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MAB050 **CAS: 64083-08-5** **HR: 3**
M-4212

mf: $C_{16}H_{15}N_3O_4$ mw: 313.34

SYN: M 4212 (pesticide) (9CI)

TOXICITY DATA with REFERENCE:

mno-sat 300 ng/plate ENMUDM 3,499,81

dni-mus:ast 500 µg/L CCPHDZ 4,61,80

oms-mus:ast 500 µg/L CCPHDZ 4,61,80

ipr-rat LD50:6500 µg/kg CCPHDZ 4,61,80

ipr-mus LD50:10,000 µg/kg CCPHDZ 4,61,80

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

MAB055 **CAS: 54824-20-3** **HR: 3**
M-12210

mf: $C_{18}H_{17}N_3O_4$ mw: 339.38

SYN: 2-(2-(PYRROLIDINYL)ETHYL)-5-NITRO-1H-BENZ(de)-ISOQUINOLINE-1,3(2H)-DIONE

TOXICITY DATA with REFERENCE:

mno-sat 1 µg/plate ENMUDM 3,499,81

dni-mus:ast 3 mg/L CCPHDZ 4,61,80

oms-mus:ast 3 mg/L CCPHDZ 4,61,80

ipr-rat LD50:4500 µg/kg CCPHDZ 4,61,80

ipr-mus LD50:12,600 µg/kg CCPHDZ 4,61,80

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

MAB250 **CAS: 64431-68-1** **HR: 3**
MA144 MI

mf: $C_{42}H_{55}NO_{15}$ mw: 813.98

PROP: A solid. Mp: 149–150°.

SYN: ANTIBIOTIC MA 144MI

TOXICITY DATA with REFERENCE:

dni-mus:leu 470 nmol/L JANTAJ 34,1596,81

oms-mus:leu 43 nmol/L JANTAJ 34,1596,81

ipr-mus LD50:33 mg/kg JANTAJ 31,78-93,78

ivn-mus LD50:30 mg/kg JANTAJ 31,78-93,78

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

MAB300 **HR: 3**
MABUTEROL

mf: $C_{13}H_{18}ClF_3N_2O \cdot ClH$ mw: 347.24

SYNS: dl-4-AMINO- α -(tert-BUTYLAMINO)-3-CHLORO-5-(TRIFLUOROMETHYL)PHENETHYL ALCOHOL HCl □ dl-1-(4-AMINO-3-CHLORO-5-TRIFLUOROMETHYLPHENYL)-2-tert-BUTYLAMINOETHANOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat TDLo:2700 µg/kg (female 17-22D post):REP

ARZNAD 34,1687,84

orl-hmn TDLo:1143 mg/kg:CNS ARZNAD 34,1697,84

orl-hmn TDLo:60 µg/kg/6W:CNS, CVS ARZNAD 34,1699,84

orl-rat LD50:306 mg/kg ARZNAD 34,1680,84

ipr-rat LD50:76,300 µg/kg ARZNAD 34,1680,84

scu-rat LD50:117 mg/kg ARZNAD 34,1680,84

ivn-rat LD50:26,400 µg/kg ARZNAD 34,1680,84

orl-mus LD50:200 mg/kg ARZNAD 34,1680,84

ipr-mus LD50:60 mg/kg ARZNAD 34,1680,84

scu-mus LD50:113 mg/kg ARZNAD 34,1680,84

ivn-mus LD50:41,500 µg/kg ARZNAD 34,1680,84

orl-dog LD50:229 mg/kg ARZNAD 34,1680,84

ivn-dog LD50:27,500 µg/kg ARZNAD 34,1680,84

orl-rbt LD50:243 mg/kg ARZNAD 34,1680,84

ivn-rbt LD50:18,300 µg/kg ARZNAD 34,1680,84

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Human systemic effects by ingestion: tremors, headache and pulse rate increase without fall in blood pressure. Experimental reproductive effects. A bronchodilator. When heated to decomposition it emits toxic fumes of F^- , NO_x , and HCl. See also ALCOHOLS.

MAB400 **CAS: 73341-73-8** **HR: 3**
MACBECIN II

mf: $C_{30}H_{44}N_2O_8 \cdot H_2O$ mw: 578.78

PROP: Prisms or needles from MeOH (aq). Mp: 148° (decomp).

SYNS: C-14919 E-2 □ NSC-330500

TOXICITY DATA with REFERENCE:

dnd-mus:leu 60 µmol/L PAACA3 24,321,83

dni-mus:leu 100 nmol/L PAACA3 24,321,83

oms-mus:leu 10 µmol/L PAACA3 24,321,83

ipr-mus LD50:25 mg/kg JANTAJ 33,205,80

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

MAB500 **CAS: 116355-83-0** **HR: 2**
MACROFUSINE

mf: $C_{34}H_{59}NO_{15}$ mw: 721.94

PROP: Solid. Sol in water: >18.5 mg/ml @ 25.0°

SYNS: FUMONISIN B1 □ 1,2,3-PROPANETRICARBOXYLIC ACID, 1,1'-(1-(12-AMINO-4,9,11-TRIHYDROXY-2-METHYL-TRIDECYL)-2-(1-METHYLPENTYL)-1,2-ETHANEDIYL)ESTER

CONSENSUS REPORTS: IARC Cancer Review:

Animal Limited Evidence IMEMDT 56,445,93.

SAFETY PROFILE: A questionable carcinogen.

MAB750 **CAS: 12634-34-3** **HR: 3**
MACROMOMYCIN

PROP: Powder. Mp: 255–258° (decomp). Polypeptide antitumor antibiotic produced by *Streptomyces macromomyceticus* (JANTAJ 29,415,76).

SYN: MCR

TOXICITY DATA with REFERENCE:

pic-esc 50 ng/plate CNREA8 43,2819,83
 dnd-omi 2500 µg/L MOPMA3 17,388,80
 dnd-omi 16 µmol/L CNREA8 42,1555,82
 dnd-hmn:hla 10 ng/L BBRC A9 83,908,78
 dni-hmn:hla 740 ng/L JANTAJ 31,875,78
 ipr-mus LD50:5100 µg/kg JANTAJ 29,415,76
 ivn-mus LD50:35 mg/kg JANTAJ 32,330,79

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

**MAB800 CAS: 12640-73-2 HR: D
 MADDER (DYE)**

PROP: Orange to red to plumb color. Derived from plants.

SYNS: MADDER COLOR □ SEIYO AKANE □ TURKEY RED

TOXICITY DATA with REFERENCE:

dnr-bcs 30 µL/disc TOFOD5 8,91,85

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

**MAC000 CAS: 13009-99-9 HR: 2
 MAFENIDE ACETATE**

mf: C₇H₁₀N₂O₂S•C₂H₄O₂ mw: 246.31

PROP: A solid. Mp: 169–172°.

SYNS: α-AMINO-p-TOLUENESULFONAMIDE, MONOACETATE □ MAFATATE □ MAPHENIDE ACETATE □ SULFAMYLOX ACETATE

TOXICITY DATA with REFERENCE:

scu-rat TDLo:7 g/kg (8-14D preg):TER NICHAS 32,973,73

orl-rat LD50:9212 mg/kg GTPZAB 31(8),50,87
 ipr-rat LD50:1560 mg/kg IYKEDH 10,884,79
 ivn-rat LD50:1730 mg/kg IYKEDH 10,884,79
 orl-mus LD50:10,183 mg/kg GTPZAB 31(8),50,87
 ipr-mus LD50:2322 mg/kg GTPZAB 31(8),50,87
 ivn-mus LD50:1580 mg/kg LIFSAK 5,2279,66

SAFETY PROFILE: Moderately toxic by intravenous and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. Used as an antibacterial agent. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

**MAC250 CAS: 632-99-5 HR: 2
 MAGENTA**

mf: C₂₀H₁₉N₃•ClH mw: 337.88

PROP: Green powder or metallic greenish crystals with a bronze luster, faint odor. D: 1.22, mp: 250° (decomp). Sol in water, alc, and HCl; insol in ether.

SYNS: AIZEN MAGENTA □ 4-((4-AMINOPHENYL)(4-IMINO-2,5-CYCLOHEXADIEN-1-YLIDENE)METHYL)-2-METHYLB ENZENAMINE HCl □ ASTRA FUCHSINE B □ BASIC FUCHSIN □ BASIC FUCHSINE □ BASIC MAGENTA □ BASIC MAGENTA E-200 □ BASIC VIOLET 14 □ CALCOZINE FUCHSINE HO □ CALCOZINE MAGENTA RTN □ CALCOZINE MAGENTA XX □ CERISE B □ C.I. 42510 □ C.I. BASIC VIOLET 14 □ C.I. BASIC VIOLET 14, MONOHYDROCHLORIDE (8CI) □ C-WR VIOLET 8 □ DIABASIC MAGENTA □ DIAMOND FUCHSINE □ FUCHSIN

□ FUCHSINE □ FUCHSINE A □ FUCHSINE CS □ FUCHSINE G □ FUCHSINE HO □ FUCHSINE N □ FUCHSINE RTN □ FUCHSINE SBP □ FUCHSINE Y □ MAGENTA DP □ MAGENTA E □ MAGENTA G □ MAGENTA I □ MAGENTA PN □ MAGENTA POWDER N □ MAGENTA S □ MAGENTA SUPER FINE □ ORIENT BASIC MAGENTA □ 12418 RED □ ROSANIL-INE □ ROSANILINE CHLORIDE □ ROSANILINE HYDRO-CHLORIDE □ ROSANILINIUM CHLORIDE □ VIOLET ZASADITA 14

TOXICITY DATA with REFERENCE:

mma-sat 32 µg/plate MUREAV 89,21,81

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,238,87; Animal Inadequate Evidence IMEMDT 4,57,74; Human Inadequate Evidence IMEMDT 4,57,74. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

**MAC500 CAS: 3248-93-9 HR: 1
 MAGENTA BASE**

mf: C₂₀H₁₉N₃ mw: 301.42

PROP: Brown-red crystals.

SYNS: 4-((4-AMINOPHENYL)(4-IMINO-2,5-CYCLOHEXADIEN-1-YLIDENE)METHYL)-2-METHYLB ENZENAMINE □ BENZEN-AMINE, 4-((4-AMINOPHENYL)(4-IMINO-2,5-CYCLOHEXADIEN-1-YLIDENE)METHYL)-2-METHYL- □ C.I. BASIC VIOLET 14, FREE BASE □ C.I. SOLVENT RED 41 □ FUCHSIN (basic) □ FUCHSINE BASE □ FUCHSINE HF BASE □ p-ROSANILINE □ ROSANILINE BASE □ o-TOLUIDINE, 4-((p-AMINOPHENYL)(4-IMINO-2,5-CYCLOHEXADIEN-1-YLIDENE)METHYL)- □ WAXOLINE RED A

TOXICITY DATA with REFERENCE:

skn-hmn 3 mg/3D-I MLD 85DKA8 -,127,77
 mmo-esc 5 g/L MUREAV 130,97,84
 otr-ham:emb 2 mg/L NCIMAV 58,243,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**MAC600 CAS: 102629-86-7 HR: 2
 MAGNAMYCIN HYDROCHLORIDE**

mf: C₄₂H₆₇NO₁₆•ClH mw: 878.56

SYN: (12R,13S)-9-DEOXY-12,13-EPOXY-12,13-DIHYDRO-9-OXO-3-ACETATE-4B-(3-METHYLBUTANOATE) LEUCOMYCIN V HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ivn-rat LD50:700 mg/kg 85ERAY 1,64,78
 scu-mus LD50:2950 mg/kg 85ERAY 1,64,78
 ivn-mus LD50:550 mg/kg 85ERAY 1,64,78
 ims-mus LD50:900 mg/kg 85ERAY 1,64,78

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

**MAC650 CAS: 546-93-0 HR: 1
 MAGNESITE**

mf: CO₃•Mg mw: 84.32

PROP: Very light-weight, white powder; odorless.

Decomp on heating with CO₂ loss. Readily dissolves in aq acids forming the corresponding salts. D: 3.04, decomp @ 350°. Sol in acids; insol in water, alc, Me₂CO, and NH₃.

SYNS: CARBONATE MAGNESIUM □ CARBONIC ACID, MAGNESIUM SALT □ C.I. 77713 □ DCI LIGHT MAGNESIUM CARBONATE □ HYDROMAGNESITE □ MAGMASTER □ MAGNESIA ALBA □ MAGNESIUM CARBONATE □ MAGNESIUM(II) CARBONATE (1:1) □ MAGNESIUM CARBONATE, PRECIPITATED □ STAN-MAG MAGNESIUM CARBONATE
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA Total Dust: 15 mg/m³; Respirable Fraction: 5 mg/m³

ACGIH TLV: TWA (nuisance particulate) 10 mg/m³ of total dust (when toxic impurities are not present, e.g., quartz <1%)

SAFETY PROFILE: Incompatible with formaldehyde. When heated to decomposition it emits acrid smoke and irritating fumes. See also MAGNESIUM COMPOUNDS.

**MAC750 CAS: 7439-95-4 HR: 3
 MAGNESIUM**

DOT: UN 1418/UN 1869/UN 2950

af: Mg aw: 24.31

PROP: Hexagonal, light, silvery-white crystals. The bulk metal tarnishes in air. Mp: 651°, bp: 1100°, d: 1.74 @ 5°, d: 1.738 @ 20°, vap press: 1 mm @ 621°.

SYNS: MAGNESIO (ITALIAN) □ MAGNESIUM (UN 1869) (DOT) □ MAGNESIUM ALLOYS, powder (UN 1418) (DOT) □ MAGNESIUM ALLOYS with >50% magnesium in pellets, turnings or ribbons (UN 1869) (DOT) □ MAGNESIUM CLIPPINGS □ MAGNESIUM GRANULES, coated particle size not <149 microns (UN 2950) (DOT) □ MAGNESIUM PELLETS □ MAGNESIUM POWDERED □ MAGNESIUM, powder (UN 1418) (DOT) □ MAGNESIUM RIBBONS □ MAGNESIUM TURNINGS (DOT) □ RMC

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 4.3; Label: Dangerous When Wet (UN 2950); DOT Class: 4.1; Label: Flammable Solid (UN 1869); DOT Class: 4.3; Label: Danger When Wet, Spontaneously Combustible

SAFETY PROFILE: Inhalation of dust and fumes can cause metal fume fever. The powdered metal ignites readily on the skin causing burns. Particles embedded in the skin can produce gaseous blebs that heal slowly.

A dangerous fire hazard in the form of dust or flakes when exposed to flame or oxidizing agents. In solid form, magnesium is difficult to ignite because heat is conducted rapidly away from the source of ignition; it must be heated above its melting point before it will burn. However, in finely divided form, it may be ignited by a spark or the flame of a match. Magnesium fires do not flare up violently unless there is moisture present. Therefore, it must be kept away from water, moisture, etc. It may ignite spontaneously when the material is finely divided and damp, particularly with water-oil emulsion. Moderately explosive in the form of dust when exposed to flame. Also, magnesium reacts with moisture, acids, etc., to evolve hydrogen, a highly dangerous fire and explosion hazard.

Explosive reaction or ignition with calcium carbonate + hydrogen + heat, gold cyanide + heat, mercury cyanide + heat, silver oxide + heat, fused nitrates, phosphates, or sulfates (e.g., ammonium nitrate, metal nitrates), chloroformamidinium nitrate + water (when ignited with powder). The powder may explode on contact with halocarbons (e.g., chloromethane, chloroform, or carbon tetrachloride), and explodes when sparked in dichlorodifluoromethane. Hypergolic reaction with nitric acid + 2-nitroaniline. Mixtures of powdered magnesium and methanol are more powerful than some military explosives. Mixtures of magnesium powder + water can be detonated. Reacts with acetylenic compounds including traces of acetylene found in ethylene gas to form explosive magnesium acetylide.

Violent reactions with ammonium salts, chlorate salts, beryllium fluoride, boron diiodophosphide, carbon tetrachloride + methanol, 1,1,1-trichloroethane, 1,2-dibromoethane, halogens or interhalogens (e.g., fluorine, chlorine, bromine, iodine vapor, chlorine trifluoride, iodine heptafluoride), hydrogen iodide, metal oxides + heat (e.g., beryllium oxide, cadmium oxide, copper oxide, mercury oxide, molybdenum oxide, tin oxide, zinc oxide), nitrogen (when ignited), silicon dioxide powder + heat, polytetrafluoroethylene powder + heat, sulfur + heat, tellurium + heat, barium peroxide, nitric acid vapor, hydrogen peroxide, ammonium nitrate, sodium iodate + heat, sodium nitrate + heat, dinitrogen tetroxide (when ignited), lead dioxide. Ignites in carbon dioxide at 780°C, molten barium carbonate + water, fluorocarbon polymers + heat, carbon tetrachloride or trichloroethylene (on impact), dichlorodifluoromethane + heat.

Incompatible with ethylene oxide, metal oxosalts, oxidants, potassium carbonate, Al + KClO₄, [Ba(NO₃)₂ + BaO₂ + Zn], bromobenzyl trifluoride, CaC, carbonates, CHCl₃, [CuSO₄ (anhydrous) + NH₄NO₃ + KClO₃ + H₂O], CuSO₄, (H₂ + CaCO₃), CH₃Cl, NO₂, liquid oxygen, metal cyanides (e.g., cadmium cyanide, cobalt cyanide, copper cyanide, lead cyanide, nickel cyanide, zinc cyanide), performic acid, phosphates, KClO₃, KClO₄, AgNO₃, NaClO₄, (Na₂O₂ + CO₂), sulfates, trichloroethylene, Na₂O₂.

To fight fire, operators and firefighters can approach a magnesium fire to within a few feet if no moisture is present. Water and ordinary extinguishers, such as CO₂, carbon tetrachloride, etc., should not be used on magnesium fires. G-1 powder or powdered talc should be used on open fires. Dangerous when heated; burns violently in air and emits fumes; will react with water or steam to produce hydrogen. See also MAGNESIUM COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Elements (ICP), 7300.

**MAD000 CAS: 142-72-3 HR: 3
 MAGNESIUM ACETATE**

mf: C₄H₆O₄•Mg mw: 142.41

PROP: Tetrahydrate, colorless or white powder, deliquescent crystals. D: 1.45, mp: 357°. Very sol in water and alc. Sol in MeOH.

SYNS: ACETIC ACID, MAGNESIUM SALT □ CROMOSAN □ MAGNESIUM DIACETATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:111 mg/kg JLCMAK 29,809,44

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 4.2; Label: Spontaneously Combustible

SAFETY PROFILE: Poison by intravenous route. Spontaneously combustible. Take special storage precautions. When heated to decomposition it emits acrid smoke and irritating fumes.

MAD025 CAS: 14644-70-3 HR: 3
MAGNESIUM AMMONIUM ARSENATE DIHYDRATE

mf: $\text{AsO}_4 \cdot \text{H}_3\text{N} \cdot \text{Mg} \cdot 2\text{H}_2\text{O}$ mw: 216.31

SYNS: AMMONIUM MAGNESIUM ARSENATE □ AMMONIUM MAGNESIUM ARSENATE DIHYDRATE □ ARSENIC ACID, AMMONIUM MAGNESIUM SALT, HYDRATE (1:1:1:2) □ ARSENIC ACID (H₃-AS-O₄), AMMONIUM MAGNESIUM SALT, (1:1:1) □ MAGNESIUM AMMONIUM ARSENATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:386 mg/kg GTPZAB 28(7),53,1984
 skn-rat LD50:2032 mg/kg GTPZAB 28(7),53,1984
 orl-mus LD50:78,600 µg/kg GTPZAB 28(7),53,1984
 ipr-mus LD50:142 mg/kg GTPZAB 28(7),53,1984

SAFETY PROFILE: A poison by ingestion, skin contact, and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NH_4^+ , Mn, and As.

MAD050 HR: 3
MAGNESIUM AUREOLATE

mf: $\text{C}_{116}\text{H}_{200}\text{O}_{58} \cdot \text{Mg}$ mw: 2546.98

SYNS: MAGNESIUM SALT of AUREOLIC ACID □ MITHRAMYCIN, MAGNESIUM SALT

TOXICITY DATA with REFERENCE:

ivn-mus LD50:2500 µg/kg ANTCAO 3,1218,53
 ivn-dog LDLo:250 µg/kg ANTCAO 3,1218,53
 ivn-rbt LDLo:250 µg/kg ANTCAO 3,1218,53

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

MAD100 CAS: 36711-31-6 HR: 3
MAGNESIUM BIS(2,3-DIBROMOPROPYL)-PHOSPHATE

mf: $\text{C}_6\text{H}_{10}\text{O}_4\text{P} \cdot \text{Mg}$ mw: 201.44

SYNS: BIS(2,3-DIBROMOPROPYL)PHOSPHATE, MAGNESIUM SALT □ DB 1 □ MAGNESIUMBIS(2,3-DIBROMOPROPYL)-PHOSPHATE □ 1-PROPANOL, 2,3-DIBROMO-, HYDROGEN PHOSPHATE, MAGNESIUM SALT

TOXICITY DATA with REFERENCE:

mno-sat 3 µmol/plate MUREAV 66,373,79
 orl-rat LD50:262 mg/kg SCIEAS 36(1-4),10,89

SAFETY PROFILE: A poison by ingestion. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of PO_x . See also PHOSPHATES.

MAD250 CAS: 12007-25-9 HR: 3
MAGNESIUM BORIDE

mf: B_2Mg_3 mw: 94.56

PROP: Mp: 800°.

SAFETY PROFILE: Poison. Reacts with water or acids to form a spontaneous flammable borane gas. See also BORANES and MAGNESIUM COMPOUNDS.

MAE000 CAS: 10326-21-3 HR: 3
MAGNESIUM CHLORATE

DOT: UN 2723

mf: $\text{Cl}_2\text{O}_6 \cdot \text{Mg}$ mw: 191.21

PROP: White, extremely hygroscopic, deliquescent crystals or powder; bitter taste. Mp: 35°, bp: decomp @ 120°, d: 1.80 @ 25°. Sltly sol in alc and water.

SYNS: CHLORATE SALT of MAGNESIUM □ DE-FOL-ATE □ E-Z-OFF □ KRMD 58 □ MAGNESIUM DICHLORATE □ MAGRON □ MC DEFOLIANT □ ORTHO MC

TOXICITY DATA with REFERENCE:

orl-rat LD50:6348 mg/kg GISAAA 48(4),68,83
 ipr-rat LDLo:1100 mg/kg JPETAB 35,1,29
 orl-mus LD50:5235 mg/kg GISAAA 48(4),68,83
 orl-rbt LD50:8660 mg/kg GISAAA 48(4),68,83
 itr-mus LDLo:500 mg/kg MZUZA8 (9),26,59
 orl-gpg LDLo:1500 mg/kg MZUZA8 (9),26,59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 5.1; Label: Oxidizer

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Probably an eye, skin, and mucous membrane irritant. Experimental reproductive effects. A defoliant. A powerful oxidizer. Explosive reaction with copper(I) sulfide. Incandescent reaction with antimony(III) sulfide, arsenic(III) sulfide, tin(II) sulfide, tin(IV) sulfide. Incompatible with Al, As, C, charcoal, Cu, MnO_2 , metal sulfides, dibasic organic acids, organic matter, P, S. When heated to decomposition it emits toxic fumes of Cl^- . See also MAGNESIUM COMPOUNDS and CHLORATES.

MAE250 CAS: 7786-30-3 HR: 3
MAGNESIUM CHLORIDE

mf: Cl_2Mg mw: 95.21

PROP: Thin, white to opaque, gray granules and/or flakes, deliquescent; hygroscopic white rhombohedral crystals. Mp: 714° (712° with rapid heating), bp: 1412°, d: 2.325. Very sol in water (evolving much heat) and alc; sol in EtOH.

SYN: DUS-TOP

TOXICITY DATA with REFERENCE:

mno-omi 8000 ppm APMBAY 6,45,58
 cyt-hmn:hla 2 mmol/L JCLLAX 78,217,71
 dns-rat-ipr 2500 µmol/kg JOENAK 65,45,75
 dni-rat:ivr 3300 µmol/L BIJOAK 146,697,75
 oms-mus:ast 4 mmol/L AMOKAG 33,141,79
 orl-rat LD50:2800 mg/kg JPETAB 35,1,29
 ipr-rat LDLo:225 mg/kg JPETAB 35,1,29
 scu-rat LDLo:900 mg/kg ENDOAO 24,523,39
 ipr-mus LD50:1338 mg/kg COREAF 256,1043,63
 ivn-mus LD50:14 mg/kg TXAPA9 22,150,72
 ivn-dog LDLo:229 mg/kg JPETAB 1,1,09

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

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. Human mutation data reported. In

humid environments it causes steel to rust very rapidly. When heated to decomposition it emits toxic fumes of Cl^- . See also MAGNESIUM.

**MAE500 CAS: 7791-18-6 HR: 3
MAGNESIUM CHLORIDE HEXAHYDRATE**

mf: $\text{Cl}_2\text{Mg} \cdot 6\text{H}_2\text{O}$ mw: 203.33

PROP: Deliquescent, colorless, monoclinic crystals. Decomp on heating lower hydrates and accompanying hydrol. D: 1.59, mp: when rapidly heated approx 118° with decomp. Very sol in H_2O ; sol in EtOH. Keep well closed.

