product which ignites spontaneously in air. May ignite spontaneously in storage with lead chromate. When

heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also IRON COMPOUNDS.

**IHA000 HR: 2
IRON(III)HYDROXIDE-POLYMALTOSE**

SYN: EISEN-III-HYDROXID-POLYMALTOSE (GERMAN)

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data by implant. See also IRON COMPOUNDS.

**IHA050 HR: D
IRON LINOLEATE**

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

**IHB675 CAS: 7705-12-6 HR: 3
IRON(II) MALEATE**

mf: C₄H₂FeO₄ mw: 169.90

Fe(—OCO•CH)₂

SAFETY PROFILE: When dispersed in the air the powder ignites above 150°C. It has been involved in industrial fires. When heated to decomposition it emits acrid smoke and fumes. See also IRON COMPOUNDS.

**IHB677 CAS: 12645-49-7 HR: D
IRON MANGANESE ZINC OXIDE**

PROP: Dark black, metallic luster, opaque crystals. D: 5.0–5.2.

SYNS: MANAGANESE ZINC FERRITE □ MANGANESE ZINC FERRATE □ MANGANESE ZINC FERRITE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of manganese and zinc.

**IHB680 CAS: 33972-75-7 HR: D
IRON METHANEARSONATE**

mf: CH₅AsO₃•xFe mw: 530.93

SYNS: ARSONIC ACID, METHYL-, IRON SALT (9CI) □ METHANEARSONIC ACID, IRON SALT

TOXICITY DATA with REFERENCE:

mno-sat 5 mg/plate MUREAV 116,185,83

OSHA PEL: TWA 0.5 mg(As)/m³

ACGIH TLV: BEI: 35 μ (As)/L inorganic arsenic and methylated metabolites in urine

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of As.

**IHB700 HR: D
IRON NAPHTHENATE**

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

**IHB800 CAS: 12645-50-0 HR: 3
IRON NICKEL ZINC OXIDE**

SYNS: NICKEL ZINC FERRATE □ NICKEL ZINC FERRITE □ 1000 NN FERRITE

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 1 mg(Ni)/m³

SAFETY PROFILE: Confirmed human carcinogen. An experimental teratogen. Experimental reproductive effects.

IHB900 CAS: 10421-48-4 HR: 2
IRON (III) NITRATE, ANHYDROUS

DOT: UN 1466

mf: N₃O₉•Fe mw: 241.88

SYNS: FERRIC NITRATE □ FERRIC NITRATE (DOT) □ IRON NITRATE □ IRON TRINITRATE □ NITRIC ACID, IRON(3+) SALT

TOXICITY DATA with REFERENCE:

oth-esc 1250 nmol/tube LAMEDS 6,252,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 1 mg(Fe)/m³

DOT CLASSIFICATION: 5.1; Label: Oxidizer

SAFETY PROFILE: Mutation data reported. A reactive oxidizer. When heated to decomposition it emits toxic vapors of NO_x.

IHC000 CAS: 7782-61-8 HR: 2
IRON(III) NITRATE, NONAHYDRATE (1:3:9)

mf: N₃O₉•Fe•9H₂O mw: 404.06

PROP: Colorless to pale violet deliquescent crystal from water; gives brown solution. Mp: 47.2°. Sol in H₂O, EtOH, Me₂CO; stly sol in HNO₃. Source of [Fe(OH₂)₆]³⁺ in aq soln.

SYNS: FERRIC NITRATE, NONAHYDRATE □ NITRIC ACID, IRON (3+) SALT, NONAHYDRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3250 mg/kg AIHAAP 30,470,69

OSHA PEL: TWA 1 mg(Fe)/m³

ACGIH TLV: TWA 1 mg(Fe)/m³

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES and IRON COMPOUNDS.

IHC100 CAS: 16448-54-7 HR: 2
IRON NITRILOTRIACETATE

mf: C₆H₆FeNO₆ mw: 243.98

PROP: Sol in water.

SYNS: ACETIC ACID, NITRILOTRI-, IRON(III) chelate □ FERRIC NITRILOTRIACETATE □ IRON, (N,N-BIS(CARBOXYMETHYL)-GLYCINATO(3-)-N,O,O',O''), (T-4)-(9CI) □ IRON-NITRILOTRIACETATE CHELATE □ IRON(3+) NTA

TOXICITY DATA with REFERENCE:

cyt-ham:ovr 2 mmol/L CNREA8 41,1628,81

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

IHC450 CAS: 1309-37-1 HR: 3
IRON OXIDE

mf: Fe₂O₃ mw: 159.70

PROP: Dark-red powder. Insol in H₂O. IDLH 2500 mg/m³ (as Fe).

SYNS: ANCHRED STANDARD □ ANHYDROUS IRON OXIDE

□ ANHYDROUS OXIDE of IRON □ ARMENIAN BOLE □ BAUXITE RESIDUE □ BLACK OXIDE of IRON □ BLENDED RED OXIDES of IRON □ BURNTISLAND RED □ BURNT SIENNA □ BURNT UMBER □ CALCOTONE RED □ CAPUT MORTUUM □ C.I. 77491 □ C.I. PIGMENT RED 101 □ COLCOTHAR □ COLLOIDAL FERRIC OXIDE □ CROCUS MARTIS ADSTRINGENS □ DEANOX □ EISENOXYD □ ENGLISH RED □ FERRIC OXIDE □ FERRUGO □ INDIAN RED □ IRON(III) OXIDE □ IRON OXIDE RED □ IRON SESQUIOXIDE □ JEWELER'S ROUGE □ LEVANOX RED 130A □ LIGHT RED □ MANUFACTURED IRON OXIDES □ MARS BROWN □ MARS RED □ NATURAL IRON OXIDES □ NATURAL RED OXIDE □ OCHRE □ PRUSSIAN BROWN □ RADDLE □ 11554 RED □ RED IRON OXIDE □ RED OCHRE □ ROUGE □ RUBIGO □ SIENNA □ SPECULAR IRON □ STONE RED □ SUPRA □ SYNTHETIC IRON OXIDE □ VENETIAN RED □ VITRIOL RED □ VOGEL'S IRON RED □ YELLOW FERRIC OXIDE □ YELLOW OXIDE of IRON

TOXICITY DATA with REFERENCE:

ipr-rat LD50:5500 mg/kg GTPZAB 26(4),23,82

ipr-mus LD50:5400 mg/kg GTPZAB 26(4),23,82

scu-dog LDLo:30 mg/kg HBAMAK 4,1289,35

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,216,87; Human Limited Evidence IMEMDT 1,29,72; Animal No Evidence IMEMDT 1,29,72. Reported in EPA TSCA Inventory.

OSHA PEL: Dust and Fume: TWA 10 mg(Fe)/m³; Rouge: TWA Total Dust: 10 mg/m³; Respirable Fraction: 5 mg/m³

ACGIH TLV: TWA 5 mg(Fe)/m³ (vapor, dust); Not Classifiable as a Human Carcinogen; Rouge: 10 mg/m³; Not Classifiable as a Human Carcinogen

DFG MAK: 1.5 mg/m³ calculated as fine dust

NIOSH REL: (Iron Oxide, Dust and Fume) TWA 5 mg/m³

SAFETY PROFILE: A poison by subcutaneous route. Questionable carcinogen with experimental tumorigenic data. Catalyzes the potentially explosive polymerization of ethylene oxide. Explosive reaction when heated with guanidinium perchlorate. Reaction with carbon monoxide may form an explosive product. Potentially violent reaction with hydrogen peroxide. The wet oxide reacts explosively with molten aluminum-magnesium alloys. Violent reaction when heated with powdered aluminum, calcium disilicide, magnesium, metal acetylides (e.g., calcium acetylide + iron(III) chloride (on ignition), cesium acetylide (incandescent reaction when warmed), rubidium acetylide). Reacts violently with Al, Ca(OC₂)₂, N₂H₄, ethylene oxide. See also IRON and IRON COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-125g.

IHC500 CAS: 1345-25-1 HR: 3
IRON(II) OXIDE

mf: FeO mw: 71.85

PROP: Black solid. Mp: 1420°. Insol in H₂O; sol in acids.

DFG MAK: 1.5 mg/m³ calculated as fine dust.

SAFETY PROFILE: Ignites when heated in air above 200°C. The powdered oxide may be pyrophoric. Incandescent or hazardous reaction with nitric acid (with

powdered oxide), hydrogen peroxide, sulfur dioxide + heat. See also IRON and IRON COMPOUNDS.

IHC550 CAS: 1309-38-2 HR: 3
IRON(II,III) OXIDE

mf: Fe_3O_4 mw: 231.54
 $\text{FeO} \cdot \text{Fe}_2\text{O}_3$

SYNS: 11557 BLACK □ BLACK GOLD F 89 □ BLACK IRON BM □ EPT 500 □ H 3S □ IRON BLACK □ KN 320 □ MAGNETIC BLACK □ MAGNETIC OXIDE □ MAGNETITE □ MERAMEC M 25 □ RB-BL □ TRIIRON TETRAOXIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mixtures with aluminum + calcium silicide + sodium nitrate may explode if ignited. Mixtures with aluminum + sulfur react violently if heated. Ignites on contact with hydrogen trisulfide. See also IRON and IRON COMPOUNDS.

IHE000 HR: 3
IRON OXIDE, CHROMIUM OXIDE, and NICKEL OXIDE FUME

PROP: Fume composed of iron(+3) oxide:chromium(+3) oxide:nickel(+2)oxide, 6:1:1 (BJIMAG 29,169,72).

SYNS: CHROMIUM OXIDE, NICKEL OXIDE, and IRON OXIDE FUME □ NICKEL OXIDE, IRON OXIDE, and CHROMIUM OXIDE FUME

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds, as well as chromium and its compounds, are on the Community Right-To-Know List.

OSHA PEL: TWA 1 mg(Ni)/m³; CL 0.1 mg (CrO₃)/m³

ACGIH TLV: TWA 1 mg(Ni)/m³; TWA 0.05 mg(Ni)/m³; Confirmed Human Carcinogen

NIOSH REL: (Chromium (VI)) TWA 0.025 mg(Cr(VI))/m³; CL 0.05/15M; (Inorganic Nickel) TWA 0.015 mg(Ni)/m³

SAFETY PROFILE: Confirmed human carcinogen. See also individual components; NICKEL COMPOUNDS, IRON COMPOUNDS, and CHROMIUM COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: chromium hexavalent 7024.

IHF000 CAS: 1309-37-1 HR: 2
IRON OXIDE FUME

mf: Fe_2O_3 mw: 159.70
SYN: ZELAZA TLENKI (POLISH)

OSHA PEL: TWA 10 mg/m³

ACGIH TLV: TWA 5 mg/m³, welding fumes

SAFETY PROFILE: Questionable carcinogen.

IHG000 CAS: 8047-67-4 HR: 3
IRON OXIDE, SACCHARATED

PROP: Saccharated oxide of iron (JNCIAM 24,109,60).

SYNS: COLLIRON I.V. □ FEOJECTIN □ FERRIC OXIDE, SACCHARATED □ FERRIC SACCHARATE IRON OXIDE (MIX.) □ FERRIVENIN □ IRON SACCHARATE □ IRON SUGAR □ IVIRON □ NEO-FERRUM □ PROFERRIN □ SACCHARATED FERRIC OXIDE □ SACCHARATED IRON □ SUCROFER

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg NIIRDN 6,193,82

CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 2,161,73.

SAFETY PROFILE: Confirmed carcinogen with experimental neoplastigenic and tumorigenic data. A poison by intravenous route. See also IRON COMPOUNDS.

IHG100 CAS: 1332-37-2 HR: 3
IRON OXIDE, spent

DOT: UN 1376

SYNS: FERROUS FERRITE □ IRON OXIDE □ IRON OXIDE RED 130B □ IRON SPONGE, spent obtained from coal gas purification (DOT) □ MIO 40GN □ SIFERRIT

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 4.2; Label: Spontaneously Combustible

SAFETY PROFILE: Flammable solid. Keep away from sparks and flames.

IHG500 CAS: 13463-40-6 HR: 3
IRON PENTACARBONYL

DOT: UN 1994

mf: C_5FeO_5 mw: 195.90
 Fe(OC)_5

PROP: Yellow to dark-red viscous liquid. Mp: -25°, Fp: -20° (to -19°), bp: 103.0°, flash p: 5°F, d: 1.453 @ 25°/4°, vap press: 40 mm @ 30.3°. Sol in hexane.

SYNS: FER PENTACARBONYLE (FRENCH) □ IRON CARBONYL □ PENTACARBONYLIRON

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:33 ppm/5.5H BJIMAG 27,1,70

ihl-mus LC50:7 g/m³/10M NTIS** PB158-508

orl-rbt LD50:12 mg/kg JIHTAB 25,415,43

ihl-rbt LCLo:250 ppm/45M 34ZIAG -,335,69

skn-rbt LD50:240 mg/kg 34ZIAG -,335,69

scu-rbt LD50:240 mg/kg JIHTAB 25,415,43

ivn-rbt LD50:11 mg/kg JIHTAB 25,415,43

orl-gpg LD50:22 mg/kg JIHTAB 25,415,43

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 ppm (Fe); STEL 0.2 ppm

ACGIH TLV: TWA 0.1 ppm (Fe); STEL 0.2 ppm

DFG MAK: 0.1 ppm (0.81 mg/m³)

DOT CLASSIFICATION: 6.1; Label: Poison, Flammable Liquid

SAFETY PROFILE: A poison by inhalation, skin contact, ingestion, subcutaneous, and intravenous routes. Inhalation causes dizziness, nausea, and vomiting. If continued, unconsciousness follows. Often there is a delayed reaction of chest pain, cough, and difficult breathing. There may be cyanosis and circulatory collapse. In fatal cases, death occurs from the fourth to eleventh day with pneumonitis and injury to kidneys, liver, and brain. Iron carbonyl is less toxic than nickel carbonyl.

A very dangerous fire and moderate explosion hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Warning: pyrophoric in air. Mixtures with nitrogen oxide explode above 50°C.

Violent reaction with zinc + transition metal halides (e.g., cobalt halides, rhodium halides, ruthenium halides). Mixtures with acetic acid + water produce a pyrophoric powder. To fight fire, use water, foam, CO₂, dry chemical. See also CARBONYLS and IRON COMPOUNDS.

IHH000 **CAS: 73361-47-4** **HR: 2**

IRON-POLYSACCHARIDE COMPLEX

PROP: Solution of iron and synthetically prepared polysaccharide with a mean molecular weight of about 20,000 (BJCAAI 21,448,67).

SYN: MUSCULARON

TOXICITY DATA with REFERENCE:

ipr-mus LD50:318 mg(Fe)/kg AJMSA9 241,296,61

ivn-mus LD50:170 mg(Fe)/kg BJCAAI 241,296,61

SAFETY PROFILE: A poison by intravenous and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes. See also IRON COMPOUNDS.

IHH300 **CAS: 73361-47-4** **HR: 2**

IRON-POLY(SORBITOL-GLUCONIC ACID) COMPLEX

TOXICITY DATA with REFERENCE:

ivn-rat LD50:920 mg(Fe)/kg SJHSBD 32,58,77

scu-mus LD50:2098 mg(Fe)/kg SJHSBD 32,58,77

ivn-mus LD50:1160 mg(Fe)/kg SJHSBD 32,58,77

SAFETY PROFILE: Moderately toxic by intravenous and subcutaneous routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits acrid smoke and fumes. See also IRON COMPOUNDS.

IHJ000 **CAS: 50645-52-8** **HR: 3**

IRON-SILICON

mf: Fe-Si mw: 83.93

SYN: FERROSILICON

SAFETY PROFILE: Dangerously flammable and explosive when ground. Incandescent reaction with solid sodium hydroxide when water is added. Incompatible with water, causing evolution of poisonous arsine; combustible acetylene; and spontaneously flammable phosphine, due to impurities. See also IRON COMPOUNDS.

IHK000 **CAS: 62765-90-6** **HR: 2**

IRON SODIUM GLUCONATE

SYNS: FERRIC SODIUM GLUCONATE COMPLEX □ OSMOFERRIN

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. When heated to decomposition it emits toxic fumes of Na₂O. See also IRON COMPOUNDS.

IHK100 **CAS: 62765-90-6** **HR: 3**

IRON-SORBITOL

SYN: JECTOFER

TOXICITY DATA with REFERENCE:

ipr-mus LD50:25 mg(Fe)/kg NNAPBA 270(Suppl),R50,71

ivn-mus LD50:44 mg(Fe)/kg BJPCAL 27,114,66

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. An experimental teratogen. When heated to decomposition it emits acrid smoke and fumes. See also IRON COMPOUNDS.

IHL000 **CAS: 1338-16-5** **HR: 3**

IRON SORBITOL CITRATE

mf: C₆H₁₄O₆•C₆H₈O₇•xFe mw: 765.29

SYNS: ESZ □ IRON SORBITE □ IRON-SORBITOL-CITRIC ACID

TOXICITY DATA with REFERENCE:

orl-mus LD50:1370 mg/kg ARZNAD 24,880,74

scu-mus LD50:140 mg/kg ARZNAD 20,1795,70

ivn-mus LD50:174 mg/kg ARZNAD 20,1795,70

ims-mus LD50:918 mg/kg ARZNAD 24,880,74

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal No Evidence IMEMDT 2,161,73.

OSHA PEL: TWA 1 mg(Fe)/m³

ACGIH TLV: TWA 1 mg(Fe)/m³

SAFETY PROFILE: A poison by subcutaneous and intravenous routes. Moderately toxic by ingestion and intramuscular routes. Questionable carcinogen. When heated to decomposition it emits acrid smoke and fumes. See also IRON COMPOUNDS.

IHN000 **CAS: 1317-37-9** **HR: 3**

IRON(II) SULFIDE

mf: FeS mw: 87.91

PROP: Brown-black solid; colorless when pure. Mp: 1195°. Sol in acids; insol in H₂O.

SAFETY PROFILE: Use of steel equipment in conjunction with materials containing hydrogen sulfide or volatile sulfur compounds will cause it to spontaneously explode in air. The moist sulfide may react incandescently with air. The impure sulfide ignites spontaneously in air. Violent reaction with lithium when heated above 260°C. When heated to decomposition it emits toxic fumes of SO_x. See also IRON COMPOUNDS and SULFIDES.

IHN050 **CAS: 12063-27-3** **HR: 3**

IRON(III) SULFIDE

mf: Fe₂S₃ mw: 207.87

PROP: Amorphous black powder. Insol.

SAFETY PROFILE: Flammable when heated. When heated to decomposition it emits toxic fumes of SO_x. See also IRON COMPOUNDS and SULFIDES.

IHN075 **CAS: 118-48-9** **HR: D**

IRON TALLATE

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

IHN200 **CAS: 118-48-9** **HR: D**

ISATOIC ACID ANHYDRIDE

mf: C₈H₅NO₃ mw: 163.14

PROP: Crystals from EtOH or dioxan. Mp: 243° (decomp).

SYNS: 2H-3,1-BENZOXAZINE-2,4(1H)-DIONE □ IA □ ISATOIC ANHYDRIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**IHN300 CAS: 68000-78-2 HR: 3
ISEPAMICIN DISULFATE**

mf: C₂₂H₄₃N₅O₁₂•2H₂O₄S mw: 765.86

SYN: d-STREPTAMINE, o-6-AMINO-6-DEOXY-α-d-GLUCO-PYRANOSYL-(1-4)-o-(3-DEOXY-4-C-METHYL-3-(METHYL-AMINO)-β-1-ARABINOPYRANOSYL-(1-6))-N¹-(3-AMINO-2-HYDROXY-1-OXOPROPYL)-2-DEOXY-, (S)-, SULFATE (1:2) (SALT)

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg IYKEDH 19,544,1988
ipr-rat LD50:1591 mg/kg IYKEDH 19,544,1988
scu-rat LD50:3392 mg/kg IYKEDH 19,544,1988
ivn-rat LD50:476 mg/kg IYKEDH 19,544,1988
ims-rat LD50:2111 mg/kg IYKEDH 19,544,1988
orl-mus LD50:>5 g/kg IYKEDH 19,544,1988
ipr-mus LD50:2244 mg/kg IYKEDH 19,544,1988
scu-mus LD50:3321 mg/kg IYKEDH 19,544,1988
ivn-mus LD50:234 mg/kg IYKEDH 19,544,1988
ims-mus LD50:2508 mg/kg IYKEDH 19,544,1988
ivn-dog LD50:720 mg/kg IYKEDH 19,544,1988
ims-dog LD50:>1800 mg/kg IYKEDH 19,544,1988

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by intraperitoneal, subcutaneous, and intramuscular routes. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

**IHO200 CAS: 10075-36-2 HR: 3
ISOAMINILE CYCLAMATE**

mf: C₁₆H₂₄N₂•C₆H₁₃NO₃S mw: 423.68

SYNS: α-(ISOPROPYL)-α-β-DIMETHYLAMINOPROPYL)PHENYLACETONITRILE CYCLAMATE □ MUCALAN

TOXICITY DATA with REFERENCE:

orl-rat LD50:270 mg/kg KSRNAM 5,2212,71
scu-rat LD50:138 mg/kg KSRNAM 5,2212,71
orl-mus LD50:298 mg/kg KSRNAM 5,2212,71
ivn-mus LD50:57 mg/kg KSRNAM 5,2212,71

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

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

**IHO700 CAS: 51371-34-7 HR: D
ISOAMYGDALIN**

mf: C₂₀H₂₇N₃O₁₁ mw: 457.48

SYNS: d,l-AMYGDALIN □ d,l-MANDELONITRILE-β-d-GLUCOSIDO-6-β-GLUCOSIDE □ NSC-251222

TOXICITY DATA with REFERENCE:

ipr-rat LD50:19,582 mg/kg NTIS** PB288-558

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

SAFETY PROFILE: An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x and CN⁻.

**IHO850 CAS: 123-92-2 HR: 3
ISOAMYL ACETATE**

mf: C₇H₁₄O₂ mw: 130.21

PROP: Colorless liquid; banana-like odor. Bp: 142.0°, ULC: 55–60, lel: 1% @ 212°F, uel: 7.5%, flash p: 77°F, d: 0.876, refr index: 1.400, autoign temp: 680°F, vap d: 4.49. Misc in alc, ether, ethyl acetate, fixed oils; sltly sol in water; insol in glycerin, propylene glycol. IDLH 1000 ppm.

SYNS: ACETIC ACID, ISOPENTYL ESTER □ BANANA OIL □ FEMA No. 2055 □ ISOAMYL ETHANOATE □ ISOPENTYL ACETATE □ ISOPENTYL ALCOHOL ACETATE □ 3-METHYLBUTYL ACETATE □ 3-METHYL-1-BUTYL ACETATE □ 3-METHYLBUTYL ETHANOATE □ PEAR OIL

TOXICITY DATA with REFERENCE:

orl-rat LD50:16,600 mg/kg YKYUA6 32,1241,81
ihl-cat LCLo:35 g/m³ AGGHAR 5,1,33
orl-rbt LD50:7422 mg/kg IMSUAI 41,31,72
scu-gpg LDLo:5000 mg/kg AGGHAR 5,1,33

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 100 ppm

ACGIH TLV: TWA 150 ppm

DFG MAK: 50 ppm

SAFETY PROFILE: Mildly toxic by ingestion, inhalation, and subcutaneous routes. Exposure to concentrations of about 1000 ppm for 1 hour can cause headache, fatigue, pulmonary irritation, and serious toxicity effects. Highly flammable liquid when exposed to heat or flame; can react vigorously with reducing materials. Moderately explosive in the form of vapor when exposed to heat or flame. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Esters I, 1450.

**IHP000 CAS: 123-51-3 HR: 3
ISOAMYL ALCOHOL**

mf: C₅H₁₂O mw: 88.17

(CH₃)₂CHC₂H₄OH

PROP: Clear liquid; pungent, repulsive taste. Bp: 132°, ULC: 35–40, lel: 1.2%, uel: 9.0% @ 212°F, flash p: 109°F (CC), d: 0.813, autoign temp: 662°F, vap d: 3.04, mp: -117.2°. Sol in water @ 14°; misc in alc and ether. IDLH 500 ppm.

SYNS: ALCOOL AMILICO (ITALIAN) □ ALCOOL ISOAMYL-IQUE (FRENCH) □ AMYLOWY ALKOHOL (POLISH) □ FERMENTATION AMYL ALCOHOL □ ISOAMYL ALKOHOL (CZECH) □ ISO-AMYLALKOHOL (GERMAN) □ ISOAMYLOL □ ISOBUTYLCARBINOL □ ISOPENTANOL □ ISOPENTYL ALCOHOL □ 2-METHYL-4-BUTANOL □ 3-METHYL BUTANOL □ 3-METHYLBUTAN-1-OL □ 3-METHYL-1-BUTANOL (CZECH) □ 3-METIL-BUTANOLO (ITALIAN)

TOXICITY DATA with REFERENCE:

eye-hmn 150 ppm JIHTAB 25,282,43
skn-rbt 20 mg/24H MOD 85JCAE -,196,86
eye-rbt 20 mg/24H MOD 28ZPAK -,36,72

ihl-hmn TClO:150 ppm:NOSE,EYE,PUL JIHTAB 25,282,43

orl-rat LD50:1300 mg/kg SAMJAF 43,795,69
 ipr-rat LDLo:813 mg/kg AEPPAE 132,214,28
 ipr-mus LDLo:233 mg/kg FCTXAV 16,785,78
 scu-mus LDLo:7480 mg/kg FCTXAV 16,785,78
 ivn-mus LD50:234 mg/kg AIPTAK 135,330,62
 ivn-cat LDLo:210 mg/kg FCTXAV 16,785,78
 orl-rbt LD50:3438 mg/kg IMSUAI 41,31,72
 skn-rbt LD50:3212 mg/kg AIHAAP 30,470,69
 ivn-rbt LDLo:1570 mg/kg FCTXAV 16,785,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 100 ppm; STEL 125 ppm

ACGIH TLV: TWA 100 ppm; STEL 125 ppm

DFG MAK: 100 ppm (370 mg/m³)

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and skin contact. A skin and human eye irritant. Human systemic effects by inhalation: olfactory effects, conjunctiva irritation, respiratory changes. Questionable carcinogen with experimental carcinogenic data. Flammable liquid when exposed to heat or flame; can react vigorously with reducing materials. Slight explosion hazard when exposed to flame. Explosive reaction with hydrogen trisulfide. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes. Used as a flotation agent, a solvent, and in organic synthesis.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Alcohols III, 1402.

IHP010 CAS: 584-02-1 HR: 3
ISOAMYL ALCOHOL

mf: C₅H₁₂O mw: 88.17

PROP: Liquid; acetone-like odor. Bp: 115.6°, d: 0.815 @ 25°/4°, flash p: 66°F, lel: 1.2%, uel: 9%. Sol in alc, ether; sltly sol in water.

SYNS: DIETHYL CARBINOL □ DIETHYL CARBINOL □ 3-PENTANOL □ PENTANOL-3 □ PENTAN-3-OL

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 10,61,54
 eye-rbt 5 mg open SEV AMIHBC 10,61,54
 orl-rat LD50:1870 mg/kg AMIHBC 10,61,54
 ipr-rat LDLo:1950 mg/kg JIHTAB 27,1,45
 skn-rbt LD50:2520 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 100 ppm; STEL 125 ppm

ACGIH TLV: TWA 100 ppm; STEL 125 ppm

DFG MAK: 100 ppm (360 mg/m³)

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and intraperitoneal routes. A severe eye and mild skin irritant. Dangerous fire and explosion hazard when exposed to heat, flame, or oxidizing materials. Used as a flotation agent, a solvent, and in organic synthesis. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.

IHP100 CAS: 94-46-2 HR: 2
ISOAMYL BENZOATE

mf: C₁₂H₁₆O mw: 176.28

PROP: Colorless to pale-yellow liquid; pungent, fruity odor. D: 0.986–0.992, refr index: 1.492, flash p: 212°F.

SYNS: AMYL BENZOATE □ BENZOIC ACID, 1-(3-METHYL)BUTYL ESTER □ FEMA No. 2058 □ ISOPENTYL BENZOATE □ 1-(3-METHYL)BUTYL BENZOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 11,1079,73

orl-rat LD50:6330 mg/kg FCTXAV 11,477,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

IHP400 CAS: 106-27-4 HR: 3
ISOAMYL BUTYRATE

mf: C₉H₁₈O₂ mw: 158.24

PROP: Colorless liquid; fruity odor. D: 0.860, refr index: 1.409–1.414, flash p: 149°F. Sol in alc, fixed oils; insol in glycerin, propylene glycol, water @ 179°.

SYNS: BUTANOIC ACID, 3-METHYLBUTYL ESTER (9CI) □

FEMA No. 2060 □ ISOAMYL BUTANOATE □ ISOAMYL BUTYLATE □ ISOAMYL-n-BUTYRATE □ ISOPENTYL BUTANOATE □ ISOPENTYL BUTYRATE □ 3-METHYLBUTYL BUTYRATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,823,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. Flammable liquid when exposed to heat, sparks, or flame. When heated to decomposition it emits acrid smoke and irritating fumes.

IHP500 CAS: 2035-99-6 HR: 2
ISOAMYL CAPRYLATE

mf: C₁₃H₂₆O₂ mw: 214.39

PROP: Colorless to pale yellow translucent liquid with fresh fruity, apple-pineapple, green sweet aroma. D: 0.838–0.878 @ 25°, bp: 222°. Flash pt: 85° (closed cup). Sol in water.

SYNS: ISOAMYL OCTANOATE □ ISOPENTYL OCTANOATE □ OCTANOIC ACID, ISOPENTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 17,827,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IHQ000 CAS: 543-86-2 HR: D
ISOAMYL CARBAMATE

mf: C₆H₁₃NO₂ mw: 131.20

PROP: White or sltly yellowish crystal leaflets. Mp: 59°, bp: 220°+. Sltly sol in cold water; sol in boiling water, alc and ether.

SYNS: CARBAMATE (ISOAMYL) □ ISOAMYL AMINOFORMATE □ 3-METHYL-1-BUTANOL CARBAMATE

TOXICITY DATA with REFERENCE:

mmo-esc 3000 ppm/3H AMNTA4 85,119,51

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

IHQ100 CAS: 64049-23-6 HR: 2
ISOAMYLDICHLOROARSINE

mf: C₅H₁₁AsCl₂ mw: 216.98

SYNS: ARSINE, DICHLOROISOPENTYL- □ B-343 □ ISOAMYLDICHLORARSINE

TOXICITY DATA with REFERENCE:ihl-mus LC50:2 g/m³/10M NTIS** PB158-508**OSHA PEL:** TWA 0.5 mg(As)/m³

SAFETY PROFILE: Moderately toxic by inhalation. When heated to decomposition it emits toxic fumes of As and Cl₂.

IHR200 CAS: 73080-51-0 HR: 2
ISOAMYL 5,6-DIHYDRO-7,8-DIMETHYL-4,5-DIOXO-4H-PYRANO(3,2-c)QUINOLINE-2-CARBOXYLATE

mf: C₂₀H₂₁NO₅ mw: 355.42**PROP:** Crystals from CHCl₃/hexane. Mp: 236–241°.

SYNS: MY-5116 □ 4H-PYRANO(3,2-c)QUINOLINE-2-CARBOXYLIC ACID, 5,6-DIHYDRO-7,8-DIMETHYL-4,5-DIOXO-, ISOPENTYL ESTER

TOXICITY DATA with REFERENCE:

orl-rbt TDLo:5200 mg/kg (female 6-18D post):TER
 IYKEDH 17,51,86

orl-rbt TDLo:5200 mg/kg (female 6-18D post):REP
 IYKEDH 17,51,86

ipr-rat LD50:2783 mg/kg IYKEDH 19,164,88

ipr-mus LD50:1435 mg/kg IYKEDH 19,164,88

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

IHR220 CAS: 26760-64-5 HR: 3
ISOAMYLENE
DOT: UN 2371

mf: C₅H₁₀ mw: 70.15

PROP: Liquid; disagreeable odor. Mp: –124°, bp: 30.1°, lel: 1.6%, uel: 8.7%, flash p: 0°F (OC), d: 0.643, vap d: 2.42, autoign temp: 527°F.

SYNS: tert-AMYLENE □ ISOPENTENE □ ISOPENTENES (DOT) □ METHYLBUTENE □ 2-METHYLBUTENE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion and inhalation. Narcotic in high concentration. A simple asphyxiant. Extremely flammable. Moderately explosive when exposed to heat, flame, or powerful oxidizers. To fight fire, use alcohol foam, spray, mist, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

IHR300 CAS: 482-44-0 HR: 2
8-ISOAMYLENOXYPSORALEN
 mf: C₁₆H₁₄O₄ mw: 270.30

PROP: From roots of *Imperatoria osthuthium* L., *Umbelliferae*. Prisms from ether, long fine needles from hot water. Mp: 102°. Practically insol in cold water; very sparingly sol in boiling water; freely sol in chloroform; sol in benzene, alc, ether, petrol ether, alkali hydroxides.

SYNS: AMMIDIN □ IMPERATORIN □ 8-ISOPENTENYLOXY-PSORALENE □ MARMELOSIN □ 9-((3-METHYL-2-BUTENYL)-OXY)-7H-FURO(3,2-g)(1)BENZOPYRAN-7-ONE

TOXICITY DATA with REFERENCE:

cyt-hmn:lym 10 mg/L MUREAV 169,51,86

sce-hmn:lym 20 mg/L MUREAV 169,51,86

par-mus LDLo:600 mg/kg CBCCT* 7,689,55

SAFETY PROFILE: Moderately toxic by parenteral route. Human mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

IHS000 CAS: 110-45-2 HR: 3
ISOAMYL FORMATE

mf: C₆H₁₂O₂ mw: 116.18

PROP: Clear liquid; fruity odor. Bp: 123.3°, d: 0.877 @ 20°, refr index: 1.396, vap press: 10 mm @ 17.1°, flash p: 127°F. Misc with alc, ether, propylene glycol; very sltly sol in water; insol in glycerin.

SYNS: FEMA No. 2069 □ FORMIC ACID, ISOPENTYL ESTER □ ISOAMYL METHANOATE □ ISOPENTYL ALCOHOL, FORMATE □ ISOPENTYL FORMATE □ 3-METHYLBUTYL FORMATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,829,79

orl-rat LD50:9840 mg/kg FCTXAV 2,327,64

orl-rbt LD50:3020 mg/kg IMSUAI 41,31,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. This material is very irritating and can cause narcosis. The symptoms are usually transient in nature, but it is possible upon severe or prolonged exposure to have serious consequences. Flammable liquid when exposed to heat, sparks, or flame. Can react with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes.

IHS100 CAS: 68133-73-3 HR: 1
ISOAMYL GERANATE

mf: C₁₅H₂₆O₂ mw: 238.41

SYN: 2,6-OCTADIENOIC ACID, 3,7-DIMETHYL-, ISOPENTYL ESTER, (E)-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,831,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IHT000 CAS: 627-92-9 HR: 2
1-ISOAMYL GLYCEROL ETHER

mf: C₈H₁₈O₃ mw: 162.26

PROP: Colorless liquid. D: 0.987, bp: 260–262°, sol in water, misc in alc and ether.

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:1000 mg/kg CMDT** -,49

scu-mus LD50:2106 mg/kg JPETAB 93,470,48

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

IHU100 CAS: 2198-61-0 HR: 2
ISOAMYL HEXANOATE

mf: $C_{11}H_{22}O_2$ mw: 186.33

PROP: Colorless liquid; fruity odor. D: 0.858–0.863, refr index: 1.418–1.422, flash p: 190°F. Sol in alc, fixed oils; insol in glycerin, propylene glycol, water @ 222°.

SYNS: AMYL HEXANOATE □ FEMA No. 2075 □ ISOAMYL CAPROATE □ ISOAMYL HEXANOATE □ ISOPENTYL HEXANOATE □ ISOPENTYL-n-HEXANOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 17,825,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IHU200 CAS: 541-28-6 HR: 2
ISOAMYL IODIDE

mf: $C_5H_{11}I$ mw: 198.06

PROP: Colorless liquid.

SYNS: BUTANE, 1-iodo-3-methyl- □ 1-iodo-3-methyl-butane □ ISOPENTYL IODIDE □ 1-JOD-3-METHYLBUTAN □ 3-METHYLBUTYL IODIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1424 mg/kg 85JCAE -,127,86

ipr-rat LD50:1424 mg/kg 34ZIAG -,756,69

ipr-mus LD50:503 mg/kg 85GMAT -,77,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of I^- .

IHV000 CAS: 102-19-2 HR: 1
ISOAMYL PHENYLACETATE

mf: $C_{13}H_{18}O_2$ mw: 206.31

PROP: Cigarette additive.

SYNS: BENZENEACETIC ACID, 3-METHYLBUTYL ESTER (9CI) □ ISOPENTYLPHENYLACETATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,637,78

mrc-bcs 20 µg/disc OEKSDJ 9,177,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IHV050 CAS: 56011-02-0 HR: 1
ISOAMYL PHENYLETHYL ETHER

mf: $C_{13}H_{20}O$ mw: 192.33

PROP: Odor of chamomile, or pineapple.

SYNS: ANTHER □ BENZENE, (2-(3-METHYLBUTOXY)-ETHYL)- □ (2-(3-METHYLBUTOXY)ETHYL)BENZENE □ PHENYLETHYL ISOAMYL ETHER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 21,873,83

orl-rat LD50:>5 g/kg FCTOD7 21,873,83

skn-rbt LD50:>5 g/kg FCTOD7 21,873,83

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.

IHX200 CAS: 1024-65-3 HR: 3
1-ISOAMYL THEOBROMINE

mf: $C_{12}H_{18}N_4O_2$ mw: 250.34

SYN: 1-ISOPENTYL-THEOBROMINE

TOXICITY DATA with REFERENCE:

orl-mus LD50:772 mg/kg JPETAB 116,343,56

ipr-mus LD50:222 mg/kg JPETAB 116,343,56

ivn-mus LD50:200 mg/kg JPETAB 86,113,46

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x . See also THEOBROMINE.

IHX400 CAS: 2883-98-9 HR: 2
trans-ISOASARONE

mf: $C_{12}H_{16}O_3$ mw: 208.28

PROP: Needles from pet ether. Mp: 62–63°, bp: 296°.

SYNS: ASARON □ ASARONE □ ASARONE, trans- □ α-ASARONE □ trans-ASARONE □ ASARUM CAMPHOR □ BENZENE, 1,2,4-TRIMETHOXY-5-PROPENYL-, (E)- □ BENZENE, 1,2,4-TRIMETHOXY-5-PROPENYL-, trans- □ ETHEROPHENOL

TOXICITY DATA with REFERENCE:

sce-hmn:lym 60 mg/L MUREAV 279,269,92

dns-rat:lv 500 µmol/L FCTOD7 32,223,94

ipr-mus TDLo:156 mg/kg:CAR CNREA8 47,2275,87

orl-mus LD50:418 mg/kg FATOAO 48(6),17,85

ipr-mus LD50:310 mg/kg FATOAO 48(6),17,85

ivn-mus LDLo:66 mg/kg YHTPAD 23,52,88

SAFETY PROFILE: Moderately toxic by ingestion, intravenous, and intraperitoneal routes. Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

IHX450 CAS: 68683-20-5 HR: 2
ISOBERGAMATE

mf: $C_{12}H_{18}O_2$ mw: 194.30

PROP: Fruity aroma.

SYNS: CYCLOHEXADIENE-1-ETHANOL, 4-(1-METHYLETHYL)-, FORMATE □ 2-(4-ISOPROPYLCYCLOHEXADIENYL)-ETHYL FORMATE □ MENTHADIENYL FORMATE □ 4-(1-METHYLETHYL)CYCLOHEXADIENE-1-ETHANOL FORMATE □ 4-(1-METHYLETHYL)CYCLOHEXADIENE-1-ETHYL FORMATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3568 mg/kg FCTOD7 30,75S,92

skn-rbt LD50:>5 g/kg FCTOD7 30,75S,92

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.

IHX500 CAS: 5331-32-8 HR: 1
ISOBORNEOL METHYL ETHER

mf: $C_{11}H_{20}O$ mw: 168.31

PROP: Fragrance and flavor uses.

SYNS: BICYCLO(2.2.1)HEPTANE, 2-METHOXY-1,7,7-TRIMETHYL-, exo- □ BORNANE, 2-METHOXY-, exo-(8CI) □ ISOBORNYL METHYL ETHER □ exo-2-METHOXYBORNANE □ exo-2-METHOXY-1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPTANE □ exo-2-METHOXY-1,7,7-TRIMETHYLNORBORNANE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5 g/kg FCTOD7 30,53S,92

skn-rbt LD50:>5 g/kg FCTOD7 30,53S,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.

IHX600 CAS: 125-12-2 HR: 2
ISOBORNYL ACETATE

mf: $C_{12}H_{20}O_2$ mw: 196.29

PROP: Colorless liquid; camphoraceous, piney, balsamic odor. D: 0.980, refr index: 1.462, flash p: 212°F. Sol in alc, fixed oils; sltly sol in propylene glycol; insol in water @ 227°.

SYN: BICYCLO(2.2.1)HEPTAN-2-OL, 1,7,7-TRIMETHYL-, ACETATE, EXO- □ FEMA No. 2160 □ ISOBORNYL ACETATE □ PICTOSIN □ PICTOSINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:9050 mg/kg TOVEFN (3),34,2000

orl-mus LD50:3100 mg/kg TOVEFN (3),34,2000

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

IHX700 CAS: 5888-33-5 HR: 2
ISOBORNYL ACRYLATE

mf: $C_{13}H_{20}O_2$ mw: 208.33

SYNS: ACRYLIC ACID, ISOBORNYL ESTER □ AL-CO-CURE IBA □ EBECRYL IBOA □ IBOA □ exo-ISOBORNYL ACRYLATE □ LIGHT ACRYLATE IB-XA □ 2-PROPENOIC ACID, 1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPT-2-YL ESTER, exo- □ QM 589 □ SARTOMER 506 □ SR 506 □ SR 506 (ACRYLATE)

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL MOD NTIS** OTS0536067

eye-rbt 100 µL MLD NTIS** OTS0536067

orl-rat LD50:4890 mg/kg NTIS** OTS0536067

skn-rbt LD50:>5 g/kg NTIS** OTS0536067

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. A moderate skin and mild eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

IHY000 CAS: 124-76-5 HR: 3
ISOBORNYL ALCOHOL

mf: $C_{10}H_{18}O$ mw: 154.28

PROP: A geometrical isomer of borneol. White solid, camphor odor, more sol in most solvents than borneol. Mp: 216° (subl).

SYNS: ISOBORNEOL □ dl-ISOBORNEOL □ ISOCAMPHOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,509,79

orl-rat LD50:5200 mg/kg FCTXAV 17,509,79

ivn-mus LD50:56 mg/kg CSLNX* NX#03209

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

IHY500 CAS: 1740-15-4 HR: 2
p-(ISOBORNYLOXY)ANILINE

mf: $C_{16}H_{23}NO$ mw: 245.40

SYNS: ANILINE, p-(ISOBORNYLOXY)- □ BENZENAMINE, 4-((1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPT-2-YL)OXY)- □ 4-((1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPT-2-YL)OXY)BENZENAMINE

TOXICITY DATA with REFERENCE:

eye-rbt 20 mg/24H SEV NTIS** OTS0546012

orl-rat LD50:660 mg/kg NTIS** OTS0546012

skn-rbt LDLo:5010 mg/kg NTIS** OTS0546012

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. A severe eye irritant. When heated to decomposition it emits toxic vapors of NO_x .

IHZ000 CAS: 115-31-1 HR: 3
ISOBORNYL THIOCYANATOACETATE

mf: $C_{13}H_{19}NO_2S$ mw: 253.39

PROP: Yellow, oily liquid; terpene-like odor. D: 1.1465 @ 25°/4°, bp: 95° @ 0.06 mm, flash p: 82°C (180°F). Very sol in alc, benzene, chloroform, and ether; insol in water.

SYNS: BORNATE □ CIDALON □ ENT 92 □ ISOBORNEOL THIOCYANATOACETATE □ ISOBORNYL THIOCYANO-ACETATE □ TERPINYL THIOCYANOACETATE □ THANISOL □ THANITE □ THIOCYANATOACETIC ACID ISOBORNYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:1603 mg/kg FMCHA2 -,C300,91

ipr-mus LD50:140 mg/kg PCBPBS 2,95,72

orl-rbt LD50:630 mg/kg JPETAB 82,377,44

skn-rbt LD50:6000 mg/kg WRPCA2 7,135,68

orl-gpg LD50:551 mg/kg FMCHA2 -,C233,83,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. Sltly toxic by skin contact. Very irritating to eyes, mucous membranes, and skin. Flammable when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits very toxic fumes of NO_x and SO_x . See also THIOCYANATES and ESTERS. Used as an FDA over-the-counter drug; an insecticide and fly spray.

IIA000 CAS: 124-68-5 HR: 3
ISOBUTANOL-2-AMINE

mf: C₄H₁₁NO mw: 89.16

PROP: Colorless liquid or crystalline mass. Mp: 30–31°, bp: 165°, flash p: 153°F (TOC), d: 0.934 @ 20°/20°, vap d: 3.04. Misc with water; sol in alcs.

SYNS: 2-AMINODIMETHYLETHANOL □ β-AMINOISOBUTANOL □ 2-AMINO-2-METHYLPROPANOL □ 2-AMINO-2-METHYLPROPAN-1-OL □ 2-AMINO-2-METHYL-1-PROPANOL □ ISOBUTANOLAMINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2900 mg/kg JACTDZ 9(2),203,90
orl-mus LD50:2150 mg/kg JACTDZ 9(2),203,90
orl-rbt LDLo:1 g/kg JIDHAN 22,315,40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Flammable when exposed to heat or flame, can react with oxidizing materials. To fight fire, use alcohol foam, dry chemical, mist or spray. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

IIC000 CAS: 115-11-7 HR: 3

ISOBUTENE

DOT: UN 1055

mf: C₄H₈ mw: 56.12

PROP: Volatile liquid or easily liquefied gas. Bp: −6.9°, fp: −140.3°, flash p: <14°F, d: 0.600, autoign temp: 869°F, lel: 1.8%, uel: 9.6%. Insol in water; very sol in alc, ether, sulfuric acid.

SYNS: γ-BUTYLENE □ ISOBUTYLENE (DOT) □ LIQUEFIED PETROLEUM GAS (DOT) □ 2-METHYLPROPENE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:620 g/m³/4H FATOAO 30,102,67
ihl-mus LC50:415 g/m³/2H FATOAO 30,102,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: A simple asphyxiant; may have narcotizing action. A very dangerous fire and explosion hazard when exposed to heat or flame. Can react vigorously with oxidizing materials. To fight fire, stop flow of gas. When heated to decomposition it emits acrid smoke and fumes.

IIE000 CAS: 16006-09-0 HR: 2

(2-ISOBUTOXYETHYL)CARBAMATE

mf: C₇H₁₅NO₃ mw: 161.23

SYN: CARBAMIC ACID (2-ISOBUTOXYETHYL) ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:500 mg/kg UCPHAQ 1,93,38

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. See also CARBAMATES.

IIE100 CAS: 16669-59-3 HR: 2

N-ISOBUTOXYMETHYLACRYLAMIDE

mf: C₈H₁₃NO₂ mw: 157.24

SYNS: ACRYLAMIDE, N-(ISOBUTOXYMETHYL)- □ N-((2-METHYLPROPOXY)METHYL)-2-PROPENAMIDE □ 2-PROPENAMIDE, N-((2-METHYLPROPOXY)METHYL)-(9CI)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD JACTDZ 1,112,90
eye-rbt 500 mg MLD JACTDZ 1,112,90
orl-mus LD50:645 mg/kg ARTODN 47,179,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IIE200 CAS: 24353-58-0 HR: 2

N-ISOBUTOXYMETHYL-2-CHLORO-2',6'-DIMETHYLACETANILIDE

mf: C₁₅H₂₂ClNO₂ mw: 283.83

PROP: Herbicide.