SYNS: CHLORURE de MAGNESIUM HYDRATE (FRENCH) \square CMH

TOXICITY DATA with REFERENCE:

cyt-ham:lng 12 g/L MUREAV 163,63,86

orl-rat LD50:8100 mg/kg AIHAAP 30,470,69

ivn-rat LDLo:176 mg/kg JLCMAK 15,35,29

orl-mus LD50:7600 mg/kg THERAP 31,471,76

ipr-mus LD50:775 mg/kg THERAP 31,471,76

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Used in disinfectants and fire extinguishers. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- . See also MAGNESIUM.

**MAE750 HR: D
MAGNESIUM COMPOUNDS**

SAFETY PROFILE: Variable toxicity. The inhalation of fumes of freshly sublimed magnesium oxide may cause metal fume fever. There is no evidence that magnesium produces true systemic poisoning. Particles of metallic magnesium or magnesium alloy that perforate the skin or gain entry through cuts and scratches may produce a severe local lesion characterized by the evolution of gas and acute inflammatory reaction, frequently with necrosis. The condition has been called a "chemical gas gangrene." Gaseous blebs may develop within 24 hours of the injury. The inflammatory response is marked at the site of injury and there may be signs of lymphangitis. The lesion is very slow to heal. The most serious hazard presented by magnesium is the danger from burns. Protection necessary for personnel handling and processing magnesium is usually no different from that necessary for other metals. The toxicity of magnesium compounds is usually that of the anion. When heated to decomposition it emits toxic fumes of MgO . See also MAGNESIUM and specific compounds.

**MAF000 CAS: 69011-63-8 HR: 3
MAGNESIUM DROSS (HOT)**

SYN: MAGNESIUM DROSS, wet or hot (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: See MAGNESIUM COMPOUNDS.

**MAF500 CAS: 7783-40-6 HR: 2
MAGNESIUM FLUORIDE**

mf: F_2Mg mw: 62.31

PROP: Luminous substance; faint violet, luminous tetragonal crystals. Dissolves in HNO_3 soln. Mp: 1263° , bp: 2239° , d: 2.9–3.2. Practically insol in water; sltly sol in dil acids.

SYNS: AFLUON \square ITRAN 1 \square MAGNESIUM FLUORURE (FRENCH) \square SELLAITE

TOXICITY DATA with REFERENCE:

orl-gpg LDLo:1 g/kg MEIEDD 11,892,89

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2.5 mg(F)/ m^3

ACGIH TLV: TWA 2.5 mg(F)/ m^3 ; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.

NIOSH REL: TWA 2.5 mg(F)/ m^3

SAFETY PROFILE: Moderately toxic by ingestion.

When heated to decomposition it emits toxic fumes of F^- . See also MAGNESIUM and FLUORIDES.

**MAF600 CAS: 16949-65-8 HR: 2
MAGNESIUM FLUOSILICATE**

DOT: UN 2853

mf: $\text{F}_6\text{Si} \cdot \text{Mg}$ mw: 166.40

PROP: Crystalline white, lightly odored granules. D: 1.788 @ 20° , Mp: 100° . Sol in water.

SYNS: HEXAFLUOROSILICATE(2-) MAGNESIUM (1:1) \square MAGNESIUM FLUOROSILICATE (DOT) \square SILICATE(2-), HEXAFLUORO-, MAGNESIUM (1:1)

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion.

When heated to decomposition it emits toxic vapors of magnesium and F^- .

**MAF750 CAS: 7704-71-4 HR: 2
MAGNESIUM FUMARATE**

mf: $\text{C}_4\text{H}_3\text{O}_4 \cdot \text{Mg}$ mw: 139.38

SYN: FUMARIC ACID, MAGNESIUM SALT

TOXICITY DATA with REFERENCE:

orl-mus LDLo:1394 mg/kg JAPMA8 31,12,42

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion.

When heated to decomposition it emits acrid smoke and irritating fumes. See also MAGNESIUM COMPOUNDS.

**MAG000 CAS: 3632-91-5 HR: 3
MAGNESIUM GLUCONATE**

mf: $\text{C}_{12}\text{H}_{24}\text{O}_{14} \cdot \text{Mg}$ mw: 416.67

PROP: Odorless white to off white powder.

SYNS: ALMORA \square GYN \square MENESIA

TOXICITY DATA with REFERENCE:

ivn-mus LD50:321 mg/kg RPOBAR 2,299,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route.

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

**MAG050 CAS: 53459-38-4 HR: 3
MAGNESIUM GLUTAMATE HYDROBROMIDE**mf: $C_5H_7NO_4 \cdot BrH \cdot Mg$ mw: 250.36**SYNS:** L-GLUTAMIC ACID, MAGNESIUM SALT (1:1), HYDROBROMIDE □ PSYCHO-SOMA**TOXICITY DATA with REFERENCE:**

orl-rat LD50:10,795 mg/kg TOIZAG 15,60,68

scu-rat LD50:2829 mg/kg TOIZAG 15,60,68

ivn-rat LD50:325 mg/kg TOIZAG 15,60,68

orl-mus LD50:6864 mg/kg TOIZAG 15,60,68

scu-mus LD50:1565 mg/kg TOIZAG 15,60,68

ivn-mus LD50:279 mg/kg TOIZAG 15,60,68

SAFETY PROFILE: Poison by intravenous route.Moderately toxic by subcutaneous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x , Mg, and Br.**MAG100 HR: D
MAGNESIUM GLYCEROPHOSPHATE****SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**MAG250 CAS: 18972-56-0 HR: 3
MAGNESIUM HEXAFLUOROSILICATE**mf: $F_6Si \cdot Mg \cdot 6H_2O$ mw: 274.52**PROP:** White, efflorescent, trigonal, crystalline powder. Decomp on heating with simultaneous loss of H_2O and SiF_4 . Very sol in H_2O ; insol in EtOH.**SYNS:** EULAVA SM □ FLUOSILICATE de MAGNESIUM (FRENCH) □ MAGNESIUM FLUOSILICATE □ MAGNESIUM SILICOFLUORIDE**TOXICITY DATA with REFERENCE:**

orl-gpg LD50:200 mg/kg 28ZEAL 4,265,69

scu-frg LDLo:420 mg/kg CRSBAW 124,133,37

OSHA PEL: TWA 2.5 mg(F)/ m^3 **ACGIH TLV:** TWA 2.5 mg(F)/ m^3 ; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.**NIOSH REL:** TWA 2.5 mg(F)/ m^3 **SAFETY PROFILE:** Poison by ingestion. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of F. See also FLUORIDES and MAGNESIUM COMPOUNDS.**MAG500 CAS: 60616-74-2 HR: 3
MAGNESIUM HYDRIDE**mf: H_2Mg mw: 26.33**PROP:** White crystals. D: 1.419, mp: decomp at $>200^\circ$. Sol in isopropylamine.**SAFETY PROFILE:** The powder may ignite spontaneously in air and react violently with water. Incompatible with oxygen and water. See also MAGNESIUM COMPOUNDS and HYDRIDES.**MAG550 HR: D
MAGNESIUM HYDROGEN PHOSPHATE****SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**MAG750 CAS: 1309-42-8 HR: 2
MAGNESIUM HYDROXIDE**mf: H_2MgO_2 mw: 58.33**PROP:** Amorphous, white powder, odorless or colorless hexagonal crystals. Readily dissolves in aq acids forming corresponding salts. Decomp on heating at 3° releasing $MgO + H_2O$. D: 2.36, mp: decomp @ 350° . Sol in solns of ammonium salts and dilute acids; almost insol in water and alc.**SYNS:** BASCHEM 12 □ HYDRO-MAG MA □ MAGNESIA MAGMA □ MAGNESIUM HYDRATE □ MAGOX □ MARINCO H □ MILK OF MAGNESIA □ MINT-O-MAG □ NEMALITE**TOXICITY DATA with REFERENCE:**

orl-inf TDLo:2747 mg/kg;BAH JTCTDW 29,215,91

orl-rat LD50:8500 mg/kg DRUGAY -,1131,90

ipr-rat LD50:2780 mg/kg DRUGAY -,1131,90

orl-mus LD50:8500 mg/kg DRUGAY -,1131,90

ipr-mus LD50:815 mg/kg DRUGAY -,1131,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Human systemic effects: chlorine level changes, coma, somnolence. Incompatible with maleic anhydride, phosphorus. See also MAGNESIUM COMPOUNDS.**MAH000 CAS: 10377-60-3 HR: 3
MAGNESIUM(II) NITRATE (1:2)****DOT:** UN 1474mf: $N_2O_6 \cdot Mg$ mw: 148.33**PROP:** Hygroscopic colorless cubic crystals. Decomp on heating forming MgO and nitrogen oxides. The dihydrate, $[Mg(NO_3)_2 \cdot 2H_2O]$: mw: 184.37, forms white crystals (prisms). D: 2.0256 @ 25° , mp: 129.0° . The hexahydrate, $[Mg(NO_3)_2 \cdot 6H_2O]$ mw: 256.43, forms monoclinic, colorless, deliq crystals. D: 1.464, mp: 95° , bp: $-5H_2O$ @ 330° .**SYNS:** MAGNESIUM NITRATE (DOT) □ NITRIC ACID, MAGNESIUM SALT (2:1)**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 5.1; Label: Oxidizer**SAFETY PROFILE:** Probably a severe irritant to the eyes, skin, and mucous membranes. A powerful oxidizer. Violent decomposition on contact with dimethylformamide. When heated to decomposition it emits toxic fumes of NO_x . See also NITRATES and MAGNESIUM COMPOUNDS.**MAH250 CAS: 10213-15-7 HR: 1
MAGNESIUM(II) NITRATE (1:2), HEXAHYDRATE**mf: $N_2O_6 \cdot Mg \cdot 6H_2O$ mw: 256.45**PROP:** Colorless, clear, deliq crystals. D: 1.464, mp: approx 95° , very sol in alc. Keep well closed.**SYN:** DUSICNAN HORECHATY (CZECH)**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD 28ZPAK -,9,72

eye-rbt 500 mg/24H MLD 28ZPAK -,9,72

orl-rat LD50:5440 mg/kg 28ZPAK -,9,72

SAFETY PROFILE: Mildly toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits

toxic fumes of NO_x. See also MAGNESIUM and NITRATES.

MAH500 CAS: 1309-48-4 HR: 2
MAGNESIUM OXIDE

mf: MgO mw: 40.31

PROP: White, bulky, very fine, odorless powder; or colorless cubic crystals, moisture sensitive. Mp: 2832°, bp: 3600°, d: 3.65–3.75. Very sltly sol in water; sol in dil acids; insol in alc. IDLH 750 mg/m³.

SYNS: AKRO-MAG □ ANIMAG □ CALCINED BRUCITE □ CALCINED MAGNESIA □ CALCINED MAGNESITE □ GRANMAG □ MAGCAL □ MAGCHEM 100 □ MAGLITE □ MAGNESIA □ MAGNESIA USTA □ MAGNESIUM OXIDE FUME (ACGIH) □ MAGNEZU TLENEK (POLISH) □ MAGOX □ MAGOX 85 □ MAGOX 90 □ MAGOX 95 □ MAGOX 98 □ MAGOX OP □ MARMAG □ OXYMAG □ PERICLASE □ SEAWATER MAGNESIA

TOXICITY DATA with REFERENCE:

itr-ham TDLo:480 mg/kg/30W-I:ETA CNREA8 33,2209,73

ihl-hmn TCLo:400 mg/m³ DTLVS* 3,147,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: Fume: Total Dust: TWA 10 mg/m³; Respirable Fraction: 5 mg/m³

ACGIH TLV: TWA 10 mg/m³ (fume); Not Classifiable as a Human Carcinogen

DFG MAK: 1.5 mg/m³ (fume)

SAFETY PROFILE: Inhalation of the fumes can produce a febrile reaction and leucocytosis in humans. Questionable carcinogen with experimental tumorigenic data. Violent reaction or ignition in contact with interhalogens (e.g., bromine pentafluoride, chlorine trifluoride). Incandescent reaction with phosphorus pentachloride. See also MAGNESIUM COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-125g.

MAH750 CAS: 14452-57-4 HR: 3
MAGNESIUM PEROXIDE

DOT: UN 1476

mf: MgO₂ mw: 56.31

PROP: White powder; tasteless and odorless. Insol in water and slowly decomp evolving O₂; sol in dil acids. Keep container closed.

SYNS: IXPOR 25M □ MAGNESIUM PEROXIDE, solid (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 5.1; Label: Oxidizer

SAFETY PROFILE: A powerful oxidizer. Probably a severe irritant to the eyes, skin, and mucous membranes. Flammable by chemical reaction with acidic materials and moisture; an oxidizing agent. Dangerous; reacts vigorously with reducing agents; will decompose violently in or near a fire. See also MAGNESIUM COMPOUNDS and PEROXIDES, INORGANIC.

MAH775 CAS: 7782-75-4 HR: 1
MAGNESIUM PHOSPHATE, DIBASIC

mf: MgPHO₄•3H₂O mw: 174.33

PROP: White crystalline powder or diamond shaped rhombs. Sltly sol in water; insol in alc; sol in dil acid.

SYN: DIMAGNESIUM PHOSPHATE

SAFETY PROFILE: A nuisance dust.

MAH780 HR: 1
MAGNESIUM PHOSPHATE, TRIBASIC

mf: Mg₃(PO₄)₂•xH₂O mw: 262.86

PROP: White crystalline powder; odorless. Sol in dil mineral acids; insol in water.

SYN: TRIMAGNESIUM PHOSPHATE

SAFETY PROFILE: A nuisance dust.

MAI000 CAS: 12057-74-8 HR: 3
MAGNESIUM PHOSPHIDE

DOT: UN 2011

mf: Mg₃P₂ mw: 134.87

PROP: Moisture sensitive bright yellow cubic crystals.

SYNS: FOSFURI di MAGNESIO (ITALIAN) □

MAGNESIUMFOSFIDE (DUTCH) □ PHOSPHURE de MAGNESIUM (FRENCH)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 4.3; Label: Dangerous When Wet, Poison

SAFETY PROFILE: A poison. Flammable when exposed to heat, flame, or oxidizing materials. Ignites when heated in chlorine, bromine, or iodine vapors. Incandescent reaction with nitric acid. Reacts with water to evolve flammable phosphine gas. When heated to decomposition it emits toxic fumes of PO_x and phosphine. See also MAGNESIUM and PHOSPHIDES.

MAI250 CAS: 1661-03-6 HR: 2
MAGNESIUM PHTHALOCYANINE

mf: C₃₂H₁₆MgN₈ mw: 536.87

SYN: (PHTHALOCYANINATO(2-))MAGNESIUM

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.

MAI500 HR: 3
MAGNESIUM POLYOXYETHYLENE ALKYL ETHER SULFATE

SYNS: AES-MG □ AES-2Mg

TOXICITY DATA with REFERENCE:

orl-rat LD50:4220 mg/kg TOIZAG 25,876,78

scu-rat LD50:2400 mg/kg TOIZAG 25,876,78

ivn-rat LD50:189 mg/kg TOIZAG 25,876,78

orl-mus LD50:3900 mg/kg TOIZAG 25,876,78

scu-mus LD50:2050 mg/kg TOIZAG 25,876,78

ivn-mus LD50:209 mg/kg TOIZAG 25,876,78

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of SO_x. See also ETHERS, MAGNESIUM COMPOUNDS, and SULFATES.

MAI600 CAS: 14842-81-0 HR: 2

MAGNESIUM POTASSIUM ASPARTATEmf: $C_8H_{10}MgN_2O_8 \cdot C_4H_7NO_4 \cdot 2H \cdot K$ mw: 460.75**SYNS:** ASPARA □ ASPARTAT □ MAGNESIUM POTASSIUM-
ASPARTATE □ SPARTASE □ TROPHICARD**TOXICITY DATA with REFERENCE:**

scu-rat LD50:6902 mg/kg NIIRDN 6,11,82

ivn-rat LD50:619 mg/kg NIIRDN 6,11,82

scu-mus LD50:4226 mg/kg NIIRDN 6,11,82

ivn-mus LD50:817 mg/kg NIIRDN 6,11,82

SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and K_2O .**MAI650 CAS: 13826-56-7 HR: 2****MAGNESIUM POTASSIUM SULFATE**mf: $O_{12}S_3 \cdot 2K \cdot 2Mg$ mw: 415.00**SYNS:** DIPOTASSIUM DIMAGNESIUM TRISULFATE □
KALIMAGNESIA □ SULFURIC ACID, MAGNESIUM POTASSIUM
SALT (3:2:2) □ SUL-PO-MAG**TOXICITY DATA with REFERENCE:**

orl-mus LD50:6400 mg/kg VCVN1*,48,1998

orl-rat LD50:6400 mg/kg VCVN1*,48,1998

orl-gpg LD50:6400 mg/kg VCVN1*,48,1998

ipr-mus LD50:1100 mg/kg VCVN1*,48,1998

ipr-rat LD50:1100 mg/kg VCVN1*,48,1998

ipr-gpg LD50:1100 mg/kg VCVN1*,48,1998

orl-mus LDLo:3000 mg/kg VCVN1*,48,1998

orl-rat LDLo:3000 mg/kg VCVN1*,48,1998

orl-gpg LDLo:3000 mg/kg VCVN1*,48,1998

ipr-mus LDLo:3000 mg/kg VCVN1*,48,1998

ipr-rat LDLo:3000 mg/kg VCVN1*,48,1998

ipr-gpg LDLo:3000 mg/kg VCVN1*,48,1998

ihl-unr TCLo: 60 mg/m³ VCVN1*,48,1998**SAFETY PROFILE:** Moderately toxic by inhalation and intraperitoneal routes. Low toxicity by ingestion.**MAI700 CAS: 6150-94-3 HR: 2**
MAGNESIUM SALICYLATE TETRAHYDRATEmf: $C_{14}H_{12}O_6 \cdot Mg \cdot 4H_2O$ mw: 372.65**SYN:** SALICYLIC ACID, MAGNESIUM SALT (2:1),
TETRAHYDRATE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1319 mg/kg YHTPAD 22,375,87

ipr-mus LD50:639 mg/kg YHTPAD 22,375,87

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of Mg.**MAJ000 CAS: 1343-90-4 HR: 1**
MAGNESIUM SILICATE HYDRATEmf: $Mg_2O_8Si_3 \cdot H_2O$ mw: 278.91**PROP:** Fine white powder; odorless and tasteless. Insol in water and alc.**TOXICITY DATA with REFERENCE:**

skn-hmn 300 µg/3D-I ML D 85DKA8 -,127,77

SAFETY PROFILE: A human skin irritant. See also MAGNESIUM and SILICATES.**MAJ030 CAS: 557-04-0 HR: 1**
MAGNESIUM STEARATEmf: $C_{36}H_{70}O_4 \cdot Mg$ mw: 591.37**SYNS:** MAGNESIUM STEARATE □ MAGNESIUM STEARATE
(ACGIH) □ OCTADECANOIC ACID, MAGNESIUM SALT**TOXICITY DATA with REFERENCE:****PROP:** Fine white bulky powder; faint, characteristic odor. Insol in water, alc, ether.**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**ACGIH TLV:** TWA 10 mg/m³**DOT CLASSIFICATION:** 4.2; Label: Spontaneously Combustible**SAFETY PROFILE:** Slightly toxic by ingestion. Spontaneously combustible. When heated to decomposition it emits acrid smoke and toxic fumes.**MAJ250 CAS: 7487-88-9 HR: 3**
MAGNESIUM SULFATE (1:1)mf: $O_4S \cdot Mg$ mw: 120.37**PROP:** Opaque, hygroscopic, colorless, orthorhombic needles or granular crystalline powder; odorless with cooling, bitter, salt taste. Mp: 1127°. Very sol in H_2O ; sol in EtOH, Et₂O; insol in Me₂CO.**SYNS:** EPSOM SALTS □ MAGNESIUM SULPHATE**TOXICITY DATA with REFERENCE:**

mrc-esc 5 pph JGMIAN 8,45,53

pic-esc 800 µmol/L ENMUDM 6,59,84

ivn-wmn LDLo:80 mg/kg/2M-I:CVS,PUL SAMJAF
67,145,85

isp-wmn TDLo:20 mg/kg:PNS SAMJAF 68,367,85

scu-rat LD50:1200 mg/kg NRSCDN 117,207,90

orl-mus LDLo:5000 mg/kg HBAMAK 4,1364,35

scu-mus LD50:645 mg/kg CYLPDN 7,178,86

ivn-mus LDLo:48 mg/kg TXAPA9 4,492,62

ipr-dog LDLo:1200 mg/kg HBAMAK 4,1364,35

scu-dog LDLo:1500 mg/kg HBAMAK 4,1364,35

scu-cat LDLo:1000 mg/kg AJPHAP 14,366,1905

orl-rbt LDLo:3000 mg/kg HBAMAK 4,1364,35

scu-gpg LDLo:1800 mg/kg AJPHAP 14,366,05

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by intravenous route. Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. Human systemic effects: heart changes, cyanosis, flaccid paralysis with appropriate anesthesia. An experimental teratogen. Mutation data reported. Potentially explosive reaction when heated with ethoxyethynyl alcohols (e.g., 1-ethoxy-3-methyl-1-butyne-3-ol). When heated to decomposition it emits toxic fumes of SO_x . See also SULFATES.**MAJ500 HR: 2**
MAGNESIUM SULFATE HEPTAHYDRATEmf: $MgO_4S \cdot 7H_2O$ mw: 246.48**PROP:** Efflorescent crystals or powder, bitter taste. Mp: loses $7H_2O$ @ 200°, d: 1.68. Sltly sol in alc.**SYNS:** BITTER SALTS □ EPSOM SALTS □ SULFURIC ACID,
MAGNESIUM SALT (1:1) HEPTAHYDRATE**TOXICITY DATA with REFERENCE:**

idu-wmn LDLo:5344 mg/kg ATXKA8 27,129,71

SAFETY PROFILE: Moderately toxic by several routes. Parenteral use or use in presence of renal insufficiency may lead to magnesium intoxication. An

anticonvulsant and purgative. See also MAGNESIUM SULFATE.

**MAJ775 CAS: 17300-62-8 HR: 3
MAGNESIUM TETRAHYDROALUMINATE**

mf: $\text{Al}_2\text{H}_8\text{Mg}$ mw: 86.33

SAFETY PROFILE: An explosive sensitive to pressure, heating to 150°C. A powerful reducing agent. Potentially explosive reactions with bis(2-methoxy)ethyl ether, boron trifluoride diethyl etherate, 3,5-dibromocyclopentene, 1,2-dimethoxyethane, dioxane + heat, ethyl acetate, fluoroamides (e.g., N-ethylhexafluorobutylamide, trifluoroacetamide, tetrafluorsuccinamide, trifluoroacetic acid, heptafluorobutylamide, octafluoroadipamide), and hydrogen peroxide. Violent reaction with alkyl benzoates, pyridine, tetrahydrofuran, and water. See also MAGNESIUM COMPOUNDS.

**MAK000 CAS: 10124-53-5 HR: 3
MAGNESIUM THIOSULFATE**

mf: $\text{O}_3\text{S}_2\cdot\text{Mg}$ mw: 136.43

PROP: Decomp on heating to 3° to form mixtures of MgSO_3 and sulfur.

SYN: MAGNOSULF

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:805 mg/kg NATWAY 50,479,63

ivn-rat LDLo:103 mg/kg NATWAY 50,479,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x . See also THIOSULFATES.

**MAK250 CAS: 13446-30-5 HR: 3
MAGNESIUM THIOSULFATE HEXAHYDRATE**

mf: $\text{MgO}_3\text{S}_2\cdot 6\text{H}_2\text{O}$ mw: 244.55

PROP: Hygroscopic, colorless or white orthorhombic crystals. Decomp on heating with water loss. Loses $3\text{H}_2\text{O}$ @ 170°. D: 1.82. Very sol in water; insol in alc.

TOXICITY DATA with REFERENCE:

scu-mus LD50:850 mg/kg ARZNAD 5,141,55

ivn-mus LD50:400 mg/kg ARZNAD 5,141,55

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of SO_x . See also MAGNESIUM THIOSULFATE.

**MAK275 CAS: 62959-43-7 HR: 3
MAGNESIUM VALPROATE**

mf: $\text{C}_{16}\text{H}_{30}\text{O}_4\cdot\text{Mg}$ mw: 310.77

SYNS: MAGNESIUM DIPROPYLACETATE □ MV □ PENTANOIC ACID, 2-PROPYL-, MAGNESIUM SALT

TOXICITY DATA with REFERENCE:

orl-mus LD50:966 mg/kg CYLPDN 9,37,88

DOT CLASSIFICATION: 4.2; Label: Spontaneously Combustible

SAFETY PROFILE: Moderately toxic by ingestion. Danger: A spontaneously combustible solid. When heated to decomposition it emits toxic vapors of magnesium.

**MAK300 HR: 2
MAHOGANY**

PROP: A large tree with a dark brown, rough bark and compound leaves. The winged seeds are about 1 inch long. It is native to southern Florida and the Caribbean islands.

SYNS: ACAJOU (HAITI) □ CAOBA (CUBA, DOMINICAN REPUBLIC, PUERTO RICO) □ SWIETENIA MAHAGONI

SAFETY PROFILE: The seeds contain an unknown toxin. Ingestion of two chewed or crushed seeds may cause unconsciousness, persistent vomiting, low blood pressure, slowed heartbeat, and other heart effects.

**MAK350 CAS: 59392-53-9 HR: 3
MAITOTOXIN**

mf: $\text{C}_{164}\text{H}_{256}\text{O}_{68}\text{S}_2\cdot 2\text{Na}$ mw: 3426.30

SYN:

□ MAITOTOXIN 1

TOXICITY DATA with REFERENCE:

ipr-mus LD50:50 ng/kg JACSAT 115,2060,1993

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

**MAK400 CAS: 12201-85-3 HR: 3
MAKINENITE**

mf: NiSe mw: 137.67

PROP: Opaque, trigonal, ditrigonal, pyramidal crystals.

SYN: MAEKINENITE

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

SAFETY PROFILE: Suspected carcinogen. When heated to decomposition it emits acrid smoke and irritating vapors.

**MAK500 CAS: 510-13-4 HR: 3
MALACHITE GREEN CARBINOL**

mf: $\text{C}_{23}\text{H}_{26}\text{N}_2\text{O}$ mw: 346.51

PROP: Gray, green powder. Mp: 112–114°.

SYNS: BIS(p-(DIMETHYLAMINO)PHENYL)PHENYLMETHANOL □ CARBINOLBASE des MALACHITGRUEN (GERMAN) □ 4-(DIMETHYLAMINO)-α-(4-(DIMETHYLAMINO)PHENYL)-α-PHENYL-BENZENEMETHANOL

TOXICITY DATA with REFERENCE:

orl-mus LD50:470 mg/kg ARZNAD 1,5,51

ipr-mus LD50:10 mg/kg ARZNAD 1,5,51

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 NO_x .

**MAK600 CAS: 2437-29-8 HR: 3
MALACHITE GREEN OXALATE**

mf: $\text{C}_{46}\text{H}_{50}\text{N}_4\cdot\text{C}_2\text{H}_2\text{O}_4\cdot 2\text{C}_2\text{HO}_4$ mw: 927.10

TOXICITY DATA with REFERENCE:

eye-rbt 76 mg/kg SEV ARTODN 56,43,84

mma-sat 40 µg/plate ARTODN 56,43,84

orl-rat LD50:275 mg/kg ARTODN 56,43,84

orl-mus LD50:50 mg/kg ARTODN 56,43,84

SAFETY PROFILE: Poison by ingestion. A severe eye irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also OXALATES.

MAK700 CAS: 121-75-5 HR: 3
MALATHION

mf: C₁₀H₁₉O₆PS₂ mw: 330.38

PROP: Brown to yellow liquid; characteristic odor. D: 1.23 @ 25°/4°, mp: 2.9°, bp: 156° @ 0.7 mm. Misc in org solvs; sltly water-sol. IDLH 250 mg/m³.

SYNS: AMERICAN CYANAMID 4,049 □ S-(1,2-BIS(AETHOXY-CARBONYL)-AETHYL)-O,O-DIMETHYL-DITHIOPHOSPHAT (GERMAN) □ S-(1,2-BIS(CARBETHOXY)ETHYL)-O,O-DIMETHYL-DITHIOPHOSPHATE □ S-(1,2-BIS(ETHOXY-CARBONYL)-ETHYL)-O,O-DIMETHYL-DITHIOPHOSFAAT (DUTCH) □ S-(1,2-BIS(ETHOXYCARBONYL)ETHYL)-O,O-DIMETHYL PHOSPHORODITHIOATE □ S-1,2-BIS(ETHOXYCARBONYL)-ETHYL-O,O-DIMETHYL THIOPHOSPHATE □ S-(1,2-BIS(ETOSSI-CARBONIL)-ETIL)-O,O-DIMETIL-DITIOFOSFATO (ITALIAN) □ CALMATHION □ CARBETHOXY MALATHION □ CARBETO-VUR □ CARBETOX □ CARBOFOS □ CARBOPHOS □ CEL-THIGN □ CHEMATHION □ CIMEXAN □ COMPOUND 4049 □ CYTHION □ DETMOL MA □ DETMOL MA 96% □ S-(1,2-DICARBETHOXYETHYL)-O,O-DIMETHYLDITHIOPHOSPHATE □ DICARBOETHOXYETHYL-O,O-DIMETHYL PHOSPHORODITHIOATE □ 1,2-DI(ETHOXYCARBONYL)ETHYL-O,O-DIMETHYL PHOSPHORODITHIOATE □ S-(1,2-DI(ETHOXYCARBONYL)-ETHYL) DIMETHYL PHOSPHOROTHIOATHIONATE □ DIETHYL (DIMETHOXYPHOSPHINOTHIOYLTHIO) BUTANE-DIOATE □ DIETHYL (DIMETHOXYPHOSPHINOTHIOYLTHIO)SUCCLNATE □ DIETHYL MERCAPTOSUCCINATE-O,O-DIMETHYL DITHIOPHOSPHATE, S-ESTER □ DIETHYL MERCAPTOSUCCINATE-O,O-DIMETHYL PHOSPHORODITHIOATE □ DIETHYL MERCAPTOSUCCINATE-O,O-DIMETHYL THIOPHOSPHATE □ DIETHYL MERCAPTOSUCCINATE-S-ESTER with O,O-DIMETHYLPHOSPHORODITHIOATE □ DIETHYL MERCAPTOSUCCINIC ACID-O,O-DIMETHYL PHOSPHORODITHIOATE □ ((DIMETHOXYPHOSPHINO-THIOYL)THIO)BUTANEDIOIC ACID DIETHYL ESTER □ O,O-DIMETHYL-S-(1,2-BIS(ETHOXYCARBONYL)ETHYL)DITHIOPHOSPHATE □ O,O-DIMETHYL-S-1,2-(DICARBAETHOXY-AETHYL)DITHIOPHOSPHAT (GERMAN) □ O,O-DIMETHYL-S-(1,2-DICARBETHOXYETHYL) DITHIOPHOSPHATE □ O,O-DIMETHYL-S-(1,2-DICARBETHOXYETHYL)PHOSPHORODITHIOATE □ O,O-DIMETHYL-S-(1,2-DICARBETHOXYETHYL)THIOTHIONOPHOSPHATE □ O,O-DIMETHYL-S-1,2-DI(ETHOXYCARBAMYL)ETHYL PHOSPHORODITHIOATE □ O,O-DIMETHYL-S-1,2-DIKARBETOXYLETHYLDITIOFOSFAT (CZECH) □ O,O-DIMETHYLDITHIOPHOSPHATE DIETHYL-MERCAPTOSUCCINATE □ DITHIOPHOSPHATE de O,O-DIMETHYLE et de S-(1,2-DICARBOETHOXYETHYLE) (FRENCH) □ EL 4049 □ EMMATOS □ EMMATOS EXTRA □ ENT 17,034 □ S-ESTER with O,O-DIMETHYL PHOSPHORO-THIOATE □ ETHIOLACAR □ ETIOL □ EXPERIMENTAL INSECTICIDE 4049 □ EXTERMATHION □ FORMAL □ FORTHION □ FOSFOTHION □ FOSFOTION □ FOUR THOUSAND FORTY-NINE □ FYFANON □ HILTHION □ HILTHION 25WDP □ INSECTICIDE No. 4049 □ KARBOFOS □ KOP-THION □ KYPFOS □ MALACIDE □ MALAFOR □ MALAGRAN □ MALAKILL □ MALAMAR □ MALAMAR 50 □ MALAPHELE □ MALAPHOS □ MALASOL □ MALASPRAY □ MALATHION ULV CONCENTRATE □ MALATHIOZOO □ MALATHON □ MALATHYL LV CONCENTRATE & ULV CONCENTRATE □

MALATION (POLISH) □ MALATOL □ MALATOX □ MALDISON □ MALMED □ MALPHOS □ MALTOX □ MALTOX MLT □ MERCAPTOSUCCINIC ACID DIETHYL ESTER □ MERCAPTOTHION □ MERCAPTOTION (SPANISH) □ MLT □ MOSCARDA □ NCI-C00215 □ OLEOPHOSPHOTHION □ ORTHO MALATHION □ PHOSPHORODITHIOIC ACID-O,O-DIMETHYL ESTER-S-ESTER with DIETHYL MERCAPTOSUCCINATE □ PHOSPHOTHION □ PRIODERM □ SADOPOS □ SADOPOS □ SF 60 □ SIPTOX I □ SUMITOX □ TAK □ TM-4049 □ VEGFRU MALATOX □ VETIOL □ ZITHIOL

TOXICITY DATA with REFERENCE:

mno-sat 10 mg/L TGANAK 15(3),68,81
 sce-hmn:lym 40 mg/L MUREAV 88,307,81
 orl-man LDLo:471 mg/kg:CNS,CVS,PUL ATXKA8 23,11,67
 orl-wmn LDLo:246 mg/kg AEHLAU 33,240,78
 orl-rat LD50:290 mg/kg 85GMAT -,56,82
 ihl-rat LC50:43,790 µg/m³/4H GISAAA 56(2),80,91
 ipr-rat LD50:250 mg/kg ARZNAD 22,192,72
 scu-rat LD50:1000 mg/kg JEENAI 50,356,57
 invn-rat LD50:50 mg/kg ARZNAD 5,626,55
 orl-mus LD50:190 mg/kg 85GMAT -,56,82
 skn-mus LD50:2330 mg/kg ABCHA6 27,684,63
 ipr-mus LD50:193 mg/kg PSEBAA 129,699,68
 scu-mus LD50:221 mg/kg OIZAAV 71,6099,59
 invn-mus LD50:184 mg/kg CHABA8 52,16618,58
 ipr-dog LD50:1857 mg/kg TXAPA9 15,244,69
 ihl-cat LCLo:10 mg/m³/4H 85GMAT -,56,82
 iat-cat LDLo:1820 µg/kg 14KTAK -,693,64
 orl-rbt LDLo:1200 mg/kg AEHA** 99-002-74/76
 orl-rbt LD50:250 mg/kg JHEMA2 22,115,78
 skn-rbt LD50:4100 mg/kg 28ZEAL 5,142,76

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal No Evidence IMEMDT 30,103,83; NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-24,78; No Evidence: rat NCITR* NCI-CG-TR-192,79. EPA Genetic Toxicology Program.

OSHA PEL: TWA Total Dust: 10 mg/m³; Respirable Fraction: 5 mg/m³ (skin)

ACGIH TLV: TWA 1 mg/m³ (skin); Not Classifiable as a Human Carcinogen

DFG MAK: 15 mg/m³

NIOSH REL: (Malathion) TWA 15 mg/m³

SAFETY PROFILE: A human poison by ingestion and skin contact. Can penetrate intact skin. An experimental poison by ingestion, inhalation, intraperitoneal, intravenous, intraarterial, and subcutaneous routes. Human systemic effects by ingestion: coma, blood pressure depression, and difficulty in breathing. Questionable carcinogen. An experimental teratogen. Other experimental reproductive effects. Human mutation data reported. Has caused allergic sensitization of the skin. An organic phosphate cholinesterase inhibitor. When heated to decomposition it emits toxic fumes of PO_x and SO_x. See also PHOSPHATES and PARATHION.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-62 or NIOSH: EPN, Malathion, and Parathion, 5012.

MAK900 CAS: 110-16-7 HR: 2
MALEIC ACID

DOT: NA 2215mf: C₄H₄O₄ mw: 116.08**PROP:** White crystals; faint acidulous odor. Prisms from H₂O with repulsive astringent taste. Mp: 138–139°, bp: 135° (decomp), d: 1.590 @ 20°/4°, vap d: 4.0. Sol in H₂O and EtOH.**SYNS:** cis-BUTENEDIOIC ACID □ (Z)-BUTENEDIOIC ACID □ cis-1,2-ETHYLENEDICARBOXYLIC ACID □ MALEINIC ACID □ MALENIC ACID □ TOXILIC ACID**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD BIOFX* 7-4/70

eye-rbt 100 mg SEV BIOFX* 7-4/70

eye-rbt 1%/2M SEV AJOPAA 33,387,50

orl-rat LD50:708 mg/kg BIOFX* 7-4/70

orl-mus LD50:2400 mg/kg BIJOAK 34,1196,40

skn-rbt LD50:1560 mg/kg BIOFX* 7-4/70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 8; Label: Corrosive**SAFETY PROFILE:** Moderately toxic by ingestion and skin contact. Passes through intact skin. A skin and severe eye irritant and a corrosive. Believed to be more toxic than its isomer, fumeric acid. Combustible when exposed to heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes.**MAL000 CAS: 10099-71-5 HR: 1
MALEIC ACID, DIPENTYL ESTER**mf: C₁₄H₂₄O₄ mw: 256.38**SYNS:** DIAMYLESTER KYSELINY MALEINOVE (CZECH) □ DIAMYL MALEATE □ DIPENTYL MALEATE**TOXICITY DATA with REFERENCE:**

skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62

orl-rat LD50:4920 mg/kg AIHAAP 23,95,62

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 fumes. See also ESTERS.**MAL250 CAS: 128-53-0 HR: 3
MALEIC ACID-N-ETHYLIMIDE**mf: C₆H₇NO₂ mw: 125.14**PROP:** Crystals; irritating odor. Mp: 45°, bp: 210°.**SYNS:** N-ETHYLMALEIMIDE □ MALEIC ACID N-ETHYLIMIDE □ MALEIMIDE, N-ETHYL- □ NEM □ USAF B-121**TOXICITY DATA with REFERENCE:**

dni-hmn:oth 6 μmol/L CNREA8 40,1414,80

dni-mus:oth 300 μmol/L BBRA9 106,1448,82

dni-mus:oth 6 μmol/L CNREA8 40,1414,80

dni-ham:lng 750 nmol/L 32YWA5 -,742,75

ipr-rat LDLo:17 mg/kg JMCAR 15,534,72

ipr-mus LD50:25 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. Human mutation data reported. Vapors are highly irritating. When heated to decomposition it emits toxic fumes of NO_x.**MAL500 CAS: 10099-72-6 HR: 2****MALEIC ACID, MONO(HYDROXYETHOXY-ETHYL) ESTER**mf: C₈H₁₂O₆ mw: 204.20**SYNS:** 2-BUTENEDIOIC ACID, MONO(2-(2-HYDROXY-ETHOXY)ETHYL) ESTER □ DIETHYLENE GLYCOL, MONO-(HYDROGEN MALEATE) □ MONO-2-(2-HYDROXY-ETHOXY)ETHYLESTER KYSELINY MALEINOVE (CZECH)**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD 85JCAE -,637,86

eye-rbt 20 mg open SEV AMIHBC 10,61,54

orl-rat LD50:2830 mg/kg AMIHBC 10,61,54

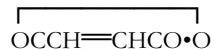
SAFETY PROFILE: Moderately toxic by ingestion. A skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.**MAL750 CAS: 10099-73-7 HR: 2
MALEIC ACID, MONO(2-HYDROXYPROPYL) ESTER**mf: C₇H₁₀O₅ mw: 174.17**SYNS:** 2-BUTENEDIOIC ACID, MONO(2-HYDROXYPROPYL) ESTER □ MONO-(2-HYDROXYPROPYL)ESTER KYSELINY MALEINOVE (CZECH)**TOXICITY DATA with REFERENCE:**

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

eye-rbt 2 mg open SEV AMIHBC 10,61,54

orl-rat LD50:3730 mg/kg AMIHBC 10,61,54

skn-rbt LD50:8480 mg/kg AMIHBC 10,61,54

SAFETY PROFILE: Moderately toxic by ingestion. Slightly toxic by skin contact. A skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.**MAM000 CAS: 108-31-6 HR: 3
MALEIC ANHYDRIDE****DOT:** UN 2215mf: C₄H₂O₃ mw: 98.06**PROP:** Fused black or white crystals. Orthorhombic needles from CHCl₃ or by subl. Mp: 52.8°, bp: 202°, flash p: 215°F (CC), d: 1.48 @ 20°/4°, autoign temp: 890°F, vap press: 1 mm @ 44.0°, vap d: 3.4, lel: 1.4%, uel: 7.1%. Sol in dioxane, water @ 30° forming maleic acid; very sltly sol in alc and ligroin. IDLH 10 mg/m³.**SYNS:** cis-BUTENEDIOIC ANHYDRIDE □ 2,5-DIHYDROFURAN-2,5-DIONE □ 2,5-FURANDIONE □ MALEIC ACID ANHYDRIDE (MAK) □ RCRA WASTE NUMBER U147 □ TOXILIC ANHYDRIDE**TOXICITY DATA with REFERENCE:**

eye-rbt 1% SEV AJOPAA 29,1363,46

cyt-ham:lng 230 mg/L GANMAX 27,95,81

orl-rat LD50:400 mg/kg IAEC** 17JUN74

ipr-rat LD50:97 mg/kg 85GMAT -,79,82

orl-mus LD50:465 mg/kg GTPZAB 13,42,69

orl-rbt LD50:875 mg/kg 85GMAT -,79,82

skn-rbt LD50:2620 mg/kg TXAPA9 42,417,77

orl-gpg LD50:390 mg/kg 85GMAT -,79,82

ihl-rat TCLo:9800 μg/m³/6H/26W-I FAATDF 10,517,88**CONSENSUS REPORTS:** Community Right-To-Know List. Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 0.25 ppm

ACGIH TLV: TWA 0.1 ppm (skin, sensitizer); Not

Classifiable as a Human Carcinogen

DFG MAK: 0.1 ppm (0.41 mg/m³)

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. A corrosive irritant to eyes, skin, and mucous membranes. Can cause pulmonary edema. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. A pesticide. Combustible when exposed to heat or flame; can react vigorously on contact with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. Reacts with water or steam to produce heat. Violent reaction with bases (e.g., sodium hydroxide, potassium hydroxide, calcium hydroxide), alkali metals (e.g., sodium, potassium), amines (e.g., dimethylamine, triethylamine), lithium, pyridine. To fight fire, use alcohol foam. Incompatible with cations. When heated to decomposition (above 150°C) it emits acrid smoke and irritating fumes. See also ANHYDRIDES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #25 or NIOSH: Maleic Anhydride, P&CAM 302.

MAM250 **CAS:** **HR: 3**

MALEIC ANHYDRIDE OZONIDE

mf: C₄H₂O₆ mw: 146.06

SAFETY PROFILE: Explodes at -40°C. When heated to decomposition it emits acrid smoke and irritating fumes. See also ANHYDRIDES.

MAM500 **CAS: 24937-72-2** **HR: 3**

MALEIC ANHYDRIDE, POLYMERS

mf: (C₄H₂O₃)_x

SYNS: 2,5-FURANDIONE, HOMOPOLYMER (9CI) □ MALEIC ANHYDRIDE HOMOPOLYMER □ MALEIC ANHYDRIDE OLIGOMER □ MALEIC ANHYDRIDE POLYMER □ POLY-(MALEIC ANHYDRIDE)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:110 mg/kg POLMAG 18,461,77

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.

MAM750 **CAS: 541-59-3** **HR: 3**

MALEIMIDE

mf: C₄H₃NO₂ mw: 97.08

PROP: Plates. Mp: 93°.

SYNS: MALEINIMIDE □ PYRROLE-2,5-DIONE □ 3-PYRROLINE-2,5-DIONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:80 mg/kg GISAAA 40(11),109,75

ipr-mus LD50:7750 µg/kg ARTODN 37,15,76

ivn-mus LD50:18 mg/kg CSLNX* NX#01729

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. An experimental teratogen.

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

MAN000 **CAS: 6915-15-7** **HR: 3**
MALIC ACID

mf: C₄H₆O₅ mw: 134.10

PROP: White or colorless crystals; acid taste. Exhibits isomeric forms (dl, l, and d). D (dl): 1.601, d (d or l): 1.595 @ 20°/40, mp (dl): 128°, mp (d or l): 100°, bp (dl): 150°, bp (d or l): 140° (decomp). Very sol in water and alc; sltly sol in ether.

SYNS: BUTANEDIOIC ACID, HYDROXY-(9CI) □ DEOXY-TETRARIC ACID □ HYDROXYBUTANEDIOIC ACID □ HYDROXYSUCCINIC ACID □ α-HYDROXYSUCCINIC ACID □ KYSELINA HYDROXYBUTANDIOVA (CZECH) □ KYSELINA JABLECNA (CZECH) □ POMALUS ACID □ SUCCINIC ACID, HYDROXY-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,105,72

eye-rbt 750 µg/24H SEV 28ZPAK -,105,72

ipr-rat LD50:100 mg/kg 38MKAJ 2C,4937,82

orl-rat LDLo:1600 mg/kg 14CYAT 2,1813,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MAN250 **CAS: 676-46-0** **HR: 2**

MALIC ACID, SODIUM SALT

mf: C₄H₄O₅•2Na mw: 178.06

PROP: White crystalline powder.

SYN: NATRIUMMALAT (GERMAN)

TOXICITY DATA with REFERENCE:

scu-rat LD50:3500 mg/kg JPETAB 25,467,25

scu-rbt LDLo:3300 mg/kg JBCHA3 28,185,17

SAFETY PROFILE: Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of Na₂O. See also MALIC ACID.

MAN400 **CAS: 17489-40-6** **HR: 3**

MALLOSIDE

mf: C₂₉H₄₄O₉ mw: 536.73

SYN: CARD-20(22)-ENOLIDE, 3-((6-DEOXY-α-L-MANNOPYRANOSYL)OXY)-11,14-DIHYDROXY-

TOXICITY DATA with REFERENCE:

ivn-cat LDLo:165 µg/kg JMCMA 13,1029,1970

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

MAN750 **CAS: 122-31-6** **HR: 3**

MALONALDEHYDE DIETHYL ACETAL

mf: C₁₁H₂₄O₄ mw: 220.35

PROP: Liquid. Mp: -90°, bp: 92.3° @ 8 mm, flash p: 190°F (OC), d: 0.916 @ 25°/4°, vap d: 7.58.

SYNS: MALONALDEHYDE TETRAETHYL DIACETAL □ TETRAETHOXY PROPANE □ 1,1,3,3-TETRAETHOXYPROPANE □ USAF KF-26

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,262,86
 eye-rbt 500 mg AMIHBC 4,119,51
 mmo-sat 4 µmol/plate CNREA8 40,276,80
 orl-rat LD50:1610 mg/kg TXAPA9 7,826,65
 ipr-mus LD50:200 mg/kg NTIS** AD277-689

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. An eye irritant. Flammable when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

**MAN800 CAS: 24382-04-5 HR: 2
 MALONALDEHYDE SODIUM SALT**

mf: C₃H₃O₂•Na mw: 94.05

PROP: Produced by metabolism in the human body.

SYNS: 3-HYDROXY-2-PROPENAL SODIUM SALT □ MALONALDEHYDE, ION(1-), SODIUM □ PROPANEDIAL, ION(1-), SODIUM (9CI) □ SODIUM MALONDIALDEHYDE

TOXICITY DATA with REFERENCE:

mnt-rat:fbr 100 µmol/L MUREAV 101,237,82
 cyt-rat:fbr 100 µmol/L MUREAV 101,237,82
 orl-rat TDLo:51,500 mg/kg/2Y-I:CAR NTPTR* NTP-TR-331,88

CONSENSUS REPORTS: NTP Carcinogenesis Studies (gavage): Clear Evidence: rat NTPTR* NTP-TR-331,88; No Evidence: mouse NTPTR* NTP-TR-331,88

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

**MAO000 CAS: 108-13-4 HR: 1
 MALONAMIDE**

mf: C₃H₆N₂O₂ mw: 102.11

PROP: Dimorphous, tetragonal or monoclinic. Mp: 170°. Sol in water @ 8°; insol in EtOH and Et₂O; insol in ether.

SYNS: CARBOXAMIDOACETAMIDE □ MALONDAMIDE □ MALONIC ACID DIAMIDE □ MALONYLDIAMIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:6000 mg/kg BIJOAK 34,1196,40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**MAO100 CAS: 156-80-9 HR: D
 MALONIC ACID, ION(2⁻)**

mf: C₃H₂O₄ mw: 102.05

SYNS: MALONATE □ MALONATE DIANION □ MALONATE ION(2⁻) □ PROPANEDIOATE □ PROPANEDIOIC ACID, ION(2⁻)

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

**MAO250 CAS: 109-77-3 HR: 3
 MALONONITRILE**

DOT: UN 2647

mf: C₃H₂N₂ mw: 66.07

PROP: White powder or crystals. D: 1.049 @ 34°/4°, mp: 30.5°, bp: 220°, flash p: 266°F (TOC). Sol in H₂O, EtOH, Et₂O, and C₆H₆.

SYNS: CYANOACETONITRILE □ DICYANOMETHANE □ DWUMETYLOSULFOTLENKU (POLISH) □ MALONIC DINITRILE □ METHYLENE CYANIDE □ NITRIL KYSELINY MALONOVE (CZECH) □ PROPANEDINITRILE □ RCRA WASTE NUMBER U149 □ USAF A-4600

TOXICITY DATA with REFERENCE:

eye-rbt 5 mg/24H SEV 85JCAE -,899,86
 orl-rat LD50:60,800 µg/kg 28ZPAK -,158,72
 skn-rat LD50:350 mg/kg MEPAAX 27,1,76
 ipr-rat LD50:20,550 µg/kg MEPAAX 27,1,76
 scu-rat LD50:31,500 µg/kg MEPAAX 27,1,76
 orl-mus LD50:19 mg/kg KHZDAN 9,50,66
 scu-rat LDLo:7 mg/kg AIPTAK 3,77,1897
 ipr-mus LD50:13 mg/kg NATUAS 228,1315,70
 scu-mus LDLo:8 mg/kg AIPTAK 3,77,1897
 ivn-mus LD50:32 mg/kg CSLNX* NX#07576
 scu-dog LDLo:6500 µg/kg AIPTAK 3,77,1897
 scu-rbt LDLo:6 mg/kg CRSBAW 96,202,27
 ivn-rbt LD50:28 mg/kg PJPPAA 31,563,79
 scu-frg LDLo:95 mg/kg AIPTAK 3,77,1897

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 8 mg/m³

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion, skin contact, subcutaneous, intravenous, and intraperitoneal routes. A severe eye irritant. Combustible when exposed to heat or flame. Polymerizes violently when heated to 130°C or on contact with strong base. May spontaneously explode when stored at 70–80°C. To fight fire, use water, fog, spray, foam. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

**MAO275 CAS: 59937-28-9 HR: 2
 MALOTILATE**

mf: C₁₂H₁₆O₄S₂ mw: 288.40

PROP: Pale yellow crystals from n-hexane. Mp: 60.5°.