SYNS: ACETAMIDE-2-CHLORO-N-(2,6-DIMETHYLPHENYL)-N-((2-METHYLPROPOXY)METHYL)-(9CI) □ ACETANILIDE, 2-CHLORO-2',6'-DIMETHYL-N-ISOBUTOXYMETHYL- □ 2',6'-ACETOXYLIDIDE, 2-CHLORO-N-(ISOBUTOXYMETHYL)-(8CI) □ 2-CHLORO-N-(2,6-DIMETHYLPHENYL)-N-((2-METHYLPROPOXY)METHYL)ACETAMIDE □ 2-CHLORO-N-(ISOBUTOXYMETHYL)-2',6'-ACETOXYLIDIDE □ CP 52223 □ CP-53619 □ DELACHLOR □ DELACHLORE □ N-ISOBUTOXYMETHYL-2-CHLORO-N-(2',6'-DIMETHYLPHENYL)-ACETAMIDE □ SP-52223 □ SR-52223

TOXICITY DATA with REFERENCE:

orl-rat LD50:1775 mg/kg WRPCA2 9,119,70
skn-rat LD:>2 g/kg GTPZAB 21(12),30,77
orl-mus LD50:733 mg/kg GTPZAB 21(12),30,77
skn-rbt LD:>2 g/kg GTPZAB 21(12),30,77

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

IIG000 CAS: 23436-19-3 HR: 1

1-ISOBUTOXY-2-PROPANOL

mf: C₇H₁₆O₂ mw: 132.23

SYNS: 1-(2-METHYLPROPOXY)-2-PROPANOL (9CI) □ PROPYLENE GLYCOL ISOBUTYL ETHER

TOXICITY DATA with REFERENCE:

orl-rat LD50:4290 mg/kg NPIRI* 1,103,74
skn-rbt LD50:8000 mg/kg NPIRI* 1,103,74

CONSENSUS REPORTS: Glycol ether 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 acrid smoke and fumes. See also GLYCOL ETHERS.

IIG500 CAS: 63716-39-2 HR: 3

ISOBUTOXYPROPANOL, MIXED ISOMERS

mf: C₇H₁₆O₂ mw: 132.23

SYN: PROPANOL, ISOBUTOXY-, (MIXED ISOMERS)

TOXICITY DATA with REFERENCE:

orl-rat LD50:7500 μL/kg AIHAAP 30,470,69
skn-rbt LD50:3560 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.

IIG600 CAS: 74764-40-2 HR: 2

3-ISOBUTOXY-2-PYRROLIDINO-N-PHENYL-N-BENZYLPROPYLAMINE HYDROCHLORIDE HYDRATEmf: C₂₄H₃₄N₂O•ClH•H₂O mw: 421.08**SYNS:** ANGOPRIL □ BEPRIDIL HYDROCHLORIDE MONOHYDRATE □ 1-PYRROLIDINEETHANAMINE, β-((2-METHYLPROPOXY)METHYL)-N-PHENYL-N-(PHENYL-METHYL)-, MONOHYDROCHLORIDE, MONOHYDRATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:6,850 mg/kg IYKEDH 23,682,1992

orl-mus LD50:1,955 mg/kg GWXXBX #2802864

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.**III000 CAS: 32767-68-3 HR: 2
2-ISOBUTOXY TETRAHYDROPYRAN**mf: C₉H₁₈O₂ mw: 158.27**TOXICITY DATA with REFERENCE:**

orl-mus LD50:2600 mg/kg SCCUR* -,5,61

ipr-mus LD50:780 mg/kg SCCUR* -,5,61

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and fumes.**IIJ000 CAS: 110-19-0 HR: 3
ISOBUTYL ACETATE****DOT:** UN 1213mf: C₆H₁₂O₂ mw: 116.18**PROP:** Colorless, neutral liquid; fruit-like odor. Mp: -98.9°, bp: 118°, flash p: 64°F (CC) (18°), d: 0.8685 @ 15°, refr index: 1.389, vap press: 10 mm @ 12.8°, autoign temp: 793°F, vap d: 4.0, lel: 2.4%, uel: 10.5%. Very sol in alc, fixed oils, propylene glycol; sltly sol in water. IDLH 1300 ppm [10%LEL].**SYNS:** ACETATE d'ISOBUTYLE (FRENCH) □ ACETIC ACID, ISOBUTYL ESTER □ ACETIC ACID-2-METHYLPROPYL ESTER □ FEMA No. 2175 □ ISOBUTYLESTER KYSELINY OCTOVE □ 2-METHYLPROPYL ACETATE □ 2-METHYL-1-PROPYL ACETATE □ β-METHYLPROPYL ETHANOATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 11/3/71

skn-rbt 500 mg/24H MOD FCTXAV 16,637,78

eye-rbt 500 mg/24H MOD FCTXAV 16,637,78

orl-rat LD50:13,400 mg/kg NPIRI* 1,8,74

ihl-rat LCLo:8000 ppm/4H AIHAAP 23,95,62

orl-rbt LD50:4763 mg/kg IMSUAI 41,31,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 150 ppm**ACGIH TLV:** TWA 150 ppm**DFG MAK:** 100 ppm (480 mg/m³)**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Mildly toxic by ingestion and inhalation. A skin and eye irritant. Upon absorption by the body it can hydrolyze to acetic acid and isobutanol. Highly flammable liquid. A very dangerous fire and moderate explosion hazard when exposed to heat, flame, or oxidizers. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS and n-BUTYL ACETATE.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Esters I, 1450.**IIK000 CAS: 106-63-8 HR: 3
ISOBUTYL ACRYLATE****DOT:** UN 2527mf: C₇H₁₂O₂ mw: 128.19**PROP:** Clear colorless liquid with ester like odor. Bp: 139°, mp: -61°.**SYNS:** ACRYLIC ACID ISOBUTYL ESTER □ ISOBUTYL ACRYLATE, inhibited (DOT) □ ISOBUTYL PROPENOATE □ ISOBUTYL-2-PROPENOATE □ Z-METHYLPROPYL ACRYLATE □ 2-PROPENOIC ACID-2-METHYLPROPYL ESTER**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 3/28/68

orl-rat LD50:7070 mg/kg TXAPA9 28,313,74

ihl-rat LCLo:2000 ppm/4H UCDS** 3/28/68

ipr-rat LD50:654 mg/kg AMPMAR 36,58,75

orl-mus LD50:6106 mg/kg TOLED5 11,125,82

ipr-mus LD50:760 mg/kg JDREAF 51,526,72

skn-rbt LD50:890 mg/kg UCDS** 3/28/68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by skin contact and intraperitoneal routes. Mildly toxic by inhalation and ingestion. A skin irritant. Flammable when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and toxic fumes. See also ESTERS.**IIL000 CAS: 78-83-1 HR: 3
ISOBUTYL ALCOHOL****DOT:** UN 1212mf: C₄H₁₀O mw: 74.14HOCH₂CH₂CH₂CH₃**PROP:** Clear, colorless, refractive, mobile liquid; sweet odor. Flammable. Bp: 107.90°, flash p: 82°F, ULC: 40-45, lel: 1.2%, uel: 10.9% @ 212°F, fp: -108°, d: 0.800, autoign temp: 800°F, vap press: 10 mm @ 21.7°, vap d: 2.55. Sltly sol in water; misc with alc and ether. IDLH 1600 ppm.**SYNS:** ALCOOL ISOBUTYLIQUE (FRENCH) □ FEMA No. 2179 □ FERMENTATION BUTYL ALCOHOL □ 1-HYDROXY-METHYLPROPANE □ ISOBUTANOL (DOT) □ ISOBUTYL-ALCOHOL (CZECH) □ ISOPROPYLCARBINOL □ 2-METHYLPROPANOL □ 2-METHYLPROPAN-1-OL □ 2-METHYL-1-PROPANOL □ 2-METHYLPROPYL ALCOHOL □ RCRA WASTE NUMBER U140**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H SEV 28ZPAK -,35,72

eye-rbt 2 mg open SEV AMIHBC 10,61,54

eye-rbt 20 mg/24H MOD 28ZPAK -,35,72

mmo-esc 25,000 ppm ABMGAJ 23,843,69

cyt-smc 20 mmol/tube HERAY 33,457,47

orl-rat TDLo:29 g/kg/I:ETA ARGEAR 45,19,75

scu-rat TDLo:9 g/kg/I:CAR ARGEAR 45,19,75

orl-rat LD50:2460 mg/kg AMIHBC 10,61,54

ihl-rat LCLo:8000 ppm/4H AMIHBC 10,61,54

ipr-rat LD50:720 mg/kg EVHPAZ 61,321,85

ivn-rat LD50:340 mg/kg EVHPAZ 61,321,85

ipr-mus LD50:1801 mg/kg EVHPAZ 61,321,85

ivn-mus LD50:417 mg/kg EVHPAZ 61,321,85
 ivn-cat LDLo:725 mg/kg JPETAB 16,1,20
 orl-rbt LDLo:3750 mg/kg JLCMAK 10,985,25
 skn-rbt LD50:3400 mg/kg NPIRI* 1,11,74
 ipr-rbt LD50:323 mg/kg EVHPAZ 61,321,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 50 ppm

ACGIH TLV: TWA 50 ppm

DFG MAK: 100 ppm (310 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and skin contact. Mildly toxic by inhalation. A severe skin and eye irritant. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. Flammable liquid. Dangerous fire hazard when exposed to heat or flame. Moderately explosive in the form of vapor when exposed to heat, flame, or oxidizers. Ignites on contact with chromium trioxide. Reacts with aluminum at 100° to form explosive hydrogen gas. Keep away from heat and open flame. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Alcohols II, 1401.

IIM000 CAS: 78-81-9 HR: 3
ISOBUTYLAMINE

DOT: UN 1214

mf: C₄H₁₁N mw: 73.16

PROP: Colorless liquid. Mp: -85.5°, bp: 68.6°, flash p: 15°F, d: 0.731 @ 20°/20°, vap press: 100 mm @ 18.8°, autoign temp: 712°F, vap d: 2.5. Misc with water, alc, and ether.

SYNS: 1-AMINO-2-METHYLPROPANE □
 MONOISOBUTYLAMINE □ NSC-8028 □ 1-PROPANAMINE, 2-METHYL- □ VALAMINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:228 mg/kg TXAPA9 63,150,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: 5 ppm (15 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by ingestion. A powerful irritant to skin, eyes, and mucous membranes. Skin contact can cause blistering. Inhalation can cause headache and dryness of nose and throat. A very dangerous fire hazard when exposed to heat or flame. Can react vigorously with oxidizing materials. To fight fire, use dry chemical, foam, CO₂, alcohol foam. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

IIM050 CAS: 17091-40-6 HR: 3
2-ISOBUTYLAMINOETHANOL

mf: C₆H₁₅NO mw: 117.22

SYNS: ETHANOL, 2-((2-METHYLPROPYL)AMINO)- □
 ETHANOL, 2-ISOBUTYLAMINO-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:250 mg/kg NTIS** AD691-490

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

IIM100 CAS: 3562-15-0 HR: 3
2-(ISOBUTYLAMINO)-2-METHYL-1-PROPANOL BENZOATE HYDROCHLORIDE

mf: C₁₅H₂₃NO₂•ClH mw: 285.85

PROP: A solid. Mp: 182-185°.

SYN: 2-(ISOBUTYLAMINO)-2-METHYL-1-PROPANOL BENZOATE (ESTER), HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:243 mg/kg AIPTAK 115,483,58

scu-mus LD50:298 mg/kg AIPTAK 115,483,58

ivn-mus LD50:19 mg/kg AIPTAK 115,483,58

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

IIM300 CAS: 68002-18-6 HR: 2
ISOBUTYLATED UREA FORMALDEHYDE

SYNS: PARA FORMALDEHYDE, UREA RESIN, ISOBUTYLATED □ POLY(FORMALDEHYDE-ISOBUTYL ALCOHOL-UREA) □ UREA, FORMALDEHYDE POLYMER, ISOBUTYLATED □ UREA, ISOBUTYL ALCOHOL, FORMALDEHYDE POLYMER □ UREA, PARA FORMALDEHYDE, ISOBUTYL ALCOHOL, FORMALDEHYDE POLYMER □ UREA, POLYMER WITH FORMALDEHYDE, ISOBUTYLATED

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL/24H SEV NTIS** OST0538645

orl-rat LD50:>5 g/kg NTIS** OTS0538645

skn-rbt LD50:>5 g/kg NTIS** OTS0538645

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

IIN000 CAS: 538-93-2 HR: 3
ISOBUTYLBENZENE

mf: C₁₀H₁₄ mw: 134.24

PROP: Liquid. Insol in water; sol in alc and ether. Mp: -51.5°, bp: 170.5°, flash p: 131°F (CC), d: 0.867 @ 20°/4°, autoign temp: 806°F, vap press: 1 mm @ 14.1°, vap d: 4.62, lel: 0.8%, uel: 6.0%.

SYN: 2-METHYL-1-PHENYLPROPANE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5000 mg/kg 28ZRAQ -,56,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. An irritant and possibly narcotic. Flammable liquid when exposed to heat, sparks, or flame. Can react with oxidizing materials. Moderate explosion hazard when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

IIN300 HR: D
ISOBUTYL-2-BUTENOATE

mf: C₈H₁₄O₂ mw: 142.19

PROP: Colorless liquid; powerful fruity odor. D: 0.880, refr index: 1.426-1.430. Sol in alc, propylene glycol, fixed oils; sltly sol in water.

SYN: FEMA No. 3432**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**II0750 HR: 3**
(2-(p-(5-(ISOBUTYLCARBOZMOYL)-2-OCTYL-OXYBENZAMIDO)BENZAMIDO)ETHYL)-
TRIETHYLAMMONIUM IODIDEmf: $C_{35}H_{55}N_4O_4 \cdot I$ mw: 722.84**TOXICITY DATA with REFERENCE:**

orl-mus LD50:3 g/kg FRPSAX 39,3,84

ipr-mus LD50:65 mg/kg FRPSAX 39,3,84

scu-mus LD50:750 mg/kg FRPSAX 39,3,84

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of I^- , NH_3 and NO_x . See also IODIDES.**IIP000 CAS: 4439-24-1 HR: 3**
ISOBUTYL CELLOSOLVEmf: $C_6H_{14}O_2$ mw: 118.20**PROP:** Colorless liquid. D: 0.903 @ 20°/4°, bp: 157–158°; misc in water, alc, ether.**SYNS:** EKTASOLVE EIB □ ETHYLENE GLYCOL MONOISOBUTYL ETHER □ 2-ISOBUTOXYETHANOL**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 3/4/69

orl-rat LDLo:400 mg/kg KODAK* 21MAY71

ihl-rat LCLo:1000 ppm/4H UCDS** 3/4/69

skn-rbt LD50:710 mg/kg UCDS** 3/4/69

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion. Moderately toxic by skin contact. Mildly toxic by inhalation. A skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also GLYCOL ETHERS.**IIQ000 CAS: 122-67-8 HR: 2**
ISOBUTYL CINNAMATEmf: $C_{13}H_{16}O_2$ mw: 204.29**PROP:** Colorless liquid; sweet, fruity odor. D: 1.001, refr index: 1.539–1.541, flash p: 212°F. Misc with alc, chloroform, ether, fixed oils; insol in water.**SYNS:** CINNAMIC ACID, ISOBUTYL ESTER □ FEMA No. 2193 □ LABDANOL □ 3-PHENYL-2-PROPENOIC ACID, 2-METHYLPROPYL ESTER**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTXAV 14,799,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.**IIQ100 CAS: 13361-31-4 HR: 1**
ISOBUTYL CYANOACETATEmf: $C_7H_{11}NO_2$ mw: 141.19**SYNS:** ACETIC ACID, CYANO-, ISOBUTYL ESTER □ ACETIC ACID, CYANO-, 2-METHYLPROPYL ESTER □ CYANOACETIC ACID, ISOBUTYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4520 mg/kg LONZA# 13FEB81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x .**IIQ140 CAS: 68457-74-9 HR: 2**
ISOBUTYLENATED METHYLSTYRENATED
PHENOL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>2500 mg/kg ATDAEI 15(Suppl 1),S69,1996

ihl-rat LC50:>23,250 mg/m³/4H ATDAEI 15(Suppl 1),S69,1996

skn-rat LD50:>920 mg/kg ATDAEI 15(Suppl 1),S69,1996

ihl-mus LC50:>23,250 mg/m³/4H ATDAEI 15(Suppl 1),S69,1996**SAFETY PROFILE:** Moderately toxic by ingestion and skin contact. Low toxicity by inhalation. When heated to decomposition it emits acrid smoke and irritating vapors.**IIQ150 CAS: 68937-40-6 HR: 2**
ISOBUTYLENATED PHENOL PHOSPHATE (3:1)**SYNS:** DURAD 220B □ DURAD 550B □ PHENOL, ISOBUTYLENATED, PHOSPHATE (3:1)**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg MLD NTIS** OTS0533595

orl-rat LD50:>5 g/kg NTIS** OTS0535091

orl-ckn LD :>2 g/kg NTIS** OTS0533595

SAFETY PROFILE: Moderately toxic by skin contact. A skin irritant. When heated to decomposition it emits toxic vapors of PO_x .**IIQ200 HR: 3**
ISOBUTYLENE CHLORIDEmf: $C_4H_6Cl_2$ mw: 125.00**SYN:** 1,2-DICHLORO-2-METHYLPROPENE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1501 mg/kg 85GMAT -,77,82

ihl-rat LC50:400 mg/m³/4H 85GMAT -,77,82

orl-mus LD50:205 mg/kg 85GMAT -,77,82

SAFETY PROFILE: Poison by inhalation and ingestion. When heated to decomposition it emits toxic fumes of Cl^- .**IIQ500 CAS: 9010-85-9 HR: D**
ISOBUTYLENE-ISOPRENE COPOLYMER**PROP:** Viscosity controlling agent.**SYN:** BUTYL RUBBER**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**IIQ600 CAS: 558-30-5 HR: D**
ISOBUTYLENEOXIDEmf: C_4H_8O mw: 72.12**SYN:** PROPANE, 1,2-EPOXY-2-METHYL-**TOXICITY DATA with REFERENCE:**

mmo-sat 250 ppm MUREAV 271,213,92

mmo-klp 5 mmol/L MUREAV 89,269,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IIR000 CAS: 542-55-2 HR: 3

ISOBUTYL FORMATE

DOT: UN 2393

mf: C₅H₁₀O₂ mw: 102.15

PROP: Liquid. D: 0.885 @ 20°/4°, mp: -95.3°, bp: 98.2°, flash p: <70°F, autoign temp: 608°F, lel: 2.0%, uel: 8%. Sol in water @ 22°; misc in alc and ether.

SYNS: ISOBUTYLESTER KYSELINY MRAVENCI □ ISO-BUTYL FORMATE □ FORMIC ACID, ISOBUTYL ESTER □ TETRYL FORMATE

TOXICITY DATA with REFERENCE:

orl-rbt LD50:3064 mg/kg IMSUAI 41,31,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion. A very dangerous fire hazard when exposed to heat, open flame, or oxidizers. A moderate explosion hazard when exposed to heat or flame. To fight fire, use water spray, foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

IIR100 CAS: 105-01-1 HR: 2

ISOBUTYL FURYLPROPIONATE

mf: C₁₁H₁₆O₃ mw: 196.27

PROP: Colorless to pale yellow liquid with fruity, pineapple aroma. D: 0.9980–1.0160. Flash pt: 212° F (CC).

SYN: ISOBUTYL-2-FURANPROPIONATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 17,835,79

orl-rat LD50:1950 mg/kg FCTXAV 17,835,79

skn-rbt LD50:2000 mg/kg FCTXAV 17,835,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin irritant. A combustible liquid. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

IIS000 CAS: 7779-80-8 HR: 1

ISOBUTYL HEPTYLATE

mf: C₁₁H₂₂O₂ mw: 186.33

PROP: Fragrance and flavor chemical.

SYNS: HEPTANOIC ACID, ISOBUTYL ESTER □ HEPTANOIC ACID, 2-METHYLPROPYL ESTER □ ISOBUTYL HEPTANOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,799,78

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.

IIT000 CAS: 105-79-3 HR: 1

ISOBUTYL HEXANOATE

mf: C₁₀H₂₀O₂ mw: 172.30

PROP: Colorless liquid with fruit, cocoa, wine odor. Bp: 165°, d: 0.85600–0.8600 @ 25°. Sol in alcohol; insol in water.

SYNS: HEXANOIC ACID, ISOBUTYL ESTER □ HEXANOIC ACID, 2-METHYLPROPYL ESTER □ ISOBUTYL CAPROATE □ 2-METHYLPROPYL HEXANOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,797,78

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.

IIU000 CAS: 15687-27-1 HR: 3

p-ISOBUTYLHYDRATROPIC ACID

mf: C₁₃H₁₈O₂ mw: 206.31

PROP: White to off white powder. Odorless. Relatively insol in water.

SYNS: ACIDE (ISOBUTYL-4 PHENYL)-2 PROPIONIQUE (FRENCH) □ ADHAN □ ANFLAGEN □ ARTRIL 300 □ BLUTON □ BRUFANIC □ BRUFEN □ BUBURONE □ BUTYLENIN □ DOLGIN □ EMODIN □ EPOBRON □ IBUFEN □ IBUPROCIN □ IBUPROFEN □ IP-82 □ 4-ISOBUTYLHYDRATROPIC ACID □ 2-(4-ISOBUTYLPHENYL)PROPANOIC ACID □ α-p-ISOBUTYL-PHENYLPROPIONIC ACID □ α-(4-ISOBUTYLPHENYL)-PROPIONIC ACID □ 2-(p-ISOBUTYLPHENYL)PROPIONIC ACID □ LAMIDON □ LIPTAN □ α-METHYL-4-(2-METHYLPROPYL)-BENZENEACETIC ACID □ MOTRIN □ MYNOSEDIN □ NAPACETIN □ NOBFELON □ NOBFEN □ NOBGEN □ R.D. 13621 □ REBUDEN □ ROIDENIN

TOXICITY DATA with REFERENCE:

orl-man TDLo:120 mg/kg/W-I:EYE,SYS NYSJAM 78,1239,78

orl-man LDLo:171 mg/kg BMJOAE 281,1458,80

orl-wmn TDLo:8 mg/kg JAMAAP 239,1062,78

orl-cld TDLo:480 mg/kg/17D-I:LIV,ALR JOPDAB 90,657,77

unr-wmn TDLo:96 mg/kg/3D-I:EYE JAMAAP 248,649,82

orl-cld LDLo:469 mg/kg AEMED3 15,1308,86

orl-rat LD50:636 mg/kg ARZNAD 34,280,84

ipr-rat LD50:626 mg/kg ARZNAD 27,1006,77

scu-rat LD50:740 mg/kg OYYAA2 24,415,82

rec-rat LD50:530 mg/kg OYYAA2 24,415,82

orl-mus LD50:740 mg/kg PCJOAU 14,119,80

ipr-mus LD50:320 mg/kg TXAPA9 15,310,69

scu-mus LD50:395 mg/kg OYYAA2 24,415,82

rec-mus LD50:620 mg/kg OYYAA2 24,415,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A human poison by ingestion. Poison experimentally by subcutaneous and intraperitoneal routes. Moderately toxic by ingestion and rectal routes. Human systemic effects: eye effects, dermatitis, increased body temperature, hepatitis, allergic reaction with multiple organ involvement, diplopia. Human reproductive effects by ingestion: menstrual cycle changes or disorders. Experimental teratogenic and reproductive effects. An FDA over-the-counter drug used as an analgesic and anti-inflammatory agent. When heated to decomposition it emits acrid smoke and fumes.

IIU100 CAS: 33145-10-7 HR: D
2,2'-ISOBUTYLIDENE BIS(4,6-DIMETHYLPHENOL)mf: C₂₀H₂₆O₂ mw: 298.46**SYNS:** METASEOL □ 2,2'-(2-METHYLPROPYLIDENE) BIS(4,6-DIMETHYLPHENOL) □ PHENOL, 2,2'-(2-METHYLPROPYLIDENE) BIS(4,6-DIMETHYL- □ VULKANOX NKF □ 2,4-XYLENOL, 6,6'-ISOBUTYLIDENEDI-**SAFETY PROFILE:** Experimental reproductive effects.**IIV000 CAS: 6104-30-9 HR: 2**
ISOBUTYLIDENEDIUREAmf: C₆H₁₄N₄O₂ mw: 174.24**PROP:** White crystals. Mp: 195–205°, d: 0.55. Sol in water.**SYNS:** 1,1-DIUREIDISOBUTANE □ DIUREIDISOBUTANE □ IBDU □ ISOBUTYLDIUREA □ ISOBUTYLENEDIUREA □ 1,1'-ISOBUTYLIDENEBISUREA □ ISODUR □ N,N''-(2-METHYLPROPYLIDENE) BISUREA (9CI)**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**IIV509 CAS: 513-38-2 HR: 3**
ISOBUTYL IODIDEmf: C₄H₉I mw: 184.03**PROP:** Liquid. D: 1.603, mp: -93.5°, bp: 121.0°, flash p: 32°F, insol in water, misc in alc and ether.**SYNS:** 1-iodo-2-methylpropane □ ISOBUTYLJODID □ 1-JOD-2-METHYLPROPAN □ PRIMARY ISOBUTYL IODIDE**TOXICITY DATA with REFERENCE:**ihl-rat LC50:6700 mg/m³/4H 34ZIAG -756,69

ipr-rat LD50:1241 mg/kg 34ZIAG -756,69

ipr-mus LD50:594 mg/kg 34ZIAG -756,69

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Mildly toxic by inhalation. A flammable liquid. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits toxic fumes of I₂. See also IODIDES.**IIW000 CAS: 97-85-8 HR: 3**
ISOBUTYL ISOBUTYRATE**DOT:** UN 2528mf: C₈H₁₆O₂ mw: 144.24**PROP:** Liquid with fruity odor. Mp: -81°, bp: 147.5°, d: 0.850–0.860 @ 20°/20°, vap press: 10 mm @ 39.9°. Insol in water; misc with alc.**SYNS:** ISOBUTYLISOBUTYRATE (DOT) □ ISOBUTYRIC ACID, ISOBUTYL ESTER □ 2-METHYLPROPYL ISOBUTYRATE □ 2-METHYLPROPYLPROPANOIC ACID-2-METHYLPROPYL ESTER (9CI)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:12,800 mg/kg NPIRI* 1,13,74

ihl-rat LC50:5000 ppm/6H NPIRI* 1,13,74

orl-mus LDLo:12,800 mg/kg FCTXAV 16,337,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Mildly toxic by ingestion and inhalation. An insect repellent. Flammable when exposed to heat or flame. Can react with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes. See also ISOBUTYL ALCOHOL.**IIW100 CAS: 56105-46-5 HR: 1**
ISOBUTYL LINALOLmf: C₁₃H₂₄O mw: 196.37**PROP:** Used in fragrance and perfumes.**SYNS:** 1,6-DECADIEN-3-OL, 3,7,9-TRIMETHYL- □ 3,7,9-TRIMETHYL-1,6-DECADIEN-3-OL**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 17,837,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**IIX000 CAS: 513-44-0 HR: 3**
ISOBUTYL MERCAPTANmf: C₄H₁₀S mw: 90.20(CH₃)₂CHCH₂SH**PROP:** Liquid, heavy skunk-like odor. D: 0.836 @ 20°/4°, mp: -79°, bp: 88°. Very sltly sol in water; sol in alc, liquid hydrogen sulfide, and ether.**SYN:** 2-METHYLPROPANETHIOL**TOXICITY DATA with REFERENCE:**

eye-rbt 84 mg AIHAAP 19,171,58

orl-rat LD50:7168 mg/kg AIHAAP 19,171,58

ipr-rat LD50:917 mg/kg AIHAAP 19,171,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. An eye irritant. Flammable when exposed to heat or flame. Explosive reaction with calcium hypochlorite. When heated to decomposition it emits toxic fumes of SO_x. See also MERCAPTANS.**Iiy000 CAS: 97-86-9 HR: 3**
ISOBUTYL METHACRYLATE**DOT:** UN 2283mf: C₈H₁₄O₂ mw: 142.22**PROP:** Clear liquid. Mp: -33°, bp: 155°, d: 0.885–0.889. Insol in water.**SYNS:** ISOBUTYLESTER KYSELINY METHAKRYLOVE □ ISOBUTYL-α-METHACRYLATE □ METHACRYLIC ACID, ISOBUTYL ESTER □ 2-METHYL-2-PROPENOIC ACID-2-METHYLPROPYL ESTER □ 2-METHYLPROPYL METHACRYLATE**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:6400 mg/kg 14CYAT 2,1880,63

orl-mus LD50:11,990 mg/kg TOLED5 11,125,82

ipr-mus LD50:1340 mg/kg JPSMAE 62,778,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Experimental teratogenic and reproductive effects. Flammable when exposed to heat or flame. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

IY100 CAS: 3567-08-6 HR: 3
5-ISOBUTYL-2-p-METHOXYBENZENESULFON-AMIDO-1,3,4-THIADIAZOLE

mf: $C_{13}H_{17}N_3O_3S_2$ mw: 327.45

SYNS: 2-(p-ANISYLSULFONAMIDO)-5-ISOBUTYL-1,3,4-THIADIAZOLE □ BENZENESULFONAMIDE, N-(5-ISOBUTYL-1,3,4-THIADIAZOL-2-YL)-p-METHOXY- □ 8002 CB □ FWH 114 □ GLYSOBUZOLE □ ISOBUZOLE □ 2-(p-METHOXYBENZENE-SULFONAMIDO)-5-ISOBUTYL-1,3,4-THIADIAZOLE □ STABIN-OL □ 1,3,4-THIADIAZOLE, 5-ISOBUTYL-2-(p-METHOXYBENZENESULFONAMIDO)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:534 mg/kg TXAPA9 8,13,66
 orl-mus LD50:468 mg/kg TXAPA9 8,13,66
 ipr-mus LD50:250 mg/kg TXAPA9 4,631,62

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x .

IJA000 CAS: 10086-50-7 HR: 2
2-(ISOBUTYL-3-METHYLBUTOXY)ETHANOL

mf: $C_{11}H_{24}O_2$ mw: 188.35

SYN: 2-(ISOPENTYLOXY)-4-METHYL-1-PENTANOL

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 10,61,54
 eye-rbt 20 mg open SEV AMIHBC 10,61,54
 orl-rat LD50:5410 mg/kg AMIHBC 10,61,54

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

IJB000 CAS: 63980-62-1 HR: 2
2-(2-(1-ISOBUTYL-3-METHYLBUTOXY)-ETHOXY)ETHANOL

mf: $C_{13}H_{28}O_3$ mw: 232.41

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 10,61,54
 eye-rbt 20 mg open SEV AMIHBC 10,61,54
 orl-rat LD50:8680 mg/kg AMIHBC 10,61,54
 skn-rbt LD50:3000 mg/kg AMIHBC 10,61,54

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

IJB100 CAS: 37206-20-5 HR: 3
ISOBUTYL METHYL KETONE PEROXIDE

PROP: Clear, colorless, mobile liquid. D: 0.8017 @ 20°/4°, mp: -84°, bp: -117–118°. Sol in water: 1–5 mg/mL @ 21°. Flash pt: 23° C.

SYNS: 2-PENTANONE, 4-METHYL-, PEROXIDE □ METHYL ISOBUTYL KETONE PEROXIDE, in solution with >9% by weight active oxygen (DOT) □ TRIGONOX HM 80

DOT CLASSIFICATION: Forbidden

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A reactive substance forbidden for transport. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

IJD000 CAS: 542-56-3 HR: 3
ISOBUTYL NITRITE

mf: $C_4H_9NO_2$ mw: 103.14

PROP: Liquid. D: 0.870 @ 22°/4°, bp: 67–68°. Sltly sol in and decomp in water; misc in alc.

SYNS: IBN □ NCI-C61052 □ NITROUS ACID, ISOBUTYL ESTER □ NITROUS ACID, 2-METHYLPROPYL ESTER

TOXICITY DATA with REFERENCE:

mno-sat 1 mg/plate BSIBAC 56,816,80
 mma-sat 333 µg/plate NTPB* APR 82
 orl-man TDLo:120 mg/kg:BLD,CVS AIMEAS 92,637,80
 orl-rat LD50:410 mg/kg FEPA7 41,1583,82
 ihl-rat LC50:777 ppm/4H FAATDF 8,101,87
 orl-mus LD50:205 mg/kg RCSADO 3,233,82
 ihl-mus LC50:1033 ppm/1H FAATDF 1,448,81
 ipr-mus LD50:169 mg/kg TXAPA9 48,A43,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: CL 1 200 ppm; Confirmed Animal Carcinogen

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. Mildly toxic by inhalation. Human systemic effects by ingestion: carboxyhemoglobinemia, blood pressure lowering, change in heart rate. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also ESTERS and NITRITES.

IJE000 CAS: 5461-85-8 HR: D
N-ISOBUTYL-N'-NITRO-N-NITROSOGUANIDINE

mf: $C_5H_{11}N_5O_3$ mw: 189.21

SYN: 1-ISOBUTYL-3-NITRO-1-NITROSOGUANIDINE

TOXICITY DATA with REFERENCE:

mno-sat 100 nmol/plate IDZAAW 50,403,75
 dnr-smc 2 µmol/well IDZAAW 50,403,75
 cyt-ham:fbr 30 mg/L/24H MUREAV 48,337,77
 cyt-ham:lng 13 mg/L GMCRDC 27,95,81

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of NO_x . See also N-NITROSO COMPOUNDS.

IJF000 CAS: 760-60-1 HR: 2
N-ISOBUTYL-N-NITROSOUREA

mf: $C_5H_{11}N_3O_2$ mw: 145.19

SYNS: ISO-BNU □ 1-ISO-BUTYL-1-NITROSOUREA □ N-(2-METHYLPROPYL)-N-NITROSOUREA □ N-NITROSO-ISO-BUTYLUREA

TOXICITY DATA with REFERENCE:

mno-sat 1 µg/plate MUREAV 68,1,79
 mma-sat 10 µg/plate TCMUE9 1,13,84
 cyt-ham:fbr 25 mg/L/48H MUREAV 48,337,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

IJF400 **HR: 2**

ISOBUTYL PHENYLACETATE

mf: C₁₂H₁₆O₂ mw: 192.23

PROP: Colorless liquid; rose, honey-like odor. D: 0.984–0.988, refr index: 1.486, flash p: 241°F. Sol in alc, fixed oils; insol in glycerin, propylene glycol, water.

SYN: FEMA No. 2210

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

IJG000 **CAS: 1553-60-2** **HR: 2**

4-ISOBUTYLPHENYLACETIC ACID

mf: C₁₂H₁₆O₂ mw: 192.28

PROP: A solid. Mp: 85–87°. Sltly sol in H₂O.

SYNS: DYTRANSIN □ IBUFENAC □ IBUNAC □ (p-ISOBUTYLPHENYL)ACETIC ACID □ p-ISOBUTYL-α-TOLUIC ACID □ ISODILAN □ MEDIREX □ 4-(2-METHYLPROPYL)-BENZENEACETIC ACID □ RD 11654

TOXICITY DATA with REFERENCE:

orl-rat LD50:3 g/kg OYYAA2 8,481,74

ipr-rat LD50:860 mg/kg OYYAA2 2,22,68

orl-mus LD50:1800 mg/kg NATUAS 200,271,63

ipr-mus LD50:670 mg/kg OYYAA2 8,481,74

scu-mus LD50:1130 mg/kg OYYAA2 2,22,68

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. An analgesic anti-inflammatory agent. When heated to decomposition it emits acrid smoke and fumes.

IJH000 **CAS: 55837-18-8** **HR: 2**

2-(4-ISOBUTYLPHENYL)BUTYRIC ACID

mf: C₁₀H₂₀O₂ mw: 172.30

PROP: A solid. Mp: 51–53°.

SYNS: BUTIBUFEN □ BUTILOPAN □ α-ETHYL-4-(2-METHYLPROPYL)BENZENEACETIC ACID □ FF 106

TOXICITY DATA with REFERENCE:

orl-rat LD50:1600 mg/kg DRFUD4 2,156,77

orl-mus LD50:810 mg/kg EJMCA5 13,77,78

SAFETY PROFILE: Moderately toxic by ingestion. Used as an anti-inflammatory agent. When heated to decomposition it emits acrid smoke and fumes.

IJJ000 **CAS: 66332-77-2** **HR: 2**

2-(p-ISOBUTYLPHENYL)PROPIONIC ACID-α-METHOXYPHENYL ESTER

mf: C₂₀H₂₅O₃ mw: 313.45

SYNS: AF 2259 □ IBUPROFEN GUALACOL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:2062 mg/kg TXAPA9 54,332,80

orl-mus LD50:1624 mg/kg TXAPA9 54,332,80

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

IJJ200 **CAS: 126-71-6** **HR: 2**

ISOBUTYL PHOSPHATE

mf: C₁₂H₂₇O₄P mw: 266.36

SYNS: PHOSPHORIC ACID, TRIISOBUTYL ESTER (8CI) □ PHOSPHORIC ACID, TRIS(2-METHYLPROPYL) ESTER □ TRIISOBUTYL PHOSPHATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg AIHAAP 34,286,73

ihl-rat LC:>122 ppm/6H AIHAAP 34,286,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by inhalation. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of PO_x.

IJM000 **CAS: 93-19-6** **HR: 2**

α-ISOBUTYLQUINOLINE

mf: C₁₃H₁₅N mw: 185.29

PROP: Bp: 143–144° @ 12 mm.

SYN: 2-ISOBUTYLQUINOLINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1020 mg/kg FCTXAV 14,307,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IJN000 **CAS: 87-19-4** **HR: 2**

ISOBUTYL SALICYLATE

mf: C₁₁H₁₄O₃ mw: 194.25

PROP: Colorless liquid; orchid odor. D: 1.062–1.066, refr index: 1.507, flash p: 250°F. Sol in fixed oils; insol in glycerin, propylene glycol.

SYNS: FEMA No. 2213 □ ISOBUTYL-*o*-HYDROXYBENZOATE □ SALICYLIC ACID, ISOBUTYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:1560 mg/kg FCTXAV 13,681,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IJN100 **CAS: 646-13-9** **HR: 1**

ISOBUTYL STEARATE

mf: C₂₂H₄₄O₂ mw: 340.66

PROP: Clear liquid. D: 0.853 0.856 kg/l @ 20°.

SYN: STEARIC ACID, ISOBUTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD JACTDZ 4(5),107,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IJO000 **CAS: 592-65-4** **HR: 3**

ISOBUTYLSULFHYDRATE

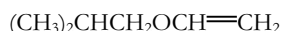
mf: C₈H₁₈S(H₂O)_x

PROP: Bp: 172–173°.

SYN: DIISOBUTYLSULFIDE HYDRATE

TOXICITY DATA with REFERENCE:

scu-mus LDLo:250 mg/kg AIPTAK 12,447,04

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by subcutaneous route. When heated to decomposition it emits toxic fumes of SO_x.**IJQ000 CAS: 109-53-5 HR: 3****ISOBUTYL VINYL ETHER****DOT:** UN 1304mf: C₆H₁₂O mw: 100.18**PROP:** Liquid. Mp: -112°, bp: 82.9–83.2°, flash p: 16°F, d: 0.76 @ 25°/4°, vap d: 3.45.**SYNS:** IVE □ VINOFLUX MO 400* □ VINYL ISOBUTYL ETHER (DOT) □ VINYL ISOBUTYL ETHER, inhibited (DOT)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:17 g/kg AIHAAP 23,95,62

ihl-rat LCLo:16,000 ppm/4H AIHAAP 23,95,62

skn-rbt LD50:20 g/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Very mildly toxic by ingestion, inhalation, and skin contact. A very dangerous fire hazard when exposed to heat, flame, oxidizers. Severe explosion hazard when exposed to sparks or open flame. Can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes. To fight fire, use alcohol foam, CO₂, dry chemical. See also ETHERS.**IJR000 CAS: 63916-90-5 HR: 3****p-ISOBUTOXYBENZOIC ACID-3-(2'-METHYLPIPERIDINO)PROPYL ESTER**mf: C₂₀H₃₁NO₃ mw: 333.52**TOXICITY DATA with REFERENCE:**

scu-mus LD50:161 mg/kg RCPAN 15,143,54

ivn-mus LD50:32 mg/kg RCPAN 15,143,54

SAFETY PROFILE: A poison by subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.**IJS000 CAS: 78-84-2 HR: 3****ISOBUTYRALDEHYDE****DOT:** UN 2045mf: C₄H₈O mw: 72.12**PROP:** Transparent, colorless, highly refractive liquid; pungent odor. Mp: -65°, bp: 64°, flash p: -40°F (CC), d: 0.783–0.788, autoign temp: 434°F, lel: 1.6%, uel: 10.6%, vap d: 2.5. Sol in water; misc in alc, ether, benzene, carbon disulfide, acetone, toluene, chloroform.**SYNS:** FEMA No. 2220 □ ISOBUTANAL □ ISOBUTYLALDEHYDE □ ISOBUTYL ALDEHYDE (DOT) □ ISOBUTYRALDEHYD (CZECH) □ ISOBUTYRIC ALDEHYDE □ 2-METHYLPROPANAL □ 2-METHYL-1-PROPANAL □ 2-METHYLPROPIONALDEHYDE □ NCI-C60968 □ VALINE ALDEHYDE**TOXICITY DATA with REFERENCE:**

skn-rbt 397 mg open MLD UCDS** 11/3/71

skn-rbt 500 mg/24H SEV 28ZPAK -,41,72

eye-rbt 20 mg open SEV AMIHBC 10,61,54

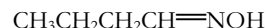
eye-rbt 100 mg/24H MOD 28ZPAK -,41,72

orl-rat LD50:2810 mg/kg 28ZPAK -,41,72

ihl-rat LCLo:8000 ppm/4H AMIHBC 10,61,54

ihl-mus LC50:39,500 mg/m³/2H 85GMAT -,77,82

skn-rbt LD50:7130 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by ingestion. Mildly toxic by skin contact and inhalation. A severe skin and eye irritant. Highly flammable liquid. A very dangerous fire hazard when exposed to heat, flame, or oxidizers. Moderately explosive in the form of vapor when exposed to heat or flame. Can react vigorously with reducing materials. When heated to decomposition it emits acrid smoke and fumes. To fight fire, use dry chemical, CO₂, mist, or foam. See also ALDEHYDES.**IJT000 CAS: 151-00-8 HR: 3****ISOBUTYRALDEHYDE, OXIME**mf: C₄H₉NO mw: 87.14**PROP:** A liquid. Bp: 140°.**SYNS:** 1-HYDROXYIMINO BUTANE □ 2-METHYL-1-PROPANAL OXIME □ USAF AM-8**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. May explode when heated above 90°C. When heated to decomposition it emits toxic fumes of NO_x.**IJU000 CAS: 79-31-2 HR: 3****ISOBUTYRIC ACID****DOT:** UN 2529mf: C₄H₈O₂ mw: 88.12**PROP:** Colorless liquid; pungent odor of rancid butter. Mp: -47°, bp: 118–119° @ 35 mm, flash p: 132°F (TOC), d: 0.949 @ 20°/4°, refr index: 1.392, vap press: 1 mm @ 14.7°, vap d: 3.04, autoign temp: 935°F. Misc with alc, chloroform, ether, fixed oils, glycerin, propylene glycol; insol in water.**SYNS:** ACETIC ACID, DIMETHYL- □ DIMETHYLACETIC ACID □ FEMA No. 2222 □ ISOBUTYRIC ACID (DOT) □ ISOPROPYL-FORMIC ACID □ KYSELINA ISOMASELNA □ α-METHYLPROPIONIC ACID □ 2-METHYLPROPIONIC ACID □ PROPIONIC ACID, 2-METHYL-**TOXICITY DATA with REFERENCE:**

skn-rbt 139 µg/24H open AIHAAP 23,95,62

orl-rat LD50:280 mg/kg AIHAAP 23,95,62

skn-rbt LD50:500 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** A poison by ingestion. Moderately toxic by skin contact. A corrosive irritant to the eyes, skin, and mucous membranes. Flammable liquid 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.

IJV000 CAS: 103-28-6 HR: 2
ISOBUTYRIC ACID, BENZYL ESTER

mf: $C_{11}H_{14}O_2$ mw: 178.25

PROP: Colorless liquid; floral, jasmine odor. D: 1.001–1.005, refr index: 1.489, bp: 229°, flash p: 212°F. Sol in alc, fixed oils; sltly sol in propylene glycol; insol in glycerin @ 229°.

SYNS: BENZYL ISOBUTYRATE (FCC) □ BENZYL-2-METHYL PROPIONATE □ FEMA No. 2141

TOXICITY DATA with REFERENCE:

orl-rat LD50:2850 mg/kg FCTXAV 11,1023,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IJV100 CAS: 79-30-1 HR: 2
ISOBUTYRIC ACID CHLORIDE

mf: C_4H_7ClO mw: 106.56

SYNS: CHLORO ISOPROPYL KETONE □ DIMETHYLACETYL CHLORIDE □ ISOBUTANOYL CHLORIDE □ ISOBUTYROYL CHLORIDE □ ISOBUTYRYL CHLORIDE □ 2-METHYLPROP-ANOYL CHLORIDE □ α-METHYLPROPIONYL CHLORIDE □ 2-METHYLPROPIONYL CHLORIDE □ PROPANOYL CHLORIDE, 2-METHYL-

TOXICITY DATA with REFERENCE:

eye-rbt 100 μL/24H SEV NTIS** OTS0555053

ihl-rat LCLo:11600 mg/m³/6H NTIS** OTS0555053

SAFETY PROFILE: Low toxicity by inhalation. A severe eye irritant. When heated to decomposition it emits toxic vapors of Cl^- .

IJW000 CAS: 97-72-3 HR: 3
ISOBUTYRIC ANHYDRIDE

DOT: UN 2530

mf: $C_8H_{14}O_3$ mw: 158.22

PROP: Liquid, decomp in water. Bp: 73–75° @ 18 mm, d: 0.951–0.956 @ 20°/20°, vap d: 5.5, flash p: 139°F, autoign temp: 665°F.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A corrosive irritant to skin, eyes, and mucous membranes. Flammable liquid when exposed to heat, flame, or oxidizers. To fight fire, use alcohol foam, fog, dry chemical, CO_2 . When heated to decomposition it emits acrid smoke and fumes. See also ANHYDRIDES.

IJX000 CAS: 78-82-0 HR: 3
ISOBUTYRONITRILE

DOT: UN 2284

mf: C_4H_7N mw: 69.12

PROP: Colorless liquid, sltly sol in water, very sol in alc and ether. D: 0.773 @ 20°/20°, bp: 107°, mp: –75°, flash p: 46.4°F.