Sol in benzene, cyclohexane, n-hexane, and ether.

SYNS: DIISOPROPYL-1,3-DITHIOL-2-YLIDENEMALONATE □ 1,3-DITHIOL-2-YLIDENE-PROPANEDIOIC ACID BIS(1-METHYLETHYL) ESTER □ HEPATION □ KANTEC □ NKK 105

TOXICITY DATA with REFERENCE:

orl-rat LD50:2065 mg/kg TOIZAG 25,387,78
 ipr-rat LD50:750 mg/kg TOIZAG 25,387,78
 orl-mus LD50:3120 mg/kg TOIZAG 25,387,78
 ipr-mus LD50:1220 mg/kg TOIZAG 25,387,78
 scu-mus LD50:1732 mg/kg SYXUE3 2,269,85
 orl-rbt LD50:706 mg/kg TOIZAG 25,387,78
 ipr-rbt LD50:656 mg/kg TOIZAG 25,387,78

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x. See also ESTERS.

**MAO280 CAS: 10308-44-8 HR: D
 MALOQUETINE**

mf: $C_{27}H_{52}N_2 \cdot 2I$ mw: 658.61

SYNS: AMMONIUM, 5- α -PREGNAN-3- β ,20- α -YLENEBIS-(TRIMETHYL-, DIODIDE \square MALOUEITIN \square PREGNANE-3,20-DIAMMINIUM, N,N,N,N',N',N'-HEXAMETHYL-, DIODIDE, (3- β ,5- α ,20S)-

TOXICITY DATA with REFERENCE:mic-uns 700 μ Lg/plate PNASA6 58,256,1967

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

MAO285 CAS: 585-88-6 HR: D
d-MALTITOL

mf: $C_{12}H_{24}O_{11}$ mw: 344.36**PROP:** Powder. Mp: 146°.

SYNS: AMALTI SYRUP \square AMALTY MR 100 \square d-GLUCITOL, 4- α -d-GLUCOPYRANOSYL-(9CI) \square d-4- α -d-GLUCOPYRANOSYL-GLUCITOL \square 4- α -d-GLUCOPYRANOSYL-d-GLUCITOL \square GLUCITOL, 4- α -d-GLUCOPYRANOSYL-, d- \square MALBIT \square MALTI MR \square MALTISORB \square MALTIT \square MALTITOL (6CI,7CI)

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

MAO300 CAS: 9050-36-6 HR: D
MALTODEXTRIN

mf: $(C_6H_{10}O_5)_n$

PROP: White powder or solution from partial hydrolysis of corn starch.

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

MAO350 CAS: 118-71-8 HR: 2
MALTOL

mf: $C_6H_6O_3$ mw: 126.12

PROP: White crystalline powder, needles, or prisms from toluene or $CHCl_3$ with odor of caramel/butterscotch. Mp: 161–162° 1.3 Sol in water, alc, glycerin, and propylene glycol. Mod sol in water; sol in alc.

SYNS: CORPS PRALINE \square 3-HYDROXY-2-METHYL-4H-PYRAN-4-ONE \square 3-HYDROXY-2-METHYL- γ -PYRONE \square 3-HYDROXY-2-METHYL-4-PYRONE \square LARIXIC ACID \square LARIXINIC ACID \square 2-METHYL-3-HYDROXY-4-PYRONE \square 2-METHYL-3-OXY- γ -PYRONE \square 2-METHYL PYROMECONIC ACID \square PALATONE \square TALMON \square VETOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 13,841,75

mmo-sat 1 mg/plate MUREAV 67,367,79

mma-sat 3333 μ g/plate ENMUDM 8(Suppl 7),1,86sce-hmn:lym 500 μ mol/L MUREAV 169,129,86

orl-rat LD50:1410 mg/kg FAONAU 44A,56,67

orl-mus LD50:848 mg/kg TXAPA9 15,604,69

ipr-mus LD16:1400 mg/kg RPTOAN 38,213,75

scu-mus LD50:820 mg/kg CPBTAL 22,1008,74

orl-rbt LD50:1620 mg/kg DOWCC* -,67

orl-gpg LD50:1410 mg/kg DOWCC* -,67

orl-ckn LD50:3720 mg/kg TXAPA9 15,604,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. A skin irritant.

Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

MAO500 CAS: 69-79-4 HR: 2
MALTOSE

mf: $C_{12}H_{22}O_{11}$ mw: 342.31

PROP: Colorless needles or crystals. D: 1,540 @ 17°, mp: 102–103° (decomp). Very sol in water; very sltly sol in cold alc; insol in ether.

SYNS: 4-(α -d-GLUCOPYRANOSIDO)- α -GLUCOPYRANOSE \square 4-(α -d-GLUCOSIDO)-d-GLUCOSE \square MALTOBIOSE \square d-MALTOSE \square MALT SUGAR \square α -MALT SUGAR

TOXICITY DATA with REFERENCE:

orl-rat LD50:34,800 mg/kg YACHDS 7,53,79

ipr-rat LD50:30,600 mg/kg OYYAA2 6,251,72

ivn-rat LD50:15,300 mg/kg

OYYAA2 6,251,72

scu-mus LD50:38,600 mg/kg YACHDS 7,53,79

ivn-mus LD50:26,800 mg/kg YACHDS 7,53,79

ivn-rbt LD50:25,200 g/kg NIIRDN 6,805,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MAO525 HR: D
MALT SYRUP

PROP: Derived from barley (*Hordeum vulgare* L.). Brown liquid; sweet taste. Sol in water.

SYN: MALT EXTRACT

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

MAO600 CAS: 643-84-5 HR: 3
MALVIDIN CHLORIDE

mf: $C_{17}H_{15}O_7 \cdot Cl$ mw: 366.77

PROP: Dark brown prisms or needles from EtOH/HCl (aq).

SYN: FLAVYLIUM, 3,4',5,7-TETRAHYDROXY-3',5'-DIMETHOXY-, CHLORIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:18 mg/kg CSLNX* NX#01634

SAFETY PROFILE: Poison by intravenous route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^- .

MAO750 HR: 3
MALVIDOL

mf: $C_{17}H_{15}O_7$ mw: 331.32

SYNS: 3',5'-DIMETHOXY-3,4',5,7-TETRAHYDROXYFLAVYLIUM ACID ANION \square 3,5,7-TRIHYDROXY-2-(4-HYDROXY-3,5-DIMETHOXYHPHENYL)-BENZOPYRYLIUM ACID ANION

TOXICITY DATA with REFERENCE:

ipr-rat LD50:2350 mg/kg CHTPBA 2,33,67

ivn-rat LD50:240 mg/kg CHTPBA 2,33,67

ipr-mus LD50:4110 mg/kg CHTPBA 2,33,67

ivn-mus LD50:840 mg/kg CHTPBA 2,33,67

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

**MAO875
MANCHINEEL****HR: 2**

PROP: A deciduous tree which has thick, gray bark and may grow to 30 feet. It produces a small, crabapple-like fruit. The sap changes from white to black when exposed to the air. It grows wild in the Florida everglades and the West Indies.

SYNS: BEACH APPLE □ HIPPOMANE MANCINELLA □ MANCENILLIER (HAITI) □ MANZANILLO (CUBA, PUERTO RICO, DOMINICAN REPUBLIC)

SAFETY PROFILE: The latex contains the poisons hippomane A and B. It can cause direct and allergic dermatitis and conjunctivitis. Inhalation of the sawdust can cause irritation of the nose, throat and lungs. Chewing the fruit causes intense pain and blistering of the lips, mouth, and throat. Ingestion causes vomiting, extreme abdominal pain, and bloody diarrhea.

**MAO880 CAS: 8064-42-4 HR: 1
MANCOZEB-DINOCAP MIXTURE**

mf: $C_{18}H_{24}N_2O_6 \cdot C_4H_6MnN_2S_4 \cdot C_4H_6N_2S_4Zn$ mw: 905.47

SYNS: DIKAR □ DINOCAP-MANCOZEB MIXTURE □ MANCOKAR □ MANCOZEB + KARATHANE MIXTURE □ MANGANESE, ((1,2-ETHANEDIYLBIS(CARBAMODITHIO-ATO))(2-))-, mixed with ((1,2-ETHANEDIYLBIS(CARBAMODITHIOATO))(2-))ZINC and 2(OR 4)-ISOOCTYL-4,6(OR 2,6)-DINITROPHENYL 2-BUTENOATE

TOXICITY DATA with REFERENCE:

orl-rat LD50: >5 g/kg FMCHA2 -, C107,91

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x , SO_x , Mn, and Zn.

**MAO900 HR: D
MANDARIN OIL, COLDPRESSED**

PROP: From expression of peel of *Citrus reticulata* Blanco var. *Mandarin*. Clear orange to brown-orange liquid; orange odor. D: 0.846. Sol in fixed oils, mineral oil; slt sol in propylene glycol; insol in glycerin.

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

**MAP000 CAS: 90-64-2 HR: 3
MANDELIC ACID**

mf: $C_8H_8O_3$ mw: 152.16

PROP: Large, white crystals or powder; faint odor. Bp: decomp, d: 1.30, mp: 117–119°. Sol in water, alc, and ether. Darkens and decomp on prolonged exposure to light.

SYNS: ACIDO MANDELICO □ AMYGDALIC ACID □ AMYGDALINIC ACID □ GLYCOLIC ACID, PHENYL- □ α -HYDROXYPHENYLACETIC ACID □ α -HYDROXY- α -TOLUIC ACID □ KYSELINA 2-FENYL-2-HYDROXYETHANOVA □ KYSELINA MANDLOVA □ PARAMANDELIC ACID □ PHENYLGLYCOLIC ACID □ PHENYLHYDROXYACETIC ACID □ RACEMIC MANDELIC ACID □ α -TOLUIC ACID, α -HYDROXY- □ UROMALINE

TOXICITY DATA with REFERENCE:

orl-rat LDLo: 3000 mg/kg AIPTAK 64,79,40

ipr-rat LD50: 4100 mg/kg BCFAAI 112,53,73

ims-rat LD50: 300 mg/kg EMSUA8 4,223,46

orl-rbt LDLo: 2000 mg/kg AIPTAK 64,79,40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intramuscular route. Moderately toxic by ingestion. Continued absorption can cause kidney irritation. When heated to decomposition it emits acrid smoke and irritating fumes.

**MAP250 CAS: 532-28-5 HR: 3
MANDELIC ACID NITRILE**

mf: C_8H_7NO mw: 133.16

PROP: Needles or yellow, viscous liquid. Mp: 28.5–29.5°, bp: 170° decomp, d: 1.124.

SYNS: AMYGDALONITRILE □ BENZALDEHYDE CYANO-HYDRIN □ BENZALDEHYDKYANHYDRIN (CZECH) □ HYDROXYPHENYLACETONITRILE □ NITRIL KYSELINY MANDLOVE (CZECH) □ PHENYLGLYCOLONITRILE

TOXICITY DATA with REFERENCE:

eye-rbt 250 μ g/24H SEV 28ZPAK -,161,72

mno-sat 225 nmol/plate SCIEAS 198,625,77

mma-sat 225 nmol/plate SCIEAS 198,625,77

scu-mus LDLo: 23 mg/kg AIPTAK 12,447,04

ivn-mus LD50: 5600 μ g/kg CSLNX* NX#07767

scu-rbt LDLo: 6 mg/kg AIPTAK 5,161,1899

scu-frg LDLo: 600 μ g/kg AIPTAK 5,161,1899

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

SAFETY PROFILE: Poison by intravenous and subcutaneous routes. Mutation data reported. A severe eye irritant. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

**MAP300 CAS: 52623-88-8 HR: 1
MANEB-METHYLTHIOPHANATE mixture**

mf: $C_{12}H_{14}N_4O_4S_2 \cdot C_4H_6MnN_2S_4$ mw: 607.72

SYNS: BAS 36801F □ CALIGRAN M □ DUOSAN □ DUOSAN (pesticide) □ LABILITE □ MANGANESE, ((1,2-ETHANEDIYLBIS(CARBAMODITHIOATO))(2-))-, mixed with DIMETHYL (1,2-PHENYLENEBIS(IMINOCARBONOTHIOYL))BIS(CARBAM-ATE) □ METHYLTHIOPHANATE-MANEB mixture □ MF 565 □ MF 598 □ ORGANIL 644 □ PELTAR □ THIOPHANATE METHYL-MANEB mixture □ TMM

TOXICITY DATA with REFERENCE:

orl-rat LD50: 10,200 mg/kg FMCHA2 -, C114,89

skn-rbt LD50: 8 g/kg FMCHA2 -, C114,89

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 5 mg(Mn)/m³

SAFETY PROFILE: Mildly toxic by ingestion and skin contact. When heated to decomposition it emits toxic fumes of NO_x , SO_x , and Mn.

**MAP600 HR: 2
MANETOL**

PROP: Extracted from animal spinal marrow and has blood coagulation properties (KSRNAM 8,7,74).

TOXICITY DATA with REFERENCE:

ipr-rat LD50: 3082 mg/kg KSRNAM 8,7,74

ivn-rat LD50: 788 mg/kg KSRNAM 8,7,74

ipr-mus LD50: 3840 mg/kg KSRNAM 8,7,74

ivn-mus LD50: 628 mg/kg KSRNAM 8,7,74

SAFETY PROFILE: Moderately toxic by intraperitoneal and intravenous routes. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

MAP750 CAS: 7439-96-5 HR: 3
MANGANESE

af: Mn aw: 54.94

PROP: Reddish-gray or silvery, brittle, metallic element. Reacts with H₂O or steam to give H₂. Oxidizes superficially in air. Mp: 1244°, bp: 2060°, d: 7.20, vap press: 1 mm @ 1292°. IDLH 500 mg/m³ (as Mn).

SYNS: COLLOIDAL MANGANESE □ MANGACAT □ MANGAN (POLISH) □ MANGAN NITRIDOVANY (CZECH) □ TRONAMANG

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,21,72
eye-rbt 500 mg/24H MLD 28ZPAK -,21,72
ihl-man TCLo:2300 µg/m³:BRN,CNS AIHAAP 27,454,66
orl-rat LD50:9 g/kg 28ZPAK -,21,72

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

OSHA PEL: Fume: TWA 1 mg/m³; STEL 3 mg/m³; Compounds: CL 5 mg/m³

ACGIH TLV: Fume: 1 mg/m³; STEL 3 mg/m³; Dust and Compounds: TWA 5 mg/m³; (Proposed: TWA 0.2 mg/m³)

DFG MAK: 0.5 mg/m³

SAFETY PROFILE: Human systemic effects by inhalation: degenerative brain changes, change in motor activity, muscle weakness. A skin and eye irritant. Questionable carcinogen with experimental tumorigenic data. Flammable and moderately explosive in the form of dust or powder when exposed to flame. The dust may be pyrophoric in air and may explode when heated in carbon dioxide. Mixtures of aluminum dust and manganese dust may explode in air. Mixtures with ammonium nitrate may explode when heated. The powdered metal ignites on contact with fluorine, chlorine + heat, hydrogen peroxide, bromine pentafluoride, sulfur dioxide + heat. Violent reaction with NO₂ and oxidants. Incandescent reaction with phosphorus, nitril fluoride, nitric acid. Will react with water or steam to produce hydrogen; can react with oxidizing materials. To fight fire, use special dry chemical. See also MANGANESE COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-125G or NIOSH: Elements (ICP), 7300.

MAQ000 CAS: 638-38-0 HR: 2
MANGANESE ACETATE

mf: C₄H₆O₄•Mn mw: 173.04

PROP: Pale-red crystals. Sol in H₂O, MeOH, EtOH, AcOH; insol in Me₂CO.

SYNS: ACETIC ACID MANGANESE(II) SALT (2:1) □ DIACETYLMANGANESE □ MANGANESE(2+) ACETATE □ MANGANESE(II) ACETATE □ MANGANESE DIACETATE □ MANGANOUS ACETATE □ OCTAN MANGANATY (CZECH)

TOXICITY DATA with REFERENCE:

dnr-bcs 50 mmol/L MUREAV 31,185,75

orl-rat LD50:2940 mg/kg MarJV# 29MAR77

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

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 5 mg(Mn)/m³

SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. Used in food packaging. When heated to decomposition it emits acrid smoke and irritating fumes. See also MANGANESE COMPOUNDS.

MAQ250 CAS: 6156-78-1 HR: 2
MANGANESE ACETATE TETRAHYDRATE

mf: C₄H₆O₄•Mn•4H₂O mw: 245.12

PROP: Pale red, transparent, monoclinic crystals. D: 1.59. Sol in water.

SYNS: MANGANESE(II) ACETATE TETRAHYDRATE □ MANGANESE DIACETATE TETRAHYDRATE □ MANGANOUS ACETATE TETRAHYDRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3730 mg/kg AIHAAP 30,470,69

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

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 5 mg(Mn)/m³

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

MAQ500 CAS: 14024-58-9 HR: 2
MANGANESE ACETYLACETONATE

mf: C₁₀H₁₄O₄Mn mw: 253.18

PROP: Colorless crystals. Sltly sol in H₂O, EtOH, and Me₂CO.

SYN: MANGANOUS ACETYLACETONATE

TOXICITY DATA with REFERENCE:

ims-rat TDL0:1200 mg/kg/26W-I:NEO JNCIAM 60,1171,78

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

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 5 mg(Mn)/m³

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also MANGANESE COMPOUNDS.

MAQ600 CAS: 85625-90-7 HR: 1
MANGANESE γ -AMINOBTYRATOPANTOTHENATE

mf: C₁₃H₂₄MnN₂O₇ mw: 375.33

SYN: MANGANESE, (4-AMINOBTYRANOATO-N,O)(N-(2,4-DIHYDROXY-3,3-DIMETHYL-1-OXOBUTYL)- β -ALANINATO)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1 g/kg PCJOAU 17,32,83

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 5 mg(Mn)/m³

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

MAQ700 CAS: 61136-68-3 HR: 3
MANGANESE ARSENATE ($Mn_3(AsO_4)_2$)
HEXAHYDRATE (6CI)

mf: $As_2O_5 \cdot 3Mn \cdot 6H_2O$ mw: 715.60

SYN: ARSENIC ACID, MANGANESE(2^+) SALT, HYDRATE (2:3:6)

TOXICITY DATA with REFERENCE:

orl-rat LD50:791 mg/kg GTPZAB 28(7),53,1984

orl-mus LD50:194 mg/kg GTPZAB 28(7),53,1984

ipr-mus LD50:474 mg/kg GTPZAB 28(7),53,1984

SAFETY PROFILE: A poison by ingestion. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of As and Mn.

MAQ780 HR: 3
MANGANESE(II) BIS(ACETYLIDE)

mf: C_4H_2Mn mw: 105.00

$Mn(C \equiv CH)_2$

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

SAFETY PROFILE: Highly explosive. When heated to decomposition it emits acrid smoke and irritating fumes. See also MANGANESE COMPOUNDS and ACETYLIDES.

MAQ790 HR: D
MANGANESE CAPRYLATE

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

MAR000 CAS: 7773-01-5 HR: 3
MANGANESE(II) CHLORIDE (1:2)

mf: Cl_2Mn mw: 125.84

PROP: Cubic, deliquescent, pink crystals. Mp: 654° , bp: 1225° , d: 2.977 @ 25° . Sol in water.

SYNS: MANGANESE DICHLORIDE □ MANGANOUS CHLORIDE

TOXICITY DATA with REFERENCE:

mmo-esc 5 μ mol/L MUREAV 126,9,84

dlt-rat-orl 106 mg/kg/30W-C GISAAA 49(11),80,84

ipr-mus TDLo:2080 mg/kg/26W-I:CAR FEPA7 23,393,64

orl-rat LD50:770 mg/kg SCIEAS 36(1-4),10,89

ipr-rat LD50:700 mg/kg FATOAO 38,618,75

ims-rat LD50:700 mg/kg RPTOAN 38,221,75

orl-mus LD50:1715 mg/kg TOLED5 7,221,81

ipr-mus LD50:121 mg/kg AEPPAE 244,17,62

scu-mus LDLo:210 mg/kg EQSSDX 1,1,75

ims-mus LD50:255 mg/kg RPTOAN 38,221,75

ivn-dog LD50:202 mg/kg EQSSDX 1,1,75

par-dog LDLo:56 mg/kg CRSBAW 102,262,29

par-rbt LDLo:18 mg/kg CRSBAW 102,262,29

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

OSHA PEL: CL 5 mg(Mn)/ m^3

ACGIH TLV: TWA 0.03 mg(Mn)/ m^3

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, intramuscular, intravenous, and parenteral routes. Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. Explosive reaction when heated with zinc foil. Reacts violently with potassium or sodium. When heated to decomposition it emits toxic fumes of Cl^- . See also MANGANESE COMPOUNDS and CHLORIDES.

MAR250 CAS: 13446-34-9 HR: 3
MANGANESE(II) CHLORIDE TETRAHYDRATE

mf: $Cl_2Mn \cdot 4H_2O$ mw: 197.92

PROP: Reddish, sltly deliq, monoclinic crystals. D: 2.01, mp: 58° . Sol in alc; insol in ether. Keep well closed.

SYN: MANGANOUS CHLORIDE TETRAHYDRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1484 mg/kg EVHPAZ 10,95,75

ipr-rat LD50:138 mg/kg EVHPAZ 10,95,75

par-rat LD50:225 mg/kg JINCAO 41,1507,79

ipr-mus LD50:144 mg/kg TXAPA9 63,461,82

CONSENSUS REPORTS: Manganese and its compounds are on the Community Right-To-Know List. EPA Genetic Toxicology Program.

OSHA PEL: CL 5 mg(Mn)/ m^3

ACGIH TLV: TWA 0.03 mg(Mn)/ m^3

SAFETY PROFILE: Poison by intraperitoneal and parenteral routes. Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^- . See also MANGANESE COMPOUNDS.

MAR260 CAS: 10024-66-5 HR: D
MANGANESE CITRATE

mf: $Mn_3(C_6H_5O_7)_2$ mw: 543.02

PROP: Pale orange or pinkish-white powder.

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

MAR500 HR: 3
MANGANESE COMPOUNDS

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

SAFETY PROFILE: Some are experimental tumorigens. Can cause central nervous system and pulmonary system damage by inhalation of fumes and dust. Very few poisonings have occurred from ingestion. Chronic manganese poisoning is a clearly characterized disease that results from inhalation of fumes or dusts of manganese. Exposure to heavy concentrations of dusts or fumes for as little as three months may produce the condition, but usually cases develop after 1–3 years of exposure. The central nervous system is the chief site of damage. If cases are removed from exposure shortly after appearance of symptoms, some improvement in the patient's condition frequently occurs, though there may be some residual disturbances in gait and speech. When well established, however, the disease results in permanent disability. Exposure to dusts and fumes can possibly increase the incidence of upper respiratory infections and pneumonia. Chronic manganese poisoning usually begins

with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appears, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. Nocturnal cramps of the legs appear about the same time. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait. The handwriting may be quite minute. The symptoms may simulate progressive bulbar paralysis, postencephalitic Parkinsonism, multiple sclerosis, amyotrophic lateral sclerosis, and progressive lenticular degeneration (Wilson's Disease). Often a history of exposure is the only aid in establishing the diagnosis. Manganese compounds are common air contaminants.

MAR750 CAS: 15339-36-3 HR: 3
MANGANESE DIMETHYLDITHIOCARBAMATE

mf: $C_3H_7NS_2 \cdot 1/2Mn$ mw: 148.69

SYN: MANGANOUS DIMETHYLDITHIOCARBAMATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:32 mg/kg CSLNX* NX#03752

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

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 5 mg(Mn)/m³

SAFETY PROFILE: Poison by intravenous route. A pesticide. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MANGANESE COMPOUNDS and CARBAMATES.

MAS000 CAS: 1313-13-9 HR: 3
MANGANESE DIOXIDE

mf: MnO₂ mw: 86.94

PROP: Tetragonal crystals. Inert to most acids except when heated whence it functions as an oxidizing agent. With concentrated HCl, Cl₂ is evolved. With H₂SO₄ at 1° O₂ is evolved and an Mn(III) acid sulfate is formed. Mp: loses O₂ @ 535°, d: 5.0. Insol in water, nitric or cold sulfuric acid.