SYNS: 2-CYANOPROPANE □ DIMETHYLACETONITRILE □ ISOPROPYL CYANIDE □ ISOPROPYLKYANID □ ISOPROPYL NITRILE □ α-METHYLPROPANENITRILE □ 2-METHYLPROPANENITRILE □ 2-METHYLPROPIONITRILE

TOXICITY DATA with REFERENCE:

skn-rbt 380 mg open MLD UCDS** 10/29/59

orl-rat LD50:102 mg/kg UCDS** 10/29/59

ihl-rat LCLo:1000 ppm/4H AIHAAP 23,95,62

orl-mus LD50:25 mg/kg ARTODN 55,47,84

skn-rbt LD50:310 mg/kg AIHAAP 23,95,62

scu-rbt LDLo:9 mg/kg AIPTAK 5,161,1899

scu-frg LDLo:4800 mg/kg AIPTAK 5,161,1899

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

NIOSH REL: (Nitriles) TWA 22 mg/m³

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison

SAFETY PROFILE: A poison by ingestion, skin contact, and subcutaneous routes. Mildly toxic by inhalation. A skin irritant. A very dangerous fire hazard when exposed to heat or flame. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

IJZ000 CAS: 533-28-8 HR: 3
ISOCAINE

mf: $C_{16}H_{23}NO_2 \cdot ClH$ mw: 297.86

PROP: A solid. Mp: 172–175°.

SYNS: o-AMINO BENZOYL DI(ISOPROPYLAMINO)ETHANOL HYDROCHLORIDE □ 3-BENZOXY-1-(2-METHYLPIPERIDINO)-PROPANE HYDROCHLORIDE □ dl-3-BENZOXY-1-(2-METHYLPIPERIDINO)PROPANE HYDROCHLORIDE □ BENZOYL-γ-(2-METHYLPIPERIDINE)PROPANOL HYDRO-CHLORIDE □ METHCAINE HYDROCHLORIDE □ 2-METHYL-1-PIPERIDINE-PROPANOL BENZOATE HYDROCHLORIDE □ 3-(2-METHYLPIPERIDINO)PROPYL BENZOATE HYDROCHLORIDE □ dl-(2-METHYLPIPERIDINO)PROPYL BENZOATE HYDROCHLORIDE □ γ-(2-METHYLPIPERIDINO)PROPYL BENZOATE HYDRO-CHLORIDE □ (+-)-γ-(2-METHYLPIPERIDYL)PROPYL BENZO-ATE HYDROCHLORIDE □ NEOTHESIN HYDROCHLORIDE □ PIPEROCAINE HYDROCHLORIDE □ PIPEROCAINIUM CHLORIDE

TOXICITY DATA with REFERENCE:

eye-rbt 2% MOD ARZNAD 8,708,58

ipr-rat LD50:120 mg/kg JLCMAK 15,731,30

scu-rat LD50:1300 mg/kg MEIEDD 10,1078,83

ivn-rat LD50:20 mg/kg MEIEDD 10,1078,83

ipr-mus LD50:182 mg/kg JPETAB 94,299,48

scu-mus LD50:450 mg/kg ARZNAD 8,708,58

ivn-mus LD50:18,200 μg/kg TXAPA9 1,454,56

scu-cat LDLo:200 mg/kg JPETAB 24,167,25

scu-rbt LDLo:300 mg/kg JPETAB 24,167,25

ivn-rbt LD50:28 mg/kg JLCMAK 15,731,30

isp-rbt LDLo:10 mg/kg JPETAB 57,221,36

SAFETY PROFILE: A poison by intraperitoneal, intravenous, subcutaneous, and intraspinal routes. An eye irritant. Used as a local anesthetic. An FDA over-the-counter drug. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

IKA000 CAS: 80748-58-9 HR: 1
ISOCAMPHYL CYCLOHEXANOL (mixed isomers)

SYNS: INDISAN □ ISOCAMPHANYL CYCLOHEXANOL (mixed isomers)

TOXICITY DATA with REFERENCE:

skn-hmn 20%/48H FCTXAV 14,801,76

skn-rbt 500 mg/24H MOD FCTXAV 14,801,76

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

IKB000 CAS: 581-88-4 HR: 3
ISOCARAMIDINE SULFATE

mf: $C_{10}H_{13}N_3 \cdot 1/2H_2O_4S$ mw: 224.30

PROP: A solid. Mp: 278–280°.

SYNS: DEBRISOQUIN SULFATE □ DECLINAX □ 3,4-DIHYDRO-2(1H)-ISOQUINOLINECARBOXIMIDAMIDE SULFATE (2:1) □ RO 5-3307/1 □ TENDOR

TOXICITY DATA with REFERENCE:

orl-rat LD50:610 mg/kg OYYAA2 17,129,79

orl-mus LD50:235 mg/kg CTCEA9 6,299,64

ipr-mus LD50:132 mg/kg CTCEA9 6,299,64

scu-mus LD50:136 mg/kg CTCEA9 6,299,64

ivn-mus LD50:31,700 µg/kg CTCEA9 6,299,64

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

IKC000 CAS: 59-63-2 HR: 3
ISOCARBOXAZID

mf: $C_{12}H_{13}N_3O_2$ mw: 231.28

PROP: Crystals from methanol, practically tasteless. Mp: 106°, very sltly sol in hot water; sltly sol in alc, glycerol, and propylene glycol.

SYNS: BENAZIDE □ 1-BENZYL-1-(5-METHYL-3-ISOXAZOYL-CARBONYL)HYDRAZINE □ 1-BENZYL-2-(5-METHYL-3-ISOXAZOYL-CARBONYL)HYDRAZINE □ N'-BENZYL N-METHYL-5-ISOXAZOLECARBOXYLHYDRAZIDE-3 □ BMIH □ ENERZER □ ISOCARBONAZID □ ISOCARBOSSAZIDE □ ISOCARBOXAZIDE □ ISOCARBOXYZID □ MARAPLAN □ MARPLAN □ MARPLON □ 5-METHYL-3-ISOXAZOLECARBOXYLIC ACID-2-BENZYLHYDRAZIDE □ RO 5-0831

TOXICITY DATA with REFERENCE:

dnd-mus-ipr 350 µmol/kg CNREA8 41,146,81

dnd-mus-orl 322 mg/kg/5D-C JTEHD6 9,287,82

orl-wmn TDLo:4800 µg/kg/21W-I:SYS JCPYDR 3,42,83

orl-rat LD50:280 mg/kg ANYAA9 80,626,59

ipr-rat LD50:199 mg/kg 27ZQAG -,240,72

orl-mus LD50:193 mg/kg ANYAA9 80,626,59

ipr-mus LD50:138 mg/kg JMPCAS 2,133,60

scu-mus LD50:150 mg/kg TXAPA9 39,141,77

orl-dog LDLo:40 mg/kg ANYAA9 80,626,59

SAFETY PROFILE: A poison by ingestion, intraperitoneal, and subcutaneous routes. An experimental teratogen. Other experimental reproductive effects. Human systemic effects: monoamine oxidase effects. Mutation data reported. A pharmaceutical and veterinary drug. When heated to decomposition it emits toxic fumes of NO_x .

IKC050 CAS: 25339-09-7 HR: 1

ISOCETYL STEARATE
 mf: $C_{34}H_{68}O_2$ mw: 509.02

PROP: Cosmetic ingredient.

SYNS: KESSCO ICS □ OCTADECANOIC ACID, ISOHEX-ADECYL ESTER (9CI) □ STANDAMUL 7061 □ STEARIC ACID, ISOHEXADECYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD JACTDZ 4(5),107,85

eye-rbt 100 mg MLD JACTDZ 4(5),107,85

orl-rat LDLo:5 g/kg JACTDZ 4(5),107,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IKC070 CAS: 3737-22-2 HR: 2
ISOCINCHOMERONIC ACID, DIISOPROPYL ESTER

mf: $C_{13}H_{17}NO_4$ mw: 251.31

SYNS: DIISOPROPYL PYRIDINE-2,5-DICARBOXYLATE □ ENT 17591 □ 3,5-PYRIDINEDICARBOXYLIC ACID, BIS(1-METHYLETHYL) ESTER □ 2,5-PYRIDINEDICARBOXYLIC ACID, DIISOPROPYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:5230 mg/kg YKYUA6 36,1671,85

skn-rat LD50:9400 mg/kg PEMNDP 1,186,68

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

IKC100 CAS: 470-67-7 HR: 2
ISOCINEOLE

mf: $C_{10}H_{18}O$ mw: 154.28

PROP: Cosmetic ingredient.

SYNS: 1,4-CINEOL □ 1,4-CINEOLE □ 1,4-EPOXY-p-MENTHANE □ p-MENTHANE, 1,4-EPOXY- □ 1-METHYL-4-(1-METHYLETHYL)-7-OXABICYCLO(2.2.1)HEPTANE □ 7-OXABICYCLO(2.2.1)HEPTANE, 1-ISOPROPYL-4-METHYL-(6CI) □ 7-OXABICYCLO(2.2.1)HEPTANE, 1-METHYL-4-(1-METHYLETHYL)-(9CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:3100 mg/kg FCTOD7 26,291,88

skn-rbt LD50:>5 g/kg FCTOD7 26,291,88

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 irritating vapors.

IKE000 CAS: 513-37-1 HR: 3
ISOCROTYL CHLORIDE

mf: C_4H_7Cl mw: 90.56

PROP: Liquid. D: 0.919 @ 20°/4°, bp: 68°.

SYNS: α-CHLOROISOBUTYLENE □ 1-CHLORO-2-METHYLPROPENE □ 1-CHLORO-2-METHYL-1-PROPENE □ β,β-DIMETHYLVINYL CHLORIDE □ NCI-C54819

TOXICITY DATA with REFERENCE:

trn-oin-dmg 12,750 ppm/3D C NTPTR* NTP-TR-316,86

msc-mus:lyms 400 µg/L NTPTR* NTP-TR-316,86

sce-ham:ovr 500 mg/L NTPTR* NTP-TR-316,86

orl-mus TD:102 g/kg/2Y-I:NEO NTPTR* NTP-TR-316,86

orl-rat LD50:4465 mg/kg NTPTR* NTP-TR-316,86
 ihl-rat LC50:400 mg/m³/4H 85JCAE -,112,86
 orl-mus LD50:3160 mg/kg NTPTR* NTP-TR-316,86
 ihl-mus LCLo:181 g/m³/10M UCPhAQ 1,119,38

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. NTP Carcinogenesis Studies (gavage); Clear Evidence: mouse, rat NTPTR* NTP-TR-316,86.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and neoplastigenic data. Moderately toxic by ingestion. Mildly toxic by inhalation. A local irritant and narcotic in high concentration. When heated to decomposition it emits toxic fumes of Cl⁻.

IKG000 CAS: 103-65-1 HR: 3
ISOCUMENE

DOT: UN 2364

mf: C₉H₁₂ mw: 120.21

PROP: Clear liquid. Insol in water; misc in alc and ether. Mp: -92.2°, bp: 159.2°, flash p: 86°F (CC), d: 0.862, vap press: 10 mm @ 43.4°, vap d: 4.14, autoign temp: 842°F, lel: 0.8%, uel: 6%.

SYNS: 1-PHENYLPROPANE □ n-PROPYLBENZENE □ PROPYL BENZENE (DOT)

TOXICITY DATA with REFERENCE:

orl-rat LD50:6040 mg/kg FCTXAV 2,327,64

ihl-mus LCLo:20 g/m³ AEPPAE 143,223,29

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mildly toxic by ingestion and inhalation. A very dangerous fire hazard when exposed to heat, flame, or oxidizers; can react with oxidizing materials. A moderate explosion hazard in the form of vapor when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical. Emitted from modern building materials (CENEAR 6922,91). When heated to decomposition it emits acrid smoke and fumes.

IKG100 CAS: 24063-71-6 HR: 3
ISOCURCUMENOL

mf: C₁₅H₂₂O₂ mw: 234.34

SYN: 6H-3A,6-EPOXYAZULENE-6-OL, OCTAHYDRO-3-METHYL-8-METHYLENE-5-(1-METHYLETHYLIDENE)-, (3S,3AS,6R,8AS)-

TOXICITY DATA with REFERENCE:

orl-mus TDLo:12.5 mg/kg BIPBU* 25,627,2002

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

IKG349 HR: D
ISOCYANATES

PROP: Liquids with sharp fruity odor in high levels.

SAFETY PROFILE: Compounds containing the isocyanate radical -NCO. Derivatives of isocyanic acid (cyanic acid). Usually the term refers to a diisocyanate. Inorganic isocyanates are only slightly toxic. Organic isocyanates (diisocyanates) can cause local irritation and allergic reactions. When heated to decomposition they emit toxic fumes of NO_x.

IKG400 CAS: 13025-29-1 HR: 3
2-ISOCYANATOETHANOL CARBONATE (2:1) (ESTER)

mf: C₇H₈N₂O₅ mw: 200.17

SYNS: BIS(2-ISOCYANATOETHYL)CARBONATE □ CARBONIC ACID, BIS(2-ISOCYANATOETHYL) ESTER □ ETHANOL, 2-ISOCYANATO-, CARBONATE (2:1) (ESTER) (9CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1830 µL/kg AIHAAP 30,470,69

skn-rbt LD50:>12 mL/kg AIHAAP 30,470,69

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

IKG700 CAS: 30674-80-7 HR: 3
2-ISOCYANATOETHYL METHACRYLATE

mf: C₇H₉NO₃ mw: 155.17

PROP: Bp: 87-89° @ 10 mm.

SYNS: β-ISOCYANATOETHYL METHACRYLATE □ METHACRYLOYLOXYETHYL ISOCYANATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:670 mg/kg DCTODJ 3,381,80

ihl-rat LC50:4 ppm/6H DCTODJ 3,381,80

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS and ISOCYANATES.

IKG725 CAS: 614-68-6 HR: 3
1-ISOCYANATO-2-METHYLBENZENE

mf: C₈H₇NO mw: 133.16

SYNS: BENZENE, 1-ISOCYANATO-2-METHYL- □ ISOCYANIC ACID, o-TOLYL ESTER □ o-METHYLPHENYL ISOCYANATE □ 2-METHYLPHENYL ISOCYANATE □ o-TOLUENE ISOCYANATE □ o-TOLYL ISOCYANATE □ 2-TOLYL ISOCYANATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1600 mg/kg NTIS** OTS0528340

ihl-rat LCLo:88 ppm/6H NTIS** OTS0528340

ipr-rat LD50:50 mg/kg NTIS** OTS0528340

orl-gpg LD50:400 mg/kg NTIS** OTS0528340

ipr-gpg LD50:200 mg/kg NTIS** OTS0528340

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

IKG735 CAS: 622-58-2 HR: 3
1-ISOCYANATO-4-METHYLBENZENE

mf: C₈H₇NO mw: 133.16

SYNS: BENZENE, 1-ISOCYANATO-4-METHYL- □ p-ISOCYANATOTOLUENE □ 4-ISOCYANATOTOLUENE □ ISOCYANIC ACID, p-TOLYL ESTER □ p-METHYLPHENYL ISOCYANATE □ 4-METHYLPHENYL ISOCYANATE □ p-TOLUENE ISOCYANATE □ p-TOLYL ISOCYANATE □ 4-TOLYL ISOCYANATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1600 mg/kg NTIS** OTS0528339

ihl-rat LCLo:88 ppm/6H NTIS** OTS0528339

ipr-rat LD50:50 mg/kg NTIS** OTS0528349

orl-gpg LD50:800 mg/kg NTIS** OTS0528349

ipr-gpg LD50:25 mg/kg NTIS** OTS0528339

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

IKG800 CAS: 2094-99-7 HR: 3
1-(1-ISOCYANATO-1-METHYLETHYL)-3-(1-METHYLETHENYL)BENZENE

DOT: UN 2207/UN 2478/UN 3080

mf: C₁₃H₁₅NO mw: 201.29

SYNS: BENZENE, 1-(1-ISOCYANATO-1-METHYLETHYL)-3-(1-METHYLETHENYL)- □ α-α-DIMETHYL-m-ISOPROPENYL BENZYL ISOCYANATE □ ISOCYANIC ACID, m-ISOPROPENYL-α-α-DIMETHYL BENZYL ESTER □ m-TMI

TOXICITY DATA with REFERENCE:

orl-rat LD50:3410 mg/kg JACTDZ 1,43,90

ihl-gpg LC50:750 mg/m³/1H JACTDZ 1,43,90

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD (UN 2207); DOT Class: 6.1; Label: Poison; DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3080); DOT Class: 3; Label: Flammable Liquid, Poison (UN 2478)

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

IKG850 CAS: 2889-58-9 HR: 1
1-(1-ISOCYANATO-1-METHYLETHYL)-4-(1-METHYLETHENYL)BENZENE

mf: C₁₃H₁₅NO mw: 201.29

SYNS: α-α-DIMETHYL-p-ISOPROPENYL BENZYL ISOCYANATE □ ISOCYANIC ACID, p-ISOPROPENYL-α-α-DIMETHYLBENZYL ESTER □ p-TMI

TOXICITY DATA with REFERENCE:

orl-rat LD50:4400 mg/kg JACTDZ 1,159,92

skn-rbt LD:>2 g/kg JACTDZ 1,159,92

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

IKG900 CAS: 24801-88-5 HR: 3
3-ISOCYANATOPROPYLTRIETHOXY-SILANE

mf: C₁₀H₂₁NO₄Si mw: 247.41

SYNS: 17840 □ γ-ISOCYANATOPROPYLTRIETHOXY-SILANE □ ISOCYANIC ACID, 3-(TRIETHOXY-SILYL)PROPYL ESTER □ SILANE, TRIETHOXY(3-ISOCYANATOPROPYL)- □ TRIETHOXY(3-ISOCYANATOPROPYL)SILANE □ Y 9030 □ YH 9030

TOXICITY DATA with REFERENCE:

skn-rbt 10 μL MOD NTIS** OTS0555451

eye-rbt 5 μL SEV NTIS** OTS0555451

orl-rat LD50:707 μL/kg NTIS** OTS0555451

ihl-rat LC50:360 mg/m³/4H NTIS** OTS0555451

skn-rbt LD50:1260 μL/kg NTIS** OTS0555451

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by is and skin contact. Moderately toxic by inhalation. A mild skin and severe eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

IKG925 CAS: 4083-64-1 HR: 2
ISOCYANIC ACID, ANHYDRIDE WITH p-TOLUENESULFONIC ACID

mf: C₈H₇NO₃S mw: 197.22

SYNS: ADDITIVE TI □ BENZENESULFONYL ISOCYANATE, 4-METHYL- □ p-METHYLBENZENESULFONYL ISOCYANATE □ 4-METHYLBENZENESULFONYL ISOCYANATE □ p-METHYL-PHENYLSULFONYL ISOCYANATE □ 4-METHYLPHENYLSULFONYL ISOCYANATE □ p-TOLUENESULFONIC ACID, ANHYDRIDE WITH ISOCYANIC ACID □ p-TOLUENESULFONYL ISOCYANATE □ 4-TOLUENESULFONYL ISOCYANATE □ p-TOLUENESULFONYL ISOCYANATE □ TOSYL ISOCYANATE □ p-TOSYL ISOCYANATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 μL/24H MLD IJTOFN 19,368,2000

eye-rbt 100 μL MOD IJTOFN 19,368,2000

orl-rat LD50:2234 mg/kg IJTOFN 19,368,2000

ihl-rat LC50:>640 ppm/1H IJTOFN 19,368,2000

ipr-rat LD50:775 mg/kg IJTOFN 19,368,2000

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Low toxicity by inhalation. A mild skin and moderate eye irritant. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

IKH000 CAS: 1943-83-5 HR: 2
ISOCYANIC ACID-2-CHLOROETHYL ESTER

DOT: UN 2206/UN 2207/UN 2478/UN 3080

mf: C₃H₄ClNO mw: 105.53

PROP: Crystals. D: 1.237 @ 20°, fp: 56°, bp: 135°.

SYNS: 2-CHLORETHYLISOKYANAT □ 2-CHLOROETHYL ISOCYANATE □ CIC □ NSC-87418

TOXICITY DATA with REFERENCE:

dni-hmn:fbr 75 μmol/L CNREA8 38,106,78

dnd-ham:lng 13 μmol/L CNREA8 38,337,78

ihl-mus LCLo:1000 mg/m³/10M NDRC** -,11,42

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD (UN 2207); DOT Class: 6.1; Label: Poison (UN 2206); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3080); DOT Class: 3; Label: Flammable Liquid, Poison (UN 2478)

SAFETY PROFILE: Moderately toxic by inhalation. Human mutation data reported. A flammable liquid. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also ISOCYANATES and ESTERS.

IKH099 CAS: 102-36-3 HR: 3
ISOCYANIC ACID-3,4-DICHLOROPHENYL ESTER

DOT: UN 2206/UN 2207/UN 2478/UN 3080

mf: C₇H₃Cl₂NO mw: 188.01

PROP: Crystals. Mp: 42–43°, bp: 112° @ 12 mm.

SYNS: 3,4-DICHLORFENYLISOKYANAT □ 3,4-DICHLOROPHENYL ISOCYANATE

TOXICITY DATA with REFERENCE:

ihl-mus LCLo:140 mg/m³/2M GTPZAB 13(4),50,69

ihl-rat LCLo:140 mg/m³/4M GTPZAB 13(4),50,69

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD (UN 2207); DOT Class: 6.1; Label: Poison (UN 2206); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3080); DOT Class: 3; Label: Flammable Liquid, Poison (UN 2478)

SAFETY PROFILE: Poison by inhalation. A flammable liquid. When heated to decomposition it emits toxic fumes of Cl^- and NO_x . See also ISOCYANATES and ESTERS.

IKH339 **CAS: 1984-04-9** **HR: 3**
ISOCYANIDES

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

SAFETY PROFILE: Compounds of the form $\text{RN}\equiv\text{C}$; also called carbylamines. The acid catalyzed hydrolysis of isocyanides to primary amines and formic acid is very rapid, sometimes explosive. When heated to decomposition they emit toxic fumes of CN^- .

IKH669 **CAS: 4702-38-9** **HR: 3**
ISOCYANOAMIDE

mf: CH_2N_2 mw: 42.04

SYN: ISODIAZOMETHANE

SAFETY PROFILE: A thermally unstable liquid which explodes at 35°C . Upon decomposition it emits toxic fumes of NO_x . See also AMIDES.

IKH700 **CAS: 2008-62-0** **HR: 2**
1-ISOCYANO-2-METHOXY-4-NITROBENZENE

mf: $\text{C}_8\text{H}_6\text{N}_2\text{O}_3$ mw: 178.16

SYN: BENZENE, 1-ISOCYANO-2-METHOXY-4-NITRO-

TOXICITY DATA with REFERENCE:

orl-mus LD :>500 mg/kg USXXAM #3422190

scu-mus LD :>500 mg/kg USXXAM #3422190

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

IKH720 **CAS: 1983-95-5** **HR: 2**
2-ISOCYANO-1-METHOXY-4-NITROBENZENE

mf: $\text{C}_8\text{H}_6\text{N}_2\text{O}_3$ mw: 178.16

SYN: BENZENE, 2-ISOCYANO-1-METHOXY-4-NITRO-

TOXICITY DATA with REFERENCE:

orl-mus LD :>2 g/kg USXXAM #3422190

scu-mus LD :>500 mg/kg USXXAM #3422190

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

IKH740 **CAS: 1930-92-3** **HR: 2**
1-ISOCYANO-4-METHYL-3-NITROBENZENE

mf: $\text{C}_8\text{H}_6\text{N}_2\text{O}_2$ mw: 162.16

SYN: BENZENE, 1-ISOCYANO-4-METHYL-3-NITRO-

TOXICITY DATA with REFERENCE:

orl-mus LD :>2 g/kg USXXAM #3422190

scu-mus LD :>500 mg/kg USXXAM #3422190

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

IKH760 **CAS: 1984-04-9** **HR: 3**
1-ISOCYANONAPHTHALENE

mf: $\text{C}_{11}\text{H}_7\text{N}$ mw: 153.19

SYNS: α -ISOCYANONAPHTHALENE \square NAPHTHALENE, 1-ISOCYANO- \square 1-NAPHTHYL ISOCYANIDE

TOXICITY DATA with REFERENCE:

orl-mus LD :>100 mg/kg USXXAM #3422190

scu-mus LD :>50 mg/kg USXXAM #3422190

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

IKH780 **CAS: 1984-23-2** **HR: 3**
1-ISOCYANO-4-NITROBENZENE

mf: $\text{C}_7\text{H}_4\text{N}_2\text{O}_2$ mw: 148.13

SYNS: BENZENE, 1-ISOCYANO-4-NITRO- \square p-NITROPHENYL ISOCYANIDE \square 4-NITROPHENYL ISOCYANIDE \square p-NITROPHENYL ISONITRILE \square PHENYL ISOCYANIDE, p-NITRO-

TOXICITY DATA with REFERENCE:

orl-mus LD :>5 g/kg USXXAM #3422190

scu-mus LD :>250 mg/kg USXXAM #3422190

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

IKI000 **CAS: 62967-27-5** **HR: D**
4-ISOCYANO-4'-NITRODIPHENYLAMINE

mf: $\text{C}_{13}\text{H}_9\text{N}_3\text{O}_3$ mw: 255.25

SYNS: 4-ISOCYANATO-N-(4-NITROPHENYLBENZENAMINE) (9CI) \square (p-(p-NITROANILINO)PHENYL)ISOCYANIC ACID

TOXICITY DATA with REFERENCE:

mno-sat 17 nmol/plate JMC MAR 20,981,77

mma-sat 17 nmol/plate JMC MAR 20,981,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of CN^- and NO_x . See also ISOCYANATES and NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

IKJ000 **CAS: 1335-66-6** **HR: 1**
ISOCYCLOCITRAL

PROP: Colorless liquid with green, aldehydic, herbal, leafy odor.

SYN: 1-FORMYL-3,5,6-TRIMETHYL-3-CYCLOHEXENE and 1-FORMYL-2,4,6-TRIMETHYL-3-CYCLOHEXENE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,313,76

orl-rat LD50:4500 mg/kg FCTXAV 14,313,76

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.

IKK000 **CAS: 25339-17-7** **HR: 2**
ISODECANOL

mf: $\text{C}_{10}\text{H}_{22}\text{O}$ mw: 158.32

PROP: Insol in water. D: 0.8395, bp: 220° , flash p: 220°F .

SYN: ISODECYL ALCOHOL

TOXICITY DATA with REFERENCE:

skn-rbt 415 mg open MLD UCDS** 4/1/68

orl-rat LD50:6400 mg/kg UCDS** 4/1/68

skn-rbt LD50:3150 mg/kg 31ZTAS -,72,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. A skin irritant. Combustible when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use dry chemical, CO₂, foam, mist. When heated to decomposition it emits acrid smoke and fumes.

IKL000 CAS: 1330-61-6 HR: 2

ISODECYL ACRYLATE

mf: C₁₃H₂₄O₂ mw: 212.37

PROP: Clear liquid with mild acrylic odor. Flash pt: 93°C.

SYNS: ACRYLIC ACID, ISODECYL ESTER □ AGEFLEX FA-10 □ ISODECYL ALCOHOL ACRYLATE □ ISODECYL PROPENOATE □ 2-PROPENOIC ACID ISODECYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 7/20/62

orl-rat LD50:12 g/kg UCDS** 7/20/62

skn-rbt LD50:3540 mg/kg UCDS** 7/20/62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IKL100 CAS: 29761-21-5 HR: 2

ISODECYL DIPHENYL PHOSPHATE

mf: C₂₂H₃₁O₄P mw: 390.50

PROP: Clear, transparent odorless liquid. Bp: 118°. Flash pt: 160° C. Practically insol in water.

SYNS: DIPHENYL ISODECYL PHOSPHATE □ PHOSFLEX 390 □ PHOSPHORIC ACID, ISODECYL 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

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 toxic vapors of PO_x.

IKL200 CAS: 26544-23-0 HR: 1

ISODECYL DIPHENYL PHOSPHITE

mf: C₂₂H₃₁O₃P mw: 374.50

SYNS: CHELEX MD □ DIPHENYL ISODECYL PHOSPHITE □ DPDP □ ISODECYL PHENYL PHOSPHITE □ PHOSELERE T 26 □ PHOSPHOROUS ACID, ISODECYL DIPHENYL ESTER □ WESTON DPDP

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL MLD NTIS** OTS0534615

SAFETY PROFILE: A mild eye irritant. When heated to decomposition it emits toxic vapors of PO_x.

IKM000 CAS: 29964-84-9 HR: 2

ISODECYL METHACRYLATE

mf: C₁₄H₂₆O₂ mw: 226.40

PROP: Clear, colorless to yellowish liquid with slightly ester-like odor. Bp: > 250°. Flash pt: ~ 70° C. Insol in water.

SYNS: AGELFLEX FM-10 □ METHACRYLIC ACID, ISODECYL ESTER

TOXICITY DATA with REFERENCE:

ipr-rat LD50:2467 mg/kg JDREAF 51,1632,72

ipr-mus LD50:3688 mg/kg JPMSAE 62,778,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental teratogenic and reproductive effects. A combustible liquid. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

IKM025 CAS: 25448-25-3 HR: 1

ISODECYL PHOSPHITE

mf: C₃₀H₆₃O₃P mw: 502.90

SYNS: PHOSCLERE T 310 □ PHOSPHOROUS ACID, TRIISODECYL ESTER □ PHOSPHOROUS ACID, TRIS(ISODECYL) ESTER □ TRIISODECYL PHOSPHATE □ TRIISODECYL PHOSPHITE

TOXICITY DATA with REFERENCE:

skn-rbt 500 uL NTIS** OTS0532280

orl-rat LDLo:5 g/kg NTIS** OTS0532280

ihl-rat LC :>12,600 mg/m³/1H NTIS** OTS0532280

skn-rbt LD :>5 g/kg NTIS** OTS0532280

SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. A skin irritant. When heated to decomposition it emits toxic vapors of PO_x.

IKM050 CAS: 1912-25-0 HR: 2

ISODIAZINE

mf: C₁₀H₁₈ClN₅ mw: 243.78

SYNS: 2-CHLORO-4-(DIETHYLAMINO)-6-(ISOPROPYLAMINO)-s-TRIAZINE □ G 30031 □ GEIGY □ GESABAL □ HEPTAZINE □ IPAZINE □ s-TRIAZINE, 2-CHLORO-4-(DIETHYLAMINO)-6-(ISOPROPYLAMINO)- □ 1,3,5-TRIAZINE-2,4-DIAMINE, 6-CHLORO-N,N-DIETHYL-N'-(1-METHYLETHYL)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:1700 mg/kg 85GMAT-,36,1982

orl-mus LD50:2300 mg/kg 85GMAT-,36,1982

orl-cat LD50:1300 mg/kg 85GMAT-,36,1982

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

IKM100 CAS: 35158-25-9 HR: 1

ISODIHYDROLAVANDULYL ALDEHYDE

mf: C₁₀H₁₈O mw: 154.28

PROP: Flavor and fragrance chemical.

SYNS: 2-HEXEN-1-AL, 2-ISOPROPYL-5-METHYL- □ 2-HEXEN-1-AL, 5-METHYL-2-(1-METHYLETHYL)- □ 2-ISOPROPYL-5-METHYL-2-HEXEN-1-AL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,317,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**IKN200 CAS: 24168-96-5 HR: 2
ISODONAZOLE NITRATE**

mf: $C_{18}H_{14}Cl_4N_2O \cdot HNO_3$ mw: 479.16

PROP: A solid. Mp: 182–183°.

SYNS: 1-(2-((2,6-DICHLOROBENZYL)OXY)-2-(2,4-DICHLOROPHENYL)ETHYL)IMIDAZOLE NITRATE □ 1-(2,4-DICHLORO-β-(2,6-DICHLOROBENZYLOXY)PHENETHYL)-IMIDAZOLE NITRATE □ 1-((2-(2,4-DICHLOROPHENYL)-2-(2,6-DICHLOROPHENYL)METHOXY)ETHYL)-1H-IMIDAZOLE MONONITRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5600 mg/kg IYKEDH 13,1128,82

ipr-rat LD50:720 mg/kg IYKEDH 13,1128,82

ipr-mus LD50:2000 mg/kg IYKEDH 13,1128,82

ipr-mus LD50:560 mg/kg IYKEDH 13,1128,82

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^- and NO_x . A broad spectrum anti-fungal agent. See also NITRATES.

**IKN300 CAS: 480-63-7 HR: 3
β-ISODURYLIC ACID**

mf: $C_{10}H_{12}O_2$ mw: 164.22

PROP: Large nearly colorless crystals. Mp: 153–154°.

SYNS: BENZOIC ACID, 2,4,6-TRIMETHYL- □ MESITOIC ACID □ 2,4,6-TRIMETHYLBENZOIC ACID

TOXICITY DATA with REFERENCE:

ipr-mus LD50:562 mg/kg JMCAR 11,1020,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**IKO000 CAS: 465-73-6 HR: 3
ISODRIN**

mf: $C_{12}H_8Cl_6$ mw: 364.90

PROP: Crystals. Mp: 240–242°.

SYNS: COMPOUND 711 □ ENT 19,244 □ EXPERIMENTAL INSECTICIDE 711 □ 1,2,3,4,10,10-HEXACHLORO-1,4,4a,5,8,8a-HEXAHYDRO-1,4-endo,endo-5,8-DIMETHANONAPHTHALENE □ 1,2,3,4,10,10-HEXACHLORO-1,4,4a,5,8,8a-HEXAHYDRO-1,4,5,8-endo,endo-DIMETHANONAPHTHALENE □ RCRA WASTE NUMBER P060

TOXICITY DATA with REFERENCE:

orl-rat LD50:7 mg/kg WRPCA2 9,119,70

skn-rat LD50:23 mg/kg WRPCA2 9,119,70

orl-mus LD50:8800 µg/kg GTPZAB 8(4),30,64

ipr-mus LDLo:6400 mg/kg TXAPA9 23,288,72

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory. Chlorophenol compounds are on the Community Right-To-Know List.

SAFETY PROFILE: A poison by ingestion and skin contact. Causes liver injury, acne, and skin rashes. When

heated to decomposition it emits toxic fumes of Cl^- . See also CHLOROPHENOLS and ALDRIN.

**IKN400 CAS: 628-46-6 HR: D
ISOENANTHIC ACID**

mf: $C_7H_{14}O_2$ mw: 130.21

SYNS: HEXANOIC ACID, 5-METHYL- □ 5-METHYLCAPROIC ACID □ 5-METHYLHEXANOIC ACID □ 5-METHYLHEXYLIC ACID

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

**IKO100 CAS: 2539-53-9 HR: 2
ISOETHYLVANILLIN**

mf: $C_9H_{10}O_3$ mw: 166.19

SYNS: BENZALDEHYDE, 4-ETHOXY-3-HYDROXY- □ 4-ETHOXY-3-HYDROXYBENZALDEHYDE □ ETHYLISOVANILLIN

TOXICITY DATA with REFERENCE:

sce-hmn:lyms 500 µmol/L MUREAV 206,17,88

ivn-dog LDLo:1330 mg/kg APFRAD 14,456,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intravenous route. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

**IKQ000 CAS: 97-54-1 HR: 2
ISOEUGENOL**

mf: $C_{10}H_{12}O_2$ mw: 164.22

PROP: Pale-yellow oil; carnation odor. D: 1.079–1.085, refr index: 1.572–1.577, mp: –10°, bp: 266°. cis Form: liquid, bp: 133° @ 11 mm, d: 1.088 @ 20°/4°. trans Form: crystals, mp: 33°, bp: 140° @ 12 mm, d: 1.087 @ 20°/4°, flash p: 212°F. Sol in fixed oils, propylene glycol; very sltly sol in water; misc in alc and ether; insol in glycerin.

SYNS: FEMA No. 2468 □ 1-HYDROXY-2-METHOXY-4-PROPENYLBENZENE □ 4-HYDROXY-3-METHOXY-1-PROPENYLBENZENE □ 2-METHOXY-4-PROPENYLPHENOL □ NCI-C60979 □ 4-PROPENYLGUAIACOL

TOXICITY DATA with REFERENCE:

skn-man 16 mg/48H MOD CTOIDG 94(8),41,79

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

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

sce-hmn:lym 250 µmol/L MUREAV 169,129,86

orl-rat LD50:1560 mg/kg TXAPA9 6,378,64

orl-gpg LD50:1410 mg/kg FCTXAV 2,327,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. A moderate human skin irritant. Human mutation data reported. Combustible liquid. When heated to decomposition it emits acrid smoke and fumes. See also EUGENOL.

**IKR000 CAS: 93-16-3 HR: 3
1,3,4-ISOEUGENOL METHYL ETHER**

mf: $C_{11}H_{14}O_2$ mw: 178.25

PROP: Colorless to pale-yellow liquid; clove-carnation odor. D: 1.047, refr index: 1.566, flash p: 212°F. Sol in fixed oils; insol in glycerin, propylene glycol.

SYNS: 1,2-DIMETHOXY-4-PROPENYLBENZENE □ FEMA No. 2476 □ ISOEUGENYL METHYL ETHER □ ISOHOMOGENOL □ METHYL ISOEUGENOL (FCC) □ 4-PROPENYL VERATROLE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H FCTXAV 13,865,75

ipr-mus LD50:570 mg/kg AIPTAK 199,226,72

ivn-mus LD50:181 mg/kg AIPTAK 199,226,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and fumes. See also EUGENOL and ETHERS.

IKS400 CAS: 26675-46-7 HR: 2
ISOFLURANE

mf: C₃H₂ClF₅O mw: 184.50

PROP: Inhalation anesthetic.

SYNS: ETHANE, 2-CHLORO-2-(DIFLUOROMETHOXY)-1,1,1-TRIFLUORO- (9CI) □ ETHER, 1-CHLORO-2,2,2-TRIFLUOROETHYL DIFLUOROMETHYL □ FORANE

TOXICITY DATA with REFERENCE:

ihl-rat TDLo:12,000 ppm/3H (female 17-20D post):REP KSRNAM 21,3109,87

ihl-rat TCLo:10,500 ppm/6H (female 14-16D post):TER ANESAV 64,339,86

orl-rat LD50:4770 mg/kg KSRNAM 21,3031,87

ihl-rat LC50:15,300 ppm/3H KSRNAM 21,3031,87

ipr-rat LD50:4280 mg/kg KSRNAM 21,3031,87

orl-mus LD50:5080 mg/kg KSRNAM 21,3031,87

ihl-mus LC50:16,800 ppm/3H KSRNAM 21,3031,87

ipr-mus LD50:3030 mg/kg KSRNAM 21,3031,87

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Slightly toxic by inhalation. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of F⁻ and Cl⁻.

IKS450 CAS: 1818-71-9 HR: D
ISOGUANINE RIBOSIDE

mf: C₁₀H₁₃N₅O₅ mw: 283.28

SYNS: CROTONOSID □ CROTONOSIDE □ 1,2-DIHYDRO-2-OXOADENOSINE □ 2-HYDROXYADENOSINE □ ADENOSINE, 1,2-DIHYDRO-2-OXO- □ ISOGUANOSINE □ 9H-PURIN-2-OL, 6-AMINO-9-β-d-RIBOFURANOSYL-

TOXICITY DATA with REFERENCE:

sce-hmn-lym 10 μmol/L MUREAV 403,223,1998

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

IKS500 CAS: 26833-86-3 HR: 3
ISOHARRINGTONINE

mf: C₂₈H₃₇NO₉ mw: 531.66

PROP: A solid. Mp: 69–72.5°.

SYNS: NSC-141634 □ (3-(2R,3S))-4-METHYL-2,3-DIHYDROXY-2-(3-METHYLBUTYL)BUTANEDIOATE (ESTER) CEPHALO-TAXINE

TOXICITY DATA with REFERENCE:

orl-mus LD50:27,950 μg/kg NCISP* JAN86

ipr-mus LD50:47,930 μg/kg NCISP* JAN86

scu-mus LD50:26,110 μg/kg NCISP* JAN86

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

IKS600 CAS: 107-83-5 HR: 3
ISOHEXANE

mf: C₆H₁₄ mw: 86.20

PROP: Liquid or oil. Fp: -154°, bp: 60.3°, lel: 1.0%, uel: 7.0%, flash p: 20°F (CC), d: 0.669, vap d: 3.00, autoign temp: 583°F.

SYNS: 1,2-DIMETHYLBUTANE □ 2-METHYLPENTANE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 500 ppm; STEL 1000 ppm

ACGIH TLV: TWA 500 ppm; STEL 1000 ppm (hexane isomer)

DFG MAK: 200 ppm (720 mg/m³)

NIOSH REL: (Alkanes) TWA 350 mg/m³

SAFETY PROFILE: A human eye irritant. A very dangerous fire hazard when exposed to heat, flame, or oxidizers. Explosive in the form of vapor when exposed to heat or flame. Keep away from sparks, heat, or open flame; can react vigorously with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also HEXANE.

IKT000 CAS: 646-07-1 HR: 2
ISOHEXANOIC ACID (mixed isomers)

mf: C₆H₁₂O₂ mw: 116.18

PROP: Oil. D: 0.923 @ 20°/4°, mp: -33°, bp: 199.1°.

TOXICITY DATA with REFERENCE:

skn-rbt 465 mg open MOD UCDS** 2/4/59

eye-rbt 930 μg MLD UCDS** 2/4/59

orl-rat LD50:2050 mg/kg UCDS** 2/4/59

skn-rbt LD50:1050 mg/kg UCDS** 2/4/59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IKT100 CAS: 37677-14-8 HR: 1
ISOHEXENYL CYCLOHEXENYL CARBOX-ALDEHYDE

mf: C₁₃H₂₀O mw: 192.33

SYNS: 3-CYCLOHEXENE-1-CARBOXALDEHYDE, 4-(4-METHYL-3-PENTENYL)- □ EMPETAAL □ 4-(4-METHYL-3-PENTENYL)-3-CYCLOHEXENE-1-CARBOXALDEHYDE □ 1-(4-METHYL-3-PENTENYL)-4-FORMYL-1-CYCLOHEXENE □ MYRAC ALDEHYDE □ PARA-MYRAC ALDEHYDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,803,1976

eye-rbt 100 μL MLD NTIS** OTS0535072

orl-rat LD50:7500 μL/kg NTIS** OTS0535072

SAFETY PROFILE: Low toxicity by ingestion. A moderate skin and mild eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

IKV000 CAS: 11050-62-7 HR: 1**ISOJASMONE**mf: C₁₁H₁₆O mw: 164.27**PROP:** Cosmetic fragrance.

skn-rbt 500 mg/24H MOD FCTXAV 16,801,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. When heated to decomposition it emits acrid smoke and fumes.**IKW000 CAS: 54156-67-1 HR: 3****ISOLASALOCID A**mf: C₃₄H₅₄O₈ mw: 590.88**PROP:** Crystals from CH₂Cl₂/hexane. Mp: 203°.**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1000 mg/kg 37ASAA 3,47,78

ipr-mus LD50:250 mg/kg 37ASAA 3,47,78

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and fumes.**IKX000 CAS: 73-32-5 HR: 1****ISOLEUCINE**mf: C₆H₁₃NO₂ mw: 131.17**PROP:** Crystals from EtOH (aq). An essential amino acid; many isomeric forms. White crystalline powder; bitter taste. Mp: (dl) 292° (decomp), (l) 283–284° (decomp). Sltly sol in water; nearly insol in alc; insol in ether.**SYNS:** ACETIC ACID, AMINO-sec-BUTYL- □ 2-AMINO-3-METHYLPENTANOIC ACID □ α-AMINO-β-METHYLVALERIC ACID □ ISOLEUCINE □ I-ISOLEUCINE (FCC) □ NORVALINE, 3-METHYL- □ VALERIC ACID, 2-AMINO-3-METHYL-**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:6822 mg/kg ABBIA4 58,253,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.**IKX010 CAS: 443-79-8 HR: D****dl-ISOLEUCINE**mf: C₆H₁₃NO₂ mw: 131.17**PROP:** White crystalline powder from EtOH; sltly bitter taste. Mp: 292° (decomp). Sol in water; insol in alc, ether.**SYN:** dl-2-AMINO-3-METHYLVALERIC ACID**SAFETY PROFILE:** When heated to decomposition emits toxic fumes of NO_x.**IKX030 CAS: 4474-91-3 HR: 3****5-I-ISOLEUCINEANGIOTENSIN II**mf: C₅₀H₇₁N₁₃O₁₂ mw: 1046.34**SYNS:** ANGIOTENSIN II, HUMAN □ ANGIOTENSIN II (MOUSE) □ ANGIOTENSIN II, 5-I-ISOLEUCINE- □ HUMAN ANGIOTENSIN II**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:17,400 µg/kg KSRNAM 24,6079,1990

ivn-mus LD50:30,800 µg/kg KSRNAM 24,6079,1990

SAFETY PROFILE: A poison by intravenous route. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.**IKX200 CAS: 3344-12-5 HR: 3****ISOMALATHION**mf: C₁₀H₁₉O₆PS₂ mw: 330.38**PROP:** Pesticide.**SYNS:** BUTANEDIOIC ACID, ((METHOXY(METHYLTHIO)PHOSPHINOTHIOYL)THIO)DIETHYL ESTER (9CI) □ 8063HC □ MERCAPTOSUCCINIC ACID DIETHYL ESTER, S-ESTER WITH O,S-DIMETHYLPHOSPHORODITHIOATE □ (METHOXY(METHYLTHIO)PHOSPHINOTHIOYL)BUTANEDIOIC ACID DIETHYL ESTER □ S-METHYLMALATHION □ SUCCINIC ACID, MERCAPTO-, DIETHYL ESTER, S-ESTER WITH O,S-DIMETHYL PHOSPHORODITHIOATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:113 mg/kg ARTODN 42,95,79

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of PO_x and SO_x.**IKY000 CAS: 491-07-6 HR: 1****ISOMENTHONE**mf: C₁₀H₁₈O mw: 154.28**PROP:** Colorless liquid with mand musty odor. Bp 210°, d: 0.89–0.90.**SYNS:** 2-ISOPROPYL-5-METHYL-CYCLOHEXANONE □ (Z)-p-MENTHAN-3-ONE □ 5-METHYL-2-(1-METHYLETHYL)CYCLOHEXANONE □ (Z)-5-METHYL-2-(1-METHYLETHYL)CYCLOHEXANONE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTXAV 14,315,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. When heated to decomposition it emits acrid smoke and fumes.**IKZ000 CAS: 466-40-0 HR: 3****ISOMETHADONE**mf: C₂₁H₂₇NO mw: 309.49**SYNS:** 6-DIMETHYLAMINO-5-METHYL-4,4-DIPHENYL-3-HEXANONE □ 1,1-DIPHENYL-1-(DIMETHYLAMINOISOPROPYL)BUTANONE-2 □ ISOAMIDONE II**TOXICITY DATA with REFERENCE:**

orl-mus LD50:400 mg/kg AIPTAK 120,450,59

ivn-mus LD50:17 mg/kg SCIEAS 104,587,46

SAFETY PROFILE: A poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.**IKZ100 CAS: 872-85-5 HR: 2****ISONICOTINALDEHYDE**mf: C₆H₅NO mw: 107.12**PROP:** Mp: 12°, bp: 78°.**SYNS:** 4-FORMYLPYRIDINE □ ISONICOTINIC ALDEHYDE □ p-PYRIDINEALDEHYDE □ 4-PYRIDINEALDEHYDE □ PYRIDINE-4-CARBALDEHYDE □ 4-PYRIDINECARBOXYALDEHYDE (9CI)**TOXICITY DATA with REFERENCE:**

orl-mus LDLo:1600 mg/kg AECTCV 14,111,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ILB000 CAS: 1200-00-6 HR: 3
ISONICOTINALDEHYDE THIOSEMI-CARBAZONE

SYNS: 4-FORMYL-PYRIDINE THIOSEMICARBAZONE □ PYRIDINE-4-CARBOXALDEHYDE THIOSEMICARBAZONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:200 mg/kg JMC MAR 8,676,65
 ipr-mus LD50:150 mg/kg NTIS** AD691-490
 ivn-mus LD50:320 mg/kg CSLNX* NX#01772

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

ILB150 CAS: 31279-70-6 HR: 3
ISONICOTINAMIDE PENTAAMMINE RUTHENIUM(II) PERCHLORATE

mf: C₆H₂₁Cl₂N₇O₉Ru mw: 507.25
 [C₆H₆N₂ORu(NH₃)₅][ClO₄]₂

PROP: Dark red crystals from MeOH (aq).