SYNS: BLACK MANGANESE OXIDE □ BOG MANGANESE □ BRAUNSTEIN (GERMAN) □ BRUINSTEEN (DUTCH) □ CEMENT BLACK □ C.I. 77728 □ C.I. PIGMENT BLACK 14 □ C.I. PIGMENT BROWN 8 □ MANGAANBIOXYDE (DUTCH) □ MANGAANDIOXYDE (DUTCH) □ MANGANDIOXID (GERMAN) □ MANGANESE BINOXIDE □ MANGANESE (BIOSSIDO di) (ITALIAN) □ MANGANESE (BIOXYDE de) (FRENCH) □ MANGANESE BLACK □ MANGANESE (DIOSSIDO di) (ITALIAN) □ MANGANESE (DIOXYDE de) (FRENCH) □ MANGANESE OXIDE □ MANGANESE(IV) OXIDE □ MANGANESE PEROXIDE □ MANGANESE SUPEROXIDE □ PYROLUSITE BROWN

TOXICITY DATA with REFERENCE:

ihl-mus TCLo:49 mg/m³/7H (75D pre/1-18D preg):REP FEPA7 39,623,80

itr-rat LDLo:50 mg/kg GISAAA 20(1),25,55

scu-mus LD50:422 mg/kg ZVKOA6 19,186,74

ivn-rbt LDLo:45 mg/kg MEIEDD 10,817,83

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

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 0.03 mg(Mn)/m³

SAFETY PROFILE: Poison by intravenous and intratracheal routes. Moderately toxic by subcutaneous route. Experimental reproductive effects. A powerful oxidizer. Flammable by chemical reaction. It must not be heated or rubbed in contact with easily oxidizable matter. Violent thermite reaction when heated with aluminum. Potentially explosive reaction with hydrogen peroxide, peroxomonosulfuric acid, chlorates + heat, anilinium perchlorate. Ignition on contact with hydrogen sulfide. Violent reaction with oxidizers, potassium azide (when warmed), diboron tetrafluoride, Incandescent reaction with calcium hydride, chlorine trifluoride, rubidium acetylide (at 350°C). Vigorous reaction with hydroxylammonium chloride. Incompatible with H₂O₂, H₂SO₅, Na₂O₂. Keep away from heat and flammable materials. See also MANGANESE COMPOUNDS.

MAS250 CAS: 55448-20-9 HR: 3
MANGANESE EDTA COMPLEX

mf: C₁₀H₁₂MnN₂O₈·2H mw: 345.20

PROP: Sol in water.

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1930 mg/kg AMIHAB 21,24,60

ipr-mus LD50:330 mg(Mn)/kg PABIAQ 11,853,63

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

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 5 mg(Mn)/m³

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

MAS300 CAS: 60240-47-3 HR: 1
MANGANESE, ((1,2-ETHANEDIYLBIS-(CARB-AMODITHIOATO))-(2-)), mixed with DIMETHYL (1,2-PHENYLENEBIS(IMINOCARBONOTHIOYL))BIS-(CARBAMATE) and ((1,2-ETHANEDIYLBIS(CARBAMODITHIOATO))-(2-))ZINC

mf: C₁₂H₁₄N₄O₄S₂·C₄H₆MnN₂S₄·C₄H₆N₂S₄Zn mw: 883.45

SYNS: MANCOTOP □ MICEVIT □ MUGIBON □ MUGIBON 70WP □ TIOMAN V □ TOPSIN m-DITHANE M45 MIXTURE □ ZYBAN

TOXICITY DATA with REFERENCE:

orl-rat LD50:10,200 mg/kg FMCHA2 -,C330,91

skn-rbt LD50:8 g/kg FMCHA2 -,C330,91

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

MAS500 CAS: 12427-38-2 HR: 2
MANGANESE(III) ETHYLENEBIS(DITHIOCARBAMATE)

DOT: UN 2210/UN 2968

mf: C₄H₆N₂S₄·Mn mw: 265.30

PROP: Yellow powder or crystals. Slowly decomp on prolonged exp to air, rapid decomp in acid. May be stabilized by presence of formaldehyde or various other

compds. Mp: 131° (decomp). Sol in water and common org solvs.

SYNS: AAMANGAN □ AKZO CHEMIE MANEB □ BASF-MANEB SPRITZPULVER □ CARBAMIC ACID, ETHYLENEBIS-(DITHIO)-, MANGANESE SALT □ CHEM NEB □ CHLOROBLE M □ CR 3029 □ CURZATE M □ DELSENE M □ DITHANE M 22 □ DITHANE M 22 SPECIAL □ ENT 14,875 □ 1,2-ETHANEDIYL-BIS(CARBAMODITHIOATO)(2-)-MANGANESE □ 1,2-ETHANE-DIYLBISCARBAMODITHIOIC ACID MANGANESE COMPLEX □ 1,2-ETHANEDIYLBISCARBAMODITHIOIC ACID, MANGANESE(2+) SALT (1:1) □ 1,2-ETHANEDIYLBISMANEB, MANGANESE(2+) SALT (1:1) □ ETHYLENEBISDITHIO-CARBAMATE MANGANESE □ N,N'-ETHYLENE BIS(DITHIOCARBAMATE MANGANEUX) (FRENCH) □ ETHYLENEBIS(DITHIOCARBAMATO) MANGANESE □ ETHYLENEBIS(DITHIOCARBAMIC ACID) MANGANESE SALT □ ETHYLENEBIS(DITHIOCARBAMIC ACID) MANGANOUS SALT □ 1,2-ETHYLENEDIYLBIS-(CARBAMODITHIOATO)MANGANESE □ N,N'-ETILEN-BIS(DITHIOCARBAMATO) di MANGANESE (ITALIAN) □ F 10 (pesticide) □ GRIFFIN MANEX □ KYPMAN 80 □ LONOCOL M □ MANAM □ MANEB □ MANEB 80 □ MANEB (UN 2210) (DOT) □ MANEBA □ MANEBE (FRENCH) □ MANEBE 80 □ MANEBGAN □ MANEB PREPARATIONS with not <60% maneb (UN 2210) (DOT) □ MANEB PREPARATIONS, stabilized against self-heating (UN 2968) (DOT) □ MANEB, stabilized (UN 2968) (DOT) □ MANEB ZL4 □ MANESAN □ MANEX □ MANGAAN(II)-(N,N'-ETHYLEN-BIS(DITHIOCARBAMAT)) (DUTCH) □ MANGAN(II)-(N,N'-AETHYLEN-BIS(DITHIOCARBAMAT)) (GERMAN) □ MANGANESE ETHYLENE-1,2-BISDITHIOCARBAMATE □ MANGANESE(II) ETHYLENE DI(DITHIOCARBAMATE) □ MANZATE □ MANZATE 200 □ MANZATE D □ MANZATE MANEB FUNGICIDE □ MANZEB □ MANZIN □ M-DIPHAR □ MEB □ MnEBD □ NEREB □ NESPOR □ PLANTIFOG 160M □ POLYRAM M □ REMASAN CHLOROBLE M □ RHODIANEBE □ SOPRANEBE □ SUPERMAN MANEB F □ SUPR FLO □ TERSAN-LSR □ TRIMANGOL □ TRIMANGOL 80 □ TUBOTHANE □ UNICROP MANEB □ VANCIDE MANEB 80

TOXICITY DATA with REFERENCE:

mno-omi 1000 ppm MMAPAP 50,233,73
mno-smc 5 ppm RSTUDV 6,161,76
cyt-ham:lng 31 mg/L GMCRDC 27,95,81
orl-rat TDLo:1420 mg/kg (11D preg):TER TJADAB 14,171,76
orl-rat TDLo:62,980 mg/kg/94W-I:CAR VPITAR 29,71,70
imp-rat TDLo:50 mg/kg:ETA VPITAR 29,71,70
unr-rat LD50:3 g/kg EQSFAP 3,618,75
orl-rat LD50:3 g/kg GISAAA 36(5),22,71
orl-mus LD50:2600 mg/kg GISAAA 36(5),22,71
orl-gpg LDLo:6400 mg/kg PCOC*-675,66

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 12,137,76. Community Right-To-Know List. EPA Genetic Toxicology Program.

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 5 mg(Mn)/m³

DOT CLASSIFICATION: 4.2; Label: Spontaneously Combustible, Dangerous When Wet (UN 2210); DOT Class: 4.3; Label: Dangerous When Wet (UN 2968)

SAFETY PROFILE: Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. A

fungicide. May ignite spontaneously in air. When heated to decomposition it emits highly toxic fumes of NO_x and SO_x. See also MANGANESE COMPOUNDS and CARBAMATES.

MAS750 CAS: 7782-64-1 HR: 3 MANGANESE(II) FLUORIDE

mf: F₂Mn mw: 92.94

PROP: Pink, tetragonal crystals or reddish powder. Mp: 856°, d: 3.98. Insol in alc; sol in dilute hydrofluoric acid, concentrated hydrochloric or nitric acid. Sltly sol in water.

SYNS: MANGANESE FLUORIDE □ MANGANESE FLUORURE (FRENCH)

TOXICITY DATA with REFERENCE:

scu-frg LDLo:224 mg/kg CRSBAW 124,133,37

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

OSHA PEL: TWA 2.5 mg(F)/m³; Cl 5 mg(Mn)/m³

ACGIH TLV: TWA 2.5 mg(F)/m³; BEL: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift; TWA 0.03 mg(Mn)/m³

NIOSH REL: TWA 2.5 mg(F)/m³

SAFETY PROFILE: Poison by subcutaneous route.

When heated to decomposition it emits toxic fumes of F⁻. See also MANGANESE COMPOUNDS and FLUORIDES.

MAS800 CAS: 6485-39-8 HR: D MANGANESE GLUCONATE

mf: C₁₂H₂₂MnO₁₄•2H₂O mw: 481.27

PROP: Slightly pink powder. Sol in hot water; very sltly sol in alc.

SAFETY PROFILE: When heated to decomposition emits toxic fumes of manganese.

MAS810 HR: D MANGANESE GLYCEROPHOSPHATE

mf: C₃H₇MnO₆P•xH₂O mw: 225.00

PROP: White or pink powder; odorless and tasteless. Sol in citric acid solution. Sltly sol in water; insol in alc.

SAFETY PROFILE: When heated to decomposition emits toxic fumes of manganese.

MAS815 CAS: 10043-84-2 HR: D MANGANESE HYPOPHOSPHITE

mf: Mn(PH₂O₂)•xH₂O mw: 184.91

PROP: Pink granular or crystalline powder; odorless and tasteless. Sol in water, alc.

SAFETY PROFILE: When heated to decomposition emits toxic fumes of manganese.

MAS818 HR: D MANGANESE LINOLEATE

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

MAS820 CAS: 1336-93-2 HR: D MANGANESE NAPHTHENATE

SYN: NAPHTHENIC ACIDS, MANGANESE SALTS

TOXICITY DATA with REFERENCE:

orl-rat LD50:>6 g/kg AMIHAB 12,477,55

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

**MAS900 CAS: 10377-66-9 HR: 2
MANGANESE(II) NITRATE**

DOT: UN 2724

mf: $\text{N}_2\text{O}_6 \cdot \text{Mn}$ mw: 178.96

SYNS: MANGANESE DINITRATE □ MANGANESE NITRATE

□ MANGANESE NITRATE (DOT) □ MANGANESE(2+)

NITRATE □ MANGANESE (II) NITRATE, ANHYDROUS □

MANGANOUS DINITRATE □ MANGANOUS NITRATE □

NITRIC ACID, MANGANESE(2+) SALT

TOXICITY DATA with REFERENCE:

dnr-bcs 50 mmol/L MUREAV 31,185,75

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 0.03 mg(Mn)/m³

DOT CLASSIFICATION: 5.1; Label: Oxidizer

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**MAT250 CAS: 1344-43-0 HR: 2
MANGANESE(II) OXIDE**

mf: MnO mw: 70.94

PROP: Grass-green powder. D: 5.45, mp: 1850°, converted to Mn_3O_4 if heated in air. Thermal decomp of MnCO_3 at 420–422° produces pyrophoric MnO which rapidly becomes brown. Basic oxide: insol in H_2O . Relatively easily reduced to Mn by metals but not by H_2 or CO. Sol in acids. Insol in water.

SYNS: CASSEL GREEN □ C.I. 77726 □ MANGANESE GREEN □

MANGANESE MONOXIDE □ MANGANOUS OXIDE □ NU-

MANESE □ ROSENTHIEL

TOXICITY DATA with REFERENCE:

itr-rat LD:>50 mg/kg GISAAA 20(1),25,55

scu-mus LD50:1000 mg/kg ZVKOA6 19,186,74

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

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 0.03 mg(Mn)/m³

SAFETY PROFILE: Moderately toxic by intratracheal and subcutaneous routes. Violent reaction with hydrogen peroxide, $\text{Ca}(\text{OCl})_2$, F_2 , H_2O_2 . See also MANGANESE COMPOUNDS.

**MAT500 CAS: 1317-34-6 HR: 2
MANGANESE(III) OXIDE**

mf: Mn_2O_3 mw: 157.88

PROP: Fine, black powder. D: 4.50, mp: 871–887° (decomp). Insol in water; sol in HCl, evolving chlorine.

SYNS: CASSEL BROWN □ C.I. 77727 □ C.I. NATURAL BROWN

8 □ COLOGNE EARTH □ COLOGNE UMBER □ CULLEN

EARTH □ DIMANGANESE TRIOXIDE □ MANGANESE

MANGANATE □ MANGANESE SESQUIOXIDE □ MANGANESE

TRIOXIDE □ MANGANIC OXIDE □ RUBENS BROWN □

SOLUBLE VAN DYKE BROWN □ VAN DYKE BROWN □

WALNUT STAIN

TOXICITY DATA with REFERENCE:

itr-rat LDLo:100 mg/kg GISAAA 20(1),25,55

scu-mus LD50:616 mg/kg ZVKOA6 19,186,74

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

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 0.03 mg(Mn)/m³

SAFETY PROFILE: Moderately toxic by subcutaneous and intratracheal routes. See also MANGANESE COMPOUNDS.

**MAT750 CAS: 12057-92-0 HR: 3
MANGANESE(VII) OXIDE**

mf: Mn_2O_7 mw: 221.88

PROP: Oil with a green metallic luster, red by transmitted, green by reflected light, purple vapor. Hygroscopic. Mp: 5.9°. Sol in freons and SO_2Cl_2 . Reacts slowly with CCl_4 .

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

SAFETY PROFILE: An unstable explosive sensitive to friction, impact or heating above 40°C. As sensitive as mercury fulminate. Explodes on contact with organic materials (e.g., solvents, oils, fats, fibers, grease). A powerful oxidizer. See also MANGANESE COMPOUNDS.

**MAT899 CAS: 13770-16-6 HR: 3
MANGANESE(II) PERCHLORATE**

mf: $\text{Cl}_2\text{O}_8\text{Mn}$ mw: 253.84

PROP: White powder. Sol in H_2O , MeOH, MeCN, DMF, and DMSO.

SAFETY PROFILE: Explodes when heated to 195°C. Explosive reaction with 2,2-dimethoxypropane above 65°C. See also MANGANESE COMPOUNDS and PERCHLORATES.

**MAU000 CAS: 15364-94-0 HR: 3
MANGANESE PERCHLORATE HEXAHYDRATE**

mf: $\text{Cl}_2\text{O}_8 \cdot \text{Mn} \cdot 6\text{H}_2\text{O}$ mw: 361.96

SYNS: PERCHLORIC ACID, MANGANESE(2+) SALT, HEXAHYDRATE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:410 mg/kg JAFCAU 14,512,66

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

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 0.03 mg(Mn)/m³

DOT CLASSIFICATION: 5.1; Label: Oxidizer

SAFETY PROFILE: Moderately toxic by intraperitoneal route. The perchlorate is a powerful oxidizer. Explodes. Incompatible with 2,2-dimethoxypropane. When heated to decomposition it emits toxic fumes of Cl^- . See also MANGANESE COMPOUNDS.

MAU250 CAS: 7785-87-7 HR: 3

MANGANESE(II) SULFATE (1:1)mf: $O_4S \cdot Mn$ mw: 151.00

PROP: Pink granular powder or pale pink crystals; odorless. Thermally very stable. Mp: 700°, bp: decomp @ 850°, d: 3.25. Very sol in water, more so in boiling water; sltly sol in MeOH and EtOH; insol in alc.

SYNS: MANGANOUS SULFATE □ MAN-GRO □ NCI-C61143 □ SORBA-SPRAY Mn □ SULFURIC ACID, MANGANESE(2+) SALT

TOXICITY DATA with REFERENCE:

mmo-omi 10 mmol/L JMOBAK 14,453,65

mrc-smc 40 μmol/L MUREAV 137,47,84

ipr-mus TDLo:660 mg/kg/8W-I:NEO CNREA8 36,1744,76

ipr-mus LD50:332 mg/kg COREAF 256,1043,63

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

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 0.03 mg(Mn)/m³

SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of SO₂, SO₃, and Mn oxides. See also MANGANESE COMPOUNDS and SULFATES.

**MAU300 CAS: 10034-96-5 HR: 2
MANGANESE SULFATE MONOHYDRATE**mf: $O_4S \cdot Mn \cdot H_2O$ mw: 169.02

PROP: Pale red, slightly efflorescent crystals. D: 2.950, mp: >400°. Sol in water: 50–100 mg/mL @ 21°

SYNS: MANGANESE, MONOSULFATE, MONOHYDRATE □ MANGANESE(2+) SULFATE MONOHYDRATE □ MANGANOUS SULFATE MONOHYDRATE □ SULFURIC ACID, MANGANESE(2+) SALT (1:1), MONOHYDRATE

TOXICITY DATA with REFERENCE:

mmo-smc 40 μmol/L MUREAV 137,47,84

cyt-ham:ovr 180 mg/L EMMUEG 10(Suppl 10),1,87

CONSENSUS REPORTS: Reported in NTP Carcinogenesis studies (feed); Equivocal Evidence: mouse NTPTR* NTP-TR-428,93; (feed); No Evidence: rat NTPTR* NTP-TR-428,93.

ACGIH TLV: TWA 0.03 mg(Mn)/m³

SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen. Mutation data reported. When heated to decomposition it emits toxic vapors of SO_x and Mn.

**MAU750 CAS: 10101-68-5 HR: 2
MANGANESE(II) SULFATE TETRAHYDRATE (1:1:4)**mf: $O_4S \cdot Mn \cdot 4H_2O$ mw: 223.08

PROP: Pink crystals.

SYN: SULFURIC ACID, MANGANESE (2+) SALT (1:1) TETRAHYDRATE

TOXICITY DATA with REFERENCE:

dni-mus-ipr 20 g/kg ARGEAR 51,605,81

ipr-mus LD50:534 mg/kg BCPA6 15,1691,66

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

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 0.03 mg(Mn)/m³

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x. See also MANGANESE COMPOUNDS.

MAV100**HR: D****MANGANESE TALLATE**

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

MAV250**CAS: 12032-88-1****HR: 2****MANGANESE(II) TELLURIDE**

mf: MnTe mw: 182.54

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

PROP: Dissolves in concentrated HNO₃. Mp: 1170°.

SAFETY PROFILE: Reacts violently with lithium when heated to 230°C. When heated to decomposition it emits toxic fumes of Te. See also TELLURIUM and MANGANESE COMPOUNDS.

MAV550**CAS: 1317-35-7****HR: 2****MANGANESE TETROXIDE**mf: Mn₃O₄ mw: 228.82

PROP: Brownish-black powder or black crystals or dark red powder when finely divided. Reacts with F₂ to give MnF₃ and some MnF₂. D: 4.7. Insol in water; sol in HCl, liberating chlorine.

SYNS: MANGANESE OXIDE □ MANGANOMANGANIC OXIDE □ TRIMANGANESE TETRAOXIDE □ TRIMANGANESE TETROXIDE

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

OSHA PEL: TWA 1 mg(Mn)/m³

ACGIH TLV: TWA 1 mg(Mn)/m³

DFG MAK: 1 mg/m³

SAFETY PROFILE: Experimental reproductive effects. Reacts violently @ <100°. See also MANGANESE COMPOUNDS.

MAV000**CAS: 18820-29-6****HR: 3****MANGANESE(II) SULFIDE**

mf: MnS mw: 87.00

PROP: Green (alpha) or red (beta or gamma). Mp: 1610°.

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

SAFETY PROFILE: The dry red sulfide becomes red-hot on exposure to air. When heated to decomposition it emits toxic fumes of SO_x. See also MANGANESE COMPOUNDS and SULFIDES.

MAV500**HR: 3****MANGANESE(II) TETRAHYDROALUMINATE**mf: Al₂H₈Mn mw: 116.96

PROP: Decomp @ -80°C.

CONSENSUS REPORTS: Manganese and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Highly unstable; ignites in moist air. See also MANGANESE COMPOUNDS.

MAV750 CAS: 12108-13-3 HR: 3
MANGANESE TRICARBONYL METHYLCYCLOPENTADIENYL

mf: $C_9H_7MnO_3$ mw: 218.10

PROP: Yellow liquid. D: 1.388 @ 20°/4°, mp: 1.5°, bp: 233°. Almost insol in H_2O ; misc in nonpolar solvs.

SYNS: AK-33X □ ANTIKNOCK-33 □ CI-2 □ COMBUSTION IMPROVER-2 □ MANGANESE, (METHYLCYCLOPENTADIENYL)TRICARBONYL- □ METHYLCYCLOPENTADIENYL MANGANESE TRICARBONYL □ METHYLCYCLOPENTADIENYL MANGANESE TRICARBONYL (OSHA) □ 2-METHYLCYCLOPENTADIENYL MANGANESE TRICARBONYL □ 2-METHYLCYCLOPENTADIENYL MANGANESE TRICARBONYL (ACGIH) □ METHYLCYCLOPENTADIENYLTRICARBONYLMANGANUM □ MMT □ TRICARBONYL(METHYLCYCLOPENTADIENYL)MANGANESE

TOXICITY DATA with REFERENCE:

skn-rbt 100 mg/24H MLD AEHLAU 30,168,75
 orl-rat LD50:50 mg/kg TXAPA9 56,353,80
 ihl-rat LC50:76 mg/m³/4H AIHAAP 40,164,79
 ipr-rat LD50:23 mg/kg TXAPA9 56,353,80
 ipr-rat LD50:12 mg/kg TOLED5 39,1,87
 ihl-mus LC50:58,600 µg/m³/4H SAIGBL 20,553,78
 ipr-mus LD50:152 mg/kg SKIZAB 34,183,78
 orl-dog LDLo:620 mg/kg SKIZAB -,76
 ihl-dog LCLo:489 mg/m³/2H SKIZAB -,76
 ivn-dog LDLo:10 mg/kg SKIZAB -,76
 skn-rbt LD50:140 mg/kg AIHAAP 40,164,79

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

OSHA PEL: TWA 0.2 mg(Mn)/m³ (skin)

ACGIH TLV: TWA 5 mg(Mn)/m³

SAFETY PROFILE: Poison by ingestion, inhalation, skin contact, intravenous, and intraperitoneal routes. A skin irritant. When heated to decomposition it emits toxic fumes of CO. See also MANGANESE COMPOUNDS and CARBONYLS.

MAW000 CAS: 7783-53-1 HR: 3
MANGANESE TRIFLUORIDE

mf: F_3Mn mw: 111.93

PROP: Red mass or red-purple solid; monoclinic crystals; thermally stable but instantly hydrol by traces of moisture. D: 3.54. Stable @ 600°. In anhydrous HF its solubility is 0.164g/100ml at 11°. Readily sol in H_2O .

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

SAFETY PROFILE: Poison irritant. A powerful fluorinating agent. Violent reaction when heated with glass. When heated to decomposition it emits toxic fumes of F⁻. See also FLUORIDES and MANGANESE COMPOUNDS.

MAW100 CAS: 87-78-5 HR: 3

MANNITOL

mf: $C_6H_{14}O_6$ mw: 182.20

TOXICITY DATA with REFERENCE:

ivn-man TDLo:5714 mg/kg:BAH,GIT,SYS NPRNAY 45,233,1987

ivn-rat LD50:25,800 µL/kg YAKUD5 9,759,1967

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

MAW250 CAS: 15825-70-4 HR: 3
MANNITOL HEXANITRATE

DOT: UN 0133

mf: $C_6H_8N_6O_{18}$ mw: 452.17

PROP: Colorless crystals or needles from EtOH. Bp: explodes @ 120°, d: 1.603 @ 0°. Mp: 106–108°. Long needles in regular clusters from alc. Sol in alc and ether; insol in water.

SYNS: DILANGIL □ HEXANITROL □ HYPERTENAIN □ MANEXIN □ MANHEXIN □ MANICOLE □ MANITE □ MANNEX □ MANNITOL HEXANITRATE (dry) (DOT) □ MANNITOL HEXANITRATE, wetted with not <40% water, by weight or mixture (NA 0133) (DOT) □ d-MANNITOL HEXANITRATE □ MANNITRIN □ MAXITATE □ MEDEMANOL □ NITRANITOL □ NITRO MANNITE □ NITROMANNITE (dry) (DOT) □ NITROMANNITE, wetted with not <40% water, by weight or mixture (NA 0133) (DOT) □ NITROMANNITOL □ SDM No. 5

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden (dry); DOT Class: EXPLOSIVE 1.1A; Label: EXPLOSIVE 1.1A

SAFETY PROFILE: Moderately toxic by ingestion and inhalation causing a fall in blood pressure that may result in weakness, headache, and dizziness. Chronic exposure may produce methemoglobinemia with cyanosis. A powerful explosive sensitive to shock or heat. Upon decomposition it emits toxic fumes of NO_x. See also NITRATES and EXPLOSIVES, HIGH.

MAW500 CAS: 576-68-1 HR: 3
MANNOMUSTINE

mf: $C_{10}H_{22}Cl_2N_2O_4$ mw: 305.24

PROP: A solid. Mp: 278° (decomp).