SAFETY PROFILE: An explosive. When heated to decomposition it emits toxic fumes of Cl⁻ and NO_x. See also RUTHENIUM, PERCHLORATES, and AMINES.

ILC000 CAS: 55-22-1 HR: 2
ISONICOTINIC ACID

mf: C₆H₅NO₂ mw: 123.11

PROP: Needles from water. Platelets. Mp: 319°, sublimes @ 260° @ 15 mm pressure. Sltly sol in cold water; sol in hot water; insol in benzene, ether, boiling alc.

SYNS: ACIDE ISO-NICOTINIQUE (FRENCH) □ 4-CARBOXY-PYRIDINE □ α-PICOLINIC ACID □ 4-PYRIDINE-CARBOXYLIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:5000 mg/kg PCJOAU 11,481,77
 orl-mus LD50:3123 mg/kg PCJOAU 11,481,77
 ipr-mus LD50:436 mg/kg PCJOAU 11,481,77
 ivn-mus LD50:5000 mg/kg THERAP 23,1343,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by intravenous route. When heated to decomposition it emits toxic fumes of NO_x.

ILC100 CAS: 1453-82-3 HR: D
ISONICOTINIC ACID AMIDE

mf: C₆H₆N₂O mw: 122.14

SYNS: 4-CARBAMOYL-PYRIDINE □ ISONICOTINAMIDE □ γ-PYRIDINE-CARBOXAMIDE □ 4-PYRIDINE-CARBOXAMIDE (9CI)

TOXICITY DATA with REFERENCE:

dni-rat:lvrl 20 mmol/L JJIND8 69,1353,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ILD000 CAS: 54-85-3 HR: 3
ISONICOTINIC ACID HYDRAZIDE

mf: C₆H₇N₃O mw: 137.16

PROP: Crystals from EtOH. Mp: 171.4°. Consists of 12% w/v each of dodecylamine hydrochloride, trimethyl alkyl ammonium chloride, and methyl alkyl dipolyoxypropylene ammonium methyl sulfate (TXAPA9 4,44,62). Sol in EtOH and Et₂O.

SYNS: AMIDON □ ANTIMICINA □ ANTITUBERKULOSUM □ ATCOTIBINE □ AZUREN □ BACILLIN □ CEMIDON □ CHEMIAZID □ CORTINAZINE □ COTINAZIN □ DEFONIN □ DIBUTIN □ DINACRIN □ DITUBIN □ ERALON □ ERTUBAN □ EVALON □ FIMALENE □ HIDRANIZIL □ HIDRULTA □ HYCOZID □ HYDRAZID □ HYOZID □ HYZYD □ IDRAZIDE DELL'ACIDO ISONICOTINICO □ IDRAZIL □ ISIDRINA □ ISMAZIDE □ ISOCID □ ISOCOTIN □ ISOLYN □ ISONEX □ ISONIACID □ ISONIAZIDE □ ISONICAZIDE □ ISONICO □ ISONICOTAN □ ISONICOTINHYDRAZID □ ISONICOTINOYL HYDRAZIDE □ ISONICOTINSAEUREHYDRAZID □ ISONICOTINYL HYDRAZIDE □ ISONIDE □ ISONIKAZID □ ISONIN □ ISONIRIT □ ISONIZIDE □ ISOTEBEZID □ ISOZIDE □ LANIAZID □ MYBASAN □ NEOXIN □ NEVIN □ NICAZIDE □ NICIZINA □ NICOTIBINA □ NICOZIDE □ NIDRAZID □ NIPLIN □ NITEBAN □ NSC-9659 □ NYDRAZID □ PELAZID □ PERCIN □ PYCAZIDE □ PYRICIDIN □ 4-PYRIDINE-CARBOXYLIC ACID, HYDRAZIDE □ RAUMANON □ RETOZIDE □ RIMICID □ RIMITSID □ ROBISSELLIN □ SANOHIDRAZINA □ SAUTERZID □ TEBECID □ TEBEXIN □ TEEBACONIN □ TIBAZIDE □ TIBINIDE □ TIBIVIS □ TISIN □ TUBAZIDE □ TUBERCID □ TUBICON □ TYVID □ UNICOCYDE □ USAF CB-2 □ VAZADRINE □ VEDERON □ ZINADON □ ZONAZIDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD TXAPA9 4,44,62
 mmo-sat 1 mg/plate CRNGDP 5,391,84
 dns-hmn:lvrl 100 μmol/L CALEDQ 30,103,86
 dni-hmn:fbr 10 mmol/L MUREAV 89,9,81
 orl-rat TDLo:55 g/kg/45W-C:NEO JNCIAM 41,331,68
 orl-mus TDLo:1892 mg/k (multi) :CAR JCREA8 105,258,83
 orl-mus TDLo:18,524 mg/kg/84W-I:CAR JCREA8 105,258,83
 orl-mus TD:8880 mg/kg/19W-C:ETA GANNA2 50,107,59
 orl-man TDLo:430 mg/kg:CNS NEURAI 20,299,70
 orl-man TDLo:100 mg/kg/3W-C:CNS,SKN,KID ARDSBL 106,849,72
 orl-cld TDLo:1299 mg/kg/16W-I:CNS CPEDAM 22,518,83
 orl-wmn TDLo:12 mg/kg/2D-I:PSY NEURAI 34,703,84
 orl-man TDLo:39 mg/kg/9D-I:SKN SMJOAV 75,81,82
 orl-hmn LDLo:100 mg/kg ARDSBL 105,206,72
 orl-rat LD50:1250 mg/kg ARZNAD 26,409,76
 ipr-rat LD50:335 mg/kg SZTPA5 9,226,52
 scu-rat LD50:329 mg/kg JPETAB 119,444,57
 ivn-rat LD50:365 mg/kg ARZNAD 26,409,76
 ims-rat LD50:400 mg/kg THERAP 8,62,53
 orl-mus LD50:133 mg/kg ARTUA4 65,376,52
 ipr-mus LD50:100 mg/kg NTIS** AD277-689
 scu-mus LD50:125 mg/kg YKKZAJ 81,1225,61
 ivn-mus LD50:149 mg/kg JPETAB 122,110,58

ims-mus LD50:137 mg/kg ARTUA4 65,376,52
 orl-dog LD50:50 mg/kg ARTUA4 65,392,52
 ipr-cat LD50:325 mg/kg KLWOAZ 30,959,52
 orl-rbt LD50:250 mg/kg ARZNAD 12,22,62
 ipr-rbt LD50:147 mg/kg SZTPA5 9,226,52

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,227,87, Animal Sufficient Evidence IMEMDT 4,159,74. EPA Genetic Toxicology Program.

SAFETY PROFILE: A human poison by ingestion. An experimental poison by ingestion, intravenous, subcutaneous, intraperitoneal, and intramuscular routes. Experimental teratogenic and reproductive effects. Human systemic effects by ingestion: peripheral nerve sensory changes, somnolence, respiratory depression, anorexia, sweating, urine changes, toxic psychosis, hepatitis, dermatitis. Human mutation data reported. A skin irritant. Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Used as an antitubercular, antibacterial, and anti-actinomycotic agent. When heated to decomposition it emits toxic fumes of NO_x and NH₃. See also individual components.

ILE000 CAS: 54-92-2 HR: 3
ISONICOTINIC ACID-2-ISOPROPYLHYDRAZIDE
 mf: C₉H₁₃N₃O mw: 179.25

PROP: Crystals from C₆H₆/pet ether. Mp: 112.5–113.5°.
SYNS: EUPHOZID □ FOSFAZIDE □ IIH □ IPN □ IPRAZID □ IPRONIAZID □ IPRONID □ IPRONIN □ 1-ISONICOTINOYL-2-ISOPROPYLHYDRAZINE □ 1-ISONICOTINYL-2-ISOPROPYLHYDRAZINE □ N-ISOPROPYL ISONICOTINHYDRAZIDE □ LH □ MARSALID □ MARSILID □ P 887 □ RIVIVOL □ RO 2-4572 □ YATROZIDE

TOXICITY DATA with REFERENCE:

dnr-esc 250 µg/well MUREAV 133,161,84
 orl-hmn TDLo:2143 µg/kg/D:GIT,KID,MET ANPBAZ 59,977,59
 orl-wmn LDLo:14 mg/kg/2W-I:LIV CMAJAX 78,131,58
 orl-rat LD50:365 mg/kg NATUAS 185,532,60
 ipr-rat LD50:375 mg/kg JJPAZ 13,186,63
 scu-rat LD50:538 mg/kg JPETAB 119,444,57
 orl-mus LD50:681 mg/kg BJPCBM 34,236,68
 ipr-mus LD50:475 mg/kg JJPAZ 13,186,63
 scu-mus LD50:750 mg/kg ARTUA4 65,376,52
 ivn-mus LD50:725 mg/kg ARTUA4 65,376,52
 ims-mus LD50:683 mg/kg ARTUA4 65,376,52
 orl-dog LD50:95 mg/kg ANYAA9 80,626,59
 orl-mky LD50:640 mg/kg ANYAA9 80,626,59

SAFETY PROFILE: A human poison by ingestion. An experimental poison by ingestion, intraperitoneal, and intravenous routes. Moderately toxic by skin contact, intramuscular, and subcutaneous routes. Human systemic effects by ingestion: constipation, anuria, metabolic changes, change in liver function. Human reproductive effects by ingestion: impotence. Experimental reproductive effects. Mutation data reported. Questionable carcinogen with experimental tumorigenic and teratogenic data. Used as an antidepressant. When heated to decomposition it emits toxic fumes of NO_x.

ILF000 CAS: 16887-79-9 HR: 2
ISONICOTINIC ACID, SODIUM SALT
 mf: C₆H₄NO₂•Na mw: 145.10

SYN: SODIUM SALT of ISONICOTINIC ACID

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x and Na₂O.

ILG000 CAS: 63041-19-0 HR: 2
4-(ISONICOTINOYLHYDRAZONE)PIMELIC ACID
 mf: C₁₃H₁₅N₃O₅ mw: 293.31

SYNS: ACIDO-4-(ISONICOTINIL-IDRAZONE)PIMELICO (ITALIAN) □ 4-OXOHEPTANEDIOIC ACID, ISONICOTINOYLHYDRAZONE

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

ILG100 CAS: 498-94-2 HR: 2
ISONIPECOTIC ACID
 mf: C₆H₁₁NO₂ mw: 129.18
PROP: White to off white powder. Mp: 180–185°. Sol in water.

SYNS: ACIDE ISONIPECOTIQUE □ ACIDE PIPERIDINE-CARBOXYLIQUE-4 □ 4-HEXAHYDROISONICOTINIC ACID □ 4-PIPERIDINECARBOXYLIC ACID (9CI)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:2100 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.

ILG200 CAS: 5275-02-5 HR: 3
3-ISONIPECOTYLINDOLE
 mf: C₁₄H₁₆N₂O mw: 228.32

SYN: KETONE, 3-INDOLYL 4-PIPERIDYL

TOXICITY DATA with REFERENCE:

ivn-mus LD50:40 mg/kg CSLNX* NX#12343

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.

ILH000 CAS: 532-54-7 HR: 3
ISONITROSOACETOPHENONE
 mf: C₈H₇NO₂ mw: 149.16

PROP: Plates from CHCl₃ or prisms. Mp: 126–128°. Sltly sol in cold water; sol in hot water, alkalies and alkali carbonates.

SYN: 2-HYDROXYIMINOACETOPHENONE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:100 mg/kg NCNSA6 5,27,53

ipr-mus LD50:75 mg/kg JPETAB 119,522,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ILI000 CAS: 119-51-7 HR: 3
ISONITROSOPROPIOPHENONE
 mf: C₉H₉NO₂ mw: 163.19

PROP: Needles from H₂O. Mp: 114–115°.

TOXICITY DATA with REFERENCE:

orl-rat LD50:4240 mg/kg TXAPA9 28,313,74

ipr-mus LD50:250 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

ILJ000 CAS: 2430-22-0 HR: 2

ISONONYL ALCOHOL

mf: C₉H₂₀O mw: 144.29

PROP: A solid. Mp: 64–65°, bp: 206°.

SYN: 7-METHYL-1-OCTANOL

TOXICITY DATA with REFERENCE:

skn-rbt 3200 mg/kg/24H SEV AIHAAP 34,493,73

eye-rbt 100 mg SEV AIHAAP 34,493,73

orl-rat LD50:2980 mg/kg AIHAAP 34,493,73

ihl-rat LCLo:21,700 mg/m³/6H AIHAAP 34,493,73

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

ILJ100 CAS: 5435-64-3 HR: 1

ISONONYLALDEHYDE

mf: C₉H₁₈O mw: 142.27

PROP: Colorless liquid. Bp: 167°.

SYNS: tert-BUTYLISOPENTANAL □ HEXANAL, 3,5,5-

TRIMETHYL- □ 3,5,5-TRIMETHYLHEXANAL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTOD7 20,841,82

orl-rat LD50:3240 mg/kg FCTOD7 20,841,82

skn-rbt LD50:>2500 mg/kg FCTOD7 20,841,82

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.

ILK000 CAS: 503-01-5 HR: 3

ISONYL

mf: C₉H₁₉N mw: 141.29

PROP: Colorless, oily liquid; characteristic amine odor, water-insol. Mp: 176–178°.

SYNS: ISOMETHEPTENE □ 6-METHYLAMINO-2-METHYL-HEPTENE □ METHYLISOOCTENYLAMINE □ 2-METHYL-6-METHYLAMINO-2-HEPTENE □ METHYLOCTENYLAMINE □ OCTANIL □ OCTIN □ OCTINUM □ OCTON □ N-1,5-TRIMETHYL-4-HEXYLAMINE

TOXICITY DATA with REFERENCE:

orl-mus LD50:134 mg/kg JPETAB 116,377,56

ipr-mus LD50:42 mg/kg JPETAB 116,377,56

scu-mus LD50:100 mg/kg FDMU** -,35

ivn-rbt LDLo:50 mg/kg FDMU** -,35

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. Can

cause headache, nausea, and dizziness in humans. When heated to decomposition it emits toxic fumes of NO_x.

ILK100 CAS: 29590-42-9 HR: 2

ISOOCTYL ACRYLATE

mf: C₁₁H₂₀O₂ mw: 184.31

PROP: Colorless liquid, with chaeacteristic odor. Bp: 83–91°, mp: <–76°. Insol in water. Flash Pt: 82° C (OC)..

SYNS: ACRYLIC ACID, ISOOCTYL ESTER (8CI) □ 2-PROPENOIC ACID, ISOOCTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD JTEHD6 34,297,91

eye-rbt 100 mg MLD JTEHD6 34,297,91

orl-rat LD50:>5 g/kg JTEHD6 34,297,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ILL000 CAS: 26952-21-6 HR: 2

ISOOCTYL ALCOHOL

mf: C₈H₁₈O mw: 130.26

SYN: ISOOCTANOL

TOXICITY DATA with REFERENCE:

skn-rbt 2600 mg/kg/24H MOD AIHAAP 34,493,73

eye-rbt 100 mg SEV AIHAAP 34,493,73

orl-rat LD50:1480 mg/kg AIHAAP 34,493,73

orl-mus LD50:1670 mg/kg 85GMAT -,77,82

skn-rbt LD50:2520 mg/kg 31ZTAS -,72,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 50 ppm (skin)

ACGIH TLV: TWA 50 ppm (skin)

NIOSH REL: (Isooctyl Alcohol) TWA 50 ppm (skin)

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and severe eye irritant. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.

ILM000 CAS: 543-82-8 HR: 3

2-ISOOCTYL AMINE

mf: C₈H₁₉N mw: 129.28

PROP: dl-Form: Viscous liquid; fishy odor. Bp: 154–156°, n: (24/D) 1.4200.

SYNS: AMIDRINE □ 2-AMINO-6-METHYLHEPTANE □ 6-AMINO-2-METHYLHEPTANE □ α,ε-DIMETHYLHEXYLAMINE □ 1,5-DIMETHYLHEXYLAMINE □ 2-METHYL-6-AMINO-HEPTANE □ 2-METHYL-2-HEPTYLAMINE □ 6-METHYL-2-HEPTYLAMINE □ 2-METIL-6-AMINO-EPTANO (ITALIAN) □ OCTODRINE □ SKF 51 □ VAPORPAC

TOXICITY DATA with REFERENCE:

orl-rat LD50:538 mg/kg BSIBAC 27,354,51

ims-rat LD50:146 mg/kg BSIBAC 27,354,51

scu-mus LDLo:2000 mg/kg KLWOAZ 15,1164,36

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intramuscular route. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

**ILO000 CAS: 25168-26-7 HR: 2
ISOCTYL-2,4-DICHLOROPHENOXYACETATE**mf: C₁₆H₂₂Cl₂O₃ mw: 333.28**SYNS:** 2,4-DICHLOROPHENOXYACETIC ACID ISOCTYL ESTER □ ISOCTYL ALCOHOL (2,4-DICHLOROPHENOXY)-ACETATE □ 2,4-D ISOCTYL ESTER □ REED LV 2,4-D □ REED LV 400 2,4-D □ REED LV 600 2,4-D □ WEEDTRINE-II**TOXICITY DATA with REFERENCE:**sce-hmn:lym 50 nL/L DBABEF 8,105,84
orl-rat LD50:982 mg/kg FAATDF 9,423,87
skn-rbt LD50:>2 g/kg FAATDF 9,423,87**CONSENSUS REPORTS:** IARC Cancer Review: Animal Inadequate Evidence IMEMDT 15,111,77.**SAFETY PROFILE:** Moderately toxic by ingestion. Other experimental reproductive effects. Questionable carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Human mutation data reported. An herbicide. When heated to decomposition it emits toxic fumes of Cl⁻.**ILR000 CAS: 25103-09-7 HR: 3
ISOCTYL MERCAPTOACETATE**mf: C₁₀H₂₀O₂S mw: 204.36**PROP:** A clear, water-white liquid; fruity odor. Bp: 125° @ 17 mm, d: 0.9736 @ 25°.**SYNS:** ISOCTYL ESTER, MERCAPTOACETATE ACID □ ISOCTYL THIOGLYCOLATE**TOXICITY DATA with REFERENCE:**orl-rat LD50:348 mg/kg TRIPA7 -,1,73
orl-rbt LDLo:1200 mg/kg JEENAI 48,139,55**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion. Can react vigorously with oxidizers. When heated to decomposition it emits toxic fumes of SO_x. See also MERCAPTOACETIC ACID.**ILR100 CAS: 27554-26-3 HR: 2
ISOCTYL PHTHALATE**mf: C₂₄H₃₈O₄ mw: 390.62**PROP:** Colorless viscous liquid. Bp: 370°. Flash pt: 227° C (CC). Insol in water.**SYNS:** 1,2-BENZENEDICARBOXYLIC ACID, DIISOCTYL ESTER □ BIS(6-METHYLHEPTYL)ESTER of PHTHALIC ACID □ CORFLEX 880 □ DIISOCTYL PHTHALATE □ FLEXOL PLASTICIZER DIP □ HEXAPLAS M/O**TOXICITY DATA with REFERENCE:**skn-rbt 500 mg open MLD UCDS** 6/11/65
orl-rat LD50:22 g/kg EVHPAZ 3,61,73
orl-mus LD50:2769 mg/kg GTPZAB 17(11),51,73
skn-rbt LD50:13 g/kg UCDS** 6/11/65**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. Mildly toxic by skin contact. A skin irritant. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.**ILR110 CAS: 26896-31-1 HR: 2
ISOCTYL ((TRIBUTYLSTANNYL)THIO)-
ACETATE**mf: C₂₂H₄₆O₂SSn mw: 493.43**SYN:** ACETIC ACID, ((TRIBUTYLSTANNYL)THIO)-, ISOCTYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1350 mg/kg TRIPA7 -,1,73

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of SO_x and tin.**ILR120 CAS: 54849-39-7 HR: 3
ISOCTYL ((TRIMETHYLSTANNYL)THIO)-
ACETATE**mf: C₁₃H₂₈O₂SSn mw: 367.16**SYN:** ACETIC ACID, ((TRIMETHYLSTANNYL)THIO)-, ISOCTYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:20,400 µg/kg TRIPA7 -,1,73

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of SO_x and tin.**ILR150 CAS: 64742-88-7 HR: D
ISOPARAFFINIC PETROLEUM HYDRO-
CARBONS, SYNTHETIC****SYN:** SYNTHETIC ISOPARAFFINIC PETROLEUM HYDROCARBONS**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**ILT000 CAS: 67051-25-6 HR: 3
5-(1-ISOPENTENYL)-5-ISOPROPYL-
BARBITURIC ACID**mf: C₁₂H₁₈N₂O₃ mw: 238.32**TOXICITY DATA with REFERENCE:**orl-mus LD50:280 mg/kg JACSAT 62,1199,40
ipr-mus LD50:200 mg/kg JACSAT 62,1199,40**SAFETY PROFILE:** Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also BARBITURATES.**ILU000 CAS: 67051-27-8 HR: 3
5-(2-ISOPENTENYL)-5-ISOPROPYL-1-METHYL-
BARBITURIC ACID**mf: C₁₃H₂₀N₂O₃ mw: 252.35**TOXICITY DATA with REFERENCE:**scu-mus LD50:70 mg/kg JACSAT 72,4319,50
ivn-mus LD50:12 mg/kg JACSAT 72,4319,50
ivn-rbt LD50:5 mg/kg JACSAT 72,4319,50**SAFETY PROFILE:** Poison by subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. See also BARBITURATES.**ILW000 CAS: 105-68-0 HR: 1
ISOPENTYL ALCOHOL, PROPIONATE**mf: C₈H₁₆O₂ mw: 144.24**PROP:** Found in cocoa bean and Bulgarian peppermint (FCTXAV 13,681,75).**SYNS:** ISOAMYL PROPIONATE □ ISOPENTYL PROPIONATE □ PROPIONIC ACID, ISOPENTYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rbt LD50:6924 mg/kg IMSUAI 41,31,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

ILW100 CAS: 543-87-3 HR: 2
ISOPENTYL NITRATE

mf: $C_5H_{11}NO_3$ mw: 133.17

SYNS: 1-BUTANOL, 3-METHYL-, NITRATE (9CI) □ ISO-AMYL NITRATE □ ISOPENTYL ALCOHOL, NITRATE □ 3-METHYL-1-BUTANOL NITRATE □ NITRITO D'AMILE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:480 mg/kg FRPSAX 11,855,56

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 .

IMB000 CAS: 110-46-3 HR: 3
ISOPENTYL NITRITE

mf: $C_5H_{11}NO_2$ mw: 117.17

PROP: Transparent, flammable liquid; penetrating, fragrant odor. Unstable; decomp on exposure to air and light. D: 0.872 @ 20°/4°, bp: 97–99°, autoign temp: 408°F, vap d: 4.0, flash p: <73.4°F.

SYNS: ISOAMYL NITRITE □ ISOPENTYL ALCOHOL NITRITE □ 3-METHYLBUTANOL NITRITE □ 3-METHYLBUTYL NITRITE □ NITROUS ACID-3-METHYL BUTYL ESTER □ VAPOROLE

TOXICITY DATA with REFERENCE:

mno-sat 333 µg/plate ENMUDM 8(Suppl 7),1,86

mma-sat 100 µg/plate ENMUDM 8(Suppl 7),1,86

orl-rat LD50:505 mg/kg FEPA7 41,1583,82

ihl-rat LC50:716 ppm/4H FAATDF 8,101,87

ihl-mus LC50:1430 ppm/30M NETOD7 8,139,86

ipr-mus LD50:130 mg/kg RCOCB8 5,889,73

ivn-mus LD50:51 mg/kg RCOCB8 5,889,73

ivn-dog LDLo:167 mg/kg RCOCB8 5,889,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. Mildly toxic by inhalation. Mutation data reported. A recreational drug said to enhance sexual enjoyment in humans by inhalation. Dangerous fire hazard when exposed to spark, heat, oxidizers, or flame. Forms an explosive mixture in air or O_2 . Vapors will explode when heated. When heated to decomposition it emits toxic fumes of NO_x . See also NITRITES.

IME000 CAS: 87-20-7 HR: 2
ISOPENTYL SALICYLATE

mf: $C_{12}H_{16}O_3$ mw: 208.28

PROP: Colorless liquid; pleasant odor. D: 1.047, refr index: 1.503–1.509, flash p: 271°F. Misc with alc, chloroform, ether, fixed oils; insol in glycerin, propylene glycol, water.

SYNS: FEMA No. 2084 □ ISOAMYL o-HYDROXYBENZOATE □ ISOAMYL SALICYLATE (FCC) □ ISOPENTYL-2-HYDROXY-

PHENYL METHANOATE □ 3-METHYLBUTYL 2-HYDROXY-BENZOATE □ SALICYLIC ACID, ISOPENTYL ESTER

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Experimental reproductive effects. Combustible liquid. When heated to decomposition it emits acrid smoke and fumes.

IMF300 CAS: 25311-71-1 HR: 3
ISOPHENPHOS

mf: $C_{15}H_{24}NO_4PS$ mw: 345.43

PROP: Oil. Bp: 120°, d: (20°/4°) 1.13. Vap press at 20°: 0.000004 mm Hg. Solubility in water at 20°: 23.8 mg/kg.

Sol in dichloromethane, cyclohexanone, acetone, alc, ether, benzene.

SYNS: 2-(O-AETHYL-N-ISOPROPYLAMINDOTHIOPHOSPHORYLOXY)-BENZO-SAEURE-ISOPROPYLESTER (GERMAN) □ AMAZE □ BAY-92114 □ BAY-SRA-12869 □ 2-((ETHOXY((1-METHYLETHYL)AMINO)-PHOSPHINOTHIOYL)OXY)BENZOIC ACID 1-METHYLETHYL ESTER □ O-ETHYL-O-(2-ISOPROPOXY-CARBONYL)-PHENYL ISOPROPYLPHOSPHORAMIDOTHIOATE □ ISOENPHOS □ ISOPROPYL-PHOSPHORAMIDOTHIOIC ACID O-ETHYL O-(2-ISOPROPOXYCARBONYLPHENYL) ESTER □ ISOPROPYL SALICYLATE O-ESTER with O-ETHYLISOPROPYLPHOSPHORAMIDOTHIOATE □ 1-METHYLETHYL-2-((ETHOXY((1-METHYLETHYL)AMINO)PHOSPHINOTHIOYL)OXY)BENZOATE □ OFTANOL □ SALICYLIC ACID ISOPROPYL ESTER O-ESTER with O-ETHYL ISOPROPYLPHOSPHORAMIDOTHIOATE □ 40 SD □ SRA 12869

TOXICITY DATA with REFERENCE:

orl-rat LD50:28 mg/kg 85ARAE 1,118,77

skn-rat LD50:188 mg/kg SPEADM 78-1,39,78

orl-mus LD50:91,300 µg/kg 85DPAN -,71/76

skn-rbt LD50:162 mg/kg FMCHA2 -,C133,83

orl-ckn LD50:3 mg/kg BECTA6 33,386,84

orl-qal LD50:13 mg/kg EESADV 8,551,84

SAFETY PROFILE: Poison by ingestion and skin contact. When heated to decomposition it emits toxic fumes of PO_x , SO_x , and NO_x .

IMF400 CAS: 78-59-1 HR: 3
ISOPHORONE

mf: $C_9H_{14}O$ mw: 138.23

PROP: Practically water-white liquid. Bp: 215.2°, flash p: 184°F (OC), d: 0.9229, autoign temp: 864°F, vap press: 1 mm @ 38.0°, vap d: 4.77, lel: 0.8%, uel: 3.8%. IDLH 200 ppm.

SYNS: ISOACETOPHORONE □ ISOFORON □ ISOFORONE (ITALIAN) □ IZOFORON (POLISH) □ NCI-C55618 □ 1,1,3-TRIMETHYL-3-CYCLOHEXENE-5-ONE □ 3,5,5-TRIMETHYL-2-CYCLOHEXENE-1-ONE □ 3,5,5-TRIMETHYL-2-CYCLOHEXEN-1-ON (GERMAN, DUTCH) □ 3,5,5-TRIMETIL-2-CICLOESEN-1-ONE (ITALIAN)

TOXICITY DATA with REFERENCE:

eye-hmn 25 ppm/15M JIHTAB 28,262,46

skn-rbt 100 mg/24H MLD JETOAS 5,31,72

eye-rbt 920 µg SEV UCDS** 11/15/71

eye-gpg 840 ppm/4H SEV JIHTAB 22,477,40

msc-mus:lym 1 g/L NTPTR* NTP-TR-291,86

sce-ham:ovr 1 g/L NTPTR* NTP-TR-291,86

ihl-hmn TCLo:25 ppm:NOSE,EYE,PUL JIHTAB 28,262,46

orl-rat LD50:1870 mg/kg UCDS** 11/15/71
ihl-rat LCLo:1840 ppm/4H JIHTAB 22,477,40
orl-mus LD50:2690 mg/kg TXAPA9 17,498,70

CONSENSUS REPORTS: NTP Carcinogenesis Studies (gavage); Some Evidence: rat NTPTR* NTP-TR-291,86; (gavage); Equivocal Evidence: mouse NTPTR* NTP-TR-291,86. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 4 ppm

ACGIH TLV: CL 5 ppm

DFG MAK: 2 ppm (11 mg/m³)

NIOSH REL: TWA (Ketones) 23 mg/m³

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by inhalation. Human systemic effects by inhalation: olfactory changes, conjunctiva irritation, and respiratory changes. Human systemic irritant by inhalation. A skin and severe eye irritant. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. Considered to be more toxic than mesityl oxide. However, due to its low volatility, it is not a dangerous industrial hazard. The response of guinea pigs and rats to repeated inhalation of the vapors indicates that it is one of the most toxic of the ketones. It is chiefly a kidney poison. It can cause irritation, lachrymation, possible opacity of the cornea, and necrosis of the cornea (experimental). It is irritating at the level of 25 ppm to humans. In animal experiments death during exposure was usually due to narcosis, but occasionally due to irritation of the lungs.

Flammable and explosive when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. See also KETONES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Isophorone, 2508.

IMG000 CAS: 4098-71-9 HR: 3
ISOPHORONE DIISOCYANATE

DOT: UN 2290/UN 2906

mf: C₁₂H₁₈N₂O₂ mw: 222.32

PROP: D: 1.062 @ 20°/4°, bp: 217° @ 100 mm.

SYNS: CYCLOHEXANE, 5-ISOCYANATO-1-(ISOCYANATOMETHYL)-1,3,3-TRIMETHYL-(9CI) □ IPDI □ 3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLISOCYANATE □ ISOPHORONE DIAMINE DIISOCYANATE □ ISOPHORO-NEDIISOCYANATE, solution, 70%, by weight (DOT) □ TRIISOCYANATOISOCYANURATE, solution, 70%, by weight (DOT)

TOXICITY DATA with REFERENCE:

ihl-rat LC50:260 mg/m³/4H DTLVS* 4,236,80

skn-rat LD50:1060 mg/kg DTLVS* 4,236,80

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.005 ppm (skin)

ACGIH TLV: TWA 0.005 ppm (skin)

DFG MAK: 0.01 ppm (0.092 mg/m³)

NIOSH REL: (Diisocyanates) 10H TWA 0.005 ppm; CL 0.02 ppm/10M

DOT CLASSIFICATION: 3; Label: Flammable Liquid; DOT Class: 6.1; Label: KEEP AWAY FROM FOOD (UN 2290)

SAFETY PROFILE: Poison by inhalation. Moderately toxic by skin contact. A flammable liquid. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also ISOCYANATES.

IMG500 CAS: 7027-11-4 HR: 3
ISOPHORONITRILE

mf: C₁₀H₁₅NO mw: 165.26

SYNS: CYCLOHEXANECARBONITRILE, 5-OXO-1,3,3-TRIMETHYL- □ 5-OXO-1,3,3-TRIMETHYLCYCLOHEXANECARBONITRILE □ 3,3,5-TRIMETHYL-5-CYANOCYCLOHEXANONE

TOXICITY DATA with REFERENCE:

eye-rbt 90 mg/24H MLD NTIS** OTS0539405

orl-rat LD50:61,600 µg/kg NTIS** OTS0539405

skn-rbt LDLo:16 g/kg NTIS** OTS0539405

SAFETY PROFILE: A poison by ingestion. Low toxicity by skin contact. A mild eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

IMH000 CAS: 3778-73-2 HR: 3
ISOPHOSPHAMIDE

mf: C₇H₁₅Cl₂N₂O₂P mw: 261.11

PROP: White crystals. Mp: 48–51°. Sol inn water.

SYNS: A 4942 □ ASTA Z 4942 □ N,N-BIS(β-CHLOROETHYL)-AMINO-N'-O-PROPYLENE-PHOSPHORIC ACID ESTER DIAMIDE □ 2,3-(N,N_(i))-BIS(2-CHLOROETHYL)DIAMIDO)-1,3,2-OXAZAPHOSPHORIDINOXY □ N,3-BIS(2-CHLOROETHYL)-TETRAHYDRO-2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE 2-OXIDE □ N-(2-CHLOROETHYL)-N'-(2-CHLOROETHYL)-N'-O-PROPYLENE-PHOSPHORSAEUREESTER-DIAMID (GERMAN) □ 3-(2-CHLOROETHYL)-2-((2-CHLOROETHYL)AMINO)-PERHYDRO-2H-1,3,2-OXAZAPHOSPHORINE OXIDE □ 3-(2-CHLOROETHYL)-2-((2-CHLOROETHYL)AMINO)TETRAHYDRO-2H-1,3,2-OXAZAPHOSPHORINE-2-OXIDE □ N-(2-CHLOROETHYL)-N'-(2-CHLOROETHYL)-N',O-PROPYLENEPHOSPHORIC ACID DIAMIDE □ N-(2-CHLOROETHYL)-N'-(2-CHLOROETHYL)-N',O-PROPYLENEPHOSPHORIC ACID ESTER DIAMIDE □ CYFOS □ HOLOXAN □ IFOSFAMID □ IFOSFAMIDE □ IPHOSPHAMIDE □ ISOENDOXAN □ ISOFOFAMIDE □ MITOXANA □ MJF 9325 □ NAXAMIDE □ NCI-C01638 □ NSC-109724 □ Z 4942

TOXICITY DATA with REFERENCE:

mma-sat 400 µg/plate TCMUD8 5,319,85

cyt-hmn:leu 130 mg/L HUMAA7 5,321,68

bfa-rat/sat 2 g/kg HKYAJ 26,813,80

orl-hmn TDLo:150 mg/kg:GIT,KID,SKN CNREA8 32,921,72

orl-hmn TDLo:100 mg/kg:BLD CCYPBY 3,33,72

ivn-hmn TDLo:2298 mg/kg/3D-I:KID,BLD EJCAAH 12,195,76

ivn-hmn TDLo:1915 mg/kg/2W-I:KID LANCAO 2,657,80

ivn-hmn TDLo:130 mg/kg/13D-I:KID,GIT CNREA8 32,921,72

orl-rat LD50:143 mg/kg KSRNAM 16,431,82

ipr-rat LD50:140 mg/kg USXXAM #3732340

scu-rat LD50:160 mg/kg KSRNAM 16,431,82

ivn-rat LD50:190 mg/kg KSRNAM 16,431,82

orl-mus LD50:1005 mg/kg KSRNAM 16,431,82

ipr-mus LD50:397 mg/kg ARZNAD 24,1149,74

scu-mus LD50:656 mg/kg KSRNAM 16,431,82

ivn-mus LD50:338 mg/kg KSRNAM 16,431,82

ipr-dog LDLo:50 mg/kg KSRNAM 16,431,82

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 26,237,81. NCI Carcinogenesis Bioassay (ipr); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-32,77. EPA Genetic Toxicology Program.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and neoplastigenic data. A poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Human systemic effects by ingestion and intravenous routes: nausea or vomiting; proteinuria, hematuria, inflammation, necrosis or scarring of the bladder, and other kidney, ureter, or bladder changes; changes in hair covering the skin; leukopenia (decreased white blood cell count), thrombocytopenia (decrease in the number of blood platelets); hallucinations, distorted perceptions; tumorigenic effects (active as an anti-cancer agent). Experimental teratogenic and reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic Cl^- , NO_x , and PO_x .

IMI000 CAS: 626-19-7 HR: 3
ISOPHTHALALDEHYDE

mf: $\text{C}_8\text{H}_6\text{O}_2$ mw: 134.14

PROP: Long needles. Mp: 89–90°.

SYN: ISOPHTALDEHYDES (FRENCH)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#07922

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

IMJ000 CAS: 121-91-5 HR: 1
ISOPHTHALIC ACID

mf: $\text{C}_8\text{H}_6\text{O}_4$ mw: 166.14

PROP: Colorless crystals or needles from water or alc. Mp: 345–348°. Subl without decomp. Sltly sol in water; sol in alc and acetic acid, insol in benzene and petroleum ether.

SYNS: ACIDE ISOPHTALIQUE (FRENCH) □ BENZENE-1,3-DICARBOXYLIC ACID □ m-BENZENEDICARBOXYLIC ACID □ IPA □ KYSELINA ISOFTALOVA (CZECH) □ m-PHTHALIC ACID

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 85JCAE -,317,86

orl-rat LD50:10,400 mg/kg 28ZPAK -,51,72

ipr-mus LD50:4200 mg/kg COREAF 246,851,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion and intraperitoneal routes. An eye irritant. When heated to decomposition it emits acrid smoke and fumes.

IMK000 CAS: 1087-21-4 HR: 2
ISOPHTHALIC ACID, DIALLYL ESTER

mf: $\text{C}_{14}\text{H}_{14}\text{O}_4$ mw: 246.28

SYNS: DAPPU 100 □ DI-2-PROPENYL ISOPHTHALATE □ ISOPHTHALIC ACID, DIALLYL ESTER (6Cl,7Cl,8Cl)

TOXICITY DATA with REFERENCE:

orl-uns LD50:1700 mg/kg GISAAA 39(4),86,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by unspecified route. When heated to decomposition it emits acrid smoke and fumes. See also ALLYL COMPOUNDS and ESTERS.

IMK100 CAS: 636-53-3 HR: 2

ISOPHTHALIC ACID, DIETHYL ESTER

mf: $\text{C}_{12}\text{H}_{14}\text{O}_4$ mw: 222.26

PROP: Liquid. Mp: 12°, bp: 166°, d: 1.123 @ 20°/20°. Flash pt: 325° F. Sol in most organic solvents. Insol in water.

SYN: DIETHYL ISOPHTHALATE

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:1111 mg/kg JPMSAE 56,1446,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IML000 CAS: 1459-93-4 HR: 2
ISOPHTHALIC ACID, DIMETHYL ESTER

mf: $\text{C}_{10}\text{H}_{10}\text{O}_4$ mw: 194.20

PROP: Needles from EtOH (aq). Mp: 67.8–68.3°, bp: 282°.

SYNS: 1,3-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER □ DIMETHYLESTER KYSELINY TEREFTALOVE (CZECH) □ DIMETHYL ISOPHTHALATE

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,47,72

ipr-mus LDLo:971 mg/kg JPMSAE 56,1446,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. An eye irritant. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

IMM000 CAS: 20986-33-8 HR: 3
3,3'-(ISOPHTHALOYLBIS(IMINO-p-PHENYL-ENECARBONYLIMINO))BIS(1-ETHYLPYRIDINIUM), DI-p-TOLUENESULFONATE

mf: $\text{C}_{36}\text{H}_{34}\text{N}_6\text{O}_4 \cdot 2\text{C}_7\text{H}_7\text{O}_3\text{S}$ mw: 957.16

TOXICITY DATA with REFERENCE:

dnd-mus:lym 900 nmol/L JMCMA 22,134,79

ipr-mus LD10:12 mg/kg JMCMA 22,134,79

SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x .

IMO000 CAS: 99-63-8 HR: 2
ISOPHTHALOYL CHLORIDE

mf: $\text{C}_8\text{H}_4\text{Cl}_2\text{O}_2$ mw: 203.02

($\text{CO} \cdot \text{Cl}$) C_6H_4 ($\text{CO} \cdot \text{Cl}$)

PROP: White, crystalline solid. Sol in benzene and carbon tetrachloride; Bp: 276°, fp: 43.3°, d: 1.387 @ 46.9°, flash p: 356°F (COC), vap d: 6.9. Mp: 41°; decomp in water and alc.

SYNS: 1,3-BENZENEDICARBONYL CHLORIDE □ ISOPHTHALIC ACID CHLORIDE □ ISOPHTHALIC ACID DICHLORIDE □ ISOPHTHALOYL DICHLORIDE □ ISOPHTHALYL DICHLORIDE □ m-PHTHALIC DICHLORIDE □ m-PHTHALOYL CHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg open MOD UCDS** 11/3/71

eye-rbt 40 mg MLD UCDS** 11/3/71

eye-rbt 3 mg MOD 34ZIAG -,339,69

orl-rat LD50:2200 mg/kg 34ZIAG -,475,69
 orl-mus LD50:2221 mg/kg GISAAA 47(7),75,82
 orl-rbt LD50:1175 mg/kg GISAAA 47(7),75,82
 skn-rbt LD50:1410 mg/kg TXAPA9 28,313,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and eye irritant. Combustible when exposed to heat or flame. Reacts violently with methanol. To fight fire, use dry chemical, CO₂, spray, mist. When heated to decomposition it emits toxic fumes of Cl⁻.

IMO500 CAS: 482-27-9 HR: 3
ISOPIMPINELLIN

PROP: Coumarin derivative isolated from Cnidii

Monnieri Fructus extract

mf: C₁₃H₁₀O₅ mw: 246.22

SYN: 7H-FURO(3,2-G)(1)BENZOPYRAN-7-ONE, 4,9-DIMETHOXY-

TOXICITY DATA with REFERENCE:

orl-mus TDLo:20 mg/kg BIPBU* 25,260,2002

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

IMQ000 CAS: 76-00-6 HR: 2
ISOPRAL

mf: C₃H₅Cl₃O mw: 163.43

PROP: Crystals, camphor-like odor, pungent taste, water-sol. Mp: 50°, bp: 162°.

SYNS: TRICHLOROISOPROPANOL □ 1,1,1-TRICHLOROISOPROPYL ALCOHOL □ 1,1,1-TRICHLORO-2-PROPANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1 g/kg JPETAB 63,183,38

scu-mus LDLo:500 mg/kg HDTU** -,33

SAFETY PROFILE: Moderately toxic by subcutaneous route. See also ALCOHOLS and CHLORINATED HYDROCARBONS, ALIPHATIC.

IMR000 CAS: 51-30-9 HR: 3
ISOPRENALINE HYDROCHLORIDE

mf: C₁₁H₁₇NO₃ClH mw: 247.75

PROP: A solid. Mp: 170–171°. Insol in CHCl₃, Et₂O, and C₆H₆.

SYNS: 3,4-DIHYDROXY-α-((ISOPROPYLAMINO)METHYL)BENZYL ALCOHOL HYDROCHLORIDE □ EUSPIRAN □ 4-(1-HYDROXY-2-((1-METHYLETHYL)AMINO)ETHYL)-1,2-BENZENEDIOL HYDROCHLORIDE □ ISADRINE □ ISADRINE-HYDROCHLORIDE □ ISOPRENALINE CHLORIDE □ α-(ISOPROPYLAMINOMETHYL)-3,4-DIHYDROXYBENZYL ALCOHOL HYDROCHLORIDE □ ISOPROPYLARTERENOL HYDROCHLORIDE □ ISOPROPYLNOREPINEPHRINE-HYDROCHLORIDE □ ISOPROTERENOL HYDROCHLORIDE □ ISOPROTERENOL MONOHYDROCHLORIDE □ ISUPREL □ ISUPREL HYDROCHLORIDE □ IZADRIN □ NCI-C55630 □ NORISODRINE HYDROCHLORIDE □ SAVENTRINE □ VAPO-ISO

TOXICITY DATA with REFERENCE:

oms-rat:oth 5 μmol/L INOPAO 13,210,74

cyt-ham:ovr 400 mg/L EMMUEG 10(Suppl 10),1,87

orl-rat LD50:2221 mg/kg TXAPA9 18,185,71

ipr-rat LD50:203 mg/kg NIIRDN 6,74,82

scu-rat LD20:100 μg/kg FAATDF 1,443,81
 invn-rat LD50:26,900 μg/kg YACHDS 7,627,79
 orl-mus LD50:1260 mg/kg DRUGAY -,119,90
 ipr-mus LD50:450 mg/kg JPETAB 90,110,47
 scu-mus LD50:60 mg/kg YKYUA6 24,431,73
 invn-mus LD50:96,300 μg/kg TXAPA9 23,537,72

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

IMS000 CAS: 78-79-5 HR: 3
ISOPRENE

DOT: UN 1218

mf: C₅H₈ mw: 68.13



PROP: Colorless, volatile liquid. Mp: -146.7°, bp: 34°, flash p: -65°F, d: 0.6806 @ 20°/4°, autoign temp: 428°F, vap press: 400 mm @ 15.4°, vap d: 2.35; fp: -145.95°. Insol in water; misc in alc and ether.

SYNS: ISOPRENE, INHIBITED (DOT) □ β-METHYLBIVINYLYL □ 2-METHYLBUTADIENE □ 2-METHYL-1,3-BUTADIENE (DOT)

TOXICITY DATA with REFERENCE:

ihl-rat LC50:180 g/m³/4H RPTOAN 31,162,68

ihl-mus LC50:139 g/m³/2H GTPZAB 9(1),36,65

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Confirmed carcinogen. Mildly toxic by inhalation. Irritating to skin, eyes, and mucous membranes. A concentration of 2% in air is not narcotic to mice but produces bronchial irritation. Highly dangerous fire hazard when exposed to heat, flame, or oxidizers. Reacts with air to form dangerously unstable peroxides that can explode after concentration by evaporation. Ignites on contact with oxygen + ozone. Reacts with ozone to form explosive peroxides. Explosive reaction with vinylamine. Violent reaction with chlorosulfonic acid, HNO₃, oleum, H₂SO₄. Can react vigorously with reducing materials. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES.

IMS100 CAS: 18860-95-2 HR: 3
ISOPRENE DIBROMIDE

mf: C₅H₈Br₂ mw: 227.95

SYNS: 2-BUTENE, 1,4-DIBROMO-2-METHYL- □ 1,4-DIBROMOISOPRENE □ 1,4-DIBROMO-2-METHYL-2-BUTENE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:2100 ppb/4H TOXID9 3,25,83

ihl-mus LC50:5500 ppb/4H TOXID9 3,25,83

SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits toxic vapors of Br⁻.

IMS300 CAS: 64506-49-6 HR: D
ISOPRENYL CHALCONE

mf: C₂₇H₃₀O₆ mw: 450.57

PROP: Light yellow needles from ethanol. Mp: 143–144°.

SYNS: 2'-CARBOXYMETHOXY-4,4'-BIS(3-METHYL-2-BUTENYLOXY)CHALCONE □ SOFALCONE □ SOLON □ SU-88

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

IMT000 CAS: 64-39-1 HR: 3
ISOPROMEDOL

mf: C₁₇H₂₅NO₂ mw: 275.43

PROP: Narcotic, analgesic.

SYNS: 4-PHENYL-1,2,5-TRIMETHYL-4-PIPERIDINOL PROPIONATE □ PROMEDOL □ TRIMEPERDINE □ 1,2,5-TRIMETHYL-4-PHENYL-4-PIPERIDINOL, PROPIONATE (ESTER) □ 1,2,5-TRIMETHYL-4-PHENYL-4-PROPIONOXYPIPERIDINE

TOXICITY DATA with REFERENCE:

scu-rat LD50:38 mg/kg PCJOAU 14,850,80
ivn-rat LD50:22 mg/kg PCJOAU 8,189,74
ipr-mus LD50:137 mg/kg PCJOAU 10,1193,76
scu-mus LD50:200 mg/kg PCJOAU 10,1193,76
ivn-mus LD50:38 mg/kg RPTOAN 31,318,68

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

IMU000 CAS: 75-33-2 HR: 3
ISOPROPANETHIOL

DOT: UN 1228/UN 3071

mf: C₃H₈S mw: 76.17
(CH₃)₂CHSH

PROP: Liquid, extremely powerful unpleasant odor. Mp: -130.7°, bp: 58-60°, d: 0.814 @ 60°/60°F, boiling range: 51-55°, flash p: -30°F. Sltly sol in water; misc in alc and ether.

SYNS: ISOPROPYL MERCAPTAN (DOT) □ ISOPROPYLTHIOL □ 2-MERCAPTOPROPANE □ 1-METHYLETHANETHIOL □ 2-PROPANETHIOL □ 2-PROPYL MERCAPTAN

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

SAFETY PROFILE: Probably moderately toxic by inhalation. A flammable liquid and very dangerous fire hazard when exposed to heat, flame, or oxidizers. When heated to decomposition it emits highly toxic fumes of SO_x. See also MERCAPTANS.

IMV000 HR: 2
ISOPROPANOLAMINES

PROP: Clear liquid. Mp: 29.5°, bp: 159°, flash p: 160°F (OC), d: 0.962, vap d: 2.58. Very sol in water; sol in alc; insol in ether. 12% mono-, 44% di-, 44% triisopropanolamine (JIHTAB 23,259,41).

SYN: ISOPROPANOLAMINES, mixed

TOXICITY DATA with REFERENCE:

eye-rbt 2 mg SEV AJOPAA 29,1363,46
orl-rat LD50:5240 mg/kg UCDS** 4/25/58
skn-rbt LD50:8900 mg/kg UCDS** 4/25/58
orl-gpg LD50:1520 mg/kg JIHTAB 23,259,41

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. A severe 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 toxic fumes of NO_x. See also AMINES.

IMW000 CAS: 513-42-8 HR: 3
ISOPROPENYL CARBINOL

DOT: UN 2614

mf: C₄H₈O mw: 72.12

PROP: Liquid. D: 0.852 @ 20°/4°C, bp: 114.5°. Sol in water @ 25°.

SYNS: METHALLYL ALCOHOL (DOT) □ 2-METHYL-2-PROPEN-1-OL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD SCCUR* -,6,61
orl-mus LDLo:500 mg/kg SCCUR* -,6,61
ihl-mus LCLo:2924 ppm/2H SCCUR* -,6,61
skn-rbt LDLo:2000 mg/kg SCCUR* -,6,61

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Mildly toxic by inhalation. A skin irritant. Flammable when exposed to heat or flame. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS and ALLYL COMPOUNDS.

IMW500 CAS: 25044-01-3 HR: 2
ISOPROPENYL ETHYL KETONE

mf: C₆H₁₀O mw: 98.16

SYNS: ETHYL ISOPROPENYL KETONE □ 2-METHYL-1-PENTEN-3-ONE □ 1-PENTEN-3-ONE, 2-METHYL-

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/24H SEV NTIS** OTS0539338-1
eye-rbt 100 µL/24H MLD NTIS** OTS0539338-1
orl-rat LD50:419 mg/kg NTIS** OTS0539338-1
skn-rbt LD50:841 mg/kg NTIS** OTS0539338-1

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

IMX000 CAS: 67262-74-2 HR: 3
2'-ISOPROPENYL-2-(2-METHOXYETHYLAMINO-PROPRIONANILIDE OXALATE

mf: C₁₅H₂₂N₂O₂•C₂H₂O₄ mw: 352.43

TOXICITY DATA with REFERENCE:

ipr-mus LD50:350 mg/kg JPMSAE 67,595,78
ivn-mus LD50:55 mg/kg JPMSAE 67,595,78

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

IMX100 CAS: 1605-18-1 HR: 2
p-ISOPROPENYL- α -METHYLSTYRENE

mf: C₁₂H₁₄ mw: 158.26

SYNS: BENZENE, 1,4-BIS(1-METHYLETHENYL)- □ BENZENE, p-DIISOPROPENYL-(6Cl,7Cl,8Cl) □ 1,4-BIS(1-METHYLETHEN-

YL)BENZENE □ p-DIISOPROPENYLBENZENE □ 1,4-DIISOPROPENYLBENZENE

TOXICITY DATA with REFERENCE:

orl-rat LD: >10 mL/kg AMIHAB 19,403,59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IMX150 CAS: 6933-90-0 HR: 3
ISOPROPHENAMINE HYDROCHLORIDE

mf: $C_{11}H_{16}ClNO \cdot ClH$ mw: 250.19

SYNS: BENZENEMETHANOL, 2-CHLORO- α -((1-METHYLETHYL)AMINO)METHYL-, HYDROCHLORIDE □ BENZYL ALCOHOL, o-CHLORO- α -((ISOPROPYLAMINO)-METHYL)-, HYDROCHLORIDE □ N-ISOPROPYL-2-HYDROXY-2-(o-CHLOROPHENYL)ETHYLAMINE HYDROCHLORIDE □ (+)-1-o-CHLOROPHENYL-2-ISOPROPYLAMINOETHANOL HYDROCHLORIDE □ CLORPRENOLINE HYDROCHLORIDE □ USAF EL-50

TOXICITY DATA with REFERENCE:

orl-rat LD50:445 mg/kg NIIRDN-438,1995

orl-mus LD50:550 mg/kg NYKZAU 65,93,1969

ipr-mus LD50:100 mg/kg NTIS** AD277-689

scu-mus LD50:293 mg/kg NYKZAU 65,93,1969

ivn-mus LD50:61 mg/kg NYKZAU 65,93,1969

orl-dog LD50: >400 mg/kg NIIRDN-438,1995

ivn-rbt LDLo:50 mg/kg NYKZAU 65,93,1969

SAFETY PROFILE: A poison by intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x , HCl, and Cl^- .

INA200 CAS: 29026-74-2 HR: 2
o-ISOPROPOXYANILINE

mf: C_9H_9NO mw: 151.23

SYNS: o-IPA □ o-IZOPROPOKSYANILINA (POLISH) □ 2-(1-METHYLETHOXY)-BENZENAMINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:840 mg/kg MEPAAX 28,157,77

skn-rat LDLo:2200 mg/kg MEPAAX 28,157,77

ipr-rat LDLo:200 mg/kg MEPAAX 28,157,77

SAFETY PROFILE: Moderately toxic by skin contact, ingestion, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x . See also ANILINE DYES.

INA400 CAS: 83053-59-2 HR: 2
11-ISOPROPOXY-15,16-DIHYDRO-17-CYCLOPENTA(a)PHENANTHREN-17-ONE

mf: $C_{20}H_{18}O_2$ mw: 290.38

TOXICITY DATA with REFERENCE:

mma-sat 20 μ g/plate CRNGDP 3,677,82

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

INA500 CAS: 109-59-1 HR: 2
2-ISOPROPOXYETHANOL

mf: $C_5H_{12}O_2$ mw: 104.17

PROP: Bp: 144° @ 743 mm.

SYNS: DOWANOL EIPAT □ ETHYLENE GLYCOL ISOPROPYL ETHER □ ETHYLENE GLYCOL, MONOISOPROPYL ETHER □ β -HYDROXYETHYL ISOPROPYL ETHER □ ISOPROPYL CELLOSOLVE □ ISOPROPYL GLYCOL □ MONOISOPROPYL ETHER of ETHYLENE GLYCOL

TOXICITY DATA with REFERENCE:

skn-rbt 20 mg/24H MOD 85JCAE -,627,86

eye-rbt 500 mg/24H MLD 85JCAE -,627,86

orl-rat LD50:5660 mg/kg AIHAAP 30,470,69

ihl-rat LC50:3100 mg/ m^3 /4H 85GMAT -,67,82

ipr-rat LD50:800 mg/kg 85GMAT -,67,82

orl-mus LD50:4900 mg/kg 85GMAT -,67,82

ihl-mus LC50:1930 ppm/7H JIHTAB 25,157,43

ipr-mus LD50:1860 mg/kg 85GMAT -,67,82

skn-rbt LD50:1600 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 25 ppm

ACGIH TLV: TWA 25 ppm

DFG MAK: 5 ppm (22 mg/ m^3)

SAFETY PROFILE: Moderately toxic by skin contact and intraperitoneal routes. Mildly toxic by inhalation and ingestion. A skin and eye irritant. When heated to decomposition it emits acrid smoke and fumes. See also GLYCOL ETHERS.

IND000 CAS: 67952-46-9 HR: 2
(2-ISOPROPOXYETHYL)CARBAMATE

mf: $C_6H_{13}NO_3$ mw: 147.20

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:4000 mg/kg UCPHAQ 1,93,38

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 . See also CARBAMATES.

INE000 CAS: 67465-43-4 HR: 3
N-(2-ISOPROPOXY-3-HYDROXYMERCURIPROPYL)BARBITAL

mf: $C_{14}H_{24}HgN_2O_5$ mw: 500.99

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

SYN: HYDROXY(3-(5,5-DIETHYL-2,4,6-TRIOXO-(1H,3H,5H)PYRIMIDINO)-2-ISOPROPOXYPROPYL)MERCURY

TOXICITY DATA with REFERENCE:

ivn-rat TDLo:23,100 μ g/kg JAPMA8 37,333,48

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

OSHA PEL: CL 0.1 mg(Hg)/ m^3 (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/ m^3 (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/ m^3 (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.

INE025 CAS: 17595-59-4 HR: 3
2-ISOPROPOXY-4-HYDROXYPHENYLMETHYL-CARBAMATE

mf: C₁₁H₁₅NO₄ mw: 225.27

SYNS: CARBAMIC ACID, METHYL-, 4-HYDROXY-2-ISOPROPOXYPHENYL ESTER □ 4-HYDROXY BAYGON □ METHYL-CARBAMIC ACID 4-HYDROXY-2-ISOPROPOXY-PHENYL ESTER □ 1,3-PROPANEDIOL, 2,2-DI-p-TOLYL-, MONO(METHYL-CARBAMATE)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:52 mg/kg JAFCAU 16,561,1968

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

INE050 CAS: 55814-41-0 HR: 1
3'-ISOPROPOXY-2-METHYLBENZANILIDE

mf: C₁₇H₁₉NO₂ mw: 269.37

PROP: Pesticide.

SYNS: B1-2459 □ BASITAC □ BENZAMIDE, 2-METHYL-N-(3-(1-METHYLETHOXY)PHENYL)- □ KCO-1 □ MEPRONIL □ MEPRONIL (PESTICIDE) □ 2-METHYL-N-(3-(1-METHYLETHOXY)PHENYL)BENZAMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:10 g/kg PEMNDP 9,549,91

skn-rat LD50:>10 g/kg JPIFAN (38),17,81

ipr-rat LD50:>5 g/kg JPIFAN (38),17,81

orl-mus LD50:10 g/kg PEMNDP 9,549,91

skn-mus LD50:>10 g/kg JPIFAN (38),17,81

ipr-mus LD50:>5 g/kg JPIFAN (38),17,81

orl-rbt LD50:>10 g/kg JPIFAN (38),17,81

skn-rbt LD50:10 g/kg PEMNDP 9,549,91

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

INE055 CAS: 68334-67-8 HR: 2
1-ISOPROPOXYPENTACHLOROBUTADIENE

mf: C₇H₇Cl₅O mw: 284.39

SYNS: 1,3-BUTADIENE, 1,1,2,3,4-PENTACHLORO-4-(1-METHYLETHOXY)- □ 1,1,2,3,4-PENTACHLORO-4-(1-METHYLETHOXY)-1,3-BUTADIENE

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/24H SEV NTIS** OTS0535869

orl-rat LD50:1210 mg/kg NTIS** OTS0535869

ihl-rat LC :>38 g/m³/1H NTIS** OTS0535869

skn-rbt LDLo:1 g/kg NTIS** OTS0535869

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Low toxicity by inhalation. A severe skin irritant. When heated to decomposition it emits toxic vapors of Cl⁻.

INE062 CAS: 77276-08-5 HR: 3
2-ISOPROPOXYPHENYL(METHYL)(TERTBUTOXY-SULFINYL)CARBAMATE

mf: C₁₅H₂₃NO₅S mw: 329.45

SYNS: CARBAMIC ACID, (((1,1-DIMETHYLETHOXY)SULFINYL)METHYL)-, 2-(1-METHYLETHOXY)PHENYL ESTER □ 2-(1-

METHYLETHOXY)PHENYL (((1,1-DIMETHYLETHOXY)SULFINYL)METHYL)CARBAMATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:400 mg/kg USXXAM #4263318

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

INE065 CAS: 77267-49-3 HR: 2
2-ISOPROPOXYPHENYL (METHYL)(N-HEXOXY-SULFINYL)CARBAMATE

mf: C₁₇H₂₇NO₅S mw: 357.51

SYNS: CARBAMIC ACID, ((HEXYLOXY)SULFINYL)METHYL-, 2-(1-METHYLETHOXY)PHENYL ESTER □ 2-(1-METHYLETHOXY)PHENYL ((HEXYLOXY)SULFINYL)METHYL-CARBAMATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:>1 g/kg USXXAM #4263318

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

INE068 CAS: 81861-97-4 HR: 3
N,N'-(3-ISOPROPOXY-1,2-PROPANEDIOXY-SULFINYL)BIS(S-METHYL-N-METHYL-CARBAMOYLOXYTHIOACETAMIDATE)

mf: C₁₆H₃₀N₄O₉S₄ mw: 550.74

SYN: ETHANIMIDOTHIOIC ACID, N,N'-((1-((1-METHYLETHOXY)METHYL)-1,2-ETHANEDIYL) BIS(OXYSULFINYL-(METHYLIMINO)CARBONYLOXY))BIS-, DIMETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD50:170 mg/kg USXXAM #4315026

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

INE075 CAS: 81862-11-5 HR: 2
N,N'-(3-ISOPROPOXY-1,2-PROPANEDIOXY-SULFINYL)BIS(3-METHYLPHENYLMETHYL-CARBAMATE)

mf: C₂₄H₃₂N₂O₉S₂ mw: 556.70

SYN: 4,7-DIOXA-3,8-DITHIA-2,9-DIAZADECANEDIOIC ACID, 2,9-DIMETHYL-5-((1-METHYLETHOXY)METHYL)-, BIS(3-METHYLPHENYL) ESTER, 3,8-DIOXIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:>1 g/kg USXXAM #4315026

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

INE085 CAS: 81862-19-3 HR: 2
N,N'-(3-ISOPROPOXY-1,2-PROPANEDIOXYSULFINYL)BIS(1-NAPHTHYLMETHYL-CARBAMATE)

mf: C₃₀H₃₂N₂O₉S₂ mw: 628.76

SYN: 4,7-DIOXA-3,8-DITHIA-2,9-DIAZADECANEDIOIC ACID, 2,9-DIMETHYL-5-((1-METHYLETHOXY)METHYL)-, DI-1-NAPHTHALENYL ESTER, 3,8-DIOXIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:>1 g/kg USXXAM #4315026

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

INE100 CAS: 108-21-4 HR: 3**ISOPROPYL ACETATE****DOT:** UN 1220mf: C₅H₁₀O₂ mw: 102.15**PROP:** Colorless, aromatic liquid. Mp: -73°, bp: 88.4°, lel: 1.8%, uel: 7.8%, fp: -69.3°, flash p: 40°F, d: 0.874 @ 20°/20°, autoign temp: 860°F, vap press: 40 mm @ 17.0°. Sltly sol in water; misc in alc, ether, fixed oils. IDLH 1800 ppm.**SYNS:** ACETATE d'ISOPROPYLE (FRENCH) □ ACETIC ACID ISOPROPYL ESTER □ ACETIC ACID-1-METHYLETHYL ESTER (9CI) □ 2-ACETOXYPROPANE □ FEMA No. 2926 □ ISOPROPILE (ACETATO di) (ITALIAN) □ ISOPROPYLACETAAT (DUTCH) □ ISOPROPYLACETAT (GERMAN) □ ISOPROPYL (ACETATE d') (FRENCH) □ ISOPROPYLESTER KYSELINY OCTOVE □ 2-PROPYL ACETATE**TOXICITY DATA with REFERENCE:**eye-hmn 200 ppm/15M JIHTAB 28,262,46
eye-rbt 500 mg AMIHBC 10,61,54
ihl-hmn TCLo:200 ppm:IRR AMIHAB 21,28,60
unk-hmn TCLo:200 ppm:EYE JIHTAB 28,262,46
orl-rat LD50:3000 mg/kg 14CYAT 2,187,63
ihl-rat LCLo:32,000 ppm/4H AMIHBC 10,61,54
orl-rbt LD50:6946 mg/kg IMSUAI 41,31,72**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 250 ppm; STEL 310 ppm**ACGIH TLV:** TWA 100 ppm; STEL 200 ppm**DFG MAK:** 200 ppm (850 mg/m³)**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by ingestion. Mildly toxic by inhalation. See also ESTERS. Human systemic irritant effects by inhalation and systemic eye effects by an unspecified route. Narcotic in high concentration. Chronic exposure can cause liver damage. Highly flammable liquid. Dangerous fire hazard when exposed to heat, flame, or oxidizers. Moderately explosive when exposed to heat or flame. Dangerous; keep away from heat and open flame; can react vigorously with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. See also ESTERS.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Isopropyl Acetate, S50.**ING300 CAS: 70715-91-2 HR: D**
N-ISOPROPYL-N-(ACETOXYMETHYL)NITROS-AMINEmf: C₆H₁₂N₂O₃ mw: 160.20**SYN:** ((1-METHYLETHYL)NITROSOAMINO)-METHANOL ACETATE (ESTER) (9CI)**TOXICITY DATA with REFERENCE:**mmo-sat 5 µmol/plate GANNA2 70,663,79
mmo-esc 25 µmol/plate GANNA2 70,663,79**SAFETY PROFILE:** Mutation data reported. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.**ING400 CAS: 4212-94-6 HR: 2**
ISOPROPYL-N-ACETOXY-N-PHENYL-CARBAMATEmf: C₁₂H₁₅NO₄ mw: 237.28**SYNS:** o-ACETYL-N-CARBOXY-N-PHENYL-HYDROXYLAMINE ISOPROPYL ESTER □ (ACETYLOXY)PHENYL-CARBAMIC ACID □ ACYLATE □ ACYLATE-1 □ N-CARBOISOPROPOXY-o-ACETYL-N-PHENYL CARBAMATE**TOXICITY DATA with REFERENCE:**orl-rat LD50:3400 mg/kg 85GMAT -,32,82
ihl-rat LC50:1170 mg/m³/6H 85GMAT -,32,82
orl-mus LD50:2075 mg/kg 85GMAT -,32,82**SAFETY PROFILE:** Moderately toxic by inhalation and ingestion routes. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES and ESTERS.**ING509 HR: 3****2-ISOPROPYL ACRYLALDEHYDE OXIME**mf: C₆H₁₁NO mw: 113.16**SAFETY PROFILE:** Reacts in air to form heat-sensitive explosive peroxides. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES.**INH000 CAS: 2210-25-5 HR: 3****N-ISOPROPYLACRYLAMIDE**mf: C₆H₁₁NO mw: 113.18**PROP:** Cream colored powder. Mp: 64°. Sol in water.**SYNS:** ISOPROPYL ACRYLAMIDE □ ISOPROPYLAMID KYSELINY AKRYLOVE □ N-(1-METHYLETHYL)-2-PROPENAMIDE □ NIPAM □ 2-PROPENAMIDE, N-(1-METHYLETHYL)-(9CI)**TOXICITY DATA with REFERENCE:**spm-mus-orl 238 mg/kg/5W-C ARTODN 59,201,86
orl-mus LD50:419 mg/kg ARTODN 47,179,81
ipr-mus LDLo:500 mg/kg CBCCT* 6,51,54**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion. Moderately toxic by intraperitoneal route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AMIDES.**INJ000 CAS: 67-63-0 HR: 3****ISOPROPYL ALCOHOL****DOT:** UN 1219mf: C₃H₈O mw: 60.11
(CH₃)₂CHOH**PROP:** Clear, colorless liquid; slt odor, sltly bitter taste. Mp: -88.5 to -89.5°, bp: 82.5°, lel: 2.5%, uel: 12%, flash p: 53°F (CC), d: 0.7854 @ 20°/4°, refr index: 1.377 @ 20°, vap d: 2.07, ULC: 70, fp: -89.5°, autoign temp: 852°F. Misc with water, alc, ether, chloroform; insol in salt solns. IDLH 2000 ppm [10%LEL].**SYNS:** ALCOOL ISOPROPILICO (ITALIAN) □ ALCOOL ISOPROPYLIQUE (FRENCH) □ DIMETHYLCARBINOL □ ISOHOL □ ISOPROPANOL (DOT) □ ISO-PROPYLALKOHOL (GERMAN) □ LUTOSOL □ PETROHOL □ i-PROPANOL (GERMAN) □ PROPAN-2-OL □ 2-PROPANOL □ sec-PROPYL ALCOHOL (DOT) □ i-PROPYLALKOHOL (GERMAN) □ SPECTRAR**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg MLD NTIS** AD-A106-944

eye-rbt 16 mg AJOPAA 29,1363,46
 eye-rbt 10 mg MOD TXAPA9 55,501,80
 cyt-smc 200 mmol/tube HERAY 33,457,47
 cyt-rat-ihl 1030 µg/m³/16W-I GTPZAB 25(7),33,81
 orl-man TDL₀:14,432 mg/kg:CNS,CVS,PUL NEJMAG 277,699,67
 orl-hmn TDL₀:223 mg/kg:CNS,CVS JLCMAK 12,326,27
 orl-man LDL₀:5272 mg/kg AJCPAI 38,144,62
 orl-hmn LDL₀:3570 mg/kg:CNS,PUL,GIT 34ZIAG - 339,69
 unr-man LDL₀:2770 mg/kg 85DCAI 2,73,70
 orl-rat LD50:5045 mg/kg GISAAA 43(1),8,78
 ihl-rat LCL₀:16,000 ppm/4H JIDHAN 31,343,49
 ipr-rat LD50:2735 mg/kg EVHPAZ 61,321,85
 ivn-rat LD50:1099 mg/kg EVHPAZ 61,321,85
 orl-mus LD50:3600 mg/kg GISAAA 43(1),8,78
 ihl-mus LCL₀:12,800 ppm/3H IAEC** 17JUN74
 ipr-mus LD50:4477 mg/kg EVHPAZ 61,321,85
 scu-mus LDL₀:6000 mg/kg HBTXAC 1,172,56
 ivn-mus LD50:1509 mg/kg EVHPAZ 61,321,85
 orl-dog LD50:4797 mg/kg JLCMAK 29,561,44
 ivn-dog LDL₀:5120 mg/kg JLCMAK 29,561,44
 ivn-cat LDL₀:1963 mg/kg HBTXAC 1,172,55
 orl-rbt LD50:6410 mg/kg FAONAU 48A,114,70
 skn-rbt LD50:12,800 mg/kg NPRI* 1,100,74

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,229,87. The isopropyl alcohol strong acid manufacturing process is on the Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 400 ppm; STEL 500 ppm

ACGIH TLV: TWA 200 ppm; STEL 400 ppm; Not Classifiable as a Human Carcinogen

DFG MAK: 200 ppm (500 mg/m³)

NIOSH REL: (Isopropyl Alcohol) TWA 400 ppm; CL 800 ppm/15M

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic to humans by an unspecified route. Moderately toxic experimentally by intravenous and intraperitoneal routes. Mildly toxic by skin contact. Human systemic effects by ingestion or inhalation: flushing, pulse rate decrease, blood pressure lowering, anesthesia, narcosis, headache, dizziness, mental depression, hallucinations, distorted perceptions, dyspnea, respiratory depression, nausea or vomiting, coma. Experimental teratogenic and reproductive effects. Mutation data reported. An eye and skin irritant. Questionable carcinogen.

The single lethal dose for a human adult is about 250 mL, although as little as 100 mL can be fatal. It can cause corneal burns and eye damage. Acts as a local respiratory irritant and in high concentration as a narcotic. It has good warning properties because it causes a mild irritation of the eyes, nose, and throat at a concentration level of 400 ppm. It may induce a mild narcosis, the effects of which are usually transient, and it is somewhat less toxic than the normal isomer, but twice as volatile.

There is some evidence that humans can acquire a slight tolerance to this material. It is absorbed by the skin, but single or repeated applications on the skin of rats, rabbits, dogs, or human beings induced no untoward effects. It acts very much like ethanol in regard to absorption, metabolism, and elimination but with a

stronger narcotic action. Chronic injuries have been detected in animals. Workers producing isopropanol show an excess of sinus and laryngeal cancers. This may be caused, completely or in part, by the by-product, isopropyl oil. Humans have ingested up to 20 mL diluted with water and noticed only a sensation of heat and slight lowering of the blood pressure. There are, however, reports of serious illness from as little as 10 mL taken internally. A common air contaminant.

Flammable liquid. A very dangerous fire hazard when exposed to heat, flame, or oxidizers. Moderately explosive when exposed to heat or flame. Reacts with air to form dangerous peroxides. The presence of 2-butanone increases the reaction rate for peroxide formation. Hydrogen peroxide sharply reduces the autoignition temperature. Violent explosive reaction when heated with aluminum isopropoxide + crotonaldehyde + heat. Forms explosive mixtures with trinitromethane, hydrogen peroxide (similar in power and sensitivity to glyceryl nitrate). Reacts with barium perchlorate to form the highly explosive propyl perchlorate. Ignites on contact with dioxygenyl tetrafluoroborate, chromium trioxide, potassium tert-butoxide (after a delay). Reacts with oxygen to form dangerously unstable peroxides. Vigorous reaction with sodium dichromate + sulfuric acid, aluminum (after a delay period). Reacts violently with H₂ + Pd, nitroform, oleum, COCl₂, Al triisopropoxide, oxidants. Can react vigorously with oxidizing materials. To fight fire, use CO₂, dry chemical, alcohol foam. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Alcohols I, 1400.

INK000 CAS: 75-31-0 HR: 3
ISOPROPYLAMINE

DOT: UN 1221

mf: C₃H₉N mw: 59.13
 (CH₃)₂CHNH₂

PROP: Colorless liquid; amino odor. Mp: -101.2°, flash p: -35°F (OC), d: 0.694 @ 15°/4°, autoign temp: 756°F, d: 2.03, bp: 33-34°, lel: 2.3%, uel: 10.4%. Misc with water, alc, and ether.

SYNS: 2-AMINO-PROPAAN (DUTCH) □ 2-AMINOPROPAN (GERMAN) □ 2-AMINOPROPANE □ 2-AMINO-PROPANO (ITALIAN) □ ISOPROPILAMINA (ITALIAN) □ 1-METHYLETHYLAMINE □ MONOISOPROPYLAMINE □ 2-PROPANAMINE □ sec-PROPYLAMINE □ 2-PROPYLAMINE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV 28ZPAK -,62,72
 skn-rbt 345 mg open MOD UCDS** 11/15/71
 skn-rbt 10 mg/24H open SEV AMIHBC 4,119,51
 eye-rbt 50 µg open SEV AMIHBC 4,119,51
 eye-rbt 50 µg/24H SEV 28ZPAK -,62,72
 orl-rat LD50:820 mg/kg UCDS** 11/15/71
 ihl-rat LC50:4000 ppm/4H IAEC** 17JUN74
 orl-mus LD50:2200 mg/kg GISAAA 45(3),79,80
 ihl-mus LCL₀:7000 ppm/40M SCCUR* -,7,61
 orl-rbt LD50:3200 mg/kg GISAAA 45(3),79,80
 skn-rbt LD50:380 mg/kg IAEC** 17JUN74
 skn-rbt LD50:550 mg/kg IAEC** 17JUN74
 orl-gpg LD50:2700 mg/kg GISAAA 45(3),79,80

ihl-mam LC50:1800 mg/m³ TPKVAL 14,80,75**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 5 ppm; STEL 10 ppm**ACGIH TLV:** TWA 5 ppm; STEL 10 ppm**DFG MAK:** 5 ppm (12 mg/m³)**DOT CLASSIFICATION:** 3; Label: Flammable Liquid; DOT Class: 3; Label: Flammable Liquid, Corrosive**SAFETY PROFILE:** Poison by skin contact.

Moderately toxic by ingestion. Mildly toxic by inhalation.

A severe skin and eye irritant. Occasionally contact causes sensitization. Narcotic in high concentration. Very dangerous fire hazard and moderate explosion hazard when exposed to sparks, heat, flame, or oxidizers. Can react vigorously with oxidizing materials. Reacts with perchloryl fluoride to form an explosive liquid.

Incompatible with 1-chloro-1,3-epoxypropane. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.**INL000 CAS: 15572-56-2 HR: 2**
ISOPROPYLAMINE HYDROCHLORIDEmf: C₃H₉N•ClH mw: 95.59**PROP:** A solid. Mp: 153–155°.**SYNS:** MONOISOPROPYLAMINE HYDROCHLORIDE □ 2-PROPANAMINE, HYDROCHLORIDE (9CI)**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:1545 mg/kg YKKZAJ 97,1117,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also AMINES.**INM000 CAS: 3615-24-5 HR: 3**
4-(ISOPROPYLAMINO)ANTIPYRINEmf: C₁₄H₁₉N₃O mw: 245.36**PROP:** Crystals from Me₂CO/AcOH. Mp: 80°.**SYNS:** 1,2-DIHYDRO-1,5-DIMETHYL-4-((1-METHYLETHYL)-AMINO)-2-PHENYL-3H-PYRAZOL-3-ONE □ ISOPIRINA □ ISOPROPYLAMINOANTIPYRINE □ 4-ISOPROPYLAMINO-2,3-DIMETHYL-1-PHENYL-3-PYRAZOLIN-5-ONE □ ISOPROPYL-AMINOPHENAZON □ ISOPROPYLAMINOPHEN-AZONE □ 4-ISOPROPYLAMINO-1-PHENYL-2,3-DIMETHYL-3-PYRAZOLIN-5-ONE □ ISOPYRIN □ ISOPYRINE □ 4-MONOISOPROPYL-AMINO-1-PHENYL-2,3-DIMETHYL-5-PYRAZOLONE □ 1-PHENYL-2,3-DIMETHYL-4-(ISOPROPYLAMINO)-2-PYRAZOLIN-5-ONE □ 1-PHENYL-2,3-DIMETHYL-4-ISOPROPYLAMINO-PYRAZOLONE □ TOMANOL-WIRKSTOFF**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:715 mg/kg ARZNAD 20,1024,70

ivn-rat LD50:450 mg/kg ARZNAD 10,665,60

ims-rat LD50:820 mg/kg ARZNAD 10,665,60

orl-mus LD50:1070 mg/kg ARZNAD 20,1024,70

ipr-mus LD50:690 mg/kg ARZNAD 10,665,60

ivn-mus LD50:370 mg/kg AEPPAE 233,365,58

ipr-ham LD50:567 mg/kg ARZNAD 20,1024,70

SAFETY PROFILE: Poison by intravenous route.

Moderately toxic by ingestion, intraperitoneal, and intramuscular routes. An analgesic, antipyretic, and anti-

inflammatory agent. When heated to decomposition it emits toxic fumes of NO_x.**INM100 CAS: 14205-46-0 HR: 2**
ISOPROPYL 3-AMINOCROTONATEmf: C₇H₁₃NO₂ mw: 143.21**SYNS:** 2-BUTENOIC ACID, 3-AMINO-, 1-METHYLETHYL ESTER □ ISOPROPYL β-AMINOCROTONATE □ CROTONIC ACID, 3-AMINO-, ISOPROPYL ESTER □ 1-METHYLETHYL 3-AMINO-2-BUTENOATE □ 1-METHYLETHYL 3-AMINOCROTONATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 μL/4H MLD IJTOFN 16(Suppl 2),12,1997

eye-rbt 100 μL/24H MLD IJTOFN 16(Suppl 2),12,1997

orl-rat LD50:>2 g/kg IJTOFN 16(Suppl 2),12,1997

ihl-rat LC50:>6064 mg/m³/4H IJTOFN 16(Suppl 2),12,1997**SAFETY PROFILE:** Moderately toxic by ingestion. Low toxicity by inhalation. A mild skin and eye irritant. When heated to decomposition it emits toxic vapors of NO_x.**INN400 CAS: 109-56-8 HR: 2**
N-ISOPROPYLAMINOETHANOLmf: C₅H₁₃NO mw: 103.19**PROP:** Oil. Bp: 150–152° @ 13 mm. Sol in H₂O.**SYNS:** ETHANOLISOPROPYLAMINE □ ETHANOL, 2-(ISOPROPYLAMINO)- □ ETHANOL, 2-((1-METHYLETHYL)-AMINO)- (9CI) □ (N-HYDROXYETHYL)ISOPROPYLAMINE □ ISOPROPYLAMINOETHANOL □ 2-ISOPROPYLAMINO-ETHANOL □ N-ISOPROPYLETHANOLAMINE □ MONOISO-PROPYLAMINOETHANOL**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1250 mg/kg CPBTAL 31,4116,83

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 NO_x.**INN500 CAS: 54472-62-7 HR: 2**
ISOPROPYLAMINO ETHANOL HYDROCHLORIDEmf: C₅H₁₃NO•ClH mw: 139.65**SYNS:** 2-(ISOPROPYLAMINO)ETHANOL HYDROCHLORIDE □ PAE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:434 mg/kg TIYADG 9,553,81

ipr-mus LD50:442 mg/kg TIYADG 9,553,81

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.**INP100 CAS: 27524-97-6 HR: 3**
7-(ISOPROPYLAMINOISOPROPYL)THEOPHYLLINE HYDROCHLORIDEmf: C₁₃H₂₁N₃O₂•ClH mw: 315.85**SYNS:** IPT (GERMAN) □ 7-(2-ISOPROPYLAMINO-2-METHYLETHYL)THEOPHYLLINE HYDROCHLORIDE □ 7-(2-(ISOPROPYL-AMINO)PROPYL)-THEOPHYLLINE MONOHYDRO-CHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4200 mg/kg AEPPAE 230,194,57
 ipr-rat LD50:573 mg/kg AEPPAE 230,194,57
 scu-rat LD50:879 mg/kg AEPPAE 230,194,57
 ivn-rat LD50:347 mg/kg AEPPAE 230,194,57
 orl-mus LD50:973 mg/kg AEPPAE 230,194,57
 ipr-mus LD50:1090 μ g/kg ARZNAD 9,198,59
 ivn-mus LD50:361 mg/kg AEPPAE 230,194,57
 ivn-rbt LD50:215 mg/kg AEPPAE 230,194,57
 scu-gpg LD50:376 mg/kg AEPPAE 230,194,57

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

INQ000 CAS: 841-06-5 HR: 2
2-ISOPROPYLAMINO-4-(3-METHOXYPROPYLAMINO)-6-METHYLTHIO-s-TRIAZINE

mf: C₁₁H₂₁N₅OS mw: 271.43

PROP: Crystals or solid. Mp: 68–70°. Sol in most org solvs; sltly sol in H₂O.

SYNS: GESARAN □ 2-ISOPROPYLAMINO-4-(3-METHOXY-PROPYLAMINO)-6-METHYLTHIO-1,3,5-TRIAZIN (GERMAN) □ 4-ISOPROPYLAMINO-6-(3'-METHOXYPROPYLAMINO)-2-METHYLTHIO-1,3,5-TRIAZIN (GERMAN) □ METHOPROPTRYNE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5000 mg/kg 85ARAE 2,125,77
 orl-mus LD50:2400 mg/kg 28ZEAL 4,272,69

SAFETY PROFILE: Moderately toxic by ingestion. Used as a pesticide. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

INR000 CAS: 1014-69-3 HR: 2
2-ISOPROPYLAMINO-4-METHYLAMINO-6-METHYLMERCAPTO-s-TRIAZINE

mf: C₈H₁₅N₅S mw: 213.34

PROP: Crystals. Mp: 84–86°.

SYNS: DESMETRYN (GERMAN, DUTCH) □ DESMETRYNE □ G 34360 □ GS 34360 □ 2-ISOPROPYLAMINO-4-METHYLAMINO-6-METHYLTHIO-1,3,5-TRIAZINE □ 2-ISOPROPILAMINO-4-METILAMINO-6-METILTIO-1,3,5-TRIAZINA (ITALIAN) □ 2-METHYLAMINO-4-METHYLTHIO-6-ISOPROPYLAMINO-1,3,5-TRIAZINE □ METHYLMERCAPTO-4-ISOPROPYLAMINO-6-METHYLAMINO-s-TRIAZINE □ 2-METHYLTHIO-4-ISOPROPYLAMINO-6-METHYLAMINO-s-TRIAZINE □ 2-(METHYLTHIO)-4-(METHYLAMINO)-6-(ISOPROPYLAMINO)-s-TRIAZINE □ SAMURON □ SEMERON □ TOPUSYN

TOXICITY DATA with REFERENCE:

mrc-smc 50 mg/L CYGEDX 21(2),59,87
 ihl-rat LC50:1563 g/m³/1H 85JFAN A128,83
 orl-mus LD50:700 mg/kg GTPZAB 17(6),43,73

SAFETY PROFILE: Moderately toxic by ingestion. An herbicide used for postemergence control of annual broadleaf and grassy weeds. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS.

INS000 CAS: 54-80-8 HR: 3
 α -(ISOPROPYLAMINO)METHYL)-2-NAPHTHAL-ENEMETHANOL

mf: C₁₅H₁₉NO mw: 229.35

SYNS: ALDERLIN □ COMPOUND 38,174 □ INETOL □ 2-ISOPROPYLAMINO-1-(NAPHTH-2-YL)ETHANOL □ 2-ISOPROPYLAMINO-1-(2-NAPHTHYL)ETHANOL □ (2-NAPHTHYL)-1-ISOPROPYLAMINOETHANOL □ NAPHTHYL-ISOPROTERENOL □ NEATHALIDE □ NETALID □ NETH □ NETHALIDE □ PRONETALOL □ PRONETHALOL

TOXICITY DATA with REFERENCE:

dns-hmn:hla 100 μ mol/L CNREA8 38,2621,78
 orl-mus TD:72 g/kg/43W-C:ETA,REP PSDTAP 4,30,64
 orl-rat LD50:900 mg/kg LANCAO 2,311,62
 ivn-rat LD50:50 mg/kg LANCAO 2,311,62
 orl-mus LD50:337 mg/kg JPETAB 149,161,65
 ipr-mus LD50:124 mg/kg JPETAB 149,161,65
 ivn-mus LD50:28,800 μ g/kg ARZNAD 28,794,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

INT000 CAS: 51-02-5 HR: 3
 α -(ISOPROPYLAMINO)METHYL)NAPHTH-ALENEMETHANOL, HYDROCHLORIDE

mf: C₁₅H₁₉NO₂•ClH mw: 265.81

PROP: Crystals from MeOH/EtOAc. Mp: 184°.

SYNS: ALDERLIN HYDROCHLORIDE □ ICI 38174 □ I.C.I. HYDROCHLORIDE □ INETOL □ 2-ISOPROPYLAMINO-1-(2-NAPHTHYL)ETHANOL HYDROCHLORIDE □ α -(((1-METHYLETHYL)AMINO)METHYL)-2-NAPHTHALENE-METHANOL, HYDROCHLORIDE □ NAPHTHYLISOPROTERENOL HYDROCHLORIDE □ NETHALIDE HYDROCHLORIDE □ PRONETHALOL □ PRONETHALOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:512 mg/kg BJPCAL 25,577,65
 ipr-mus LD50:145 mg/kg AIPTAK 195,57,72
 ivn-mus LD50:45 mg/kg BJPCAL 25,577,65

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 13,227,77.

SAFETY PROFILE: A poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

INU000 CAS: 5054-57-9 HR: 3
 α -(ISOPROPYLAMINOMETHYL)-4-NITROBENZYL ALCOHOL

mf: C₁₁H₁₆N₂O₃ mw: 224.29

SYNS: α -(((1-METHYLETHYL)AMINO)METHYL)-4-NITROBENZENEMETHANOL □ NIFENALOL

TOXICITY DATA with REFERENCE:

ipr-mus LD50:207 mg/kg FATOAO 35,29,72
 ivn-mus LD50:70 mg/kg ARZNAD 27,1022,77

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

INU200 CAS: 21299-86-5 HR: 3
(±)-1-(ISOPROPYLAMINO)-3-(*o*-PHENOXY-PHENOXY)-2-PROPANOL HYDROCHLORIDEmf: C₁₈H₂₃NO₃•ClH mw: 337.88

SYN: Ph-QA 33

TOXICITY DATA with REFERENCE:

orl-mus LD50:810 mg/kg APTOA6 26,343,68

ipr-mus LD50:110 mg/kg APTOA6 27,453,69

ivn-mus LD50:36 mg/kg APTOA6 26,343,68

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and HCl.**INW000 CAS: 63710-43-0 HR: 3**
9-((3-(ISOPROPYLAMINO)PROPYL)AMINO)-1-NITROACRIDINE DIHYDROCHLORIDEmf: C₁₉H₂₂N₄O₂•2ClH mw: 411.37**SYNS:** N-(1-METHYLETHYL)-N'-(1-NITRO-9-ACRIDINYL)-1,3-PROPANEDIAMINE DIHYDROCHLORIDE □ 1-NITRO-9-(3-ISOPROPYLAMINOPROPYLAMINE)-ACRIDINE

DIHYDROCHLORIDE □ 1-NITRO-9-(3-ISOPROPYL-AMINOPROPYLAMINO)-ACRIDINE 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

dni-hmn:hla 30 nmol/L BBACAQ 825,244,85

sce-hmn:lym 80 nmol/L/69H MUREAV 67,93,79

orl-rat LD50:127 mg/kg AITEAT 28,735,80

ivn-rat LD50:900 μg/kg MMDPA6 8,252,76

orl-mus LD50:126 mg/kg AITEAT 28,735,80

ivn-mus LD50:2 mg/kg AITEAT 28,735,80

ivn-pgn LD50:2100 μg/kg AITEAT 28,777,80

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** A poison by ingestion and intravenous routes. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HCl.**INW100 CAS: 643-28-7 HR: 2**
2-ISOPROPYL ANILINEmf: C₉H₁₃N mw: 135.23**SYNS:** *o*-AMINOISOPROPYLBENZENE □ 2-AMINOISOPROPYLBENZENE □ ANILINE, *o*-ISOPROPYL- □ BENZENAMINE, 2-(1-METHYLETHYL)-(9CI) □ *o*-CUMIDINE □ *o*-ISOPROPYLANILINE □ 2-(1-METHYLETHYL)BENZENAMINE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1180 mg/kg TXAPA9 22,153,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**INX000 CAS: 768-52-5 HR: 2**
N-ISOPROPYLANILINEmf: C₉H₁₃N mw: 135.23**PROP:** Oil. Bp: 206–208°.**TOXICITY DATA with REFERENCE:**

orl-rat LD50:560 mg/kg 85INA8 6,833,91

ihl-rat LC50:218 ppm/4H 85INA8 6,833,91

skn-rbt LD50:3550 mg/kg 85INA8 6,833,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 2 ppm (10 mg/m³)(skin)**ACGIH TLV:** TWA 2 ppm (skin)**NIOSH REL:** (N-Isopropylaniline) TWA 2 ppm (skin)**SAFETY PROFILE:** Moderately toxic by ingestion and inhalation. When heated to decomposition it emits toxic fumes of NO_x.**INY000 CAS: 479-92-5 HR: 3**
4-ISOPROPYLANTIPYRINEmf: C₁₄H₁₈N₂O mw: 230.34**PROP:** A solid. Mp: 103°.**SYNS:** 1,2-DIHYDRO-1,5-DIMETHYL-4-((1-METHYLETHYL)AMINO)-2-PHENYL-3-PYRAZOL-3-ONE □ ISOPROPYLANTIPYRIN □ ISOPROPYLANTIPYRINE □ 4-ISOPROPYL-2,3-DIMETHYL-1-PHENYL-3-PYRAZOLIN-5-ONE □ ISOPROPYLPHENAZONE □ ISOPYRINE □ LARODON □ 1-PHENYL-2,3-DIMETHYL-4-ISOPROPYL-3-PYRAZOLIN-5-ONE □ 1-PHENYL-2,3-DIMETHYL-4-ISOPROPYLPYRAZOL-5-ONE □ PROPYPHENAZONE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:860 mg/kg YKKZAJ 97,601,77

orl-mus LD50:960 mg/kg ARZNAD 9,401,59

ipr-mus LD50:295 mg/kg AIPTAK 122,434,59

orl-cat LDLo:150 mg/kg JPETAB 61,205,37

orl-rbt LDLo:500 mg/kg JPETAB 61,205,37

orl-gpg LD50:1050 mg/kg SMWOAS 84,351,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.**INY100 CAS: 82464-70-8 HR: 2**
ISOPROPYLANTIPYRINE with ETHENZAMIDE and CAFFEINE MONOHYDRATEmf: C₁₄H₁₈N₂O•C₉H₁₁NO₂•C₈H₁₀N₄O₂•H₂O mw: 607.79

SYN: Ro 04-7683

TOXICITY DATA with REFERENCE:

orl-mus LD50:1250 mg/kg YACHDS 10,1407,82

ipr-mus LD50:405 mg/kg YACHDS 10,1407,82

scu-mus LD50:1400 mg/kg YACHDS 10,1407,82

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x. See also 4-ISOPROPYLANTIPYRINE and CAFFEINE.**INZ000 CAS: 63020-47-3 HR: 2**
5-ISOPROPYL-1:2-BENZANTHRACENEmf: C₂₁H₁₈ mw: 270.39

SYN: 8-ISOPROPYLBENZ(a)ANTHRACENE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.**IOA000 CAS: 63020-48-4 HR: 2**
6-ISOPROPYL-1:2-BENZANTHRACENE

mf: C₂₁H₁₈ mw: 270.39**SYN:** 9-ISOPROPYLBENZ(a)ANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.**IOB000 CAS: 80-15-9 HR: 3
ISOPROPYLBENZENE HYDROPEROXIDE**mf: C₉H₁₂O₂ mw: 152.21**PROP:** A liquid. Bp: 153°, flash p: 175°F, d: 1.05. The hydroperoxide of cumene.**SYNS:** CUMEENHYDROPEROXYDE (DUTCH) □ CUMENE HYDROPEROXIDE (DOT) □ CUMENE HYDROPEROXIDE, TECHNICALLY PURE (DOT) □ CUMENT HYDROPEROXIDE □ CUMENYL HYDROPEROXIDE □ CUMOLHYDROPEROXID (GERMAN) □ CUMYL HYDROPEROXIDE □ α-CUMYL HYDROPEROXIDE □ CUMYL HYDROPEROXIDE, TECHNICAL PURE (DOT) □ α,α-DIMETHYLBENZYL HYDROPEROXIDE (MAK) □ HYDROPEROXYDE de CUMENE (FRENCH) □ HYDROPEROXYDE de CUMYLE (FRENCH) □ IDROPEROSSIDO di CUMENE (ITALIAN) □ IDROPEROSSIDO di CUMOLO (ITALIAN) □ RCRA WASTE NUMBER U096**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg AIHAAP 19,205,58

skn-rbt 500 mg MLD SCUR* -,3,61

eye-rbt 1 mg AIHAAP 19,205,58

mmo-sat 100 µg/plate PNASA6 79,7445,82

mma-sat 100 µg/plate ABCHA6 44,1989,00

scu-mus TDLo:8844 mg/kg/67W-I:ETA JNCIAM 37,825,66

orl-rat LD50:382 mg/kg AIHAAP 19,205,58

ihl-rat LC50:220 ppm/4H AIHAAP 19,205,58

skn-rat LD50:500 mg/kg AEHLAU 30,1,75

ipr-rat LD50:95 mg/kg AIHAAP 19,205,58

orl-mus LDLo:5000 mg/kg SCUR* -,3,61

ihl-mus LC50:200 ppm/4H AIHAAP 19,205,58

ipr-mus LDLo:90 mg/kg TXAPA9 23,288,72

scu-mus LD50:490 mg/kg GISAAA 26(12),22,61

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**DFG MAK:** Moderate Skin Effects**SAFETY PROFILE:** A poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact, inhalation and, subcutaneous routes. Mutation data reported. A skin and eye irritant. Questionable carcinogen with experimental tumorigenic data. A strong oxidizing agent. Flammable when exposed to heat or flame; can react with reducing materials. Its use in industry has resulted in many explosions. Storage above 109°C may cause explosive decomposition. Potentially explosive reactions with acids or reductants. Violent or explosive reaction when heated with solutions of 1,2-dibromo-1,2-diisocyanatoethane polymers in benzene. Violent decomposition on contact with cobalt, copper, copper alloys, lead alloys, mineral acids. Vigorous exothermic reaction on contact with charcoal. When heated to decomposition it emits acrid smoke and fumes. To fight fire, use foam, CO₂, dry chemical. See also PEROXIDES.**IOB500 CAS: 5851-43-4 HR: D
2-ISOPROPYLBENZIMIDAZOLE**mf: C₁₀H₁₂N₂ mw: 160.24**SYNS:** 1H-BENZIMIDAZOLE, 2-(1-METHYLETHYL)- □ BENZIMIDAZOLE, 2-ISOPROPYL-**TOXICITY DATA with REFERENCE:**

mic-sat 250 µLg/plate CHIMAD 27,68,1973

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**IOD000 CAS: 939-48-0 HR: 2
ISOPROPYL BENZOATE**mf: C₁₀H₁₂O₂ mw: 164.22**PROP:** Liquid. Mp: -26.4°, bp: 219°, flash p: 210°F (OC), d: 1.0112 at 25°/25°, vap press: 0.12 mm @ 20°, vap d: 5.67. Insol in water; sol in alc and ether.**SYNS:** BENZOIC ACID, ISOPROPYL ESTER □ ISOPROPYLESTER KYSELINY BENZOOWE**TOXICITY DATA with REFERENCE:**

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

eye-rbt 500 mg open AMIHBC 4,119,51

orl-rat LD50:3730 mg/kg AMIHBC 4,119,51

skn-rbt LD50:20 g/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. Mildly toxic by skin contact. A skin and eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use water, spray, CO₂, dry chemical. See also ESTERS.**IOD050 CAS: 13816-33-6 HR: 2
p-ISOPROPYLBENZONITRILE**mf: C₁₀H₁₁N mw: 145.22**PROP:** A liquid. Bp: 85° @ 0.7 mm.**SYNS:** BENZONITRILE, p-ISOPROPYL- □ BENZONITRILE, 4-(1-METHYLETHYL)- □ CUMINYL NITRILE □ p-CYANO-CUMENE □ 4-(1-METHYLETHYL)BENZONITRILE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTOD7 21,837,83

orl-rat LD50:3900 mg/kg FCTOD7 21,837,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits toxic fumes of NO_x.**IOE000 CAS: 63904-87-0 HR: 3
N-ISOPROPYL BENZOTHAZOLE
SULFONAMIDE****SYN:** ISOCYCLEX**TOXICITY DATA with REFERENCE:**

skn-hmn 250 mg/48H MOD AMIHBC 5,311,52

skn-rbt 500 mg MOD AMIHBC 5,311,52

ipr-mam LD50:250 mg/kg AMIHBC 5,311,52

SAFETY PROFILE: Poison by intraperitoneal route. A human skin irritant. When heated to decomposition it emits toxic fumes of SO_x and NO_x.**IOF000 CAS: 63020-53-1 HR: 2
2-ISOPROPYL-3:4-BENZPHENANTHRENE**mf: C₂₁H₁₈ mw: 270.39

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

IOF050 CAS: 59230-57-8 HR: 2
4-ISOPROPYLBENZYL ACETATE

mf: C₁₂H₁₆O₂ mw: 192.28

PROP: Fragrance chemical.