SYNS: 1,6-BIS(CHLOROETHYLAMINO)-1,6-BIS-DEOXY-d-MANNITOL □ 1,6-BIS(CHLOROETHYLAMINO)-1,6-DIDEOXY-d-MANNITE □ 1,6-BIS((β-CHLOROETHYL)AMINO)-1,6-DIDEOXY-d-MANNITOL □ 1,6-BIS((2-CHLOROETHYL)AMINO)-1,6-DIDEOXY-d-MANNITOL □ DEGRANOL □ MANNIT-LOST (GERMAN) □ MANNIT-MUSTARD (GERMAN) □ MANNITOL NITROGEN MUSTARD

TOXICITY DATA with REFERENCE:

dni-hmn:lym 100 µmol/L AGACBH 4,117,74
 ipr-rat LD50:56 mg/kg ARZNAD 11,143,61
 ivn-rat LD50:56 mg/kg ARZNAD 20,146,70
 ivn-mus LD50:90 mg/kg ANYAA9 68,879,58
 ivn-dog LD50:50 mg/kg ANYAA9 68,879,58
 ivn-rbt LD50:50 mg/kg ANYAA9 68,879,58
 ivn-gpg LDLo:20 mg/kg ANYAA9 68,879,58

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Human mutation data reported. An antineoplastic agent. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.

MAW750 CAS: 551-74-6 HR: 3**MANNOMUSTINE DIHYDROCHLORIDE**mf: $C_{10}H_{23}Cl_2N_2O_4 \cdot 2ClH$ mw: 378.13**PROP:** Crystals from 80% ethanol. Mp: 239–241° (decomp). Sol in water; sltly sol in ethanol.**SYNS:** 1,6-BIS-(CHLOROETHYLAMINO)-1,6-DESOXY-d-MANNITOLDIHYDROCHLORIDE □ 1,6-BIS-(CHLOROETHYL-AMINO)-1,6-DIDEOXY-d-MANNITOLDIHYDROCHLORIDE □ 1,6-DIDEOXY-1,6-DI(2-CHLOROETHYLAMINO)-d-MANNITOLDIHYDROCHLORIDE □ MANNITOL MUSTARD DIHYDROCHLORIDE □ NSC-9698**TOXICITY DATA with REFERENCE:**

cyt-hmn:lym 10 μ mol/L IPPABX 17,131,81
 sce-hmn:lym 3 μ mol/L IPPABX 17,131,81
 dnd-mus-ipr 200 mg/kg FOBLAN 25,380,79
 hma-mus/esc 1 mg/kg MUREAV 21,190,73
 ipr-mus TDLo:23 mg/kg/4W:CAR JNCIAM 36,915,66
 ipr-mus TDLo:7265 μ g/kg/4W-I:NEO JNCIAM 36,915,66
 par-rat LD50:56 mg/kg RRCRBU 52,76,75
 scu-mus LD50:120 mg/kg RFECAC 7,296,62
 ivn-dog LDLo:7600 μ g/kg CCSUBJ 2,201,65
 ivn-mky LDLo:15 mg/kg CCSUBJ 2,201,65

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 9,157,75.**SAFETY PROFILE:** Poison by intravenous, subcutaneous, and parenteral routes. Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Human mutation data reported. A drug used for the treatment of malignant neoplasms. When heated to decomposition it emits very toxic fumes of HCl and NO_x . See also MANNOMUSTINE.**MAW800 CAS: 7518-35-6 HR: 2****MANNOSULFAN**mf: $C_{10}H_{22}O_{14}S_4$ mw: 494.56**PROP:** A solid. Mp: 114–115°.**SYNS:** 1,2,5,6-TETRAMESYL-d-MANNITOL □ 1,2,5,6-TETRAMETHANESULFONATE-d-MANNITOL (9CI) □ 1,2,5,6-TETRAMETHANESULFONYL-d-MANNITOL □ R-52 □ TETRA-o-METHYL-SULPHONYL-d-MANNITOL □ TMSM □ ZITOSTOP**TOXICITY DATA with REFERENCE:**

mno-sat 1 mg/plate CNREA8 43,4530,83
 oms-hmn:leu 500 μ g/L AMSHAR 16,463,68
 sce-ham:oth 420 μ g/L CNREA8 43,4530,83
 ipr-rat LD50:2300 mg/kg ARZNAD 23,961,73

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Human mutation data reported. When heated to decomposition it emits toxic fumes of SO_x . See also SULFONATES.**MAW850 CAS: 10347-81-6 HR: 3****MAPROTILINE HYDROCHLORIDE**mf: $C_{20}H_{23}N \cdot ClH$ mw: 313.90**PROP:** Crystals from 2-propanol. Mp: 230–232°.**SYNS:** BA 34276 □ CIBA 34 □ CIBA 34276 BA □ CIBA 34276 HYDROCHLORIDE □ LUDIOMIL □ 1-(3-METHYLAMINO-PROPYL)DIBENZO(b,e)BICYCLO(2,2,2)OCTADIENE HYDROCHLORIDE □ 9-(γ -METHYLAMINOPROPYL)-9,10-DIHYDRO-9,10-ETHANOANTHRACENE HYDROCHLORIDE □ N-

METHYL-9,10-ETHANOANTHRACENE-9(10H)-PROPANAMINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:20 mg/kg:BAH,CVS AJEMEN 2,144,84
 orl-wmn TDLo:7 mg/kg/1W-I JCPYDR 3,264,83
 orl-man TDLo:490 μ g/kg JCLPDE 47,210,86
 orl-hmn TDLo:17 mg/kg:CNS BMJOAE 1,1573,77
 orl-wmn TDLo:75 mg/kg:BAH,CVS ICMED9 11,220,85
 orl-cld TDLo:12 mg/kg:CVS,PUL AJEMEN 6,247,88
 orl-rat LD50:760 mg/kg BCFAAI 112,601,73
 ipr-rat LD50:72 mg/kg BCFAAI 112,601,73
 scu-rat LD50:170 mg/kg BCFAAI 112,601,73
 ivn-rat LD50:35 mg/kg JZKEDZ 1,207,75
 orl-mus LD50:480 mg/kg JZKEDZ 1,207,75
 scu-mus LD50:310 mg/kg JZKEDZ 1,207,75
 ivn-mus LD50:31 mg/kg BCFAAI 112,601,73
 orl-dog LDLo:20 mg/kg BCFAAI 112,601,73
 ivn-dog LD50:20 mg/kg BCFAAI 112,782,73
 ivn-cat LDLo:30 mg/kg BCFAAI 112,601,73
 ivn-rbt LDLo:20 mg/kg BCFAAI 112,601,73

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Human systemic effects: arrhythmias, coma, convulsions, distorted perceptions, general anesthesia, hallucinations, pulse rate increase, respiration changes. An experimental teratogen. Experimental reproductive effects. An antidepressant. When heated to decomposition it emits toxic fumes of NO_x and HCl.**MAW875 CAS: 2212-99-9 HR: 3****MARASMIC ACID**mf: $C_{16}H_{20}O_4$ mw: 276.36**PROP:** Crystals. Mp: 173–174°.**TOXICITY DATA with REFERENCE:**

mno-sat 50 μ g/disc JANTAJ 36,155,83
 dni-omi 100 mg/L JANTAJ 36,155,83
 dni-mus:ast 3 mg/L JANTAJ 36,155,83
 oms-mus:ast 3 mg/L JANTAJ 36,155,83
 ivn-mus LD50:25 mg/kg 85GDA2 6,113,81

SAFETY PROFILE: Poison by intravenous route. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MAX000 CAS: 63710-10-1 HR: 3****MARCELLOMYCIN**mf: $C_{42}H_{55}NO_{17}$ mw: 845.98**PROP:** Red-orange needles from MeCN or yellow solid. Mp: 145–147°.**SYNS:** ANTIBIOTIC MA 144U2 □ RHODIRUBIN E**TOXICITY DATA with REFERENCE:**

dnd-rat:ivr 11,300 nmol/L MOPMA3 14,290,78
 dni-mus:leu 950 nmol/L JANTAJ 34,1596,81
 oms-mus:leu 50 nmol/L JANTAJ 34,1596,81
 ipr-mus LD50:10,506 μ g/kg JANTAJ 30,519,77
 ivn-mus LD50:15,734 μ g/kg DCTODJ 6,21,83
 ivn-dog LDLo:2952 μ g/kg DCTODJ 6,21,83

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

MAX275 CAS: 303-25-3 HR: 3**MAREZINE HYDROCHLORIDE**mf: $C_{18}H_{22}N_2 \cdot ClH$ mw: 302.88

SYNS: N-BENZHYDRYL-N'-METHYLPIPERAZINE HYDROCHLORIDE □ N-BENZHYDRYL-N'-METHYLPIPERAZINE MONOHYDROCHLORIDE □ CYCLIZINE CHLORIDE □ CYCLIZINE HYDROCHLORIDE □ (±)-1-DIPHENYLMETHYL-4-METHYLPIPERAZINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:165 mg/kg JPETAB 112,297,54

ipr-mus LD50:58 mg/kg PHMGBN 13,241,75

ims-pgn LD50:106 mg/kg JAPMA8 46,140,57

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

MAX875 HR: D**MARJORAM OIL**

PROP: From steam distillation of the herb *Marjoram hortensis* L. (Fam. *Labiatae*). Yellow to green-yellow liquid; spicy odor. Sol in fixed oils, mineral oil, partly sol in propylene glycol; insol in glycerin.

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

MBU500 CAS: 8015-01-8 HR: 1**MARJORAM OIL, SPANISH**

PROP: Main constituent is cineole. From steam distillation of the flowering plant material from the shrub *Thymus mastichina* L. (Fam. *Labiatae*) (FCTXAV 14,443,76). Faintly yellow liquid. D: 0.904–0.920, refr index: 1.463 @ 20°. Sol in fixed oils. Insol in glycerin, propylene glycol, mineral oil.

SYNS: OIL OF MARJORAM, SPANISH □ SPANISH MARJORAM OIL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,467,76

orl-rat LD50:>5 g/kg FCTXAV 14,467,76

skn-rbt LD50:>5 g/kg FCTXAV 14,467,76

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.

MBU525 CAS: 13849-08-6 HR: D**(+)-MARMESIN**mf: $C_{14}H_{14}O_4$ mw: 246.28

SYNS: 7H-FURO(3,2-G)(1)BENZOPYRAN-7-ONE,2,3-DIHYDRO-2-(1-HYDROXY-1-METHYLETHYL)-, (S)- □ MARMESIN □ 7H-FURO(3,2-G)(1)BENZOPYRAN-7-ONE, 2,3-DIHYDRO-2-(1-HYDROXY-1-METHYLETHYL)-, (S)-(+)- □ (S)-MARMESIN □ S-(+)-MARMESIN

TOXICITY DATA with REFERENCE:

mic-sat 1040 ng/plate JTEHD6 13,521,1984

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

MBU550 HR: 2**MARSH MARIGOLD**

PROP: Perennial herbs with large kidney-shaped leaves and long hollow stems. It produces yellow or white flowers in the spring. Various species grow wild in the region bounded by North Carolina, Washington and Alaska.

SYNS: BULL FLOWER □ CALTHA (VARIOUS SPECIES) □ C. LEPTOSEPALA □ COWSLIP □ C. PALUSTRIS □ GOOLS □ HORSE BLOB □ KINGCUP □ MAY BLOB □ MEADOW BRIGHT □ POPULAGE □ SOLDIER'S BUTTONS □ SOUCI d'EAU (CANADA) □ WATER GOGGLES

SAFETY PROFILE: All parts of the mature plant contain the direct irritant protoanemonin. The immature plant is edible if boiled. Chewing any part of the plant may cause inflammation and blistering of the mouth and throat. Ingestion may cause vomiting and diarrhea with blood.

MBU750 HR: 2**MARSH ROSEMARY EXTRACT**

PROP: Tannin containing extract of root (JNCIAM 57,207,76).

SYNS: LIMONIUM NASHII □ TANNIN from LIMONIUM NASHII □ TANNIN from MARSH ROSEMARY

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

MBU775 CAS: 78354-52-6 HR: 1**MARZULENE S**mf: $C_{15}H_{18}O_3S \cdot C_5H_{10}N_2O_3 \cdot Na$ mw: 447.55**TOXICITY DATA with REFERENCE:**

orl-rat LD50:14,730 mg/kg KSRNAM 11,510,77

orl-mus LD50:10,180 mg/kg KSRNAM 11,510,77

SAFETY PROFILE: Slightly toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x , NO_x , and Na_2O .

MBU776 CAS: 137354-65-5 HR: 3**MAST CELL DEGRANULATING PEPTIDE (VESPA BASALIS)**

PROP: Isolated from the venom of the Taiwan hornet *Vespa basalis* TOXIA6 mf: $C_{78}H_{138}N_{20}O_{16}$ mw: 1612.08

SYNS: MASTOPARAN B □ H-1-L-LEU-2-L-LYS-3-I-LEU-4-I-LYS-5-I-SER-6-I-ILE-7-I-VAL-8-I-SER-9-I-TR-P-10-I-ALA-11-I-LYS- □ 12-I-LYS-13-I-VAL-14-I-LEU-NH2

TOXICITY DATA with REFERENCE:

ivn-rat TDLo:0.5 mg/kg TOXIA6 39,1561,2001

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

MBU777 CAS: 61789-92-2 HR: 1**MASTIC (RESIN)**

PROP: Yellow solid with balsa, amber, olibanum odor.

SYNS: LENTISQUE ABSOLUTE □ MASTIC ABSOLUTE □ PISTACIA LENTISCUS ABSOLUTE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5 g/kg FCTOD7 30,71S,92

skn-rbt LD50:>5 g/kg FCTOD7 30,71S,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.

MBU780 MASTWOOD

HR: 1

PROP: A tall tree with paired 3- to 8-inch oval leaves with a notch at the tip. It has a light gray outer bark and a pink inner bark. It bears a round fruit about 1.5 inches in diameter containing a large shelled seed. The tree is native to India and Malasia. It is a common ornamental in south Florida, Hawaii, the West Indies and Guam.

SYNS: ALEXANDRIAN LAUREL □ BEAUTYLEAF □ CALOPHYLLUM INOPHYLLUM □ INDIAN LAUREL □ KAMANI (HAWAII) □ LAURELWOOD □ MARIA GRANDE (PUERTO RICO)

SAFETY PROFILE: The seed is toxic and its ingestion may result in nausea and persistent vomiting. The sap is used as a home remedy and may cause inflammation on contact with the cornea.

MBU790 CAS: 12044-65-4 HR: 3 MAUCHERITE

mf: $\text{As}_8\text{Ni}_{11}$ mw: 1245.17

PROP: Opaque, metallic (luster). Composed of 51.86% Ni and 48.14 As.

SYNS: PLACODINE □ TEMISKAMITE

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

SAFETY PROFILE: Suspected carcinogen. When heated to decomposition it emits acrid smoke and irritating vapors.

MBU800 HR: 3 MAY APPLE

PROP: An herb which grows to 1.5 feet with 2 large (1-foot diameter) umbrella-shaped leaves. A single, white, 2-inch flower grows between the leaf and stem. The yellow-green fruit is the size and shape of an egg. Sterile plants have only one leaf.

SYNS: AMERICAN MANDRAKE □ BEHEN □ DEVIL'S APPLE □ HOG APPLE □ INDIAN APPLE □ PODOPHYLLUM PELTATUM □ RACCOON BERRY □ UMBRELLA LEAF □ WILD JALAP □ WILD LEMON

SAFETY PROFILE: The whole plant contains the poisons podophylloresin (a purgative), its glucoside, and α - and β -peltatin (an antimetabolic). The fruit is less poisonous. Ingestion of plant parts or extracts causes vomiting and diarrhea. Ingestion of large amounts or repeated skin contact has caused: kidney failure, intestinal blockages, blood abnormalities, coma and death. Industrial workers processing the roots have experienced eye and skin irritation.

MBU820 CAS: 35846-53-8 HR: 3 MAYTANSINE

mf: $\text{C}_{34}\text{H}_{46}\text{ClN}_2\text{O}_{10}$ mw: 678.27

PROP: Mp: 171–172°. Active principle found in *Maytenus serrata* (BIHAA2 43,495,76).

SYNS: MAITANSINE □ MAYSANINE □ MAYT □ NSC-153858

TOXICITY DATA with REFERENCE:

dni-nml:emb 60 nmol/L SCIEAS 189,1002,75
dni-mus:leu 100 nmol/L BCPA6 24,751,75
oms-mus/ast 100 $\mu\text{g}/\text{kg}$ JNCIAM 60,649,78
cyt-mus/ast 100 $\mu\text{g}/\text{kg}$ JNCIAM 60,649,78
ivn-hmn TDLo:190 $\mu\text{g}/\text{kg}/5\text{D}$:GIT,CNS JNCIAM 60,93,78
scu-rat LD50:480 mg/kg CTRRDO 61,1333,77
ipr-mus LD50:245 $\mu\text{g}/\text{kg}$ NCISP* JAN86
ivn-mus LD50:1530 $\mu\text{g}/\text{kg}$ NTIS** PB82-165507

SAFETY PROFILE: A deadly poison by intraperitoneal and intravenous routes. Moderately toxic by subcutaneous route. Human systemic effects by intravenous route: hallucinations, distorted perceptions, change in motor activity, and nausea or vomiting. An experimental teratogen. Mutation data reported. Used as an antineoplastic agent. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x .

MBU825 HR: 2 MAY THORN

PROP: Small trees that may grow to 12 feet. *R. californica* is an evergreen with finely toothed leaves. It produces a fruit which contains green, black, or red seeds. It grows wild in California. *R. cathartica* has toothed leaves and scaly buds. It produces clusters of green-white flowers and a red to black fruit with 4 seeds. *R. frangula* has smooth leaves and buds. It produces flat clusters of flowers and a fruit with 3 seeds. *R. cathartica* and *R. frangula* grow wild in the northeastern United States and Canada. Other species are found throughout temperate North America.

SYNS: ALDER BUCKTHORN □ ARROW WOOD □ BERRY ALDER □ BLACK DOGWOOD □ BUCKTHORN □ CASCARA □ COFFEBERRY □ HART'S HORN □ NERPRUN (CANADA) □ PERSIAN BERRY □ PURGING BUCKTHORN □ RHAMNUS CALIFORNICA □ RHAMNUS CATHARTICA □ RHAMNUS FRANGULA □ RHINE BERRY

SAFETY PROFILE: The fruit and bark contain poisonous hydroxymethylanthraquinones. Ingestion of these plant parts may cause nausea, vomiting, and diarrhea.

MBV100 CAS: 32891-29-5 HR: 3 MAZATICOL HYDROCHLORIDE

mf: $\text{C}_{21}\text{H}_{27}\text{NO}_3\text{S}_2 \cdot \text{ClH}$ mw: 442.07

SYNS: GLYCOLIC ACID, 2,2-DI-2-THIENYL-, 6,6,9-TRIMETHYL-9-AZABICYCLO(3.3.1)NON-3-YL ESTER, HCl □ PG-501

TOXICITY DATA with REFERENCE:

orl-rat LD50:1182 mg/kg IYKEDH 7,614,76
ipr-rat LD50:104 mg/kg KSRNAM 6,2448,72
ivn-rat LD50:12,900 $\mu\text{g}/\text{kg}$ NYKZAU 67,387,71
orl-mus LD50:263 mg/kg NYKZAU 67,387,71
ipr-mus LD50:168 mg/kg IYKEDH 7,614,76
scu-mus LD50:521 mg/kg IYKEDH 7,614,76
ivn-mus LD50:20,200 $\mu\text{g}/\text{kg}$ IYKEDH 7,614,76

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

MBV250 CAS: 22232-71-9 HR: 3**MAZINDOL**mf: C₁₆H₁₃ClN₂O mw: 284.76**PROP:** Crystals from acetone-hexane. Mp: 198–199°.**SYNS:** 5-p-CHLOROPHENYL-2,3-DIHYDRO-5H-IMIDAZO(2,1-A)ISOINDOL-5-OL □ SA 42-548**TOXICITY DATA with REFERENCE:**

dni-hmn:fbr 600 mg/L MUREAV 169,171,86

msc-ham:lng 1 g/L MUREAV 169,171,86

orl-wmn TDLo:140 µg/kg/1W-I AJPSAO 141,1497,84

orl-rat LDLo:180 mg/kg FEPA7 27,598,68

orl-mus LD50:106 mg/kg FEPA7 27,598,68

orl-dog LDLo:9 mg/kg FEPA7 27,598,68

orl-rbt LD50:98 mg/kg FEPA7 27,598,68

SAFETY PROFILE: Poison by ingestion. An experimental teratogen. Other experimental reproductive effects. Human mutation data reported. An FDA proprietary drug. An anorectic drug. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.**MBV500 CAS: 64521-14-8 HR: 2****7-MBA-3,4-DIHYDRODIOL**mf: C₁₈H₁₆O₂ mw: 264.34**SYN:** trans-3,4-DIHYDRO-3,4-DIHYDROXY-7-METHYLBENZ(a)-ANTHRACENE**TOXICITY DATA with REFERENCE:**

msc-ham:lng 1 mg/L IJCNAW 19,828,77

msc-ham:ovr 10 mg/L IJCNAW 19,828,77

mma-sat 10 µmol/L BBRC9 75,427,77

otr-mus:fbr 1 mg/L IJCNAW 19,828,77

sce-ham:ovr 4 mg/L MUREAV 129,365,84

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental neoplastigenic data by skin contact. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MBV700 HR: 2****MB PYRETHROID**mf: C₂₀H₂₂O₃ mw: 310.42**SYNS:** 2,2-DIMETHYL-3-(2-METHYLPROPYL)CYCLOPROPANECARBOXYLIC ACID-p-(METHOXYMETHYL)BENZYL ESTER □ 4-(METHYLOXY-METHYL)BENZYL CHRYSANTHEMUMMONOCARBOXYLATE**TOXICITY DATA with REFERENCE:**

eye-rbt 100 mg MLD CHYCDW 17,8,83

orl-rat LD50:900 mg/kg CHYCDW 17,8,83

orl-mus LD50:1747 mg/kg CHYCDW 17,8,83

SAFETY PROFILE: Moderately toxic by ingestion. An eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**MBV710 CAS: 25061-59-0 HR: 3****MBR 3092-42**mf: C₁₃H₇F₁₅N•CF₃O₃S mw: 611.28**SYNS:** N-(1,1-DIHYDROPERFLUOROOCOTYL)PYRIDINIUM TRIFLUOROMETHANESULFONATE □ 1-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-PENTADEC AFLUOROOCOTYL)PYRIDINIUM TRIFLUOROMETHANESULFONATE**TOXICITY DATA with REFERENCE:**

eye-rbt:100 mg JPMSAE 59,188,70

orl-rat LD50:1159 mg/kg JPMSAE 59,188,70

ipr-rat LD50:18 mg/kg JPMSAE 59,188,70

orl-mus LD50:925 mg/kg JPMSAE 59,188,70

ipr-mus LD50:30 mg/kg JPMSAE 59,188,70

SAFETY PROFILE: Poison by intraperitoneal route.Moderately toxic by ingestion. An eye irritant. When heated to decomposition it emits toxic fumes of F⁻, NO_x, and SO_x. See also SULFONATES.**MBV715 CAS: 79647-25-9 HR: 2****3-MCA-anti-9,10-DIOL-7,8-EPOXIDE**mf: C₂₁H₁₈O₃ mw: 318.39**SYN:** INDENO(7,1'6,7,8)PHENANTHRO(3,4-B)OXIRANE-2,3-DIOL, 1A,2,3,6,7,11C-HEXAHYDRO-8-METHYL-, (1as-(1A-α,2-β,3-α,11C-α))-**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating vapors.**MBV720 CAS: 10474-14-3 HR: 2****MDBCP**mf: C₄H₇Br₂Cl mw: 250.38**SYNS:** 1,2-DIBROMO-3-CHLORO-2-METHYLPROPANE □ METHYL-DBCP □ 2-METHYL-1,2-DIBROMO-3-CHLOROPROPANE**TOXICITY DATA with REFERENCE:**

msc-mus:lym 36 mg/L CBTOE2 3,391,87

orl-rat LD50:780 mg/kg TOXID9 4,20,84

ihl-rat LC50:225 ppm/6H TOXID9 4,67,84

ihl-mus LC50:227 ppm/6H TOXID9 4,67,84

SAFETY PROFILE: Moderately toxic by inhalation and ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻ and Br⁻.**MBV735 CAS: 75841-84-8 HR: 3****MDL-899**mf: C₁₄H₁₉N₅O•ClH mw: 309.84**SYN:** N-(2,5-DIMETHYL-1H-PYRROL-1-YL)-6-(4-MORPHOLINYL)-3-PYRIDAZINAMINE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2250 mg/kg ARZNAD 35,818,85

ivn-rat LD50:124 mg/kg ARZNAD 35,818,85

orl-dog LD50:2200 mg/kg ARZNAD 35,818,85

ivn-dog LD50:275 mg/kg ARZNAD 35,818,85

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and HCl.**MBV750 CAS: 2126-84-3 HR: 3****MEBANAZINE OXALATE**mf: C₈H₁₂N₂•C₂H₂O₄ mw: 226.26**SYN:** α-PHENYLETHYLHYDRAZINE OXALATE**TOXICITY DATA with REFERENCE:**

mmo-sat 4400 nmol/plate CNREA8 41,1469,81

mma-sat 4400 nmol/plate CNREA8 41,1469,81

dnr-esc 2200 nmol/plate JTEHD6 9,287,82

dnd-mus-orl 750 mg/kg/5D-C JTEHD6 9,287,82

orl-rat LD50:458 mg/kg IJNEAQ 5,125,66

orl-mus LD50:254 mg/kg IJNEAQ 5,125,66

ipr-mus LD50:138 mg/kg CNREA8 41,1469,81

scu-mus LD50:121 mg/kg IJNEAQ 5,125,66

ivn-mus LD50:85 mg/kg IJNEAQ 5,125,66

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

MBV775 CAS: 16550-39-3 HR: D
MEBANE SODIUM SALT

mf: $\text{C}_{16}\text{H}_{19}\text{O}_2\cdot\text{Na}$ mw: 266.34

SYNS: 3-ETHYL-2-METHYL-4-PHENYL-4-CYCLOHEXENE-CARBOXYLIC ACID SODIUM SALT □ 5-ETHYL-6-METHYL-4-PHENYL-3-CYCLOHEXENE-1-CARBOXYLIC ACID SODIUM SALT □ 2-METHYL-3-ETHYL-4-PHENYL- Δ^4 -CYCLOHEXENE CARBOXYLIC ACID SODIUM SALT □ ORF 4563

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Na_2O .