SYNS: BENZENEMETHANOL, 4-(1-METHYLETHYL)-, ACETATE □ CUMINYL ACETATE □ 4-(1-METHYLETHYL)BENZENEMETHANOL ACETATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1450 mg/kg FCTOD7 30,57S,92

skn-rbt LDLo:5 g/kg FCTOD7 30,57S,92

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.

IOF075 CAS: 111841-85-1 HR: D
ISOPROPYL 6-BENZYLOXY-4-METHOXYMETHYL-β-CARBOLINE-3-CARBOXYLATE

mf: C₂₄H₂₄N₂O₄ mw: 404.50

SYNS: ABECARNIL □ 9H-PYRIDO(3,4-B)INDOLE-3-CARBOXYLIC ACID, 1-(METHOXYMETHYL)-6-(PHENYL-METHOXY)-,1-METHYLETHYL ESTER □ ZK 112119

TOXICITY DATA with REFERENCE:

orl-man TDLo:571 µg/kg:BAH BCPHBM 35,386,1993

SAFETY PROFILE: Human systemic effects. When heated to decomposition it emits toxic vapors of NO_x.

IOF100 CAS: 4762-14-5 HR: 3
1-ISOPROPYLBIGUANIDE HYDROCHLORIDE

mf: C₅H₁₃N₅•ClH mw: 179.69

SYNS: 1-ISOPROPILBIGUANIDE CLORIDRATO (ITALIAN) □ N-ISOPROPYLBIGUANIDE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2472 mg/kg FRPSAX 15,521,60

ipr-rat LD50:296 mg/kg FRPSAX 15,521,60

ipr-mus LD50:475 mg/kg JAJAAA 18,196,65

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and HCl.

IOF200 CAS: 25640-78-2 HR: 2
ISOPROPYLBIPHENYL

mf: C₁₅H₁₆ mw: 196.29

PROP: Clear colorless liquid with aromatic hydrocarbon odor. Mp: -49°, bp: 285°, d: 0.989. Flash pt: >200° F.

SYNS: ISOPROPYLDIPHENYL □ MONOISOPROPYLBIPHENYL □ WEMCOL

TOXICITY DATA with REFERENCE:

cyt-rat-orl 2 g/kg CHYCDW 19,132,85

orl-rat LD50:4570 mg/kg CHYCDW 19,132,85

orl-mus LD50:2610 mg/kg CHYCDW 19,132,85

orl-rbt LDLo:4 g/kg CHYCDW 19,132,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. A combustible liquid. When heated to decomposition it emits acrid smoke and fumes.

IOF250 CAS: 7116-95-2 HR: 1
4-ISOPROPYLBIPHENYL

mf: C₁₅H₁₆ mw: 196.31

SYNS: BIPHENYL, 4-ISOPROPYL- □ 1,1'-BIPHENYL, 4-(1-METHYLETHYL)- □ p-ISOPROPYLDIPHENYL

TOXICITY DATA with REFERENCE:

orl-rat LD50:8500 mg/kg GISAAA 49(4),90,84

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

IOF300 CAS: 111841-85-1 HR: 3
ISOPROPYL-BIS(β-CHLOROETHYL)AMINE

mf: C₇H₁₅Cl₂N mw: 184.13

SYNS: 2,2'-DICHLORO-1"-METHYLTRIETHYLAMINE □ ISOPROPYL-S □ TL-301

TOXICITY DATA with REFERENCE:

scu-rat LD50:1 mg/kg NTIS** PB158-507

ivn-rat LD50:500 µg/kg NTIS** PB158-507

orl-mus LD50:22 mg/kg NTIS** PB158-507

scu-mus LD50:500 µg/kg NTIS** PB158-507

ivn-rbt LD50:2 mg/kg NTIS** PB158-507

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of Cl⁻ and NO_x. See also AMINES.

IOI000 CAS: 5419-55-6 HR: 3
ISOPROPYL BORATE

DOT: UN 2616

mf: C₉H₂₁BO₃ mw: 188.11

PROP: Colorless moisture-sensitive liquid. Mp: -59°, bp: 141.0-142.4°, flash p: 82°F (TCC), d: 0.8138 @ 25°. Sol in non-hydroxylic solvs.

SYNS: BORIC ACID, TRIISOPROPYL ESTER □ TRIISOPROPYL BORATE (DOT)

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MLD 14KTAK -,706,64

orl-mus LD50:2500 mg/kg 14KTAK -,706,64

ivn-mus LD50:100 mg/kg CSLNX* NX#00382

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by ingestion. An eye irritant. A flammable liquid and dangerous fire hazard when exposed to heat, flame, or oxidizers. Can react vigorously with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. See also ESTERS and BORON COMPOUNDS.

IOI600 CAS: 25640-78-2 HR: 3
ISOPROPYLCALINE HYDROCHLORIDE

mf: C₁₆H₂₅NO₂•ClH mw: 299.88

SYNS: β-DIETHYLAMINOETHYL CUMATE HYDROCHLORIDE □ p-ISOPROPYLBENZOIC ACID-2-(DIETHYLAMINO)ETHYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:370 mg/kg JAPMA8 40,449,51
 scu-mus LD50:950 mg/kg APFRAD 40,133,82
 ivn-mus LD50:78 mg/kg THERAP 8,934,53

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

IOJ000 CAS: 1746-77-6 HR: 2
ISOPROPYL CARBAMATE

mf: C₄H₉NO₂ mw: 103.14

PROP: Prisms. Mp: 60–61°, bp: 200°C. Very sol in water, alc, and ether.

SYNS: CARBAMIC ACID, ISOPROPYL ESTER □ CARBAMIC ACID-1-METHYLETHYL ESTER □ ISOPROPYLESTER KYSELINY KARBAMINOVE

TOXICITY DATA with REFERENCE:

mmo-esc 25,000 ppm CRSBAW 143,776,49
 sce-mus-ipr 4400 µmol/kg CNREA8 41,448,91
 ipr-mus TDLo:2400 mg/kg/4W-I:NEO CNREA8 29,2184,69
 scu-mus LD50:1280 mg/kg AJEBAK 45,507,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by subcutaneous route. Mutation data reported. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

IOJ500 CAS: 5412-01-1 HR: 3
ISOPROPYL CARBITOL

mf: C₇H₁₆O₃ mw: 148.23

SYNS: DIETHYLENE GLYCOL ISOPROPYL ETHER □ ETHANOL, 2-(2-(1-METHYLETHOXY)ETHOXY)- □ ETHANOL, 2-(2-(1-METHYLETHOXY)ETHOXY)- □ GLYCOSOLVE DIP □ 2-(2-(1-METHYLETHOXY)ETHOXY)ETHANOL

TOXICITY DATA with REFERENCE:

eye-rbt 5 µL/24H MOD NTIS** OTS0534722
 orl-rat LD50:11,300 µL/kg NTIS** OTS0534722
 skn-rbt LD50:16 mL/kg NTIS** OTS0534722

SAFETY PROFILE: A poison by ingestion and skin contact. A moderate eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

IOK000 CAS: 2138-43-4 HR: 3
4-ISOPROPYLCATECHOL

mf: C₉H₁₂O₂ mw: 152.21

PROP: Leaflets from ligroin. Mp: 78°, bp: 270–272°.

SYN: 4-(1-METHYLETHYL)-1,2-BENZENEDIOL

TOXICITY DATA with REFERENCE:

skn-man 1%/48H BJDEAZ 94,687,76
 ivn-mus LD50:56 mg/kg CSLNX* NX#07862

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

IOK100 CAS: 2239-92-1 HR: 3
ISOPROPYL p-CHLOROCARBANILATE

mf: C₁₀H₁₂ClNO₂ mw: 213.68

SYNS: CARBAMIC ACID, (4-CHLOROPHENYL)-, 1-METHYLETHYL ESTER (9CI) □ CARBANILIC ACID, p-CHLORO-, ISOPROPYL ESTER □ 4-CIPC □ H 22948

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#02515

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IOL000 CAS: 108-23-6 HR: 3
ISOPROPYL CHLOROCARBONATE

DOT: UN 2407

mf: C₄H₇ClO₂ mw: 122.56
 (CH₃)₂CHOCO•Cl

PROP: A clear, colorless, volatile liquid with a pungent, irritating odor. D: 1.078 @ 20°/4°, bp: 105°, flash p: 28°C (TOC), 20°C (TCC), fp: -80°, fire point: 40°C (TOC), autoign temp: >500°, vap d: 4.2 @ 20°, refr index: 1.3974 @ 20°, lel: 4%, uel: 15%, vap press: 72 mm @ 70°F, bulk d: 9.0 lbs/gal, percent volatile: 100%. Sol in aromatic or aliphatic hydrocarbon solvents, ethyl ether, acetone, and chloroform. Insol in water and alc. Decomp slowly in cold water, faster in hot water. Misc in ether and benzene. A phosgene derivative.

SYNS: CARBONOCHLORIDE ACID-1-METHYL ESTER □ CHLOROFORMIC ACID ISOPROPYL ESTER □ ISOPROPYL CHLOROFORMATE □ ISOPROPYL CHLOROMETHANOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg IHFCAY 6,1,67
 eye-rbt 500 mg SEV IHFCAY 6,1,67
 orl-rat LD50:1070 mg/kg IHFCAY 6,1,67
 ihl-rat LCLo:200 ppm/5H BJIMAG 27,1,70
 orl-mus LD50:178 mg/kg 37ASAA 4,758,78
 ihl-mus LD50:299 ppm/1H 37ASAA 4,758,78
 skn-mus LD50:12 mg/kg 37ASAA 4,758,78
 skn-rbt LD50:11,300 mg/kg IHFCAY 6,1,67

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Corrosive, Poison

SAFETY PROFILE: A poison by skin contact and ingestion. Moderately toxic by inhalation. Ingestion of even small amounts can be fatal. A skin and severe eye irritant. Inhalation of a small amount can cause immediate lachrymation, coughing, choking, and respiratory distress. Death may result from pulmonary edema which may not appear for several hours after exposure. A dangerous fire and moderate explosion hazard when exposed to heat, spark, or flame. Self-reactive. Iron salts may catalyze a potentially explosive thermal decomposition. Incompatible with water, iron, metal salts, acids, alkalies, amines, alcohols. Stable under refrigeration below 20°, but one reference (1973) reports that it has exploded while stored in a refrigerator. Present-day formulations appear to be more stable. Temperatures above 20° can cause decomposition. When heated to decomposition it emits acrid smoke and fumes.

IOL100 CAS: 18713-58-1 HR: 3
ISOPROPYL-4-CHLOROPHENYL KETONE

mf: C₁₀H₁₁ClO mw: 182.66

SYNS: p-CHLOROISOBUTYROPHENONE □ 4'-CHLOROISOBUTYROPHENONE □ p-CHLOROPHENYL ISOPROPYL KETONE □ 4-CHLOROPHENYL ISOPROPYL KETONE □ 1-(4-CHLOROPHENYL)-2-METHYL-1-PROPANONE □ 1-PROPANONE, 1-(4-CHLOROPHENYL)-2-METHYL- □ PROPIOPHENONE, 4'-CHLORO-2-METHYL-(6Cl,7Cl,8Cl)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:>500 mg/kg JAFCAU 26,954,78

unr-mus LD50:2500 mg/kg FMTYA2 40(1),1,90

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 Cl⁻.

ION000 CAS: 63041-70-3 HR: 2
20-ISOPROPYLCHOLANTHRENE

mf: C₂₃H₂₀ mw: 296.43**SYN:** 3-ISOPROPYLCHOLANTHRENE

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

IOO000 CAS: 7780-06-5 HR: 2
ISOPROPYL CINNAMATE

mf: C₁₂H₁₄O₂ mw: 190.26**PROP:** Fragrance ingredient.

SYNS: ISOPROPYLESTER KYSELINY SKORICOVE □ ISOPROPYL 3-PHENYLPROPENOATE □ 1-METHYLETHYL 3-PHENYLPROPENOATE □ 1-METHYLETHYL 3-PHENYL-2-PROPENOATE □ 2-PROPENOIC ACID, 3-PHENYL-, 1-METHYLETHYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

orl-gpg LD50:2700 mg/kg JPETAB 93,26,48

orl-gpg LD50:2700 mg/kg JPETAB 93,26,48

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 ESTERS.

IOO222 HR: D
ISOPROPYL CITRATE

PROP: Viscous colorless syrup. Crystallizes upon standing.

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

IOO300 CAS: 4621-04-9 HR: 2
4-ISOPROPYLCYCLOHEXANOL

mf: C₉H₁₈O mw: 142.27**PROP:** Fragrance chemical.

SYNS: CYCLOHEXANOL, p-ISOPROPYL- □ p-ISOPROPYLCYCLOHEXANOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,803,78

orl-rat LD50:2750 mg/kg FCTXAV 16,803,78

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.

IOO310 CAS: 34131-99-2 HR: 2
6-ISOPROPYLDECALOL

mf: C₁₃H₂₄O mw: 196.37

SYNS: DECATOL □ 6-ISOPROPYL-2-DECAHYDRO-NAPHTHALENOL □ 6-(1-METHYLETHYL)-2-DECAHYDRO-NAPHTHALENOL □ 2-NAPHTHALENOL, DECAHYDRO-6-(1-METHYLETHYL)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:4200 mg/kg FCTOD7 26,367,88

skn-rbt LD50:3500 mg/kg FCTOD7 26,367,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IOR000 CAS: 10457-59-7 HR: 2
14-ISOPROPYLDIBENZ(a,j)ACRIDINE

mf: C₂₄H₁₉N mw: 321.44**SYN:** 10-ISOPROPYL-3,4,5,6-DIBENZACRIDINE (FRENCH)

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

IOS000 CAS: 18181-80-1 HR: 1
ISOPROPYL-4,4'-DIBROMOBENZILATE

mf: C₁₇H₁₆Br₂O₃ mw: 428.15**PROP:** Crystals or solid. Mp: 77°.

SYNS: ACAROL □ 4-BROMO-α-(4-BROMOPHENYL)-α-HYDROXYBENZENEACETIC ACID-1-METHYLETHYL ESTER □ BROMOPROPYLATE □ CIBA-GEIGY GS 19851 □ 4,4'-DIBROMOBENZILIC ACID ISOPROPYL ESTER □ ENT 27,552 □ GEIGY GS-19851 □ 1-METHYLETHYL 4-BROMO-α-(4-BROMOPHENYL)-α-HYDROXYBENZENEACETATE □ NEORON □ NSC-195087 □ PHENISOBROMOLATE

TOXICITY DATA with REFERENCE:

skn-rbt 121 mg open MOD CIGET* -,77

eye-rbt 600 µg MLD CIGET* -,77

orl-rat LD50:5000 mg/kg BESAAT 15,97,69

orl-mus LD50:8000 mg/kg 28ZEAL 5,29,76

skn-rbt LD50:10,200 mg/kg CIGET* -,77

SAFETY PROFILE: Mildly toxic by skin contact and ingestion. A skin and eye irritant. A miticide for citrus, cotton, fruits and ornamentals. When heated to decomposition it emits toxic fumes of Br⁻.

IOS100 CAS: 87130-20-9 HR: 1
ISOPROPYL 3,4-DIETHOXYCARBANILATE

mf: C₁₄H₂₁NO₄ mw: 267.36

SYNS: CARBAMIC ACID, (3,4-DIETHOXYPHENYL)-, 1-METHYLETHYL ESTER □ DIETHOFENCARB □ ISOPROPYL 3,4-DIETHOXYPHENYL CARBAMATE □ 1-METHYLETHYL (3,4-DIETHOXYPHENYL) CARBAMATE □ POWMYL WP □ S 32165 □ S-165 □ S-1605

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FMCHA2-C106,1991

ihl-rat LC50:>1050 mg/m³ JPIFAN 59,19,1991

skn-rat LD50:>5 g/kg FMCHA2-C106,1991
 orl-mus LD50:>5 g/kg JPIFAN 59,19,1991
 skn-mus LD50:>5 g/kg JPIFAN 59,19,1991
 orl-qal LD50:>2250 mg/kg PEMNDP 9,273,1991
 orl-dck LD50:>2250 mg/kg PEMNDP 9,273,1991

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

IOT000 CAS: 2275-18-5 HR: 3

ISOPROPYL

DIETHYLDITHIOPHOSPHORYLACETAMIDE

mf: C₉H₂₀NO₃PS₂ mw: 285.39

PROP: A solid. Mp: 28.5°, bp: 135° @ 0.1 mm. Sltly sol in H₂O.

SYNS: AC 18682 □ AMERICAN CYANAMID 18682 □ O,O-DIETHYLDITHIOPHOSPHORYLACETIC ACID-N-MONOISOPROPYLAMIDE □ O,O-DIETHYL-S-(N-ISOPROPYL-CARBAMOYLMETHYL) DITHIOPHOSPHATE □ O,O-DIETHYL-S-ISOPROPYLCARBAMOYLMETHYL PHOSPHORODITHIOATE □ O,O-DIETHYL-S-(N-ISOPROPYLCARBAMOYLMETHYL) PHOSPHORODITHIOATE □ ENT 24,652 □ FAC □ FAC 20 □ FOSTION □ N-ISOPROPYL-2-MERCAPTOACETAMIDE-S-ESTER with O,O-DIETHYL PHOSPHORODITHIOATE □ L343 □ N-MONOISOPROPYLAMIDE of O,O-DIETHYLDITHIOPHOSPHORYL-ACETIC ACID □ OLEOFAC □ PHOSPHORODITHIOIC ACID-O,O-DIETHYL ESTER-S-ESTER with N-ISOPROPYL-2-MERCAPTOACETAMIDE □ PROTHOATE □ PROTOAT (HUNGARIAN) □ TELEFOS □ TRIMETHOATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:8 mg/kg GUCHAZ 6,439,73
 ihl-rat LD50:165 mg/m³/4H EGESAQ 24,173,80
 skn-rat LD50:100 mg/kg WRPCA2 9,119,70
 orl-mus LD50:8 mg/kg ARSIM* 20,1,66
 orl-dog LD50:15 mg/kg 28ZEAL 4,333,69
 orl-rbt LD50:8500 µg/kg 28ZEAL 4,333,69
 skn-rbt LD50:14 mg/kg SPEADM 78-1,32,78

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.

SAFETY PROFILE: A poison by ingestion, inhalation, and skin contact. An insecticide. When heated to decomposition it emits very toxic NO_x, PO_x, and SO_x.

IOT875 CAS: 24596-38-1 HR: 2

4'-ISOPROPYL-4-DIMETHYLAMINOAZO-BENZENE

mf: C₁₇H₂₁N₃ mw: 267.41

SYN: p-(p-CUMENYL-AZO)-N,N-DIMETHYLANILINE

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

IOW000 CAS: 1505-95-9 HR: 3

α-ISOPROPYL-α-(2-DIMETHYLAMINOETHYL)-1-NAPHTHACETAMIDE

mf: C₁₉H₂₆N₂O mw: 298.47

SYNS: α-ISOPROPYL-α-(2-(DIMETHYLAMINO)ETHYL)-1-NAPHTHALENEACETAMIDE □ α-ISOPROPYL-α-(2-DIMETHYLAMINOETHYL)-1-NAPHTHYLACETAMIDE □ NAFTIPRAMIDE □ NAFTYPRAMIDE □ NAPHTHIPRAMIDE □ NAPHTHYPRAMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1030 mg/kg JMCAR 16,720,73

ipr-rat LD50:269 mg/kg AIPTAK 162,378,66
 orl-mus LD50:1086 mg/kg AIPTAK 162,378,66
 ipr-mus LDLo:250 mg/kg JMCAR 8,594,65
 ivn-mus LD50:72 mg/kg EXPEAM 20,457,64

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

IOW200

HR: 3

m-ISOPROPYL-p-DIMETHYL-AMINO-PHENOL-DIMETHYL-URETHANE METHIODIDE

mf: C₁₅H₂₅N₂O₂•I mw: 392.32

SYN: (CARBOXYMETHYL)TRIMETHYLAMMONIUM IODIDE-4-(DIMETHYLAMINO)-3-ISOPROPYLPHENYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LDLo:39,800 µg/kg FEPA7 5,184,46
 scu-mus LDLo:1500 ng/kg FEPA7 5,184,46
 scu-dog LDLo:153 µg/kg FEPA7 5,184,46

SAFETY PROFILE: A deadly poison by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of I⁻, NH₃, and NO_x.

IOW000

CAS: 14211-01-9

HR: 3

ISOPROPYL-O,O-DIMETHYLDITHIOPHOSPHORYL-1-PHENYLACETATE

mf: C₁₃H₁₉O₄PS₂ mw: 334.41

SYNS: ISOPROPYL ESTER MERCAPTOPHENYLACETIC ACID S-ESTER with O,O-DIMETHYL PHOSPHORODITHIOATE □ ISOPROPYL MERCAPTOPHENYLACETATE-O,O-DIMETHYL PHOSPHORODITHIOATE □ M 1703 □ OMS-1092

TOXICITY DATA with REFERENCE:

orl-rat LD50:205 mg/kg JAFCAU 20,944,72
 orl-mus LD50:700 mg/kg BESAAT 15,119,69

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of PO_x and SO_x.

IOW000

CAS: 63905-13-5

HR: 2

N'-ISOPROPYL-N,N'-DIMETHYL-1,3-PROPANE-DIAMINE

mf: C₈H₂₀N₂ mw: 144.30

TOXICITY DATA with REFERENCE:

orl-rat LD50:1300 mg/kg TXAPA9 28,313,74
 skn-rbt LD50:450 mg/kg TXAPA9 28,313,74

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

IOW500

CAS: 36170-25-9

HR: 3

3-ISOPROPYL-5,7-DIMORPHOLINOMETHYL-TROPOLONE DIHYDROCHLORIDE

mf: C₂₀H₃₀N₂O₄•2ClH mw: 435.44

SYNS: 5,7-BIS(MORPHOLINOMETHYL)-2-HYDROXY-3-ISOPROPYL-2,4,6-CYCLOHEPTATRIEN-1-ONE DIHYDROCHLORIDE □ IDMT

TOXICITY DATA with REFERENCE:

ipr-mus LD50:75 mg/kg YKKZAJ 92,570,72
 scu-mus LD50:120 mg/kg YKKZAJ 92,570,72
 ivn-mus LD50:48 mg/kg YKKZAJ 92,570,72

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

IOX000 CAS: 4097-47-6 HR: 3**4-ISOPROPYL-2,6-DINITROPHENOL**mf: C₉H₁₀N₂O₅ mw: 226.21**SYNS:** 2,6-DINITRO-4-ISOPROPYLPHENOL □ PHENOL, 2,6-DINITRO-4-ISOPROPYL-**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:31,300 µg/kg CBCC* 6,60,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.**IOY000 CAS: 94-11-1 HR: 3****ISOPROPYL-2,4-D ESTER**mf: C₁₁H₁₂Cl₂O₃ mw: 263.13**PROP:** Bp: 139–140° @ 1 mm.**SYNS:** (2,4-DICHLOROPHENOXY)ACETIC ACID, ISOPROPYL ESTER □ (2,4-DICHLOROPHENOXY)ACETIC ACID-1-METHYLETHYL ESTER (9CI) □ 2,4-D ISOPROPYL ESTER □ ESTERON 44 □ WEEDONE 128**TOXICITY DATA with REFERENCE:**

scu-mus TDLo:846 mg/kg (6-14D preg):TER NTIS** PB223-160

scu-mus TDLo:414 mg/kg (6-14D preg):REP NTIS** PB223-160

orl-rat LD50:375 mg/kg FMCHA2 -,C166,89

orl-mus LD50:541 mg/kg AJVRAH 15,622,54

CONSENSUS REPORTS: IARC Cancer Review:

Animal Inadequate Evidence IMEMDT 15,111,77.

SAFETY PROFILE: Poison by ingestion. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental tumorigenic data. Used as a pesticide. When heated to decomposition it emits toxic fumes of Cl₂. See also ESTERS.**IOX500 CAS: 14245-62-6 HR: D****ISOPROPYL ETHANESULFONATE**mf: C₅H₁₂O₃S mw: 152.23**SYNS:** ETHANESULFONIC ACID, ISOPROPYL ESTER □ ETHANESULFONIC ACID, 1-METHYLETHYL ESTER**TOXICITY DATA with REFERENCE:**

mic-sat 12 mmol/L CPBTAL 32,3626,1984

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of SO_x.**IOZ750 CAS: 108-20-3 HR: 3****ISOPROPYL ETHER****DOT:** UN 1159mf: C₆H₁₄O mw: 102.20(CH₃)₂CHOCH(CH₃)₂**PROP:** Colorless liquid; ethereal odor. Mp: -60°, bp: 68.5°, lel: 1.4%, uel: 7.9%, flash p: -18°F (CC), d: 0.719 @ 25°, autoign temp: 830°F, vap press: 150 mm @ 25°, vap d: 3.52. Misc in water. IDLH 1400 ppm [10%LEL].**SYNS:** DIISOPROPYL ETHER □ DIISOPROPYL OXIDE □ ETHER ISOPROPYLIQUE (FRENCH) □ 2-ISOPROPOXYPROPANE □ IZOPROPYLOWY ETER (POLISH)**TOXICITY DATA with REFERENCE:**

skn-rbt 363 mg open MLD UCDS** 4/10/68

orl-rat LD50:8470 mg/kg UCDS** 4/10/68

ihl-rat LC50:162 g/m³ GTPZAB 19(10),55,75ihl-mus LC50:131 g/m³ GTPZAB 19(10),55,75

ipr-mus LD50:812 mg/kg SCCUR* -,5,61

ihl-rbt LC50:121 g/m³ GTPZAB 19(10),55,75

skn-rbt LD50:20 g/kg UCDS** 4/10/68

OSHA PEL: TWA 500 ppm**ACGIH TLV:** TWA 250 ppm; STEL 310 ppm**DFG MAK:** 500 ppm (2100 mg/m³)**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Mildly toxic by ingestion, inhalation, and skin contact. A skin irritant. A very dangerous fire hazard and severe explosion hazard when exposed to heat, flame, sparks, or oxidizers. Under some conditions shock will explode it. Dangerous; on exposure to air it rapidly forms very sensitive, explosive peroxides that precipitate as crystals. Violent reaction with chlorosulfonic acid, HNO₃. Potentially dangerous reaction with propionyl chloride can burst a sealed container. Reacts vigorously with oxidizing materials. To fight fire, use alcohol foam, CO₂, foam, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also ETHERS.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Isopropyl Ether S368.**IOZ800 HR: 3****ISOPROPYL 3-(((ETHYLAMINO)METHOXY-PHOSPHINOTHIOYL)OXY)CROTONIC ACID**mf: C₁₀H₂₀NO₄PS mw: 281.34**TOXICITY DATA with REFERENCE:**

orl-rat LD50:94,200 µg/kg IYKEDH 13,1128,82

scu-rat LD50:140 mg/kg IYKEDH 13,1128,82

orl-mus LD50:62,400 µg/kg IYKEDH 13,1128,82

scu-mus LD50:117 mg/kg IYKEDH 13,1128,82

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of PO_x, SO_x, and NO_x. See also ESTERS.**IPA000 CAS: 2594-20-9 HR: 2****ISOPROPYL ETHYL URETHAN**mf: C₆H₁₃NO₂ mw: 131.20**PROP:** A liquid. Bp: 192–193°, d: 0.957 @ 15°.**SYN:** ISOPROPYLCARBAMIC ACID, ETHYL ESTER**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS and CARBAMATES.**IPA100 CAS: 63904-97-2 HR: 3****ISOPROPYL γ-FLUOROBUTYRATE**mf: C₇H₁₃FO₂ mw: 148.20**SYNS:** BUTYRIC ACID, 4-FLUORO-, ISOPROPYL ESTER □ TL 1142**TOXICITY DATA with REFERENCE:**ihl-mus LCLo:10 mg/m³/10M NDRC** No.9-4-1-19,43ihl-gpg LCLo:100 mg/m³/10M NDRC** No.9-4-1-19,43**SAFETY PROFILE:** A poison by inhalation. When heated to decomposition it emits toxic vapors of F⁻.**IPC000 CAS: 625-55-8 HR: 3**

ISOPROPYL FORMATEmf: C₄H₈O₂ mw: 88.12**PROP:** Clear liquid. Bp: 68.3°, flash p: 22°F (CC), d: 0.873, autoign temp: 905°F, vap press: 100 mm @ 17.8°, vap d: 3.03.**SYN:** FORMIC ACID, ISOPROPYL ESTER**TOXICITY DATA with REFERENCE:**

orl-gpg LD50:1400 µg/kg 28ZEAL 4,256,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion. A toxic fumigant. A very dangerous fire hazard when exposed to heat, spark, or flame. Can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes. To fight fire, use alcohol foam, foam, CO₂, dry chemical. See also ESTERS.**IPD000 CAS: 4016-14-2 HR: 2**
ISOPROPYL GLYCIDYL ETHERmf: C₆H₁₂O₂ mw: 116.18**PROP:** A liquid. IDLH 400 ppm.**SYNS:** 1,2-EPOXY-3-ISOPROPOXYPROPANE □ 2,3-EPOXY-PROPYL ISOPROPYL ETHER □ GLYCIDYL ISOPROPYL ETHER □ IGE □ IGE (OSHA) □ (ISOPROPOXYMETHYL)-OXIRANE □ ISOPROPYL EPOXYPROPYL ETHER □ 3-ISOPROPYLOXY-PROPYLENE OXIDE □ ((1-METHYLETHOXY)METHYL)-OXIRANE □ NCI-C56439 □ OXIRANE, ((1-METHYLETHOXY)METHYL)-(9CI)**TOXICITY DATA with REFERENCE:**

skn-rbt 459 mg/3D MOD AMIHAB 14,250,56

eye-rbt 92 mg MOD AMIHAB 14,250,56

mmo-esc 20 µmol/L ARTODN 46,277,80

dnd-esc 1 µmol/L ARTODN 46,277,80

orl-rat LD50:4200 mg/kg AMIHAB 14,250,56

ihl-rat LC50:1100 ppm/8H AMIHAB 14,250,56

orl-mus LD50:1300 mg/kg AMIHAB 14,250,56

ihl-mus LC50:1500 ppm/4H AMIHAB 14,250,56

skn-rbt LD50:9650 mg/kg AMIHAB 14,250,56

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 50 ppm; STEL 75 ppm**ACGIH TLV:** TWA 50 ppm; STEL 75 ppm**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (Glycidyl Ethers) CL 240 mg/m³/15M**SAFETY PROFILE:** Suspected carcinogen. Moderately toxic by ingestion. Mildly toxic by inhalation and skin contact. A skin and eye irritant. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes. See also GLYCOL ETHERS.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Isopropyl Glycidyl Ether S77.**IPG000 CAS: 24426-36-6 HR: 3**
ISOPROPYL-S HYDROCHLORIDEmf: C₇H₁₅Cl₂N•ClH mw: 220.59**SYNS:** N,N-BIS(2-CHLOROETHYL)ISOPROPYLAMINE HYDROCHLORIDE □ 2,2'-DICHLORO-N-ISOPROPYL-DIETHYLAMINE HYDROCHLORIDE □ 2,2'-DICHLORO-1'-METHYLTRIETHYLAMINE HYDROCHLORIDE □ ISOPROPYL

BIS(β-CHLOROETHYL)AMINE HYDROCHLORIDE □ TL 301 HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:25 mg/kg NCNSA6 5,11,53

ivn-rat LD50:500 µg/kg JPETAB 91,224,47

orl-mus LD50:22 mg/kg JPETAB 91,224,47

ipr-mus LD50:1330 µg/kg CANCAR 2,1075,49

scu-mus LD50:1100 µg/kg JPETAB 91,224,47

ivn-rbt LD50:2 mg/kg JPETAB 91,224,47

SAFETY PROFILE: A poison by ingestion, subcutaneous, intraperitoneal, and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also AMINES.**IPI000 CAS: 3031-75-2 HR: 3**
ISOPROPYL HYDROPEROXIDEmf: C₃H₈O₂ mw: 76.09(CH₃)₂CHOOH**SYN:** 2-HYDROPEROXYPROPANE**SAFETY PROFILE:** Explodes when heated above its boiling point of 107-109°C. Upon decomposition it emits acrid smoke and fumes. See also PEROXIDES.**IPI100 CAS: 19189-02-7 HR: 3**
3-ISOPROPYL-4-HYDROXYPHENYL METHYLCARBAMATEmf: C₁₁H₁₅NO₃ mw: 209.27**SYNS:** CARBAMIC ACID, METHYL-, 4-HYDROXY-3-ISOPROPYLPHENYL ESTER □ CARBAMIC ACID, METHYL-, 4-HYDROXY-m-CUMENYL ESTER □ HYDROQUINOL, ISOPROPYL-, 4-(METHYLCARBAMATE) □ METHYLCARBAMIC ACID 4-HYDROXY-m-CUMENYL ESTER**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:48 mg/kg JAFCAU 16,561,1968

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.**IPI350 CAS: 53578-07-7 HR: 3**
ISOPROPYL HYPOCHLORITEmf: C₃H₇ClO mw: 94.54(CH₃)₂CHOCI**SAFETY PROFILE:** An extremely unstable explosive sensitive to heat and light. Upon decomposition it emits toxic fumes of Cl⁻. See also HYPOCHLORITES and EXPLOSIVES.**IPI400 CAS: 111479-05-1 HR: 2**
2-ISOPROPYLIDENEAMINO-OXYETHYL (R)-2-(4-(6-CHLOROQUINOXALIN-2-YLOXY)-PHENOXY)PROPIONATEmf: C₂₂H₂₂ClN₃O₅ mw: 443.92**SYNS:** AGIL □ PROPANOIC ACID, 2-(4-((6-CHLORO-2-QUINOXALINYL)OXY)PHENOXY)-, 2-(((1-METHYLETHYLIDENE)AMINO) OXY)ETHYL ESTER, (R)- □ PROPAQUIZAFOF □ RO 17-3664 □ SHOGEN**TOXICITY DATA with REFERENCE:**

orl-rat LD50:5 g/kg PEMNDP 9,718,91

ihl-rat LC50:2500 mg/m³/4H PEMNDP 9,718,91

skn-rat LD50:>2 g/kg PEMNDP 9,718,91

SAFETY PROFILE: Moderately toxic by skin contact. Low toxicity by ingestion and inhalation routes. When

heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

IPJ000 **CAS: 79-96-9** **HR: 3**
4,4'-ISOPROPYLIDENE-BIS(2-*tert*-BUTYLPHENOL)

mf: C₂₃H₃₂O₂ mw: 340.55

TOXICITY DATA with REFERENCE:

ipr-mus LD50:40 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IPK000 **CAS: 79-97-0** **HR: 3**
4,4'-ISOPROPYLIDENEDI-*o*-CRESOL

mf: C₁₇H₂₀O₂ mw: 256.37

SYNS: 2,2-BIS(4-HYDROXY-3-METHYLPHENYL)PROPANE □ BISPHENOL C □ DICRESYLOLPROPANE □ 3,3'-DIMETHYL-BISPHENOL A □ 3,3'-DIMETHYLDIAN □ 4,4'-(1-METHYLETHYLIDENE)BIS(2-METHYLPHENOL) □ NONOX DCP □ PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS(2-METHYL-(9CI)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:25 mg/kg CBCCT* 6,139,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IPL000 **CAS: 3173-79-3** **HR: 2**
4-ISOPROPYLIDENE-3,3-DIMETHYL-2-OXETANONE

mf: C₈H₁₂O₂ mw: 140.20

PROP: A liquid. Bp: 69–71.5° @ 14 mm.

SYN: 3-HYDROXY-2,2,4-TRIMETHYL-3-PENTENOIC ACID, β-LACTONE

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

IPL500 **CAS: 93356-94-6** **HR: 2**
4,4'-ISOPROPYLIDENEDIPHENOL ALKYL(C12-15) PHOSPHITE

SYN: WESTON 439

TOXICITY DATA with REFERENCE:

skn-rbt 500 μL SEV NTIS** OTS0536654

SAFETY PROFILE: A severe skin irritant. When heated to decomposition it emits toxic vapors of PO_x.

IPM000 **CAS: 25068-38-6** **HR: D**
4,4'-ISOPROPYLIDENEDIPHENOL DIMER with 1-CHLORO-2,3-EPOXYPROPANE

mf: C₃₀H₃₂O₄•C₆H₁₀Cl₂O₂ mw: 641.68

SYNS: E1001 □ EPIKOTE 1001

TOXICITY DATA with REFERENCE:

mno-sat 1 μmol/plate NATUAS 276,391,78

dnd-esc 1 μmol/L ARTODN 46,277,80

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻. See also other 4,4'-isopropylidenediphenol entries.

IPN000 **CAS: 25068-38-6** **HR: D**
4,4'-ISOPROPYLIDENEDIPHENOL, MONOMER with 1-CHLORO-2,3-EPOXYPROPANE

mf: (C₁₅H₁₆O₂•C₃H₅ClO)_x

SYNS: E1001 □ EPIKOTE 1001

TOXICITY DATA with REFERENCE:

mno-sat 1 μmol/plate NATUAS 276,391,78

mma-sat 2100 nmol/plate NATUAS 276,391,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻. See also other 4,4'-isopropylidenediphenol entries.

IPO000 **CAS: 25068-38-6** **HR: 2**
4,4'-ISOPROPYLIDENEDIPHENOL, POLYMER with 1-CHLORO-2,3-EPOXYPROPANE

mf: (C₁₅H₁₆O₂•C₃H₅ClO)_x

SYNS: EPIDIAN 5 □ EPON 828

TOXICITY DATA with REFERENCE:

eye-rbt 100 MLD AMIHAB 17,129,58

skn-gpg 2750 mg/55D-I AITEAT 23,155,75

orl-rat LD50:11,400 mg/kg AMIHAB 17,129,58

ipr-rat LD50:2400 mg/kg AMIHAB 17,129,58

orl-mus LD50:15,600 mg/kg AMIHAB 17,129,58

ipr-mus LD50:4000 mg/kg AMIHAB 17,129,58

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Very slightly toxic by ingestion. Experimental teratogenic effects. Other experimental reproductive effects. A skin and eye irritant. When heated to decomposition it emits toxic fumes of Cl⁻. See also other 4,4'-isopropylidenediphenol entries.

IPP000 **CAS: 25068-38-6** **HR: D**
4,4'-ISOPROPYLIDENEDIPHENOL, TETRAMER with 1-CHLORO-2,3-EPOXYPROPANE

mf: C₆₀H₆₄O₈•C₁₂H₂₀Cl₄O₄ mw: 1283.36

SYNS: E 1004 □ EPIKOTE 1004

TOXICITY DATA with REFERENCE:

mno-sat 1 μmol/plate NATUAS 276,391,78

dnd-esc 1 μmol/L ARTODN 46,277,80

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻. See also other 4,4'-isopropylidenediphenol entries.

IPR000 **CAS: 15964-31-5** **HR: D**
ISOPROPYLIDENE AZASTREPTONIGRIN

mf: C₂₈H₂₇N₅O₇ mw: 545.60

SYN: NSC-62709

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

IPS000 CAS: 75-30-9 HR: 2**ISOPROPYL IODIDE**mf: C₃H₇I mw: 170.00**PROP:** Colorless liquid. Readily discolors in air and light. D: 1.703 @ 20°/4°, mp: -90°, bp: 89-90°. Sltly sol in water; misc with alc, benzene, chloroform, and ether.**SYNS:** 2-IODOPROPANE □ i-PROPYL IODIDE**TOXICITY DATA with REFERENCE:**ihl-rat LC50:320,000 mg/m³/30M FAVUAI 7,35,75

ipr-mus LD50:1300 mg/kg 34ZIAG -,756,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Mildly toxic by inhalation. Questionable carcinogen with experimental neoplastic data. When heated to decomposition it emits toxic fumes of I₂. See also IODIDES.**IPS100 CAS: 73791-43-2 HR: 3****ISOPROPYL ISOBUTYL ARSINIC ACID**mf: C₇H₁₇AsO₂ mw: 208.16**SYNS:** ARSINE OXIDE, HYDROXYISOBUTYLISOPROPYL- □ HYDROXYISOBUTYLISOPROPYLARSINE OXIDE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#06282

OSHA PEL: TWA 0.5 mg(As)/m³**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits toxic fumes of As.**IPS400 CAS: 29119-58-2 HR: 3****ISOPROPYL ISOCYANIDE DICHLORIDE**mf: C₄H₇Cl₂N mw: 140.01**CONSENSUS REPORTS:** Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Reacts violently with water.Violent reaction with iron(III) chloride + metal oxides (e.g., calcium oxide; mercury oxide; or silver oxide). When heated to decomposition it emits toxic fumes of CN⁻, Cl⁻, and NO_x. See also CHLORIDES and ISOCYANIDES.**IPS450 CAS: 68171-33-5 HR: 1****ISOPROPYL ISOSTEARATE**mf: C₂₁H₄₂O₂ mw: 326.63**PROP:** Cosmetic ingredient.**SYNS:** HEPTADECANOIC ACID, 16-METHYL-, ISOPROPYL ESTER □ ISOCTADECANOIC ACID, 1-METHYLETHYL ESTER □ NIKKOL IPIS □ WICKENOL 131**TOXICITY DATA with REFERENCE:**

eye-rbt 50 mg MLD JACTDZ 11,43,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** An eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**IPS500 CAS: 63393-93-1 HR: 1****ISOPROPYL LANOLATE****PROP:** A mixture of isopropyl esters of lanolin acids (JEPTDQ 4(4),121,80).**SYNS:** AMERLATE P □ AMERLATE W □ ETHYLAN □ FATTY ACID, LANOLIN, ISO-PR ESTERS □ LANALENE L □ LANALENE P □ LANALENE S □ LANESTA L □ LANESTA P.S.**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg MLD JEPTDQ 4(4),121,80

eye-rbt 2 pph MLD JEPTDQ 4(4),121,80

SAFETY PROFILE: An eye and skin irritant. When heated to decomposition it emits acrid smoke and fumes.**IPT000 CAS: 4118-51-8 HR: 2****ISOPROPYL MANDELATE**mf: C₁₁H₁₃O₂ mw: 177.24**TOXICITY DATA with REFERENCE:**

eye-rbt 5 mg SEV AJOPAA 29,1363,46

SAFETY PROFILE: A severe eye irritant. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.**IPU000 CAS: 78-44-4 HR: 3****ISOPROPYL MeproBAMATE**mf: C₁₂H₂₄N₂O₄ mw: 260.38**PROP:** Crystals with slightly bitter taste. Mp: 92-93°. Very sltly sol in H₂O.**SYNS:** APESAN □ ARUSAL □ BRIANIL □ CAPRODAT □ CARBAMIC ACID, ESTER with 2-(HYDROXYMETHYL)-1-METHYLPENTYLISOPROPYLCARBAMATE □ CARBAMIC ACID, ESTER with 2-METHYL-2-PROPYL-1,3-PROPANEDIOL ISOPROPYLCARBAMATE □ CARISOL □ CARISOMA □ CARISOPROD-ATE □ CARISOPRODATUM □ CARISOPRODOL □ CARLSODAL □ CARLSOMA □ CARSODOL □ CB 8019 □ DIOLINE □ DOMARAX □ FLEXAL □ FLEXARTAL □ FLEXARTEL □ ISOBAMATE □ ISOMEPROBAMATE □ ISOPROPYLCARBAMIC ACID, ESTER with 2-(HYDROXY-METHYL)-2-METHYLPENTYL CARBAMATE □ N-ISOPROPYL-2-METHYL-2-PROPYL-1,3-PROPANEDIOL DICARBAMATE □ MEDIQUIL □ (1-METHYLETHYL)CARBAMIC ACID 2-((AMINOCARBONYL)-OXY)METHYL-2-METHYLPENTYL ESTER □ 2-METHYL-2-PROPYL-1,3-PROPANEDIOL CARBAMATE ISOPROPYLCARBAMATE □ MIOARTRINA □ MIOLISODAL □ MIOLISODOL □ MIORATRINA □ MIORIL □ MIORIODOL □ NCI-C56235 □ NOSPASM □ RELA □ RELASOM □ RELAX □ SANOMA □ SCH 7307 □ SOMA □ SOMADRIL □ SOMALGIT □ SOMANIL □ TONOLYT ISOPROPYL MeproBAMATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1320 mg/kg JPETAB 127,66,59

ipr-rat LD50:450 mg/kg JPETAB 127,66,59

ivn-rat LD50:450 mg/kg PSCBAY 2,17,63

orl-mus LD50:1800 mg/kg ARZNAD 12,340,62

ivn-mus LD50:165 mg/kg JPETAB 127,66,59

ivn-rbt LD50:124 mg/kg IJNEAQ 5,305,66

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. A skeletal-muscle relaxant. When heated to decomposition it emits toxic fumes of NO_x. See also MILTOWN.**IPW000 CAS: 33020-34-7 HR: 3****ISOPROPYLMERCURY HYDROXIDE**mf: C₃H₈HgO mw: 260.70**PROP:** IDLH 10 mg/m³ (as Hg).**SYN:** HYDROXYISOPROPYLMERCURY**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:16 mg/kg OCHRAI 15,5,63

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

OSHA PEL: TWA 0.01 mg(Hg)/m³; STEL 0.03 mg/m³ (skin)

ACGIH TLV: TWA 0.01 mg(Hg)/m³; 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 route. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

IPX000 CAS: 107-44-8 HR: 3
ISOPROPYL

METHANEFLUOROPHOSPHONATE

mf: C₄H₁₀FO₂P mw: 140.11

PROP: Bp: 147°, fp: -58°, d: 1.100 @ 20°, vap press: 1.57 mm @ 20°, vap d: 4.86.