MBW100 CAS: 6153-33-9 HR: 3
MEBHYDROLIN NAPADISYLATE

mf: $\text{C}_{19}\text{H}_{20}\text{N}_2$ mw: 276.41

PROP: A solid. Mp: 280° (decomp). Sltly sol in H_2O , EtOH , Et_2O , and CHCl_3 .

SYN: 2,3,4,5-TETRAHYDRO-2-METHYL-5-(PHENYLMETHYL)-1H-PYRIDO(4,3-b)INDOLE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:300 mg/kg NIIRDN 6,850,82
 scu-mus LD50:150 mg/kg NIIRDN 6,850,82
 ivn-mus LD50:40 mg/kg NIIRDN 6,850,82

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

MBW250 CAS: 101809-59-0 HR: 2
MEBICAR

PROP: A compound in the group of N-alkylbis-cyclobisurea group; a psychotropic agent with properties occupying the middle position between tranquilizers and neuroleptics (RPTOAN 40,206,77).

TOXICITY DATA with REFERENCE:

ipr-rat LD50:3450 mg/kg RPTOAN 40,206,77
 ipr-mus LD50:3800 mg/kg RPTOAN 40,206,77

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

MBW500 CAS: 101809-59-0 HR: 2
MEBICAR-A

PROP: A derivative of bicyclic bis-ureas (FATOAO 40,684,77).

TOXICITY DATA with REFERENCE:

ipr-rat LD50:3450 mg/kg FATOAO 40,684,77
 ipr-mus LD50:3800 mg/kg FATOAO 40,684,77

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

MBW750 CAS: 64-55-1 HR: 3
MEBUTAMATE

mf: $\text{C}_{10}\text{H}_{20}\text{N}_2\text{O}_4$ mw: 232.28

PROP: Crystals. Mp: $77-79^\circ$. Sol in most org solvs. Very sltly sol in water.

SYNS: BUTATENSIN □ 2-sec-BUTYL-2-METHYL-1,3-PROPANE-DIOL DICARBAMATE □ 2-sec-BUTYL-2-METHYLTRIMETHYLENE DICARBAMATE □ CARBAMIC ACID-2-sec-BUTYL-2-METHYLTRIMETHYLENE ESTER □ CARBUTEN □ DICAMONYLMETHANE □ 2,2-DICARBAMYLOXYMETHYL-3-METHYLPENTANE □ DORMATE □ IPOTENSIVO □ MEBUTINA □ 2-METHYL-2-sec-BUTYL-1,3-PROPANEDIOL DICARBAMATE □ NO-PRESS □ PREAN □ SIGMAFON □ VALLENE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1160 mg/kg JPETAB 134,356,61
 ipr-rat LD50:410 mg/kg JPETAB 134,356,61
 orl-mus LD50:550 mg/kg JPETAB 134,356,61
 ipr-mus LD50:460 mg/kg JMCAR 12,462,69
 orl-bwd LD50:100 mg/kg TXAPA9 21,315,72

SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal route. An FDA proprietary drug. When heated to decomposition it emits toxic fumes of NO_x .

MBW775 CAS: 53-44-1 HR: D
MEC

mf: $\text{C}_{23}\text{H}_{32}\text{NO}_2$ mw: 354.56

SYNS: 3-METHOXY-17- β -CYANETHOXYESTRA-1,3,5(10)-TRIEN □ 3-METHOXY-17- β -CYANETHOXYOESTRA-1,3,5(10)-TRIEN □ 3-((3-METHOXYESTRA-1,3,5(10)-TRIEN-17- β -YL)OXY)PROPIONITRILE □ RS-2196

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

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

MBW778 CAS: 107538-05-6 HR: 3
S-(+)-MECAMYLAMINE

mf: $\text{C}_{11}\text{H}_{21}\text{N}$ mw: 167.29

SYNS: BICYCLO(2.2.1)HEPTAN-2-AMINE, N,2,3,3-TETRAMETHYL-, (1R,2S,4S)- □ 2-NORBORNANAMINE, N,2,3,3-TETRAMETHYL-, S-(+)-

TOXICITY DATA with REFERENCE:

scu-rat TDLo:10 mg/kg LIFSAK 69,2583,2001
 scu-rat TDLo:0.1 mg/kg LIFSAK 69,2583,2001

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

MBW780 CAS: 73561-96-3 HR: 3
MECARBENIL

mf: $\text{C}_6\text{H}_{10}\text{N}_2\text{O}_2$ mw: 142.18

SYN: o-METHYLCARBAMOYL-2-METHYLPROPENEALDOXIME

TOXICITY DATA with REFERENCE:

orl-rat LD50:79 mg/kg GISAAA 49(4),90,84
 orl-mus LD50:79 mg/kg GISAAA 49(4),90,84
 orl-rbt LD50:79 mg/kg GISAAA 49(4),90,84

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

MBX000 CAS: 26225-59-2 HR: 3
MECINARONE

mf: C₂₄H₂₇NO₆ mw: 425.52**PROP:** A solid. Mp: 88°.**SYN:** 5-(p-METHOXY-CINNAMOYL)-4,7-DIMETHOXY-6-DIMETHYLAMINOETHOXYBENZOFURAN**TOXICITY DATA with REFERENCE:**

orl-mus LD50:244 mg/kg ARZNAD 25,782,75

ivn-mus LD50:25 mg/kg DRFUD4 1,133,76

ims-mus LD50:63 mg/kg DRFUD4 1,133,76

SAFETY PROFILE: Poison by ingestion, intravenous, and intramuscular routes. When heated to decomposition it emits toxic fumes of NO_x.**MBX250 CAS: 1104-22-9 HR: 2****MECLIZINE DIHYDROCHLORIDE**mf: C₂₅H₂₇ClN₂•2ClH mw: 463.91**PROP:** A solid. Mp: 224° (decomp). Very sol in chloroform and pyridine; sltly sol in dilute acids, alc; insol in H₂O, ether.**SYNS:** ANCOLAN DIHYDROCHLORIDE □ 1-p-CHLOROBENZHYDRYL-m-METHYLBENZYLPIPERAZINE DIHYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1600 mg/kg 29ZVAB -,67,69

ipr-mus LD50:625 mg/kg JAPMA8 43,653,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.**MBX500 CAS: 36236-67-6 HR: 2****MECLIZINE HYDROCHLORIDE**mf: C₂₅H₂₇ClN₂•ClH mw: 427.45**PROP:** White, slightly yellow crystals.**SYNS:** BONINE □ 1-(p-CHLORO-α-PHENYLBENZYL)-4-(m-METHYLBENZYL)PIPERAZINE HYDROCHLORIDE □ MECLOZINE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1600 mg/kg NIIRDN 6,814,82

ipr-mus LD50:625 mg/kg NIIRDN 6,814,82

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. An FDA over-the-counter drug. When heated to decomposition it emits very toxic fumes of NO_x and Cl⁻.**MBX800 CAS: 18598-63-5 HR: 2****MECYSTEINE HYDROCHLORIDE**mf: C₄H₁₀ClNO₂S mw: 171.66**PROP:** Crystals from methanol. Mp: 140–141°.**SYNS:** ACDRIE □ ACTIOL □ ETHYL ESTER L-CYSTEINE HYDROCHLORIDE (9CI) □ L.J. 48 □ METHYL CYSTEINE HYDROCHLORIDE □ PECTITE □ VISCLAIR □ ZEOTIN**TOXICITY DATA with REFERENCE:**

orl-mus LD50:2333 mg/kg NIIRDN 6,829,82

ipr-mus LD50:1340 mg/kg NIIRDN 6,829,82

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl. See also ESTERS.**MBY000 CAS: 2898-11-5 HR: 3****MEDAZEPAM HYDROCHLORIDE**mf: C₁₆H₁₅ClN₂•ClH mw: 307.24**PROP:** Fine orange-red, crystalline powder. Very sol in H₂O, alc.**SYNS:** 7-CHLOR-2,3-DIHYDRO-1-METHYL-5-PHENYL-1H-1,4-BENZODIAZEPIN HYDROCHLORID (GERMAN) □ 7-CHLORO-2,3-DIHYDRO-1-METHYL-5-PHENYL-1H-1,4-BENZODIAZEPINE, HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:900 mg/kg TXAPA9 18,185,71

ipr-rat LD50:210 mg/kg ARZNAD 18,1542,68

scu-rat LD50:1700 mg/kg ARZNAD 18,1542,68

ivn-rat LD50:91 mg/kg KSRNAM 4,833,70

orl-mus LD50:710 mg/kg ARZNAD 18,1542,68

ipr-mus LD50:314 mg/kg KSRNAM 4,833,70

scu-mus LD50:720 mg/kg ARZNAD 18,1542,68

ivn-mus LD50:47 mg/kg KSRNAM 4,833,70

orl-rbt LD50:530 mg/kg ARZNAD 18,1542,68

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of HCl and NO_x.**MBY150 CAS: 35457-80-8 HR: 2****MEDEMYCIN**mf: C₄₁H₆₇NO₁₅ mw: 814.09**PROP:** Powder or needles from C₆H₆/hexane. Mp: 131–132°.**SYNS:** ANTIBIOTIC SF 837 □ ANTIBIOTIC SF 837 A1 □ ANTIBIOTIC SF 837 A1 □ ANTIBIOTIC YL 704 B1 □ ESPINOMYCIN A □ MIDECAMYCIN □ MIDECAMYCIN A1 □ MYDECAMYCIN □ PLATENOMYCIN B1 □ SF 837 □ TURIMYCIN P3 □ YL 704 B1**TOXICITY DATA with REFERENCE:**

orl-rat TDLo:9600 mg/kg NIIRDN 6,810,82

orl-mus TDLo:5800 mg/kg NIIRDN 6,810,82

ivn-mus LD50:1000 mg/kg 85GDA2 2,83,80

SAFETY PROFILE: Moderately toxic by intravenous route. Mildly toxic by ingestion. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**MBY500 CAS: 70441-85-9 HR: 3****2,4-MEDP**mf: C₁₄H₁₇N₃O₂•2Cl mw: 330.24**SYN:** PYRIDINIUM, 2-FORMYL-4'-METHYL-1,1'-(OXYDI-METHYLENE)DI-, DICHLORIDE, OXIME □ PYRIDINIUM,2-((HYDROXYIMINO)METHYL)-1-(((4-METHYLPYRIDINIO)-(METHOXY)METHYL)-, DICHLORIDE**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:178 mg/kg ARTODN 41,301,79

ivn-rat LD50:170 mg/kg ARTODN 41,301,79

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and Cl⁻.**MBZ000 CAS: 70441-82-6 HR: 3****4,4-MEDP**mf: C₁₄H₁₇N₃O₂•2Cl mw: 330.24**SYN:** 4-FORMYL-4'-METHYL-1,1'-(OXYDIMETHYLENE)DIPYRIDINIUM, DICHLORIDE OXIME

TOXICITY DATA with REFERENCE:

ipr-rat LD50:119 mg/kg ARTODN 41,301,79

ivn-rat LD50:100 mg/kg ARTODN 41,301,79

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

**MBZ100 CAS: 977-79-7 HR: 2
MEDROGESTONE**
mf: C₂₃H₃₂O₂ mw: 340.55**PROP:** Crystals from ether. Mp: 144–146°.

SYNS: AY-62022 □ AY 136155 □ COLPRO □ COLPRONE □ 6,17-DIMETHYLPREGNA-4,6-DIENE-3,20-DIONE □ ETOGYN □ MEDROGESTERONE □ 6-METHYL-6-DEHYDRO-17-METHYL-PROGESTERONE □ METROGESTONE □ PROTHIL

TOXICITY DATA with REFERENCE:

orl-gpg LD50:850 mg/kg USXXAM #4230702

SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes.

**MBZ120 CAS: 70161-10-3 HR: 2
MEDROXALOL HYDROCHLORIDE**
mf: C₂₀H₂₄N₂O₅•ClH mw: 408.92

SYNS: BENZAMIDE, 5-(2-((3-(1,3-BENZODIOXOL-5-YL)-1-METHYLPROPYL)AMINO)-1-HYDROXYETHYL)-2-HYDROXY-, MONOHYDROCHLORIDE □ 5-(2-((3-(1,3-BENZODIOXOL-5-YL)-1-METHYLPROPYL)AMINO)-1-HYDROXYETHYL)-2-HYDROXYBENZAMIDE HCL

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data reported. When heated to decomposition it emits toxic vapors of NO_x and HCl.

**MBZ150 CAS: 520-85-4 HR: D
MEDROXYPROGESTERONE**
mf: C₂₂H₃₂O₃ mw: 344.54**PROP:** Crystals from Me₂CO/hexane. Mp: 220–223.5°.

SYNS: FARLUTAL □ MEDROXYPROGESTERON □ 6-α-METHYL-17-α-HYDROXYPROGESTERONE □ U 8840

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

**MCA000 CAS: 71-58-9 HR: 3
MEDROXYPROGESTERONE ACETATE**
mf: C₂₄H₃₄O₄ mw: 386.58

PROP: Crystals from Me₂CO (aq). White to off-white, odorless, crystalline powder. Melting range 207–209°. Insol in water; freely sol in chloroform; sparingly sol in alc.

SYNS: 17-α-ACETOXY-6-α-METHYLPREGN-4-ENE-3,20-DIONE □ 17-ACETOXY-6-α-METHYLPROGESTERONE □ (6-α)-17-(ACETYLOXY)-6-METHYLPREG-4-ENE-3,20-DIONE □ DEPO-PROVERA □ FARLUTIN □ 17-HYDROXY-6-α-METHYLPREGN-4-ENE-3,20-DIONE ACETATE □ 17-α-HYDROXY-6-α-METHYLPREGN-4-ENE-3,20-DIONE ACETATE □ 17-α-HYDROXY-6-α-METHYLPROGESTERONE ACETATE □ 6-α-METHYL-17-α-ACETOXYPREGN-4-ENE-3,20-DIONE □ 6-α-METHYL-17-α-ACETOXYPROGESTERONE □ 6-α-METHYL-17-α-HYDROXY-PROGESTERONE ACETATE □ 6-α-METHYL-4-PREGNENE-3,20-

DION-17-α-OL ACETATE □ METIPREGNONE □ NOGEST □ ORAGEST □ PERLUTEX □ REPROMIX

TOXICITY DATA with REFERENCE:

dni-hmn:lym 50 μmol/L PSEBAA 146,401,74

ivn-wmn TDLo:10 mg/kg:EYE ADVPB4 8,103,72

ivn-wmn TDLo:21 mg/kg:EYE ADVPB4 8,103,72

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,289,87; Animal Limited Evidence IMEMDT 21,417,79; IMEMDT 6,157,74; Human Inadequate Evidence IMEMDT 21,417,79. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. Human systemic effects by intravenous route: increased intraocular pressure. Human teratogenic effects by an unspecified route: developmental abnormalities of the urogenital system. Human reproductive effects by multiple routes: spermatogenesis, menstrual cycle changes or disorders, postpartum effects, female fertility effects, abortion, newborn behavioral effects. Human mutation data reported. Experimental reproductive effects. A drug for the treatment of secondary amenorrhoea and dysfunctional uterine bleeding. When heated to decomposition it emits acrid smoke and irritating fumes.

**MCA025 CAS: 13345-50-1 HR: 3
MEDULLIN**
mf: C₂₀H₃₀O₄ mw: 334.50**PROP:** Oil.

SYNS: 7-(2-(3-HYDROXY-1-OCTENYL)-5-OXO-3-CYCLOPENTEN-1-YL)-5-HEPTENOIC ACID □ 15-HYDROXY-9-OXO-PROSTA-5,10-13-TRIEN-1-OIC ACID, (5Z,13E,15S)- (9CI) □ PGA2 □ PGA² □ 5,6-cis-PGA² □ (15S)-PGA² □ PROSTAGLANDIN A2 □ (+)-PROSTAGLANDIN A²

TOXICITY DATA with REFERENCE:

ipr-mus LD50:93 mg/kg TXAPA9 25,460,73

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

**MCA100 CAS: 7195-27-9 HR: 1
MEFRUSIDE**
mf: C₁₃H₁₉ClN₂O₅S₂ mw: 382.91

PROP: dl-Form: Crystals. Mp: 149–150°. d-Form: Crystals. Mp: 146°. l-Form: Crystals. Mp: 146°.

SYNS: B 1500 □ BAYCARON □ N-(4'-CHLORO-3'-SULFAMOYL-BENZENESULFONYL)-N-METHYL-2-AMINOMETHYL-2-METHYLTETRAHYDROFURAN □ FBA 1500 □ FDA 1902 □ MEFRUSID

TOXICITY DATA with REFERENCE:

ipr-rat LD50:9800 mg/kg KSRNAM 7,1003,73

ipr-mus LD50:5200 mg/kg KSRNAM 7,1003,73

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

**MCA250 CAS: 28022-11-9 HR: 3
MEGALOMICIN A**
mf: C₄₄H₈₀N₂O₁₅ mw: 877.26**PROP:** Needles from Me₂CO. Mp: 255–259° (decomp).

SYNS: ANTIBIOTIC W-847-A □ ANTIBIOTIC XK 41C □ MEGALOMYCIN-A

TOXICITY DATA with REFERENCE:

orl-mus LD50:7500 mg/kg 85ERAY 1,52,78

ipr-mus LD50:350 mg/kg 85ERAY 1,52,78

scu-mus LD50:7000 mg/kg 85ERAY 1,52,78

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

MCA500 CAS: 8064-66-2 HR: 3

**MEGESTROL ACETATE + ETHINYL-
ESTRADIOL**

SYNS: 17-HYDROXY-6-METHYLPREGNA-4,6-DIENE-3,20-DIONE ACETATE mixed with 19-NOR-17- α -PREGNA-1,3,5(10)-TRIEN-2-YNE-3,17-DIOL □ MEGESTROL ACETATE 4 mg, ETHINYL-ESTRADIOL 50 μ g □ MENOQUENS □ NEODELPREGNIN □ ORACONAL □ SERIAL □ TRI-ERVONUM □ VOLDYS □ VOLIDAN

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:10,584 μ g/kg/2Y-I:CAR,LIV,BLD LANCAO 1,273,80

orl-wmn TD:41 mg/kg/2Y-I:CAR,LIV BMJOAE 4,496,75

SAFETY PROFILE: Human reproductive effects by ingestion: female fertility effects. Questionable human carcinogen producing normocytic anemia and liver tumors. An oral contraceptive. When heated to decomposition it emits acrid smoke and irritating fumes.

MCA775 CAS: 58001-89-1 HR: 1

MEGLUMINE SODIUM IODAMIDE

mf: C₁₂H₁₁I₃N₂O₄·C₁₂H₁₁I₃N₂O₄·C₇H₁₇NO₅·Na mw: 1474.14

SYN: UROMIRO 380

TOXICITY DATA with REFERENCE:

ipr-rat LD50:17,900 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

SAFETY PROFILE: Mildly toxic by several routes. When heated to decomposition it emits toxic fumes of NO_x, I⁻, and Na₂O.

MCB000 CAS: 108-78-1 HR: 2

MELAMINE

mf: C₃H₆N₆ mw: 126.15

PROP: Monoclinic, colorless prisms or crystals. Mp: 347°, bp: sublimes, d: 1.573 @ 250°, vap press: 50 mm @ 315°, vap d: 4.34. Sltly sol in water. Very sltly sol in hot alc; insol in ether.

SYNS: AERO □ AMMELIDE □ CYANURAMIDE □ CYANURIC TRIAMIDE □ CYANUROTAMIDE □ CYANUROTAMINE □ CYMEL □ HICOPHOR PR □ ISOMELAMINE □ NCI-C50715 □ PLURAGARD □ PLURAGARD C 133 □ TEOHARN □ TEOHARN □ 2,4,6-TRIAMINO-s-TRIAZINE □ 2,4,6-TRIAMINO-1,3,5-TRIAZINE □ 1,3,5-TRIAZINE-2,4,6-TRIAMINE □ s-TRIAZINE, 2,4,6-TRIAMINO- □ VIRSET 656-4

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,153,72

mnt-mus-orl 1 g/kg ENMUDM 4,342,82

orl-rat LD50:3161 mg/kg TXAPA9 72,292,84

ipr-rat LDLo:3200 mg/kg 14CYAT 3,2769,82

orl-mus LD50:3296 mg/kg 14CYAT 3,2769,82

ipr-mus LDLo:800 mg/kg 14CYAT 3,2769,82

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 39,333,86. NTP Carcinogenesis Bioassay (feed); No Evidence: mouse NTPTR* NTP-TR-245,83 (feed); Clear Evidence: rat NTPTR* NTP-TR-245,83. Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An eye, skin, and mucous membrane irritant. Causes dermatitis in humans. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and CN⁻.

MCB050 CAS: 9003-08-1 HR: 2

MELAMINE, polymer with FORMALDEHYDE

mf: (C₃H₆N₆·CH₂O)_x

SYNS: ACCOBOND 3524 □ ACCOBOND 3900 □ ACCOBOND 3903 □ AEROLITE MF 15 □ AEROTEX 92 □ AEROTEX 3700 □ AEROTEX M 3 □ AEROTEX MW □ AEROTEX RESIN MW □ AEROTEX UM □ AMILAC 3 □ ARIGAL C □ ARKOFIX NM □ ASTROMEL NW 6A □ BANCEMINE 115-60 □ BANCEMINE 125-60 □ BANCEMINE SM 947 □ BANCEMINE SM 970 □ BANCEMINE SM 975 □ BASOTECT □ BC 27 □ BC 71 □ BC 336 □ BECKAMINE APH □ BECKAMINE APM □ BECKAMINE G 82 □ BECKAMINE J 101 □ BECKAMINE J 1012 □ BECKAMINE L 105-60 □ BECKAMINE J 820 □ BECKAMINE J 820-60 □ BECKAMINE MA-S □ BECKAMINE PM □ BECKAMINE PM-N □ BEETLE 336 □ BEETLE 338 □ BEETLE 3735 □ BEETLE BC 27 □ BEETLE BC 71 □ BEETLE BC 309 □ BEETLE BC 371 □ BEETLE BE 336 □ BEETLE BE 645 □ BEETLE BE 669 □ BEETLE BE 670 □ BEETLE BE 681 □ BEETLE BE 683 □ BEETLE BE 687 □ BEETLE BE 3021 □ BEETLE BE 3735 □ BEETLE BE 3747 □ BEETLE BT 309 □ BEETLE BT 323 □ BEETLE BT 336 □ BEETLE BT 370 □ BEETLE BT 670 □ BEETLE RESIN 323 □ BIOMINE 1651 □ BL 25 □ BL 35 □ BL 434 □ BMF 1 □ BMF 1 (AMINOPLAST) □ BN 30 □ B P 1 □ BUDAMIN MF 55I □ BUDAMIN MF 60I □ CA 105 □ CASSURIT HML □ CASSURIT MLP □ CASSURIT MLS □ CASSURIT MT □ CIBAMIN M 84 □ CIBAMIN M 100 □ CIBAMIN ML 100GB □ COHEDUR A □ CR 2024 □ CYMEL □ CYMEL 200 □ CYMEL 202 □ CYMEL 235 □ CYMEL 245 □ CYMEL 255 □ CYMEL 285 □ CYMEL 300 □ CYMEL 301 □ CYMEL 303 □ CYMEL 305 □ CYMEL 323 □ CYMEL 325 □ CYMEL 327 □ CYMEL 350 □ CYMEL 370 □ CYMEL 373 □ CYMEL 380 □ CYMEL 385 □ CYMEL 412 □ CYMEL 428 □ CYMEL 481 □ CYMEL 482 □ CYMEL 1080 □ CYMEL 1116 □ CYMEL 1130 □ CYMEL 1133 □ CYMEL 1135 □ CYMEL 1156 □ CYMEL 1158 □ CYMEL 1161 □ CYMEL 1168 □ CYMEL 1370 □ CYMEL 243-3 □ CYMEL 247-10 □ CYMEL 7273-7 □ CYMEL C 1156 □ CYMEL HM 6 □ CYMEL 265J □ CYMEL 266J □ CYMEL 1130-235J □ CYMEL 1130-254J □ CYMEL 1130-285J □ CYMEL 401 RESIN □ CYMEL XM 1116 □ CYREZ □ CYREZ 933 □ CYREZ 963 □ CYREZ 966 □ CYREZ 963 P □ CYREZ 963P-A □ D 100-2 □ DEGLARESIN □ DEGLARESIN N 12 □ DERICON 700 □ DIAMELKOL □ DYNOMIN MM 9 □ DYNOMIN MM 75 □ DYNOMIN MM 100 □ ELASTOFIX ACS □ EPOK U 9192 □ EPOSTAR EPS-S □ FORMALDEHYDE-MELAMINE CONDENS-ATE □ FORMALDEHYDE-MELAMINE COPOLYMER □ FORM-