SYNS: FLUOROISOPROPOXYMETHYLPHOSPHINE OXIDE □ GB □ IMPF □ ISOPROPHYL METHYLPHOSPHONOFUORID-ATE □ ISOPROPOXYMETHYLPHORYL, FLUORIDE □ ISOPROPYL METHYLFLUOROPHOSPHATE □ ISOPROPYL METHYLPHOSPHONOFUORIDATE □ O-ISOPROPYL METHYLPHOSPHONOFUORIDATE □ ISOPROPYL-METHYLPHOSPHORYL FLUORIDE □ METHYLFLUOROPHOSPHORIC ACID, ISOPROPYL ESTER □ METHYLFLUOROPHOSPHORSAEUREISOPROPYLESTER (GERMAN) □ METHYLPHOSPHONOFUORIDIC ACID ISOPROPYL ESTER □ METHYLPHOSPHONOFUORIDIC ACID-1-METHYLETHYL ESTER □ MFI □ SARIN □ SARIN II □ T-144 □ T-2106 □ TL 1618 □ TRILONE 46

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:2 µg/kg:CNS,PUL,GIT JCINAO 37,350,58

ihl-man TCLo:90 µg/m³:EYE ARTODN 56,201,85

skn-hmn TDLo:103 µg/kg:PNS,EYE,BIO 27ZXA3 -,106,80

ihl-man TCLo:90 µg/m³:EYE,BIO ARTODN 56,201,85

skn-hmn LD50:28 mg/kg SCJUAD 4,33,67

ihl-hmn LC50:70 mg/m³ SCJUAD 4,33,67

orl-rat LD50:550 µg/kg NTIS** PB158-508

ihl-rat LD50:150 mg/m³/10M NTIS** PB158-508

ipr-rat LD50:303 µg/kg FAATDF 5,884,85

scu-rat LD50:103 µg/kg BJPCBM 39,822,70

ivn-rat LD50:45 µg/kg NTIS** PB158-508

ims-rat LD50:108 µg/kg FAATDF 5,884,85

ihl-mus LD50:5 mg/m³/30M DEGEA3 15,2179,60

skn-mus LD50:1080 µg/kg NTIS** PB158-508

ipr-mus LD50:283 µg/kg AIPTAK 172,62,68

scu-mus LD50:60 µg/kg DEGEA3 15,2179,60

ivn-mus LD50:109 µg/kg JTEHD6 26,437,89

ims-mus LD50:164 µg/kg JMCMA31,807,88

ihl-dog LD50:100 mg/m³/10M NTIS** PB158-508

ivn-dog LD50:19 µg/kg JPETAB 132,50,61

ihl-mky LD50:100 mg/m³/10M NTIS** PB158-508

ims-mky LD50:22,300 ng/kg FAATDF 5,8169,85

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: A deadly human poison by skin contact and inhalation. (A small drop on the skin can kill a man.) A deadly experimental poison by ingestion, inhalation, skin contact, subcutaneous, intravenous, intramuscular, and intraperitoneal routes. Human systemic effects: muscle weakness, bronchiolar constriction, nausea or vomiting, flaccid paralysis without anesthesia, miosis (pupillary constriction), cholinesterase inhibition. A "nerve gas" used as a chemical warfare agent. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition or reacted with steam, it emits very toxic fumes of F⁻ and PO_x. See also PARATHION.

IPY000 CAS: 926-06-7 HR: 3
ISOPROPYLMETHANESULFONATE

mf: C₄H₁₀O₃S mw: 138.20

SYNS: IMS □ ISOPROPYL MESYLATE □ ISOPROPYL METHANE SULPHONATE □ METHANESULFONIC ACID-1-METHYLETHYL ESTER

TOXICITY DATA with REFERENCE:

dnd-hmn:fbr 8 mmol/L CRNGDP 3,7,82

msc-ham:lng 1 g/L CNREA8 44,3720,84

skn-mus TDLo:20,200 mg/kg/60W-I:CAR CNREA8 47,3402,87

orl-bwd LD50:287 mg/kg AECTCV 12,355,83

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of SO_x. See also SULFONATES.

IPY500 CAS: 550-53-8 HR: 2
N-ISOPROPYLMETHOXAMINE

mf: C₁₄H₂₃NO₃ mw: 253.38

SYNS: BA 2696 □ BENZENEMETHANOL, 2,5-DIMETHOXY-α-(1-((1-METHYLETHYL)AMINO)ETHYL)- □ BENZYL ALCOHOL, α-(1-((ISOPROPYLAMINO)ETHYL)-2,5-DIMETHOXY- □ BW 61-43 □ 2,5-DIMETHOXY-α-(1-((1-METHYLETHYL)AMINO)ETHYL)-BENZENEMETHANOL □ dl-ERYTHRO-HYDROXY(2',5'-DIMETHOXYPHENYL)-2-ISOPROPYLAMINOPROPANE HYDROCHLORIDE □ ISOPROPOXAMINE □ ISOPROPYL-METHOXAMINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2 g/kg FEPA7 21,417,1962

orl-mus LD50:640 mg/kg FEPA7 21,417,1962

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

IPZ000 CAS: 67262-75-3 HR: 3
2'-ISOPROPYL-2-(2-METHOXYETHYLAMINO)-PROPIONANILIDE HYDROCHLORIDE

mf: C₁₅H₂₄N₂O₂•ClH mw: 300.87

TOXICITY DATA with REFERENCE:

ipr-mus LD50:450 mg/kg JPMSAE 67,595,78

ivn-mus LD50:65 mg/kg JPMSAE 67,595,78

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

IPZ500 **CAS: 8-((ISOPROPYLMETHYLAMINO)METHYL)-QUINOLINE** **HR: 3**

mf: $C_{14}H_{18}N_2$ mw: 214.34

SYN: N-(8-QUINOLYLMETHYL)-N-METHYL-2-PROPYLAMINE

TOXICITY DATA with REFERENCE:

scu-mus LD50:330 mg/kg PCJOAU 11,318,77

ivn-mus LD50:135 mg/kg PCJOAU 11,318,77

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

IQB000 **CAS: 2235-59-8** **HR: 2**
N-ISOPROPYL- α -(2-METHYLAZO)-p-TOLUAMIDE

mf: $C_{12}H_{17}N_3O$ mw: 219.32

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .

IQD000 **CAS: 74926-98-0** **HR: 3**
2-ISOPROPYL-6-(1-METHYLBUTYL)PHENOL

mf: $C_{14}H_{22}O$ mw: 206.2

TOXICITY DATA with REFERENCE:

ivn-mus LD50:80 mg/kg JMCMAR 23,1350,80

ivn-rbt LD50:20 mg/kg JMCMAR 23,1350,80

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

IQE000 **CAS: 52061-60-6** **HR: 2**
1-ISOPROPYL-4-METHYLCYCLOHANE HYDROPEROXIDE

mf: $C_{10}H_{20}O_2$ mw: 172.30

SYNS: HEXAHYDRO-p-CYME NE HYDROPEROXIDE \square p-MENTHANE HYDROPEROXIDE, TECHNICALLY PURE \square PARAMENTHANE HYDROPEROXIDE

SAFETY PROFILE: A severe irritant to skin, eyes, and mucous membranes. A very powerful oxidizer. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES, ORGANIC.

IQF000 **CAS: 490-91-5** **HR: 3**
5-ISOPROPYL-2-METHYL-2,5-CYCLOHEX-ADIENE-1,4-DIONE

mf: $C_{10}H_{12}O_2$ mw: 164.22

PROP: Bright yellow triclinic crystals from pentane with penetrating odor. Mp: 46–47°, bp: 232°. Very sltly sol in water; sol in alc and ether.

SYN: THYMOQUINONE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:10 mg/kg ARZNAD 15,1227,65

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IQH000 **CAS: 40853-53-0** **HR: 1**
2-ISOPROPYL-5-METHYL-2-HEXEN-1-OL

mf: $C_{10}H_{20}O$ mw: 156.30

SYNS: ISODIHYDROLAVANDULOL \square 5-METHYL-2-(1-METHYLETHYL)-2-HEXEN-1-OL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,319,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IQH500 **CAS: 26640-60-8** **HR: 3**
N-ISOPROPYL- α -METHYLPHENETHYLAMINE HYDROCHLORIDE

mf: $C_{12}H_{19}N \cdot ClH$ mw: 213.78

SYNS: BENZENEETHANAMINE, α -METHYL-N-(1-METHYLETHYL)-, HYDROCHLORIDE \square ISOPROPYLAMPHETAMINE HYDROCHLORIDE \square N-ISOPROPYL- β -PHENYLISOPROPYL-AMINHYDROCHLORID \square PHENETHYLAMINE, N-ISOPROPYL- α -METHYL-, HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:28 mg/kg:BAH KLWOAZ 17,1580,1938

ipr-mus LDLo:80 mg/kg SAPHAO 79,258,1938

SAFETY PROFILE: A poison by intraperitoneal route. Human systemic effects. When heated to decomposition it emits toxic vapors of NO_x , HCl, and Cl^- .

IQJ000 **CAS: 4427-56-9** **HR: 2**
2-ISOPROPYL-4-METHYLPHENOL

mf: $C_{10}H_{14}O$ mw: 150.24

PROP: Needles from AcOH. Mp: 36°.

SYNS: m-CYMEN-4-OL \square ISOTHYMOL

TOXICITY DATA with REFERENCE:

dnr-sat 250 μ g/disc JESEDU 21,319,86

dnr-esc 600 μ g/disc JESEDU 21,319,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IQL000 **CAS: 2814-20-2** **HR: 2**
2-ISOPROPYL-4-METHYL-6-PYRIMIDOL

mf: $C_8H_{12}N_2O$ mw: 152.22

SYN: 2-ISOPROPYL-4-METHYL-6-HYDROXYPYRIMIDINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2700 mg/kg JAFCAU 18,208,70

orl-mus LD50:2200 mg/kg GISAAA 52(3),69,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IQM000 **CAS: 1331-24-4** **HR: 3**
ISOPROPYLMORPHOLINE

mf: $C_7H_{15}NO$ mw: 129.23

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MOD UCDS** 4/23/63

eye-rbt 15 mg SEV UCDS** 4/23/63

orl-rat LD50:710 mg/kg AIHAAP 30,470,69

ihl-rat LCLo:500 ppm/4H AIHAAP 30,470,69

skn-rbt LD50:100 mg/kg AIHAAP 30,470,69

SAFETY PROFILE: Poison by skin contact.

Moderately toxic by ingestion. Mildly toxic by inhalation.

A skin and severe eye irritant. When heated to

decomposition it emits toxic fumes of NO_x.**IQN000 CAS: 110-27-0 HR: 1
ISOPROPYL MYRISTATE**mf: C₁₇H₃₄O₂ mw: 270.44**PROP:** Liquid of low viscosity, odorless. Bp: 192.6° @ 20 mm, decomp @ 208°, d: 0.8532 @ 20°. Sol in castor oil, cottonseed oil, acetone, chloroform, ethyl acetate, ethanol, toluene, and mineral oil. Insol in water, glycerol, and propylene glycerol. Dissolves many waxes.**SYNS:** BISOMEL □ CRODAMOL IPM □ DELTYLEXTRA □ EMCOL-IM □ EMEREST 2314 □ ISOMYST □ ISOPROPYL TETRADECANOATE □ JA-FA IPM □ KESSCO ISOPROPYL MYRISTATE □ KESSCOMIR □ MYRISTIC ACID, ISOPROPYL ESTER □ PLYMOUTM IPM □ PROMYR □ STARFOL IPM □ STEPAN D-50 □ TEGESTER □ TETRADECANOIC ACID, ISOPROPYL □ TETRADECANOIC ACID, 1-METHYLETHYL ESTER □ 1-TRIDECANECARBOXYLIC ACID, ISOPROPYL ESTER □ UNIMATE IPM □ WICKENOL 101**TOXICITY DATA with REFERENCE:**

skn-hmn 85 mg/3D-I ML D 85DKA8 -,127,77

orl-mus LD50:49,700 mg/kg JACTDZ 9(2),247,90

skn-rbt LD50:5 g/kg JACTDZ 9(2),247,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. A human skin irritant. When heated to decomposition it emits toxic smoke and fumes.**IQN100 CAS: 2027-17-0 HR: 1
2-ISOPROPYLNAPHTHALENE**mf: C₁₃H₁₄ mw: 170.27**SYN:** NAPHTHALENE, 2-ISOPROPYL-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:5300 mg/kg 85JCAE -,50,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**IQP000 CAS: 1712-64-7 HR: 3
ISOPROPYL NITRATE****DOT:** UN 1222mf: C₃H₇NO₃ mw: 105.11(CH₃)₂CHONO₂**PROP:** A liquid. Bp: 102°, d: 1.036 @ 19°, flash p: 51.8°F, uel: 100%.**SYN:** NITRIC ACID, ISOPROPYL ESTER**TOXICITY DATA with REFERENCE:**ihl-mus LC50:65 g/m³/2H 85GMAT -,78,82**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Mildly toxic by inhalation.

Flammable liquid and dangerous fire hazard when

exposed to heat, spark, or flames. Ignites spontaneously when compressed. The pure vapor ignites spontaneously at very low temperatures and pressures. An explosive of low sensitivity. It can be used as a rocket monopropellant. When heated to decomposition it emits toxic fumes of NO_x. Incompatible with Lewis acids. See also NITRATES.**IQQ000 CAS: 541-42-4 HR: 3
ISOPROPYL NITRITE**mf: C₃H₇NO₂ mw: 89.10**PROP:** Bp: 39–40° @ 745 mm, flash p: <50°F.**SYNS:** ISOPROPYLESTER KYSELIN DUSITE □ NITROUS ACID, 1-METHYLETHYL ESTER (9CI) □ 2-PROPANOL NITRITE**TOXICITY DATA with REFERENCE:**ihl-rat LC50:1250 mg/m³/4H 85GMAT -,79-82ihl-mus LC50:2800 mg/m³/2H 85GMAT -,79-82**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by inhalation. Can cause vasodilation with fall in blood pressure, tachycardia, headache. Large doses can cause methemoglobinuria and cyanosis. Severe poisoning results in shock that can be fatal. A very dangerous fire hazard when exposed to heat, spark, or flame. When heated to decomposition it emits toxic fumes of NO_x. See also NITRITES.**IQQ500 CAS: 127502-68-5 HR: D
3-ISOPROPYL-4-NITROBIPHENYL**mf: C₁₅H₁₅NO₂ mw: 241.31**SYNS:** 1,1'-BIPHENYL, 3-(1-METHYLETHYL)-4-NITRO- □ 2-ISOPROPYL-4-PHENYLNITROBENZENE**TOXICITY DATA with REFERENCE:**

mic-sat 20 µLg/plate MUREAV 467,55,2000

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**IQS000 CAS: 72505-65-8 HR: D
2-ISOPROPYL-3-NITROSOTHAZOLIDINE**mf: C₆H₁₂N₂OS mw: 160.2**SYN:** N-NITROSOPROPYLTIAZOLIDINE**TOXICITY DATA with REFERENCE:**

mmo-sat 1 mg/L JAFCAU 28,62,80

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also N-NITROSO COMPOUNDS.**IQS500 CAS: 949-36-0 HR: 3
di-N-ISOPROPYLNORADRENALINE
HYDROCHLORIDE**mf: C₁₁H₁₇NO₃·ClH mw: 247.75**SYNS:** (±)-3,4-DIHYDROXY-α-((ISOPROPYLAMINO)METHYL)BENZYL ALCOHOL HYDROCHLORIDE □ (±)-1-(3,4-DIHYDROXYPHENYL)-2-ISOPROPYLAMINOETHANOL HYDROCHLORIDE □ (±)-4-(1-HYDROXY-2-((1-METHYLETHYL)AMINO)ETHYL)-1,2-BENZENEDIOL HYDROCHLORIDE □ di-ISADRINE HYDROCHLORIDE □ (±)-ISOPRENALINE HYDROCHLORIDE □ racemic ISOPRENALINE HYDROCHLORIDE □ racemic ISOPROTRENOL HDYROCHLORIDE □ di-ISOPRENALINE

HYDROCHLORIDE □ dl-ISOPROPYLNORADRENALINE
 HYDROCHLORIDE □ dl-ISOPROPYLNOREPINEPHRINE
 HYDROCHLORIDE □ (±)-ISOPROTERENOL
 HYDROCHLORIDE □ dl-ISOPROTERENOL HYDROCHLORIDE
 □ dl(±)-ISOPROTERENOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

dns-mus-ipr 10 µmol/kg CNREA8 39,2751,79
 orl-hmn TDL₀:250 µg/kg:BPR JPETAB 92,108,48
 ipr-rat LD50:303 mg/kg NIIRDN 6,74,82
 scu-rat LD50:435 mg/kg NIIRDN 6,74,82
 ivn-rat LD50:24,040 µg/kg NIIRDN 6,74,82
 orl-mus LD50:2420 mg/kg ARZNAD 13,51,63
 ipr-mus LD50:250 mg/kg NIIRDN 6,74,82
 scu-mus LD50:298 mg/kg NIIRDN 6,74,82
 ivn-mus LD50:23,500 µg/kg NIIRDN 6,74,82

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Experimental reproductive effects. Human systemic effects: blood pressure elevation. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and HCl.

IQT000 CAS: 13329-71-0 HR: 2**ISOPROPYLOCTADECYLAMINE**

mf: C₂₁H₄₆N mw: 312.68

SYN: N-ISOPROPYLOCTADECYLAMINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1270 mg/kg HYSAAV 34(1-3),129,69
 orl-mus LD50:2100 mg/kg HYSAAV 34(1-3),129,69
 orl-gpg LD50:950 mg/kg HYSAAV 34(1-3),129,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IQU000 HR: 3**ISOPROPYL OILS**

PROP: A by-product of isopropyl alcohol manufacture composed of trimeric and tetrameric polypropylene + small amounts of benzene, toluene, alkyl benzenes, polyaromatic ring compounds, hexane, heptane, acetone, ethanol, isopropyl ether, and isopropyl alcohol (IARC** 15,225,77).

CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 15,223,77; Human Limited Evidence IMEMDT 15,223,77.

DFG MAK: Suspected Carcinogen

SAFETY PROFILE: Suspected carcinogen with experimental neoplastigenic data. When heated to decomposition they emit acrid smoke and fumes.

IQW000 CAS: 142-91-6 HR: 3**ISOPROPYL PALMITATE**

mf: C₁₉H₃₈O₂ mw: 298.57

SYNS: CRODAMOL IPP □ DELTYL □ DELTYL PRIME □ EMCOL-IP □ EMEREST 2316 □ ESTOL 103 □ HEXADECANOIC ACID, ISOPROPYL ESTER □ ISOPAL □ ISOPROPYL HEXADECANOATE □ ISOPROPYL-n-HEXADECANOATE □ JAF-FA IPP □ KESSCO ISOPROPYL □ PLYMOUTH IPP □ PROPAL □ STARFOL IPP □ STEPAN D-70 □ TEGESTER ISOPALM □ UNIMATE IPP □ USAF KE-5 □ WICKENOL 111

TOXICITY DATA with REFERENCE:

skn-hmn 84 mg/3D-I MLD 85DKA8 -,127,77
 skn-rbt 500 mg/24H MOD FCTOD7 20 (Suppl),727,82
 ipr-mus LD50:100 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. A human skin irritant. Used in cosmetics as a physical stabilizer in deodorants, an emollient, emulsifier. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

IQX000 CAS: 528-92-7 HR: 3**(2-ISOPROPYL-4-PENTENOYL)UREA**

mf: C₉H₁₆N₂O₂ mw: 184.27

PROP: Needles from ethyl alcohol. Mp: 194°. Sol in water, alc, and ether.

SYNS: ALLYLISOPROPYLACETYL CARBAMIDE □ ALLYLISOPROPYLACETYLUREA □ N-(AMINOCARBONYL)-2-(1-METHYLETHYL)-4-PENTENAMIDE □ APRONAL □ APRONALIDE □ ISODORMID □ ISOPROPYLALLYL-AZETYLKARBAMID (GERMAN) □ SEDORMID

TOXICITY DATA with REFERENCE:

orl-rat LD50:1050 mg/kg OYYAA2 19,323,80
 orl-mus LD50:1220 mg/kg OYYAA2 19,323,80
 orl-dog LDLo:300 mg/kg DMWOAX 54,1166,28

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

IQX090 CAS: 618-45-1 HR: 2**m-ISOPROPYLPHENOL**

mf: C₉H₁₂O mw: 136.21

SYNS: m-CUMENOL □ 3-ISOPROPYLPHENOL □ PHENOL, m-ISOPROPYL- □ PHENOL, 3-(1-METHYLETHYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:1630 mg/kg GISAAA 46(1),94,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IQX100 CAS: 88-69-7 HR: 3**o-ISOPROPYLPHENOL**

mf: C₉H₁₂O mw: 136.21

PROP: Colorless or yellow liquid. Mp: 16°, bp: 215°, d: 1.102. Flash pt: 88°.

SYNS: 2-ISOPROPYLPHENOL □ 2-(1-METHYLETHYL)PHENOL □ PHENOL, o-ISOPROPYL- □ PHENOL, 2-(1-METHYLETHYL)-(9CI) □ PRODOX 131

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg JMCMA 23,1350,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

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

IQZ000 CAS: 99-89-8 HR: 3**p-ISOPROPYLPHENOL**mf: C₉H₁₂O mw: 136.21**PROP:** Needles from pet ether. D: 0.990 @ 20°, mp: 61°, bp: 223–225°. Very sltly sol in water; sol in alc @ 25°, sol in ether @ 25°.**SYNS:** AUSTRALOL □ p-CUMENOL □ 4-ISOPROPYLPHENOL □ 4-(1-METHYLETHYL)PHENOL □ PRODOX 133**TOXICITY DATA with REFERENCE:**

orl-mus LD50:875 mg/kg GISAAA 46(1),94,80

ipr-mus LDLo:250 mg/kg CBCCT* 5,339,53

ivn-mus LD50:40 mg/kg JMCMAR 23,1350,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 6.1; Label: KEEP AWAY FROM FOOD**SAFETY PROFILE:** A poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and fumes. See also PHENOL.**IRA000 CAS: 4395-92-0 HR: 2****4-ISOPROPYL PHENYLACETALDEHYDE**mf: C₁₁H₁₄O mw: 162.25**SYNS:** BENZENEACETALDEHYDE, 4-(1-METHYLETHYL) (9CI) □ CORTEXAL □ CUMINIC ACETALDEHYDE □ CUMYL ACETALDEHYDE □ p-CYMENE-7-CARBOXALDEHYDE □ p-ISOPROPYLPHENYLACETALDEHYDE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H SEV FCTXAV 17,509,79

orl-rat LD50:4100 mg/kg FCTXAV 17,509,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion. A severe skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also ALDEHYDES.**IRA050 CAS: 34123-59-6 HR: D**
N-(4-ISOPROPYLPHENYL)-N',N'-DIMETHYLUREAmf: C₁₂H₁₈N₂O mw: 206.32**SYNS:** ARELON R □ ARELON □ BELGRAN □ NOCILON □ CGA-18731 □ CL 12150 □ 3-p-CUMENYL-1,1-DIMETHYLUREA □ N,N-DIMETHYL-N'-(4-(1-METHYLETHYL)PHENYL)UREA □ DPX 6774 □ GRAMINON □ HOE 16410 □ HYTANE 500L □ IP 50 □ IP-FLO □ IPU STEFES □ N-(4-ISOPROPYLPHENYL)-N',N'-DIMETHYLHARNSTOFF □ N-4-ISOPROPYLPHENYL-N,N'-DIMETHYLUREA □ N-(ISOPROPYL-4-PHENYL)-N',N'-DIMETHYLUREE □ ISOPROTURON □ 35689 R.P. □ TOLKAN □ UREA, 1,1-DIMETHYL-3-(p-ISOPROPYLPHENYL)- □ UREA, 3-p-CUMENYL-1,1-DIMETHYL-**TOXICITY DATA with REFERENCE:**

mnt-ipr-mus 400 mg/kg/30H-I IJEBA6 28,862,1990

cyt-ipr-mus 200 mg/kg IJEBA6 28,862,1990

spm-ipr-mus 500 mg/kg/5D-I IJEBA6 28,862,1990

orl-rat LD50:1826 mg/kg 85JFAN A238,1983

ihl-rat LC50:>670 mg/m³/4H 85JFAN A238,1983

skn-rat LD50:>2 g/kg 85JFAN A238,1983

orl-mus LD50:3350 mg/kg CHDDAT 274,2053,1972

orl-gpg LD :>9 g/kg CHDDAT 274,2053,1972

orl-pgn LD50:>5 g/kg PEMNDP 9,507,1991

orl-qal LD50:3042 mg/kg PEMNDP 9,507,1991

orl-dom LD : >500 mg/kg JAFCAU 46,178,1998

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and skin contact. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**IRA100 CAS: 64532-94-1 HR: 1****O-ISOPROPYLPHENYL DIPHENYL PHOSPHATE**mf: C₂₁H₂₁O₄P mw: 368.39**SYN:** PHOSPHORIC ACID, 2-(1-METHYLETHYL)PHENYL DIPHENYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:10 g/kg TXAPA9 41,291,77

skn-rbt LD50:>5 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.**IRA200 CAS: 55864-04-5 HR: 1**
p-ISOPROPYLPHENYL DIPHENYL PHOSPHATEmf: C₂₁H₂₁O₄P mw: 368.39**SYNS:** p-CUMENYL PHENYL PHOSPHATE (7CI) □ PHOSPHORIC ACID, 4-(1-METHYLETHYL)PHENYL DIPHENYL ESTER**TOXICITY DATA with REFERENCE:**

orl-ckn LD50:>10 g/kg TXAPA9 41,291,77

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of PO_x.**IRC000 CAS: 10099-57-7 HR: 2****p-ISOPROPYLPHENYLETHYL ALCOHOL**mf: C₁₁H₁₆O mw: 164.27**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1800 mg/kg JPETAB 93,26,48

orl-mus LD50:3900 mg/kg JPETAB 93,26,48

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 ALCOHOLS.**IRC050 CAS: 5748-26-5 HR: 3****3-ISOPROPYLPHENYL N-ISOBUTYRYL-N-METHYLCARBAMATE**mf: C₁₅H₂₃NO₃ mw: 265.39**SYNS:** CARBAMIC ACID, METHYL(2-METHYL-1-OXOPROPYL)-, 3-(1-METHYLETHYL)PHENYL ESTER □ CARBAMIC ACID, ISOBUTYRYLMETHYL-, m-CUMENYL ESTER □ OMS-978**TOXICITY DATA with REFERENCE:**

orl-rat LD50:631 mg/kg NTIS** AD860-110

ipr-rat LD50:133 mg/kg NTIS** AD860-110

orl-mus LD50:283 mg/kg NTIS** AD860-110

ipr-mus LDLo:168 mg/kg NTIS** AD860-110

ipr-gpg LDLo:75 mg/kg NTIS** AD860-110

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x.**IRC060 CAS: 77267-48-2 HR: 2**
3-ISOPROPYLPHENYL (METHYL)(N-HEXOXY-

SULFINYL)CARBAMATEmf: $C_{17}H_{27}NO_4S$ mw: 341.51**SYNS:** CARBAMIC ACID, ((HEXYLOXY)SULFINYL)METHYL-, 3-(1-METHYLETHYL)PHENYL ESTER □ 3-(1-METHYLETHYL)PHENYL ((HEXYLOXY)SULFINYL)METHYL-CARBAMATE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>1 g/kg USXXAM #4263318

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x .**IRC100 CAS: 46355-07-1 HR: 1
ISOPROPYL PHENYL PHOSPHATE**mf: $C_9H_{13}O_4P$ mw: 216.19**SYN:** PHOSPHORIC ACID, MONO(1-METHYLETHYL) MONOPHENYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>20 g/kg TXAPA9 45,310,78

ihl-rat LD50:>200 g/m³ TXAPA9 45,310,78

skn-rbt LD50:>10 g/kg TXAPA9 45,310,78

SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. When heated to decomposition it emits toxic vapors of PO_x .**IRF000 CAS: 55-91-4 HR: 3
ISOPROPYL PHOSPHOROFUORIDATE**mf: $C_6H_{14}FO_3P$ mw: 184.17**PROP:** Oily liquid. Mp: -82°, bp: 46° @ 5 mm, d: 1.07 (approx), vap d: 5.24. Slightly sol in water.**SYNS:** DFP □ DIFLUPYL □ DIFLUORPHATE □ DIISOPROPOXYPHOSPHORYL FLUORIDE □ DIISOPROPYL FLUOROPHOSPHATE □ O,O-DIISOPROPYL FLUOROPHOSPHATE □ DIISOPROPYL FLUOROPHOSPHONATE □ DIISOPROPYLFLUOROPHOSPHORIC ACID ESTER □ DIISOPROPYLFLUOROPHOSPHORSAEUREESTER (GERMAN) □ DIISOPROPYL PHOSPHOFUORIDATE □ DIISOPROPYL PHOSPHOROFUORIDATE □ O,O'-DIISOPROPYL PHOSPHORYL FLUORIDE □ DYFLOS □ FLOROPRYL □ FLUOPHOSPHORIC ACID, DIISOPROPYL ESTER □ FLUORO-DIISOPROPYL PHOSPHATE □ FLUOROPRYL □ FLUOSTIGMINE □ ISOFLUOROPHATE □ ISOFLUORPHATE □ ISOPROPYL FLUOPHOSPHATE □ NEOGLAUCIT □ PF-3 □ PHOSPHOROFUORIDIC ACID, DIISOPROPYL ESTER □ RCRA WASTE NUMBER P043 □ T-1703 □ TL 466**TOXICITY DATA with REFERENCE:**ihl-hmn TCLo:8200 µg/m³/10M:EYE,CNS NTIS** PB158-508

orl-rat LD50:5 mg/kg NTIS** PB158-508

ihl-rat LC50:360 mg/m³/10M JCSOA9 -,695,48

ipr-rat LD50:1280 µg/kg ARZNAD 14,85,64

scu-rat LD50:1440 µg/kg AIPTAK 226,302,77

orl-mus LD50:2 mg/kg NTIS** PB158-508

ihl-mus LC50:440 mg/m³/10M NATUAS 157,287,46

skn-mus LD50:72 mg/kg JPETAB 87,414,46

ipr-mus LD50:2450 µg/kg AITEAT 23,769,75

scu-mus LD50:3 mg/kg JPPMAB 34,603,82

ivn-mus LD50:3200 µg/kg BCPCA6 15,169,66

ihl-dog LD50:5 g/m³/10M NTIS** PB158-508ihl-mky LD50:500 mg/m³/2M NTIS** PB158-508**CONSENSUS REPORTS:** EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion, inhalation, skin contact, intraperitoneal, subcutaneous, intramuscular, ocular, and intravenous routes. Moderately toxic by parenteral route. Human systemic effects by inhalation: miosis (pupillary constriction) and headache. Experimental reproductive effects. Used as a basis for "nerve gases." An insecticide. Ingestion can cause damage to eyes, nausea, vomiting, diarrhea, and central nervous system disturbances. An FDA proprietary drug. Used as a miotic agent. When heated to decomposition it emits toxic fumes of F^- and PO_x . See also PARATHION.**IRF500 CAS: 4486-44-6 HR: 2
ISOPROPYL PHOSPHOROTHIOATE**mf: $C_6H_{15}O_3PS$ mw: 198.24**SYNS:** o,o-DIISOPROPYLTHIOLPHOSPHORIC ACID □ o,o-DIISOPROPYL THIOPHOSPHATE □ DESBENZYL IBP □ PHOSPHOROTHIOIC ACID, o,o-DIISOPROPYL ESTER □ PHOSPHOROTHIOIC ACID, o,o-BIS(1-METHYLETHYL) ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>1 g/kg TOIZAG 27,206,1980

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of PO_x and SO_x .**IRG000 CAS: 304-17-6 HR: 2
N-ISOPROPYLPHTHALIMIDE**mf: $C_{11}H_{11}NO_2$ mw: 189.23**SYNS:** N-ISOPROPILFTALIMIDE □ N-ISOPROPYLFTALIMID**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:500 mg/kg NCNSA6 5,27,53

orl-mus LD50:3500 mg/kg FRPSAX 20,3,65

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x .**IRG025 CAS: 4318-42-7 HR: 3
ISOPROPYL PIPERAZINE**mf: $C_7H_{16}N_2$ mw: 128.25**SYNS:** N-ISOPROPYLPIPERAZINE □ PIPERAZINE, 1-ISOPROPYL- □ PIPERAZINE, 1-(1-METHYLETHYL)-(9CI)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2830 µL/kg AIHAAP 30,470,69

skn-rbt LD50:640 µL/kg AIHAAP 30,470,69

SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits toxic vapors of NO_x .**IRG050 CAS: 140-92-1 HR: 3
ISOPROPYL POTASSIUM XANTHATE**mf: $C_4H_7OS_2 \cdot K$ mw: 174.33**SYNS:** CARBONIC ACID, DITHIO-, O-ISOPROPYL ESTER, POTASSIUM SALT □ CARBONODITHIOIC ACID, O-(1-METHYLETHYL) ESTER, POTASSIUM SALT (9CI) □ DITHIOCARBONIC ACID O-ISOPROPYL ESTER POTASSIUM SALT □ POTASSIUM ISOPROPYL XANTHANATE □ POTASSIUM ISOPROPYL XANTHATE □ POTASSIUM ISOPROPYL XANTHOGENATE □ XANTHIC ACID, ISOPROPYL-, POTASSIUM SALT**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:207 mg/kg AIPTAK 135,330,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits toxic vapors of SO_x.**IRG100 CAS: 3772-26-7 HR: 2
1-ISOPROPYL-2-PYRROLIDINONE**mf: C₇H₁₃NO mw: 127.21**PROP:** Liquid. Mp: 18°, bp: 216°, d: 0.971, flash p: 212°F.**SYNS:** N-ISOPROPYLPYRROLIDINONE □ 2-PYRROLIDINONE, 1-ISOPROPYL- □ 2-PYRROLIDINONE, 1-(1-METHYLETHYL)-(9CI)**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTOD7 26,475,88

eye-rbt 100 mg MOD FCTOD7 26,475,88

orl-rat LD50:2900 mg/kg FCTOD7 26,475,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A skin and eye irritant. Combustible liquid. When heated to decomposition it emits toxic fumes of NO_x.**IRL000 CAS: 1333-53-5 HR: 3
ISOPROPYL QUINOLINE**mf: C₁₂H₁₃N mw: 171.26**SYNS:** p-ISOPROPYL QUINOLINE □ 6-ISOPROPYL QUINOLINE □ LICHENOL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:940 mg/kg FCTXAV 13,821,75

skn-rbt LD50:160 mg/kg FCTXAV 13,821,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by skin contact. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.**IRL100 CAS: 112-10-7 HR: 1
ISOPROPYL STEARATE**mf: C₂₁H₄₂O₂ mw: 326.63**SYNS:** 1-METHYLETHYL OCTADECANOATE □ OCTADECANOIC ACID, 1-METHYLETHYL ESTER (9CI) □ STEARIC ACID, ISOPROPYL ESTER □ WICKENOL 127**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg MLD JACTDZ 4(5),107,85

orl-rat LDLo:8 g/kg JACTDZ 4(5),107,85

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 irritating vapors.**IRL300 CAS: 3160-32-5 HR: 3
ISOPROPYL STYRYL KETONE**mf: C₁₂H₁₄O mw: 174.26**SYNS:** 4-METHYL-1-PHENYL-1-PENTEN-3-ONE □ 1-PENTEN-3-ONE, 4-METHYL-1-PHENYL-**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:100 mg/kg CSLNX* NX#06014

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.**IRN000 CAS: 779-47-5 HR: 2
N-ISOPROPYL TEREPHTHALAMIC ACID**mf: C₁₁H₁₃NO₃ mw: 207.25**SYNS:** 4-(((1-METHYLETHYL)AMINO)CARBONYL)-BENZOIC ACID (9CI) □ TEREPHTHALIC ACID ISOPROPYLAMIDE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**IRN100 CAS: 1733-25-1 HR: 1
ISOPROPYL TIGLATE**mf: C₈H₁₄O₂ mw: 142.22**SYNS:** 2-BUTENOIC ACID, 2-METHYL-, 1-ISOPROPYL ESTER (E)- □ ISOPROPYL 2-METHYL-2-BUTENOATE □ ISOPROPYL α-METHYL CROTONATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 17,839,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**IRN200 CAS: 546-68-9 HR: 1
ISOPROPYL TITANATE(IV)**mf: C₃H₈O•1/4Ti mw: 72.07**SYNS:** ISOPROPYL ALCOHOL, TITANIUM(4+) SALT □ ISOPROPYL ORTHOTITANATE □ TETRAISOPROPOXIDE TITANIUM □ TETRAISOPROPOXYTITANIUM □ TETRAISOPROPYL ORTHOTITANATE □ TETRAISOPROPYL TITANATE □ TETRAKIS(ISOPROPOXY)TITANIUM □ TITANIUM(4+) ISOPROPOXIDE □ TITANIUM ISOPROPYLATE □ TITANIUM TETRAISOPROPOXIDE □ TITANIUM TETRAISOPROPYLATE □ TITANIUM TETRA-n-PROPOXIDE □ TYZOR TPt**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD 85JCAE -,1263,86

eye-rbt 20 mg/24H MOD 85JCAE -,1263,86

orl-rat LD50:7460 mg/kg TXAPA9 28,313,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**IRN300 CAS: 527-84-4 HR: 2
2-ISOPROPYLTOLUENE**mf: C₁₀H₁₄ mw: 134.24**SYNS:** BENZENE, 1-METHYL-2-(1-METHYLETHYL)- □ o-CYME (8CI) □ o-CYMO □ o-ISOPROPYLTOLUENE □ 1-METHYL-2-ISOPROPYLBENZENE □ 1-METHYL-2-ISOPROPYLBENZOL □ 1-METHYL-2-(1-METHYLETHYL)-BENZENE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2130 mg/kg GTPZAB 29(3),49,85

orl-mus LD50:2024 mg/kg GTPZAB 29(3),49,85

ihl-mus LC50:10,300 mg/m³ GTPZAB 29(3),49,85

ipr-mus LD50:1315 mg/kg GTPZAB 29(3),49,85

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.

IRN400 CAS: 535-77-3 HR: 2
3-ISOPROPYLTOLUENE

mf: C₁₀H₁₄ mw: 134.24

SYNS: BENZENE, 1-METHYL-3-(1-METHYLETHYL)- □ β-CYMENE □ m-CYMENE (8CI) □ m-CYMOL □ m-ISOPROPYLTOLUENE □ m-METHYLISOPROPYLBENZENE □ 1-METHYL-3-ISOPROPYLBENZENE □ 1-METHYL-3-(1-METHYLETHYL)BENZENE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2970 mg/kg GTPZAB 30(12),57,86

orl-mus LD50:3272 mg/kg GTPZAB 30(12),57,86

ihl-mus LC50:12 g/m³ GTPZAB 30(12),57,86

ipr-mus LD50:1198 mg/kg GTPZAB 30(12),57,86

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.

IRN500 CAS: 56425-91-3 HR: 2
α-ISOPROPYL-α-(p-(TRIFLUOROMETHOXY)-PHENYL)-5-PYRIMIDINEMETHANOL

mf: C₁₅H₁₅F₃N₂O₂ mw: 312.32

SYNS: COMPOUND 72500 □ CUTLESS □ EL 500 □ FLURPRIMIDOL □ α-(1-METHYLETHYL)-α-(4-(TRIFLUOROMETHOXY)PHENYL)-5-PYRIMIDINEMETHANOL □ 5-PYRIMIDINEMETHANOL, α-(1-METHYLETHYL)-α-(4-(TRIFLUOROMETHOXY)PHENYL)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:709 mg/kg PEMNDP 9,422,91

orl-mus LD50:602 mg/kg PEMNDP 9,422,91

skn-rbt LD50:>2 g/kg MEIEDD 11,658,89

orl-qal LD50:>2 g/kg PEMNDP 9,422,91

SAFETY PROFILE: Moderately toxic by ingestion and skin contact routes. When heated to decomposition it emits toxic vapors of NO_x and F⁻.

IRP000 CAS: 26629-87-8 HR: 3
4-ISOPROPYL-2-(α,α,α-TRIFLUORO-m-TOLYL)MORPHOLINE

mf: C₁₄H₁₈F₃NO mw: 273.33

PROP: Bp: 99° @ 3 mm.

SYNS: CERM-1766 □ 4-(1-METHYLETHYL)-2-(3-(TRIFLUOROMETHYL)PHENYL)MORPHOLINE □ OXAFLOZANE □ OXAFLOZANO (SPANISH) □ 2-((3-TRIFLUOROMETHYL)-PHENYL)-4-ISOPROPYL-TETRAHYDRO-1,4-OXAZINE

TOXICITY DATA with REFERENCE:

orl-mus LD50:420 mg/kg DRFUD4 3,667,78

ivn-mus LD50:80 mg/kg DRFUD4 3,667,78

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

IRQ000 CAS: 26328-00-7 HR: 2

N-ISOPROPYL-4-(3,4,5-TRIMETHOXY-CINNAMOYL)-1-PIPERAZINEACETAMIDE MALEATE

mf: C₂₁H₃₁N₃O₅•C₄H₄O₄ mw: 521.63

PROP: A solid. Mp: 152°.

SYNS: MALEATE de CINPROPAZIDE □ 68111 M.D. □ (3',4',5'-TRIMETHOXYCINNAMOYL)-1-(N-ISOPROPYL AMINO CARBONYL METHYL)-4 PIPERAZINE MALEATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1295 mg/kg THERAP 29,233,74

orl-mus LD50:589 mg/kg EJMCA5 10,373,75

ivn-mus LD50:475 mg/kg THERAP 29,233,74

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

IRQ100 CAS: 67590-57-2 HR: 3
4-ISOPROPYL-2,6,7-TRIOXA-1-ARSABICYCLO(2.2.2)OCTANE

mf: C₇H₁₃AsO₃ mw: 220.12

SYN: 2,6,7-TRIOXA-1-ARSABICYCLO(2.2.2)OCTANE, 4-ISOPROPYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:35 mg/kg EJMCA5 13,207,78

OSHA PEL: TWA 0.5 mg(As)/m³

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of As.

IRR000 CAS: 499-44-5 HR: 3
4-ISOPROPYLTROPOLONE

mf: C₁₀H₁₂O₂ mw: 164.22

PROP: Crystals from pet ether. Mp: 52–52.5°. An isomeric isopropyltropolone which occurs in the heartwood of western red cedar, or *Thaja plicata* D. Don (JAPMA8 48,722,59).

SYNS: HINOKITIOL □ HINOKITOL □ 2-HYDROXY-4-ISOPROPYL-2,4,6-CYCLOHEPTATRIEN-1-ONE □ 2-HYDROXY-4-(1-METHYLETHYL)-2,4,6-CYCLOHEPTATRIEN-1-ONE □ β-ISOPROPYLTROPOLON □ β-THUJAPLICIN □ β-THUJAPLICINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:85 mg/kg JMCMA8 6,755,63

scu-mus LD50:541 mg/kg YKKZAJ 91,550,71

ivn-mus LD50:128 mg/kg YKKZAJ 91,550,71

scu-gpg LDLo:500 mg/kg JAPMA8 48,722,59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IRR050 CAS: 120373-24-2 HR: 3
ISOPROPYL UNOPROSTONE

mf: C₂₅H₄₄O₅ mw: 424.69

SYNS: 13,14-DIHYDRO-15-KETO-20-ETHYL-PGF2 □ 5-HEPTENOIC ACID, 7-(3,5-DIHYDROXY-2-(3-OXODECYL)-CYCLOPENTYL)-, 1-METHYLETHYL ESTER, (1R-(1α(Z),2β,3α,5α))- □ (+)-ISOPROPYL, Z-7-((1R,2R,3R,5S)-3,5-DIHYDROXY-2-(3-OXODECYL)CYCLOPENTYL)HEPT-5-ENOATE □ RESCULA □ UF 021 □ UNOPROSTONE ISOPROPYL ESTER

TOXICITY DATA with REFERENCE:

scu-rat LD50:1 g/kg YAKUD5 36,3348,1994

ivn-rat LD50:93,500 µg/kg YAKUD5 36,3348,1994

ivn-dog LD₅₀:>40 mg/kg YAKUD5 36,3348,1994

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

IRR100 CAS: 691-60-1 HR: 1
1-ISOPROPYLUREA

mf: C₄H₁₀N₂O mw: 102.16

SYNS: ISOPROPYLUREA □ N-ISOPROPYLUREA □ (1-METHYLETHYL)UREA □ UREA, ISOPROPYL- □ UREA, (1-METHYLETHYL)-(9CI)

TOXICITY DATA with REFERENCE:

par-mus LDLo:5107 mg/kg JPETAB 52,216,34

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by parenteral route. When heated to decomposition it emits toxic vapors of NO_x.

IRS000 CAS: 926-65-8 HR: 3
ISOPROPYL VINYL ETHER

mf: C₅H₁₀O mw: 86.14

PROP: Flash p: -25.6°F.

SAFETY PROFILE: A very dangerous fire hazard when exposed to heat, spark, or flame. When heated to decomposition it emits acrid smoke and fumes. See also ETHERS.

IRS500 CAS: 105-65-7 HR: 2
ISOPROPYL XANTHOGEN DISULFIDE

mf: C₈H₁₄O₂S₄ mw: 270.46

SYNS: DIISOPROPYL DIXANTHOGEN □ DIISOPROPYL XANTHOGENATE DISULFIDE □ DIISOPROPYL XANTHOGEN DISULFIDE □ BIS(ISOPROPYLXANTHOGEN) DISULFIDE □ BIS(α-ISOPROPYLXANTHYL) DISULFIDE □ BIS(1-METHYLETHYL) ESTERTHIOPEROXYDICARBONIC ACID □ BIS(2-PROPYL) DIXANTHOGEN □ DIPROXID □ DIPROXIDE □ FORMIC ACID, DITHIOBIS(THIO-, α,α-DIISOPROPYL ESTER □ THIOPEROXYDICARBONIC ACID, BIS(1-METHYLETHYL) ESTER-

TOXICITY DATA with REFERENCE:

orl-rat LDLo:1500 mg/kg NTIS** OTS0571751

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

IRU000 CAS: 114-45-4 HR: 3
(±)-ISOPROTERENOL SULFATE

mf: C₂₂H₃₄N₂O₆•H₂O₄S mw: 520.66

PROP: (dl Form): Crystals from (acetone + methanol). Mp: 128° (some decomp). Sltly sol in alc; insol in chloroform, ether, benzene. (l Form): Crystals. Mp: 164–165°.

SYNS: dl-α-3,4-DIHYDROXYPHENYL-β-ISOPROPYLAMINO-ETHANOL SULFATE □ dl-ISOPRENALINE SULFATE □ (±)-ISOPRENALINE SULFATE □ dl-ISOPROTERENOL SULFATE

TOXICITY DATA with REFERENCE:

oms-rat-ipr 20 g/L JNCSAI 16,309,74

orl-rat LD50:3602 mg/kg JPETAB 189,167,74

ivn-rat LD50:335 mg/kg JPETAB 189,167,74

orl-mus LD50:320 mg/kg APTOA6 31,49,72

ipr-mus LD50:365 mg/kg APTOA6 31,43,72

scu-mus LD50:72 mg/kg NIIRDN 6,75,82

ivn-mus LD50:230 mg/kg JPETAB 189,167,74

orl-dog LD50:600 mg/kg NIIRDN 6,75,82

ivn-dog LD50:50 mg/kg NIIRDN 6,75,82

orl-rbt LD50:3070 mg/kg NIIRDN 6,75,82

ivn-rbt LD50:27 mg/kg NIIRDN 6,75,82

orl-gpg LD50:282 mg/kg JPETAB 189,167,74

scu-gpg LD50:610 µg/kg JPETAB 189,167,74

ihl-gpg LC50:4100 ppm/40M JPETAB 189,167,74

SAFETY PROFILE: A poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. Mildly toxic by inhalation. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

IRU500 CAS: 50512-35-1 HR: 2
ISOPROTHIOLANE

mf: C₁₂H₁₈O₄S₂ mw: 290.42

SYNS: DI-ISOPROPYL 1,3-DITHIOLANE-2-YLIDENEMALONATE □ NKK 100 □ NNF-109 □ FUDILAN □ FUJI 1 □ FUJIONE □ FUJI-ONE □ IPT □ IPT □ PROPANEDIOIC ACID, 1,3-DITHIOLAN-2-YLIDENE-, BIS(1-METHYLETHYL) ESTER □ SS 11946

TOXICITY DATA with REFERENCE:

orl-rat LD50:1190 mg/kg FMCHA2-,C174,1991

skn-rat LD50:10,250 mg/kg JPIFAN (40),32,1982

ipr-rat LD50:480 mg/kg JPIFAN (27),20,1976

scu-rat LD50:>5 g/kg JPIFAN (27),20,1976

orl-mus LD50:1340 mg/kg PEMNDP 9,506,1991

skn-mus LD50:>10,250 mg/kg JPIFAN (27),20,1976

ipr-mus LD50:440 mg/kg JPIFAN (27),20,1976

scu-mus LD50:>5 g/kg JPIFAN (27),20,1976

orl-rbt LD50:2320 mg/kg JPIFAN (27),20,1976

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

IRV000 CAS: 52-53-9 HR: 3
ISOPTIN

mf: C₂₇H₃₈N₂O₄ mw: 454.67

SYNS: CP-16533-1 □ D-365 □ DILACORAN □ 5-((3,4-DIMETHOXYPHENETHYL)METHYLAMINO)-2-(3,4-DIMETHOXYPHENYL)-2-ISOPROPYLVALERONITRILE □ IPROVERATRIL □ α-((N-METHYL-N-HOMOVERATRIL)-γ-AMINOPROPYL)-3,4-DIMETHOXYPHENYLACETONITRILE □ VASOLAN □ VERAPAMIL

TOXICITY DATA with REFERENCE:

ivn-man TDLo:1429 µg/kg/5M-C:CVS,PUL,SKN NEJMAG 306,238,82

orl-wmn TDLo:64 mg/kg BMJOAE 2,1127,78

orl-man TDLo:48 mg/kg/2W-I NEJMAG 306,612,82

orl-man LDLo:83 mg/kg AJEMEN 7,624,89

ivn-man TDLo:1429 µg/kg/5M-C NEJMAG 306,238,82

ivn-man TDLo:71 µg/kg AHJOA2 111,622,86

ivn-cld TDLo:250 µg/kg/5M-C AHJOA2 106,145,83

orl-rat LD50:163 mg/kg EJMCA5 25,351,90

ipr-rat LD50:67 mg/kg ARZNAD 31,1401,81

ivn-rat LD50:7250 µg/kg PCJOAU 22,123,88

orl-mus LD50:163 mg/kg ARZNAD 31,1401,81

ipr-mus LD50:43 mg/kg JDGRAX 15(1-2),121,84
 scu-mus LD50:30,770 µg/kg JPPMAB 34,329,82
 ivn-mus LD50:1520 µg/kg EJTXAZ 8,188,75

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

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

IRV300 CAS: 2365-26-6 HR: 2
ISOQUINALDEHYDE THIOSEMICARBAZONE

mf: C₁₁H₁₀N₄S mw: 230.31

SYNS: 1-FORMYLISOQUINOLINE THIOSEMICARBAZONE □ IQ 1 □ 2-(1-ISOQUINOLINYMETHYLENE)-HYDRAZINE-CARBOETHIOAMIDE (9CI)

TOXICITY DATA with REFERENCE:

oms-esc 2500 µmol/L BCPCA6 21,321,72
 dnd-hmn:hla 40 µmol/L ANYAA9 284,525,77
 dnd-mus/ast 30 mg/kg BCPCA6 24,1631,75
 ipr-mus LD50:800 mg/kg JMCMA9 9,585,66

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

IRW000 CAS: 7492-29-7 HR: 3
ISOQUINAZEPON

mf: C₁₈H₁₇ClN₂O mw: 312.82

SYNS: 2-CHLORO-5-METHYL-6,7,9,10-TETRAHYDRO-5H-ISOQUINO(2,1-D)(1,4)BENZODIAZEPIN-6 ONE □ 5,9,10,14B-TETRAHYDRO-2-CHLORO-5-METHYLISOQUINO(2,1-D)(1,4)BENZODIAZEPIN-6(7H)-ONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1730 mg/kg 27ZQAG -,163,72
 ipr-rat LD50:465 mg/kg 27ZQAG -,163,72
 orl-mus LD50:1160 mg/kg 27ZQAG -,163,72
 ipr-mus LD50:233 mg/kg JMCMA9 11,777,68

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

IRX000 CAS: 119-65-3 HR: 3
ISOQUINOLINE

mf: C₉H₇N mw: 129.17

PROP: Crystals, oil or liquid; pungent odor. Hygroscopic platelets when solid. D: 1.10 @ 20°/4°, mp: 26.48°, bp: 243°. Almost insol in water; misc with many org solvs, acids; sol in EtOH, Et₂O, Me₂CO, and C₆H₆.

SYNS: 2-AZANAPHTHALENE □ 2-BENZAZINE □ BENZO(c)PYRIDINE □ LEUCOLINE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open SEV AMIHBC 4,119,51
 eye-rbt 250 µg open SEV AMIHBC 4,119,51
 orl-rat LD50:360 mg/kg AMIHBC 4,119,51
 skn-rbt LD50:590 mg/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

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

IRX050 CAS: 78186-39-7 HR: 3
ISOQUINOLIUM, 2-(3-(4-FORMYLPYRIDINIO)-PROPYL)-, DIBROMIDE, OXIME

mf: C₁₈H₁₉N₃O•2Br mw: 453.22

TOXICITY DATA with REFERENCE:

scu-mus LD :>20 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⁻.

IRX100 CAS: 21621-78-3 HR: 3
1-(2-ISOQUINOLYL)-5-METHYL-4-PYRAZOLYL METHYL KETONE

mf: C₁₅H₁₃N₃O mw: 251.31

SYN: KETONE, 1-(2-ISOQUINOLYL)-5-METHYL-4-PYRAZOLYL METHYL

TOXICITY DATA with REFERENCE:

orl-cat LDLo:9 mg/kg JPMSAE 58,432,69

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.

IRY000 CAS: 94-86-0 HR: 2
ISOSAFROEUGENOL

mf: C₁₁H₁₄O₂ mw: 178.25

PROP: White crystalline powder; vanilla odor. Flash p: 212°F. Sol in fixed oils; insol in water.

SYNS: 6-ETHOXY-m-ANOL □ 1-ETHOXY-2-HYDROXY-4-PROPENYLBENZENE □ FEMA No. 2922 □ HYDROXY METHYL ANETHOL □ PROPENYLGAETHOL (FCC) □ VANITROPE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2400 mg/kg AFDOAQ 15,82,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

IRZ000 CAS: 120-58-1 HR: 3
ISOSAFROLE

mf: C₁₀H₁₀O₂ mw: 162.20

PROP: Liquid; odor of anise. Bp: 253°, mp: 8.2°.

SYNS: 1,2-METHYLENEDIOXY-4-PROPENYLBENZENE □ 3,4-METHYLENEDIOXY-1-PROPENYL BENZENE □ 5-(1-PROPENYL)-1,3-BENZODIOXOLE □ 4-PROPENYLCATECHOL METHYLENE ETHER □ 4-PROPENYL-1,2-METHYLENEDIOXY-BENZENE □ RCRA WASTE NUMBER U141

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,307,76
 orl-mus TDLo:61 g/kg/81W-C:CAR JNCIAM 42,1101,69
 orl-rat LD50:1340 mg/kg TXAPA9 7,18,65
 orl-mus LD50:2470 mg/kg FCTXAV 2,327,64
 ipr-mus LD50:324 mg/kg YKKZAJ 104,793,84
 scu-cat LDLo:2 g/kg AEXPBL 35,342,1895
 ivn-rbt LDLo:300 mg/kg AEXPBL 35,342,1895

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 1,169,72. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. A skin irritant. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Used as a pesticide. When heated to decomposition it emits acrid smoke and fumes.

ISA000 CAS: 120-62-7 HR: 2
ISOSAFROLE-*n*-OCTYLSULFOXIDE

mf: C₁₈H₂₈O₃S mw: 324.52

PROP: Brown liquid. D: 1.06–1.09. Water-insol; sltly sol in pet oils; sol in most org solvs.

SYNS: ENT 16,634 □ ISOSAFROLE, OCTYL SULFOXIDE □ 1,2-(METHYLENEDIOXY)-4-(2-(OCTYLSULFINYL)PROPYL)-BENZENE □ 1-METHYL-2-(3,4-METHYLENEDIOXYPHENYL)-ETHYL OCTYL SULFOXIDE □ NCI-C02824 □ *n*-OCTYLISOSAFROLE SULFOXIDE □ PIPERONYL SULFOXIDE □ SULFOXIDE □ SULFOXIDE □ SULFOXYL □ SULPHOXIDE

TOXICITY DATA with REFERENCE:

mma-mus:lyms 2500 µg/L MUREAV 196,61,88
 scu-mus TDLo:90 mg/kg(6-14D preg):TER NTIS** PB223-160
 orl-mus TDLo:31 g/kg/2Y-C:CAR NCITR* NCI-CG-TR-124,79
 orl-mus TD:62 g/kg/2Y-C:ETA NCITR* NCI-CG-TR-124,79
 orl-rat LD50:2000 mg/kg ARSIM* 20,24,66
 skn-rbt LD50:9000 mg/kg 85DPAN -,71,76

CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: rat NCITR* NCI-CG-TR-124,79. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse NCITR* NCI-CG-TR-124,79.

SAFETY PROFILE: Moderately toxic by ingestion. Slightly toxic by skin contact. Questionable carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Reacts violently with HClO₄. An insecticide. Mutation data reported. When heated to decomposition it emits highly toxic fumes of SO_x.

ISC500 CAS: 16051-77-7 HR: 2
ISOSORBIDE 5-NITRATE

mf: C₆H₉NO₆ mw: 191.16

PROP: A solid. Mp: 52–53°.

SYNS: 5-ISMN □ ISOSORBIDE 5-MONONITRATE

TOXICITY DATA with REFERENCE:

orl-rat TDLo:27 g/kg (female 17-22D post):REP KSRNAM 20,6911,86
 orl-rat LD50:2010 mg/kg OYYAA2 29,327,85
 ipr-rat LD50:1760 mg/kg OYYAA2 29,327,85
 ivn-rat LD50:1750 mg/kg OYYAA2 29,327,85
 orl-mus LD50:2910 mg/kg OYYAA2 29,327,85
 ipr-mus LD50:1810 mg/kg OYYAA2 29,327,85
 ivn-mus LD50:1820 mg/kg OYYAA2 29,327,85

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and intravenous routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES.

ISC550 CAS: 58958-60-4 HR: 1
ISOSTEARYL NEOPENTANOATE

mf: C₂₃H₄₆O₂ mw: 354.69

SYNS: CERAPHYL 375 □ CYCLOCHEM INEO □ 2,2-DIMETHYLPROPANOIC ACID ISOCTADECYL ESTER □ PROPANOIC ACID, 2,2-DIMETHYL-, ISOCTADECYL ESTER □ SCHERCHEMOL 85

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MLD JACTDZ 4(3),1,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ISD000 CAS: 2496-92-6 HR: 3
ISO SYSTOX SULFOXIDE

mf: C₈H₁₉O₄PS₂ mw: 274.36

SYNS: O,O-DIETHYL-S-(2-ETHTHIONYLETHYL) PHOSPHOROTHIOATE □ DIETHYL-S-(2-ETHTHIONYLETHYL) THIOPHOSPHATE □ O,O-DIETHYL-S-ETHYL-2-ETHYL-MERCAPTO PHOSPHOROTHIOATE SULFOXIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2000 µg/kg AEPPAE 234,352,58
 ipr-rat LD50:1500 µg/kg AMIHAB 13,606,56
 ipr-mus LD50:5600 µg/kg PAREAQ 11,636,59
 ipr-gpg LD50:5000 µg/kg AMIHAB 13,606,56

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of PO_x and SO_x.

ISD033 CAS: 25650-97-9 HR: 3
ISOTHEBAINE HYDROCHLORIDE

mf: C₁₉H₂₁NO₃•ClH mw: 347.87

SYNS: 6A-α-APORPHIN-1-OL, 2,11-DIMETHOXY-, HYDROCHLORIDE □ 4H-DIBENZO(de,g)QUINOLIN-1-OL, 5,6,6a,7-TETRAHYDRO-2,11-DIMETHOXY-6-METHYL-, HCL, (S)- □ 2,11-DIMETHOXY-6aA-α-APORPHIN-1-OL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

scu-mus LD50:26 mg/kg AUPMAF 66,169,1973

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

ISD043 CAS: 82-63-3 HR: 2
1,9-ISOTHIAZOLEANTHRONE-2-CARBOXYLIC ACID

mf: C₁₅H₇NO₃S mw: 281.29

SYNS: 6H-ANTHRA(9,1-CD)ISOTHIAZOLE-3-CARBOXYLIC ACID, 6-OXO- □ 6-OXO-6H-ANTHRA(9,1-CD)ISOTHIAZOLE-3-CARBOXYLIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LDLo:1500 mg/kg JPETAB 90,260,1947

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

ISD066 CAS: 55965-84-9 HR: 3
ISOTHIAZOLINONE CHLORIDE

mf: C₄H₅NOS•C₄H₄ClNOS mw: 264.76

SYNS: BIO-PERGE □ 3(2H)-ISOTHIAZOLONE, 5-CHLORO-2-METHYL-, MIXT. WITH 2-METHYL-3(2H)-ISOTHIAZOLONE □ KATHON 886 □ KATHON CG □ KATHON LX □ KATHON 886MW □ KATHON 886 W □ KATHON WT □ KKM 43 □ KB □ KATHON BIOCIDAL □ KATHON RH 886

TOXICITY DATA with REFERENCE:

mic-sat 268 ng/plate MUREAV 119,35,1983
 mic-esc 268 ng/plate MUREAV 119,35,1983
 mic-mus-lym 2970 µg/ MUREAV 118,129,1983
 msc-mus-lym 297 µg/ MUREAV 118,129,1983
 orl-rat LD50:53 mg/kg MUREAV 118,129,1983
 orl-mus LD50:60 mg/kg MUREAV 118,129,1983

SAFETY PROFILE: A poison by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Cl⁻.

ISD100 CAS: 592-82-5 HR: D
1-ISOTHIOCYANATOBUTANE

mf: C₅H₉NS mw: 115.21

SYNS: BUTANE, 1-ISOTHIOCYANATO-(9CI) □ n-BUTYL ISOTHIOCYANATE □ BUTYL MUSTARD OIL □ ISOTHIOCYANIC ACID, BUTYL ESTER

TOXICITY DATA with REFERENCE:

mno-sat 100 µg/plate ABCHA6 44,3017,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ISD200 CAS: 133920-06-6 HR: 2
(6-ISOTHIOCYANATOHEXYL)BENZENE

mf: C₁₃H₁₇NS mw: 219.35

TOXICITY DATA with REFERENCE:

orl-rat TDLo:95.8 g/kg/25W-I:NEO CALEDQ 162,19,2001

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

ISE000 CAS: 556-61-6 HR: 3
ISOTHIOCYANATOMETHANE

DOT: UN 2477

mf: C₂H₃NS mw: 73.12

PROP: Crystalline. Mp: 36°, bp: 119°, d: 1.069. Very sltly sol in water; misc in alc and ether.

SYNS: DI-TRAPEX □ EP-161E □ ISOTHIOCYANATE de METHYLE (FRENCH) □ ISOTHIOCYANIC ACID, METHYL ESTER □ ISOTIOCIANATO di METILE (ITALIAN) □ METHYLISOTHIOCYANAAT (DUTCH) □ METHYL-ISOTHIOCYANAT (GERMAN) □ METHYL ISOTHIOCYANATE (DOT) □ METHYL MUSTARD OIL □ METHYLSENFOEL (GERMAN) □ MIC □ MIT □ MITC □ MORTON WP-161E □ TRAPEX □ TRAPEX-40 □ TRAPEXIDE □ VORLEX □ VORTEX □ WN 12

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD NNGADV 15,297,90
 eye-rbt 100 mg SEV NNGADV 15,297,90
 orl-wmn LDLo:1 g/kg:CNS BMJOAE 283,18,81
 orl-rat LD50:72 mg/kg NNGADV 15,297,90
 ihl-rat LC50:1900 mg/m³/1H NNGADV 15,297,90
 ipr-rat LD50:54 mg/kg NNGADV 15,297,90
 scu-rat LD50:59 mg/kg NNGADV 15,297,90
 orl-mus LD50:90 mg/kg NNGADV 15,297,90
 skn-rat LD50:2780 mg/kg 85DPAN -,71/76
 orl-mus LD50:97 mg/kg PCOC** -,729,66
 skn-mus LD50:1820 mg/kg 85DPAN -,71/76
 scu-mus LD50:50 mg/kg ARZNAD 5,505,55

skn-rbt LD50:33 mg/kg TXAPA9 42,417,77

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison

SAFETY PROFILE: A poison by ingestion, skin contact, and subcutaneous routes. Very irritating to skin, eyes, and mucous membranes. Human systemic effects by ingestion: convulsions, change in motor activity, coma. An agricultural chemical and pesticide. Flammable when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also THIOCYANATES.

ISF000 CAS: 15597-43-0 HR: 3
ISOTHIOCYANATOTRIMETHYLTIN

mf: C₄H₉NSSn mw: 221.89

PROP: White needles from C₆H₆. Mp: 108.5°.

SYNS: (ISOTHIOCYANATO)TRIMETHYLSTANNE □ TRIMETHYLTIN ISOTHIOCYANATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:3600 µg/kg CSLNX* NX#03472

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: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also TIN COMPOUNDS and THIOCYANATES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

ISF100 CAS: 3129-90-6 HR: 3
ISOTHIOCYANIC ACID

mf: CHNS mw: 59.09

SYNS: HYDROGEN ISOTHIOCYANATE □ ISOTHIOCYANIC ACID (DOT)

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: An unstable substance forbidden for transport. When heated to decomposition it emits toxic vapors of SO_x and CN⁻.

ISG000 CAS: 3137-83-5 HR: 3
ISOTHIOCYANIC ACID-m-ACETAMIDOPHENYL ESTER

mf: C₉H₈N₂OS mw: 192.25

SYNS: ACETAMIDE, N-(3-ISOTHIOCYANATOPHENYL)-(9CI) □ 3-ACETAMIDOPHENYL ISOTHIOCYANATE □ N-(3-ISOTHIOCYANATOPHENYL)ACETAMIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#07851

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of SO_x. See also THIOCYANATES.

ISH000 CAS: 2131-55-7 HR: 3

ISOTHIOCYANIC ACID, p-CHLOROPHENYL ESTERmf: C₇H₄ClNS mw: 169.63**SYN:** 4-CHLOR-PHENYL-ISOTHIOCYANAT (GERMAN)**TOXICITY DATA with REFERENCE:**

ipr-rat LDLo:100 mg/kg ARZNAD 16,870,66

ipr-mus LDLo:100 mg/kg ARZNAD 21,121,71

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of Cl⁻, NO_x, and SO_x. See also THIOCYANATES.**ISI000 CAS: 2719-32-6 HR: 3
ISOTHIOCYANIC ACID-p-CYANOPHENYL ESTER**mf: C₈H₄N₂S mw: 160.20**SYNS:** p-CYANOPHENYL ISOTHIOCYANATE □ 4-CYANO-PHENYL ISOTHIOCYANATE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:24 mg/kg CSLNX* NX#07920

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 very toxic fumes of CN⁻, NO_x, and SO_x. See also THIOCYANATES and CYANIDE.**ISJ000 CAS: 1122-82-3 HR: 3
ISOTHIOCYANIC ACID, CYCLOHEXYL ESTER**mf: C₇H₁₁NS mw: 141.25**PROP:** A liquid. Bp: 96° @ 12 mm.**SYN:** CYCLOHEXYL-ISOTHIOCYANAT (GERMAN)**TOXICITY DATA with REFERENCE:**

ipr-rat LDLo:300 mg/kg ARZNAD 16,870,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also THIOCYANATES.**ISJ100 CAS: 2131-64-8 HR: 3
ISOTHIOCYANIC ACID, p-DIMETHYLAMINO-PHENYL ESTER**mf: C₉H₁₀N₂S mw: 178.27**SYN:** TL 1106**TOXICITY DATA with REFERENCE:**ihl-mus LCLo:640 mg/m³/10M NDRC** No.9-4-1-19,43**SAFETY PROFILE:** A poison by inhalation. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**ISK000 CAS: 3688-08-2 HR: 3
ISOTHIOCYANIC ACID, ETHYLENE ESTER**mf: C₄H₄N₂S₂ mw: 144.22**PROP:** Oil. Bp: 135–140° @ 10 mm.**SYNS:** AETHYLEN-BIS-THIURAMMONOSULFID (GERMAN) □ AETHYLENFOEL (GERMAN) □ AETM (GERMAN) □ 1,2-DIISOTHIOCYANATOETHANE □ DIMETHYLENE DIISOTHIOCYANATE □ EBI □ EBIS □ ETHYLENEBISISOTHIOCYANATE □ ETHYLENE-BIS-THIURAMMONO-SULFIDE □ ETHYLENE DIISOTHIOCYANATE □ SENFOEL (GERMAN)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:112 mg/kg BECTA6 17,159,77

scu-mus LD50:110 mg/kg ARZNAD 5,505,55

SAFETY PROFILE: A poison by ingestion and subcutaneous routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x, NH₃, and SO_x. See also THIOCYANATES.**ISL000 CAS: 404-72-8 HR: 3
ISOTHIOCYANIC ACID-m-FLUOROPHENYL ESTER**mf: C₇H₄FNS mw: 153.18**SYNS:** 3-FLUOROPHENYL ISOTHIOCYANATE □ m-FLUOROPHENYL ISOTHIOCYANATE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#00949

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits very toxic fumes of F⁻, NO_x, and SO_x. See also THIOCYANATES and FLUORIDES.**ISM000 CAS: 1544-68-9 HR: 3
ISOTHIOCYANIC ACID-p-FLUOROPHENYL ESTER**mf: C₇H₄FNS mw: 153.18**PROP:** Oil. Mp: 23.5–25.5°, bp: 228°.**SYNS:** p-FLUOROPHENYL ISOTHIOCYANATE □ 4-FLUOROPHENYL ISOTHIOCYANATE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#00950

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits very toxic fumes of F⁻, NO_x, and SO_x. See also THIOCYANATES.**ISN000 CAS: 551-06-4 HR: 3
ISOTHIOCYANIC ACID-1-NAPHTHYL ESTER**mf: C₁₁H₇NS mw: 185.25**PROP:** White, odorless, tasteless needles or crystals. Mp: 58°, d: 1.81.**SYNS:** ANI □ ANIT □ 1-ISOTHIOCYANATE-NAPHTHALENE □ 1-ISOTHIOCYANATONAPHTHALENE □ KESSCOCIDE □ α-NAPHTHYL ISOTHIOCYANATE □ 1-NAPHTHYL ISOTHIOCYANATE**TOXICITY DATA with REFERENCE:**

mmo-sat 100 µg/plate ABCHA6 44,3017,80

dns-rat:lvrl 10 µmol/L ENMUDM 3,11,81

orl-rat LD50:200 mg/kg JPBA7 76,175,58

orl-mus LD50:105 mg/kg CTYAD8 17,307,86

ipr-mus LD50:152 mg/kg JJIND8 62,911,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion and intraperitoneal routes. May cause dermatitis, chills, fever, and kidney injury. Can be absorbed by the intact skin when in solution. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also THIOCYANATES.

ISO000 CAS: 3529-82-6 HR: 3
ISOTHIOCYANIC ACID-m-NITROPHENYL
ESTER

mf: $C_7H_4N_2O_2S$ mw: 180.19

PROP: Needles from AcOH. Sltly sol in H_2O . Mp: 60.5°, bp: 275–280° (decomp).

SYNS: m-NITROPHENYL ISOTHIOCYANATE □ 3-NITRO-PHENYL ISOTHIOCYANATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:75 mg/kg CSLNX* NX#07672

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x . See also THIOCYANATES.

ISP000 CAS: 2257-09-2 HR: 3
ISOTHIOCYANIC ACID, PHENETHYL ESTER

mf: C_9H_9NS mw: 163.25

PROP: A liquid. Bp: 143–145° @ 12.

SYNS: (2-ISOTHIOCYANATOETHYL)BENZENE □ β-PHENETHYL ISOTHIOCYANATE □ PHENYLAEETHYL-SENFOEL (GERMAN) □ PHENYLETHYL ISOTHIOCYANATE □ β-PHENYLETHYL ISOTHIOCYANATE □ 2-PHENYLETHYL ISOTHIOCYANATE □ PHENYLETHYL MUSTARD OIL

TOXICITY DATA with REFERENCE:

uns-uns- 800 µg/L MUREAV 300,111,93

cyt-uns-skn 800 µg/L MUREAV 300,111,93

ipr-rat LDLo:100 mg/kg ARZNAD 19,558,69

orl-mus LD50:700 mg/kg JAFCAU 10,30,62

ipr-mus LDLo:100 mg/kg ARZNAD 21,121,71

scu-mus LD50:250 mg/kg ARZNAD 5,505,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x . See also THIOCYANATES.

ISQ000 CAS: 103-72-0 HR: 3
ISOTHIOCYANIC ACID, PHENYL ESTER

mf: C_7H_5NS mw: 135.19

PROP: Pale-yellow liquid. Mp: –21°, bp: 221°, d: 1.1282. Insol in water; sol in alc and ether.

SYNS: BENZENE-1-ISOTHIOCYANATE □ ISOTHIOCYANATOBENZENE □ PHENYL ISOTHIOCYANATE □ PHENYL MUSTARD OIL □ PHENYLSENFOEL (GERMAN) □ PITC □ THIOCARBANIL □ USAF M-4

TOXICITY DATA with REFERENCE:

cyt-uns-skn 800 µg/L MUREAV 300,111,93

ipr-rat LDLo:150 mg/kg ARZNAD 16,870,66

orl-mus LD50:87 mg/kg AGACBH 8,610,78

ipr-mus LD50:100 mg/kg NTIS** AD277-689

scu-mus LD50:250 mg/kg ARZNAD 5,505,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion, intraperitoneal, and subcutaneous routes. An experimental teratogen. Mutation data reported. When heated to decomposition, or on contact with acid or acid fumes, it emits highly toxic fumes of cyanides and SO_x . See also THIOCYANATES.

ISR000 CAS: 62-56-6 HR: 3
ISOTHIIOUREA
DOT: UN 2877

mf: CH_4N_2S mw: 76.13

PROP: White powder or crystals; rhombohedra or needles from EtOH. Mp: 177°, bp: decomp, d: 1.405. Sol in H_2O , EtOH; sltly sol in Et_2O .

SYNS: PSEUDOTHIIOUREA □ RCRA WASTE NUMBER U219 □ SULOUREA □ THIOCARBAMATE □ THIOCARBAMIDE □ β-THIOPSEUDOUREA □ THIOUREA (DOT) □ 2-THIOUREA □ THU □ TSIZP 34 □ USAF EK-497

TOXICITY DATA with REFERENCE:

eye-rbt 14% GTPZAB 30(3),42,86

mno-sat 150 µg/plate ABCHA6 44,3017,80

dni-hmn:lym 20 mmol/L PNASA6 79,1171,82

orl-rat TDLo:78 g/kg/56W-C:CAR CNREA8 17,302,57

orl-wmn TDLo:1660 mg/kg/5W:BLD LANCAO 246,179,44

unr-man LDLo:147 mg/kg 85DCAI 2,73,70

orl-rat LD50:125 mg/kg HBTXAC 5,177,59

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 7,95,74. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. A human poison by an unspecified route. An experimental poison by ingestion. An eye irritant. Human mutation data reported. Human systemic effects by ingestion: hemorrhage, granulocytopenia (reduction in number of granulocytes), and changes in cell count (unspecified). May cause depression of bone marrow with anemia, leukopenia, and thrombocytopenia. May also cause allergic skin eruptions. Causes hepatic tumors upon chronic administration. Experimental teratogenic and reproductive effects. May react violently with acrolein. Incompatible with acrylaldehyde, H_2O_2 , HNO_3 . When heated to decomposition it emits very toxic fumes of NO_x and SO_x .

ISR100 CAS: 72812-40-9 HR: 2
ISOTRIMETHYLTETRAHYDRO BENZYL
ALCOHOL

mf: $C_{10}H_{18}O$ mw: 154.28

SYNS: 3-CYCLOHEXENE-1-METHANOL, 1,2,4(or 1,3,5)-TRIMETHYL- □ 1,2,4 al 1,3,5-TRIMETHYL-3-CYCLOHEXENE-1-METHANOL MIXTURE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3700 mg/kg FCTOD7 30,127S,92

skn-rbt LD50:>5 g/kg FCTOD7 30,127S,92

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.

ISR200 CAS: 55861-78-4 HR: 3
ISOURON

mf: $C_{10}H_{17}N_3O_2$ mw: 211.30

SYNS: 3-(5-tert-BUTYLISOXAZOL-3-YL)-1,1-DIMETHYLUREA □ N,N-DIMETHYL-N'-(5-(1,1-DIMETHYLETHYL)-3-ISOXAZOLYL)UREA □ N'-(5-(1,1-DIMETHYLETHYL)-3-ISOXAZOLYL)-N,N-DIMETHYLUREA □ UREA, N,N-DIMETHYL-N'-(5-(1,1-DIMETHYLETHYL)-3-ISOXAZOLYL)- □ SSH 43

TOXICITY DATA with REFERENCE:

orl-rat LD50:630 mg/kg PEMNDP 9,509,91
ihl-rat LC50:>415 mg/m³ NNGADV 11,131,86
skn-rat LD50:>5 g/kg NNGADV 11,131,86
ipr-rat LD50:270 mg/kg NNGADV 11,131,86
scu-rat LD50:510 mg/kg NNGADV 11,131,86
orl-mus LD50:520 mg/kg PEMNDP 9,509,91
ipr-mus LD50:390 mg/kg NNGADV 11,131,86
scu-mus LD50:550 mg/kg NNGADV 11,131,86

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion, inhalation, and subcutaneous routes. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

ISU000 CAS: 503-74-2 HR: 3
ISOVALERIC ACID

mf: C₅H₁₀O₂ mw: 102.15

PROP: Colorless liquid or oil; acid taste, disagreeable rancid-cheese odor. Solidifies @ -37°, d: 0.931 @ 20°/4°, refr index: 1.403, mp: -37.6°, bp: 175–177°. Sol in water @ 16°; misc in alc, chloroform, ether.

SYNS: DELPHINIC ACID □ FEMA No. 3102 □ ISOPENTANOIC ACID (DOT) □ ISOPROPYLACETIC ACID □ ISOVALERIANIC ACID □ 3-METHYLBUTANOIC ACID □ β-METHYLBUTYRIC ACID □ 3-METHYLBUTYRIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 470 mg open MOD UCDS** 1/31/72
skn-rbt 500 mg/24H MOD FCTXAV 17,841,79
eye-rbt 940 µg MLD UCDS** 1/31/72
orl-rat LD50:2000 mg/kg UCDS** 1/31/72
ivn-mus LD50:1120 mg/kg APTOA6 18,141,61
skn-rbt LD50:310 mg/kg UCDS** 1/31/72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by skin contact. Moderately toxic by ingestion and intravenous routes. A corrosive skin and eye irritant. When heated to decomposition it emits acrid smoke and fumes.

ISV000 CAS: 2835-39-4 HR: 3
ISOVALERIC ACID, ALLYL ESTER

mf: C₈H₁₄O₂ mw: 142.22

SYNS: ALLYL ISOVALERATE □ ALLYL ISOVALERIANATE □ ALLYL 3-METHYLBUTYRATE □ FEMA No. 2045 □ 3-METHYLBUTANOIC ACID, 2-PROPENYL ESTER □ 3-METHYLBUTYRIC ACID, ALLYL ESTER □ NCI-C54717 □ 2-PROPENYL ISOVALERATE □ 2-PROPENYL 3-METHYLBUTANOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,703,79
orl-rat LD50:230 mg/kg FCTXAV 17,703,79
skn-rbt LD50:560 mg/kg FCTXAV 17,703,79

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 36,69,85. NTP Carcinogenesis Studies (gavage);

Clear Evidence: mouse, rat NTPTR* NTP-TR-253,83. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. A poison by ingestion. Moderately toxic by skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also ALLYL COMPOUNDS and ESTERS.

ISW000 CAS: 103-38-8 HR: 2
ISOVALERIC ACID, BENZYL ESTER

mf: C₁₂H₁₆O₂ mw: 192.28

PROP: Colorless liquid; fruity apple odor. D: 0.985–0.9911, refr index: 1.486, flash p: 212°F. Sol in alc, fixed oils; sltly sol in propylene glycol; insol in glycerin, water @ 246°.

SYNS: BENZYL ISOVALERATE (FCC) □ BENZYL-3-METHYLBUTANOATE □ BENZYL-3-METHYL BUTYRATE □ FEMA No. 2152 □ ISOPENTANOIC ACID, PHENYLMETHYL ESTER □ ISOPROPYL ACETIC ACID, BENZYL ESTER □ 3-METHYLBUTANOIC ACID, PHENYLETHYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 12,829,74
orl-rat LD50:>5 g/kg FCTXAV 12,829,74
skn-rbt LD50:>5 g/kg FCTXAV 12,829,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

ISX000 CAS: 109-19-3 HR: 3
ISOVALERIC ACID, BUTYL ESTER

mf: C₉H₁₈O₂ mw: 158.27

PROP: Colorless to pale-yellow liquid; fruity odor. Vap d: 5.45, bp: 150°, d: 0.851–0.857, refr index: 1.407. Misc with alc, fixed oils; sltly sol in propylene glycol; insol in water.

SYNS: n-BUTYL ISOPENTANOATE □ n-BUTYL ISOVALERATE □ 1-BUTYL ISOVALERATE □ BUTYL ISOVALERIANATE □ BUTYL 3-METHYLBUTYRATE □ FEMA No. 2218 □ 3-METHYLBUTANOIC ACID, BUTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 18,659,80
orl-rbt LD50:8200 mg/kg FCTXAV 18,659,80
skn-rbt LD50:>5 g/kg FCTXAV 18,659,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. Flammable when exposed to heat, flame, sparks, and oxidizers. To fight fire, use alcohol foam, dry chemical, spray, mist, fog. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

ISY000 CAS: 108-64-5 HR: 3
ISOVALERIC ACID, ETHYL ESTER

mf: C₇H₁₄O₂ mw: 130.21

PROP: Colorless, oily liquid; apple odor. Flash p: 77°F, d: 0.868 @ 20°/20°, refr index: 1.395–1.399, bp: 135°,

mp: -99° . Misc with alc, fixed oils, benzene, ether; sol in propylene glycol; sltly sol in water @ 135° .

SYNS: ETHYL ISOVALERATE (FCC) ☐ FEMA No. 2463 ☐ 3-METHYLBUTANOIC ACID, ETHYL ESTER ☐ 3-METHYLBUTYRIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 16,743,78

ipr-rat LD50:1200 mg/kg FCTXAV 16,743,78

orl-rbt LD50:7031 mg/kg IMSUAI 41,31,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. A skin irritant. Flammable liquid when exposed to heat, flame, or sparks. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

ISZ000 CAS: 35154-45-1 HR: 1
(Z)-ISOVALERIC ACID-3-HEXENYL

mf: $C_{11}H_{20}O_2$ mw: 184.31

PROP: Colorless liquid; sweet, apple odor. D: 0.869–0.874, refr index: 1.439–1.435. Sol in alc, propylene glycol, fixed oils; insol in water.

SYNS: A13-35966 ☐ FEMA No. 3498 ☐ cis-3-HEXENYL ISOVALERATE (FCC)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD NTIS** AD-A053-884

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ITA000 CAS: 589-59-3 HR: 1
ISOVALERIC ACID, ISOBUTYL ESTER

mf: $C_9H_{18}O_2$ mw: 158.27

SYNS: ISOBUTYL ISOPENTANOATE ☐ ISOBUTYL ISOVALERATE ☐ 3-METHYLBUTANOIC ACID-2-METHYLPROPYL ESTER ☐ 2-METHYLPROPYL ISOVALERATE ☐ 2-METHYLPROPYL-3-METHYLBUTYRATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTOD7 20(Suppl),725,82

orl-rbt LD50:7755 mg/kg IMSUAI 41,31,72

skn-rbt LD50:>5 g/kg FCTOD7 20,725,82

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 fumes. See also ESTERS.

ITB000 CAS: 659-70-1 HR: 2
ISOVALERIC ACID, ISOPENTYL ESTER

mf: $C_{10}H_{20}O_2$ mw: 172.30

PROP: Colorless liquid; apple odor. D: 0.851–0.857, refr index: 1.411, bp: 190.5° , flash p: $162^{\circ}F$. Misc in alc, fixed oils; sltly sol in propylene glycol; insol in water.

SYNS: FEMA No. 2085 ☐ ISOAMYL ISOVALERATE (FCC) ☐ ISOPENTYL ISOVALERATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,789,78

orl-rbt LD50:13,956 mg/kg IMSUAI 41,31,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ITC000 CAS: 556-24-1 HR: 3
ISOVALERIC ACID, METHYL ESTER

DOT: UN 2400

mf: $C_6H_{12}O_2$ mw: 116.18

SYNS: 3-METHYLBUTANOIC ACID, METHYL ESTER ☐ METHYL ISOPENTANOATE ☐ METHYL ISOVALERATE ☐ METHYLISOVALERATE (DOT) ☐ METHYL-3-METHYLBUTANOATE ☐ METHYL-3-METHYLBUTYRATE

TOXICITY DATA with REFERENCE:

ihl-mus LC50:20,250 mg/m³/2H 85GMAT -,84,82

orl-rbt LD50:5693 mg/kg IMSUAI 41,31,72

ihl-uns LC50:18,800 mg/m³ GISAAA 51(5),61,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mildly toxic by ingestion and very slightly toxic by inhalation. Flammable when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

ITD000 CAS: 625-28-5 HR: 3
ISOVALERONITRILE

mf: C_5H_9N mw: 83.15

PROP: Colorless liquid. D: 0.795 @ $15^{\circ}/4^{\circ}$, mp: -100.9° , bp: 130.3° .

SYNS: ISOAMYLNITRILE ☐ 2-METHYLBUTANE SECONDARY MONONITRILE ☐ 2-METHYLBUTYRONITRILE ☐ 3-METHYLBUTYRONITRILE

TOXICITY DATA with REFERENCE:

orl-mus LD50:233 mg/kg NEZAAQ 39,423,84

par-mus LDLo:400 mg/kg CBCCT* 7,690,55

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

SAFETY PROFILE: A poison by ingestion and parenteral routes. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

ITD010 CAS: 83-28-3 HR: 3
2-ISOVALERYLINDAN-1,3-DIONE

mf: $C_{14}H_{14}O_3$ mw: 230.28

SYNS: 1,3-INDANDIONE, 2-ISOVALERYL- ☐ 2-ISOPENTANOYL-1,3-INDANEDIONE ☐ ISOVAL ☐ ISOVALERYL INDANDIONE ☐ 2-ISOVALERYL-1,3-INDANDIONE ☐ 2-ISOVALERYL-1,3-INDANEDIONE ☐ MOTOMCO TRACKING POWDER ☐ VALONE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:100 mg/kg JPETAB 80,160,44

orl-rbt LDLo:150 mg/kg JPETAB 80,160,44

CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.

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

ITD015 CAS: 23710-76-1 HR: D
2-ISOVALERYL-1,3-INDANDIONE CALCIUM SALTmf: C₂₈H₂₄O₆•Ca mw: 496.60**SYNS:** 1,3-INDANDIONE, 2-ISOVALERYL-, ION(1-), CALCIUM
□ ISOTRAC □ ISOVALERYL**CONSENSUS REPORTS:** EPA FIFRA 1988 pesticide subject to registration or re-registration.**SAFETY PROFILE:** A pesticide with unreported toxicity. When heated to decomposition it emits acrid smoke and irritating vapors.**ITD018 CAS: 31078-10-1 HR: 3**
ISOVALTRATEmf: C₂₂H₃₀O₈ mw: 422.48**SYN:** BUTANOIC ACID, 3-METHYL-, 6-(ACETYLOXY)-6,7A-DIHYDRO-4-((3-METHYL-1-OXOBUTOXY)METHYL)SPIRO(CYCLOPENTA(C)PYRAN-7-(1H),2'-OXIRAN)-1-YL ESTER, (1S,2'R,6S,7AS)-**TOXICITY DATA with REFERENCE:**ivn-gpg TDL₀:20 mg/kg TCPHP*,57,2000**SAFETY PROFILE:** A poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.**ITD020 CAS: 4431-47-4 HR: D**
ISOWOGONINmf: C₁₆H₁₂O₅ mw: 284.28**SYNS:** 5,8-DIHYDROXY-7-METHOXYFLAVONE □ 4H-1-BENZOPYRAN-4-ONE, 5,8-DIHYDROXY-7-METHOXY-2-PHENYL- □ FLAVONE, 5,8-DIHYDROXY-7-METHOXY- □ PEDIFLAVONE**TOXICITY DATA with REFERENCE:**

mic-sat 1 nmol/plate ENMUDM 5,474,1983

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**ITD025 CAS: 50916-11-5 HR: 3**
2-ISOXAZOLIDINYL 3,4,5-TRIETHOXYPHENYL KETONEmf: C₁₆H₂₃NO₅ mw: 309.40**SYN:** ISOXAZOLIDINE, 2-(3,4,5-TRIETHOXYBENZOYL)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:600 mg/kg FRPSAX 28,818,73

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.**ITD050 HR: 2**
ITALIAN ARUM**PROP:** Stemless plants with large oval leaves and tuberous roots. A dull purple flower contains a spike which bears brilliant red berries. They are native to Europe and the near East, and are common house plants that grow outdoors in the southern United States.**SYNS:** ADAM AND EVE □ A. ITALICUM □ A. MACULATUM □ A. PALAESTINUM □ ARUM (Various Species) □ BLACK CALLA □ CUCKOOPINT □ LORDS-AND-LADIES □ SOLOMON'S LILY**SAFETY PROFILE:** The whole plant contains toxic calcium oxalate raphides. Chewing any part of the plant

results in burning pain in the lips, mouth and throat, possibly followed by inflammation and blistering. Systemic effects are usually not seen because of the insolubility of calcium oxalate, however, ingestion may cause inflammation of the stomach and intestines. See also OXALATES.

ITD100 CAS: 38357-93-6 HR: 3
ITF 1016mf: C₂₂H₂₅F₃N₄O•ClH mw: 454.97**SYN:** 3-(3-(HEXAHYDRO-1H-AZEPIN-1-YL)PROPOXY)-1-(α,α,α-TRIFLUORO-m-TOLYL)-1H-PYRAZOLO(3,4-b)PYRIDINE MONOHYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:780 mg/kg BCFAAI 111,167,72

ipr-rat LD50:200 mg/kg BCFAAI 111,167,72

orl-mus LD50:750 mg/kg BCFAAI 111,167,72

ipr-mus LD50:380 mg/kg BCFAAI 111,167,72

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of F⁻, NO_x, and HCl.**ITD875 CAS: 70288-86-7 HR: 3**
IVERMECTIN**SYNS:** 22,23-DIHYDROAVERMECTIN B1 □ HYVERMECTIN □ MK 933**TOXICITY DATA with REFERENCE:**

scu-ctl LDLo:8 mg/kg SCIEAS 221,823,83

SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x.**ITE000 HR: 2**
IVORY**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data by implant.**ITF000 CAS: 101809-55-6 HR: 3**
IYLOMYCIN**PROP:** Iylomycin is obtained from *Str. phaeovercicillatus* and belongs to a group of peptide antibiotics (ARZNAD 17,693,67).**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:15 mg/kg ARZNAD 17,693,67

ivn-mus LDLo:4400 µg/kg ARZNAD 17,693,67

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.**ITG000 CAS: 11006-64-7 HR: 3**
IYOMYCIN**PROP:** An anti-tumor antibiotic produced by the strain *Streptomyces phaeovercicillatus* (85ERAY 2,1304,78).**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:180 mg/kg 85ERAY 2,1304,78

ivn-mus LD50:150 mg/kg 85ERAY 2,1304,78

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.**ITH000 CAS: 11030-13-0 HR: 3**

IYOMYCIN B1

PROP: An antitumor antibiotic produced by the strain *Streptomyces phaeoverticillatus* (85ERAY 2,1304,78).

TOXICITY DATA with REFERENCE:

ipr-mus LD50:12,500 µg/kg 85ERAY 2,1304,78

ivn-mus LD50:4400 µg/kg 85ERAY 2,1304,78

ivn-dog LD50:1500 µg/kg 85ERAY 2,1304,78

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