ALDEHYDE-MELAMINE POLYMER □ FORMALDEHYDE-MELAMINE RESIN □ FORMALIN-MELAMINE COPOLYMER □ FORMIN K-K □ G 3 □ G 3 (RESIN) □ G 821 □ GM 3 □ GM 4 □ HICOFOR PR □ HM 100 □ J 820 □ K 121-02 □ K 421-01 □ K 421-02 □ K 421-05 □ K 423-02 □ KAURAMIN 542 □ KAURAMIN 650 □ KAURAMIN 700 □ KAURAMIN 782 □ KAURIT M 70 □ L 6504 □ L 109-65 □ L 121-60 □ LMB 357 □ LUVIPAL 066 □ LUWIPAL 012 □ LYOFIX CH □ LYOFIX CHN □ LYOFIX CHN-ZA □ LYOFIX MLF □ M 3 □ M 3 (MELAMINE POLYMER) □ M 76 □ M 76 (POLYMER) □ MADURIT 152 □ MADURIT MS □ MADURIT MW 111 □ MADURIT MW 112 □ MADURIT MW 150 □ MADURIT MW 161 □ MADURIT MW 166 □ MADURIT MW 392 □ MADURIT MW 484 □ MADURIT MW 559 □ MADURIT MW 630 □ MADURIT MW 815 □ MADURIT MW 909 □ MADURIT 5238N □ MADURIT OP □ MADURIT TN □ MADURIT VMW 3113 □ MADURIT VMW 3114 □ MADURIT VMW 3151 □ MADURIT VMW 3163 □ MADURIT VMW 3284 □ MADURIT VMW 3399 □ MADURIT VMW 3489 □ MADURIT VMW 3490 □ MADURIT VMW 3494 □ MADURIT VMW 3819 □ MADURIT VMW 3822 □ MAGNIFLOC 509C □ MAPRENAL 980 □ MAPRENAL MF □ MAPRENAL MF 590 □ MAPRENAL MF 650 □ MAPRENAL MF 900 □ MAPRENAL MF 904 □ MAPRENAL MF 910 □ MAPRENAL MF 915 □ MAPRENAL MF 920 □ MAPRENAL MF 927 □ MAPRENAL MF 929 □ MAPRENAL MF 980 □ MAPRENAL MP 500 □ MAPRENAL NPX □ MAPRENAL RT-MF 650 □ MAPRENAL TTX □ MAPRENAL VMF □ MAPRENAL VMF 52/7 □ MAPRENAL VMF 3655 □ MAPRENAL VMF 3925 □ MAPRENAL VMF 3935 □ MAXICHEM 1DTM □ MeC □ MELADUR MS 80 □ MELAFORM □ MELAFORM 45 □ MELAFORM 150 □ MELAFORM E 45 □ MELAFORM E 50 □ MELAFORM E 55 □ MELAFORM M 45S₁ □ MELAFORM WM6 □ MELAFORM WM 100 □ MELALIT □ MELAMINE 20 □ MELAMINE 366 □ MELAMINE-FORMALDEHYDE CONDENSATE □ MELAMINE-FORMALDEHYDE COPOLYMER □ MELAMINE-FORMALDEHYDE POLYMER □ MELAMINE-FORMALDEHYDE RESIN □ MELAMINE-FORMOL COPOLYMER □ MELAMINE, POLYMER with FORMALDEHYDE (8CI) □ MELAMINE RESIN □ MELAN 15 □ MELAN 20 □ MELAN 22 □ MELAN 23 □ MELAN 26 □ MELAN 27 □ MELAN 28 □ MELAN 29 □ MELAN 125 □ MELAN 220 □ MELAN 243 □ MELAN 245 □ MELAN 287 □ MELAN 445 □ MELAN 523 □ MELAN 620 □ MELAN 630 □ MELAN 2000 □ MELAN 8000 □ MELAN 21A □ MELAN 28A □ MELAN 284A □ MELAN 28D □ MELAN X 28 □ MELAN X 65 □ MELAN X 71 □ MELAPRET P □ MELAROM 3 □ MELASIL K 1 □ MELASIL K 2 □ MELASIL K3 □ MELASIL K 1S □ MELASIL U □ MELASIL U 1 □ MELASIL U 2 □ MEL-F □ MEL-IRON A □ MELOLAK B □ MELOLAK B-II □ MELOLAM □ MELOLAM 285 □ MELOPAS AMP 1 □ MELOPAS 183GF □ MELOPAS N 37601 □ MELOPLAST B □ MERKAPOL P □ MERKAPOL PG □ METAZIN 6U □ METHYLENEMELAMINE POLYCONDENSATE □ MF 004 □ MF 009 □ MF 910 □ MPAS-R 100P □ MFP 8 □ MIKRONAL S 40 □ MIRBANE 850 □ MIRBANE MR2 □ MIRBANE SM 607 □ MIRBANE SM 800 □ MIRBANE SM 850 □ ML 21 □ ML 045 □ ML 133 □ ML 630 □ ML 3120 □ MM 83 □ MM 160V30M □ MR 1 □ MR 1 (RESIN) □ MR 67 □ MR 231 □ MS 001 □ MS 21 □ MSP 100F □ MS-R 100S □ MW 30 □ M 33W □ MX 40 □ MX 705 □ NANOPLAST FB 101 □ NIKALAC 031 □ NIKALAC MS 001 □ NIKALAC MS 11 □ NIKALAC MS 21 □ NIKALAC MS 40 □ NIKALAC MW 12 □ NIKALAC MW 22 □ NIKALAC MW 30 □ NIKALAC MW 40 □ NIKALAC MW 10LF □ NIKALAC MW 12LF □ NIKALAC MW 30M □ NIKALAC MX 032 □ NIKALAC MX 40 □ NIKALAC MX 45 □ NIKALAC MX 054 □ NIKALAC MX 65 □ NIKALAC MX 430 □ NIKALAC MX 485 □ NIKALAC MX 705 □ NIKALAC MX 706 □ NIKALAC MX 750 □

NIKARESIN S 176 □ NIKARESIN S 260 □ NIKARESIN S 305 □ NIKARESIN S 306 □ NK FASTER □ ORCA 100-2 □ PAREZ 607 □ PAREZ 613 □ PAREZ 707 □ 1PC6115 □ PIAFOL □ PIAMID □ PIDIFIX 303 □ PLASKON 3369 □ PLASKON 3381 □ PLASKON 3382 □ PLYAMINE M27 □ PLYSET TD688 □ POLOMEL ME 3 □ POLOMEL MEC 3 □ POLPRETAN K 2 □ POLYFIX PM 5 □ POLYFIX PM 107 □ PRESAL R60 □ PRESSAL □ PRIOSET TD756 □ PROBAN 420B □ PROX M 3R □ PRYSKYRICE MH □ PWP 8 □ PWP 15 □ QR 483 □ RESAMIN MW 811 □ RESIMENE 714 □ RESIMENE 717 □ RESIMENE 730 □ RESIMENE 731 □ RESIMENE 740 □ RESIMENE 745 □ RESIMENE 746 □ RESIMENE 747 □ RESIMENE 750 □ RESIMENE 753 □ RESIMENE 755 □ RESIMENE 817 □ RESIMENE 841 □ RESIMENE 842 □ RESIMENE RF 4518 □ RESIMENE RF 5306 □ RESIMENE RS 466 □ RESIMENE X 712 □ RESIMENE X 714 □ RESIMENE X 720 □ RESIMENE X 730 □ RESIMENE X 735 □ RESIMENE X 740 □ RESIMENE X 745 □ RESIMENE X 764 □ RESIN 516 □ RESLOOM HP □ RESLOOM HP 50 □ RESYDROL WM 461E □ RESYDROL WM 501 □ RIDLITE MMT □ RIKEN RESIN MA 31 □ ROMHIDROL M 501 □ ROSTONE 2150 □ RR 15-12-120 □ S 260 □ S 1707 □ S 1708 □ S 1710 □ S 1711 □ S 5057 □ SA 20.16 □ SANCOAT PW701 □ SAVEMIX C 100 □ SCHERCOMEL M □ 20SE60 □ SETAMINE US 132 □ SETAMINE US 141 □ SETAMINE US 138BB70 □ SETAMINE US 139BB70 □ SK 1 □ SK 1 (PLASTICIZER) □ SLOMELAM 2 □ SM 67 □ SM 700 □ SMFPD □ SOLAPRET □ SOLAPRET MH □ SPMF 4 □ SPMF 6 □ SPMF 7 □ STANDOPAL □ SUMIFLOC CL8 □ SUMIKANOL 508 □ SUMIMAL 100 □ SUMIMAL 100C □ SUMIMAL M □ SUMIMAL M 22 □ SUMIMAL M 55 □ SUMIMAL M 70 □ SUMIMAL M 65B □ SUMIMAL M 668 □ SUMIMAL M 100C □ SUMIMAL M 504C □ SUMIMAL M 100D □ SUMIMAL M 40S □ SUMIMAL M 30W □ SUMIMAL M 40W □ SUMIMAL M 50W □ SUMIMAL M 62W □ SUMIMAL 40S □ SUMIREZ 607 □ SUMIREZ 613 □ SUMIREZ 615 □ SUMIREZ M613 □ SUMIREZ RESIN 613 □ SUMITEX m³ □ SUMITEX M6 □ SUMITEX M10 □ SUMITEX MC □ SUMITEX MK □ SUMITEX MW □ SUMITEX RESIN MC □ SUNTOP M 300 □ SUNTOP M 420 □ SUNTOP M700 □ SUNTOP M701 □ SUPER-BECKAMINE □ SUPER-BECKAMINE G 821 □ SUPER-BECKAMINE J 820 □ SUPER-BECKAMINE J 840 □ SUPER-BECKAMINE J 1600 □ SUPER-BECKAMINE L 101 □ SUPER-BECKAMINE L 105 □ SUPER-BECKAMINE L 117 □ SUPER-BECKAMINE L 121 □ SUPER BECKOSOL ODL 131-60 □ SYN-UTEX 4113E □ TANAK m³ □ TANAK MRX □ TESAZIN 3105-60 □ TESMIN 210 □ TESMIN 201-80 □ TESMIN 250-60 □ TESMIN 251-60 □ TESMIN ME 50L □ 1,3,5-TRIAZINE-2,4,6-TRIAMINE, polymer with FORMALDEHYDE (9CI) □ TYBON N 1765A □ UFORMITE MM 46 □ UFORMITE MM 47 □ UFORMITE MM 83 □ UFORMITE QR 336 □ UGM 3 □ ULOID 230 □ ULOID 344 □ ULOID U 755 □ ULOID UL213-2 □ UNICA F 730 □ UNICA 380K □ UNICA RESIN 380K □ U-RAMIN P 6100 □ U-RAMIN P 6300 □ U-RAMIN T 33 □ U-RAMIN T 34 □ U-VAN 28 □ U-VAN 62 □ U-VAN 102 □ U-VAN 120 □ U-VAN 122 □ U-VAN 128 □ U-VAN 220 □ U-VAN 221 □ U-VAN 225 □ U-VAN 2020 □ U-VAN 20HS □ U-VAN 21HV □ U-VAN 28N □ U-VAN 20N60 □ U-VAN 21R □ U-VAN 22R □ U-VAN 60R □ U-VAN 20S □ U-VAN 20SA □ U-VAN 20SB □ U-VAN 20SE □ U-VAN 28SE □ U-VAN 20SE50 □ U-VAN 20SE60 □ UV 20SR □ VIAMIN MF 514 □ VIAMIN MF 754 □ VML 2 □ VU 51-3N □ VU 59-3N □ VU 5711N □ WATERSOL S 683 □ WATERSOL S 685 □ WATERSOL S 695 □ WHITESSET □ WM 100 □ X 3387 □ X 242K □ XM 1116 □ XM 1130

TOXICITY DATA with REFERENCE:

orl-rat LD50:>10 g/kg JACTDZ 1,162,92

ivn-mus LD50:1900 µg/kg CKFRAY 15,300,66

skn-rbt LD50:>10 g/kg JACTDZ 1,162,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MCB075 CAS: 68891-01-0 HR: 1
MELAMINE, FORMALDEHYDE, TOLUENE-SULFONAMIDE POLYMER, BUTYLATED

SYNS: BENZENESULFONAMIDE, AR-METHYL-, POLYMER WITH FORMALDEHYDE AND 1,3,5-TRIAZINE-2,4,6-TRIAMINE, BUTYLATED □ BUTYLATED MELAMINE, TOLUENESULFONAMIDE, FORMALDEHYDE □ RESIMENE R-881

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL/24H MOD NTIS** OTS-545816

orl-rat LD50:>5 g/kg NTIS** OTS0545816

skn-rbt LD50:>5 g/kg NTIS** OTS0545816

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MCB100 CAS: 65454-27-5 HR: 3
MELANOMYCIN

TOXICITY DATA with REFERENCE:

ipr-mus LD50:125 mg/kg 85GDA2 4(2),238,80

scu-mus LD50:250 mg/kg 85GDA2 4(2),238,80

ivn-mus LD50:50 mg/kg 85GDA2 4(2),238,80

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

MCB250 CAS: 102418-04-2 HR: 3
MELANOSPORIN

PROP: Produced by *Streptomyces melanosporus* var. *melanosporofaciens* (85ERAY 1,256,78).

TOXICITY DATA with REFERENCE:

orl-mus LD50:350 mg/kg 85ERAY 1,257,78

ipr-mus LD50:15 mg/kg 85ERAY 1,257,78

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes.

MCB350 CAS: 73-31-4 HR: 3
MELATONIN

mf: C₁₃H₁₆N₂O₂ mw: 232.31

PROP: Pale-yellow leaflets from C₆H₆. Mp: 116–118°. A hormone of the pineal gland, also produced by extra-pineal tissues, that lightens skin color in amphibians by reversing the darkening effect of MSH (melanotropin).

SYNS: N-ACETYL-5-METHOXYTRYPTAMINE □ MELATONINE □ 5-METHOXY-N-ACETYLTRYPTAMINE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#02739

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

MCB375 CAS: 425-51-4 HR: D
MELENGESTROL ACETATE

mf: C₂₃H₃₀O₄ mw: 370.53

PROP: Crystals from Me₂CO. Mp: 227–228°.

SYNS: Δ⁶-DEHYDRO-17-ACETOXYPROGESTERONE □ Δ⁶-DEHYDRO-17-α-ACETOXYPROGESTERONE □ 17-HYDROXY-PREGNA-4,6-DIENE-3,20-DIONE ACETATE □ 17-HYDROXY-PREGNA-4,6-DIENE-3,20-DIONE ACETATE (ESTER)

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

MCB380 CAS: 2919-66-6 HR: D
MELENGESTROL ACETATE

mf: C₂₅H₃₂O₄ mw: 396.57

PROP: A solid. Mp: 224–226°.

SYNS: 17-(ACETYLOXY)-6-METHYL-16-METHYLENEPREGNA-4,6-DIENE-3,20-DIONE (9CI) □ 6-DEHYDRO-16-METHYLENE-6-METHYL-17-ACETOXYPROGESTERONE □ 17-HYDROXY-6-METHYL-16-METHYLENEPREGNA-4,6-DIENE-3,20-DIONE, ACETATE □ MGA □ MGA 100 (STEROID)

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

MCB500 CAS: 3771-19-5 HR: 3
MELIPAN

mf: C₂₀H₂₂O₃ mw: 310.42

SYNS: 2-METHYL-2-(4-(1,2,3,4-TETRAHYDRO-1-NAPHTHALEN-1-YL)PHENOXY)PROPANOIC ACID □ 2-METHYL-2-(4-(1,2,3,4-TETRAHYDRO-1-NAPHTHYL)PHENOXY)PROPANOIC ACID □ α-METHYL-α-(p-1,2,3,4-TETRAHYDRONAPHTH-1-YLPHENOXY)PROPIONIC ACID □ 2-METHYL-2-(p-(1,2,3,4-TETRAHYDRO-1-NAPHTHYL)PHENOXY)PROPIONIC ACID □ NAFENOIC ACID □ NAFENOPIN □ SU-13437 □ TPIA

TOXICITY DATA with REFERENCE:

dns-rat:lv 10 mg/L CRNGDP 5,1033,84

dni-mus:oth 100 µmol/L CNREA8 40,36,80

orl-rat TDLo:39 g/kg/92W-C:CAR JNCIAM 59,1645,77

orl-mus TDLo:56 g/kg/81W-C:CAR CNREA8 36,1211,76

orl-rat TD:33 g/kg/78W-C:ETA CNREA8 36,1211,76

orl-rat LD50:900 mg/kg TXAPA9 18,185,71

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Human Limited Evidence IMEMDT 24,125,80; Animal Sufficient Evidence IMEMDT 24,125,80.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Moderately toxic by ingestion. Mutation data reported. A drug for the treatment of hypercholesterolemia or hypertriglyceridemia. When heated to decomposition it emits acrid smoke and irritating fumes.

MCB525 CAS: 37231-28-0 HR: 3
MELITTIN

mf: C₁₃₁H₂₂₉N₃₉O₃₁ mw: 2846.99

PROP: Cream white, water-sol powder. Strongly basic polypeptide comprising 40–50% of the dried venom of the honey bee, *Apis mellifica* (*mellifera*).

SYNS: FORAPIN □ MELITTIN-I

TOXICITY DATA with REFERENCE:

dns-rat:lv 100 pmol/L CRNGDP 5,1547,84

ipr-mus LD50:5 mg/kg ARZNAD 22,1921,72
 ivn-mus LD50:4 mg/kg 85GDA2 9,170,82
 ivn-mus LD50:860 µg/kg TOXIA6 22,308,84

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

**MCB535 HR: 3
MELSMON**

PROP: Placenta preparations (NIIRDN 6,854,82).

TOXICITY DATA with REFERENCE:

scu-rat LD50:77 mg/kg NIIRDN 6,854,82
 ipr-mus LD50:66,400 mg/kg YACHDS 8,75,80
 scu-mus LD50:75,200 mg/kg YACHDS 8,75,80

SAFETY PROFILE: Poison by subcutaneous route.

**MCB550 CAS: 32887-03-9 HR: 2
MELYSIN**

mf: C₂₁H₃₃N₃O₅S•ClH mw: 476.09

PROP: A solid. Mp: 172–173°. Sol in water.

SYNS: FL-1039 □ (+)-6-(((HEXAHYDRO-1H-AZEPIN-1-YL)-METHYLENE)AMINO)-3,3-DIMETHYL-7-OXO-4-THIA-1-AZABICYCLO(3.2.0)HEPTANE-2-CARBOXYLIC ACID HYDROXYMETHYL ESTER, PIVALATE (ester), MONOHYDRO-CHLORIDE □ PIVMECILLINAM HYDROCHLORIDE □ SELEXID

TOXICITY DATA with REFERENCE:

orl-mky TDLo:57,330 mg/kg (91D male):REP JZKEDZ 2,171,76
 orl-rat LD50:9500 mg/kg NIIRDN 6,632,82
 scu-rat LD50:2100 mg/kg IYKEDH 9,1066,78
 ivn-rat LD50:465 mg/kg IYKEDH 9,1066,78
 orl-mus LD50:3020 mg/kg NIIRDN 6,632,82
 scu-mus LD50:1930 mg/kg IYKEDH 9,1066,78
 ivn-mus LD50:475 g/kg IYKEDH 9,1066,78

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

**MCB575 CAS: 130-37-0 HR: D
MENADIONE SODIUM HYDROGEN SULFITE**

mf: C₁₁H₉O₅S•Na mw: 276.25

SYNS: GOLAGEN K □ HEMOKLOT □ HETROGEN K □ HETROGE K PREMIX □ HYKINONE □ IDO-K □ KALZON □ KAVITAMIN □ KAVITAN □ KAWITAN □ KLOTOGEN □ KLOTOGEN F □ KLOTOGEN F 16 □ KLOTOGEN F 227 □ K-TROMBINA □ MENADIONE SODIUM BISULFITE □ MENAPHTHONE SODIUM BISULFITE □ MENAPHTHONE SODIUM BISULPHITE □ MSBC □ 2-NAPHTHALENESULFONIC ACID, 1,2,3,4-TETRAHYDRO-2-METHYL-1,4-DIOXO-, SODIUM SALT □ SODIUM MENADIONE BISULFITE □ 1,2,3,4-TETRA-HYDRO-2-METHYL-1,4-DIOXO-2-NAPHTHALENE-SULFONIC ACID SODIUM SALT □ VIKASOL □ VITAMIN K INJECTION □ VITAMIN K3 SODIUM BISULFITE

TOXICITY DATA with REFERENCE:

dni-hmn:leu 25 µmol/L BCPCA6 41,1283,91
 dni-hmn:oth 50 µmol/L BCPCA6 41,1283,91 BCPCA6 41,1283,91
 oth-hmn:leu 50 µmol/L BCPCA6 41,1283,91
 oth-hmn:oth 25 µmol/L BCPCA6 41,1283,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic vapors of SO_x.

**MCB600 CAS: 71628-96-1 HR: 3
MENOGAROL**

mf: C₂₈H₃₁NO₁₀ mw: 541.60

PROP: A solid. Mp: 238–240° (decomp).

SYNS: 7-CON-o-METHYLNORGAROL □ 7-o-METHYLNORGAROL □ 7(R)-o-METHYLNORGAROL □ NSC-269148 □ 7-OMEN □ U-52047

TOXICITY DATA with REFERENCE:

mnt-rat-par 1560 µg/kg/2D-I CNREA8 43,5293,83
 msc-ham:lng 100 µg/L CNREA8 43,5293,83
 ivn-rat LD50:77,400 µg/kg NTIS** PB84-148410
 ipr-mus LD50:83,500 µg/kg NTIS** PB84-148410

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

**MCB625 HR: D
MENTHA ARVENSIS, OIL**

PROP: From *Mentha arvensis* var. *piperascens* Holmes (forma *piperascens* Malinvaud) (Fam. *Cabiatae*) (CCPTAY 24,559,81). Colorless to yellow liquid, minty odor. D: 0.888–0.908, refr index: 1.458 @ 20°. Sol in fixed oils, mineral oil, propylene glycol; insol in glycerin.

SYNS: CORNMINT OIL, PARTIALLY DEMENTHOLIZED □ MENTHA ARVENSIS OIL, PARTIALLY DEMENTHOLIZED (FCC)

TOXICITY DATA with REFERENCE:

scu-rat TDLo:20 mg/kg (9-10D preg):TER CCPTAY 24,559,81

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

**MCB700 HR: 2
o-1,4-MENTHADIENE**

mf: C₁₀H₁₆ mw: 136.26

SYN: 1-METHYL-2-(1-METHYLETHYL)-1,4-CYCLOHEXADIENE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4270 mg/kg ZDBEA9 (12),39,83
 ihl-rat LC50:3550 mg/m³ ZDBEA9 (12),39,83
 orl-mus LD50:2950 mg/kg ZDBEA9 (12),39,83
 ihl-mus LC50:25 g/m³ ZDBEA9 (12),39,83
 ipr-mus LD50:2502 mg/kg ZDBEA9 (12),39,83

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

**MCB750 CAS: 99-85-4 HR: 2
p-MENTHA-1,4-DIENE**

mf: C₁₀H₁₆ mw: 136.26

PROP: Colorless liquid or oil; citrus odor. D: 0.841, refr index: 1.473–1.477, bp: 183°. Sol in alc, fixed oils; insol in water.

SYNS: FEMA No. 3559 □ 1-METHYL-4-ISOPROPYLCYCLOHEXADIENE-1,4 □ γ-TERPINENE (FCC)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD FCTXAV 14,659,76

orl-rat LD50:3650 mg/kg FCTXAV 14,875,76

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.

MCC000 CAS: 99-83-2 HR: 3
p-MENTHA-1,5-DIENE

mf: C₁₀H₁₆ mw: 136.26

PROP: Colorless to sltly yellow liquid; mint odor. D: 0.835–0.865, refr index: 1.471–1.477, flash p: 120°F. Sol in alc; insol in water.

SYNS: α-FELLANDRENE □ FEMA No. 2856 □ 4-ISOPROPYL-1-METHYL-1,5-CYCLOHEXADIENE □ 5-ISOPROPYL-2-METHYL-1,3-CYCLOHEXADIENE □ 2-METHYL-5-ISOPROPYL-1,3-CYCLOHEXADIENE □ α-PHELLANDRENE (FCC)

TOXICITY DATA with REFERENCE:

skn-man 100% SEV FCTXAV 16,843,78

orl-rat LD50:5700 mg/kg FCTXAV 16,843,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A severe human skin irritant. Incompatible with air. Flammable liquid when exposed to heat, sparks, or flame. When heated to decomposition it emits acrid smoke and irritating fumes.

MCC250 CAS: 138-86-3 HR: 3
p-MENTHA-1,8-DIENE

DOT: UN 2052

mf: C₁₀H₁₆ mw: 136.26

PROP: Liquid. D: 0.842 @ 20°/4°, mp: –96.9°, bp: 177°. Insol in water; misc in alc and ether.

SYNS: ACINTENE DP □ ACINTENE DP DIPENTENE □ CAJEPUTENE □ CINENE □ DIPANOL □ DIPENTENE □ INACTIVE LIMONENE □ KAUTSCHIN □ LIMONENE □ dl-LIMONENE □ 1,8(9)-p-MENTHADIENE □ 1-METHYL-4-ISOPROPENYL-1-CYCLOHEXENE □ NESOL □ Δ-1,8-TERPODIENE □ UNITENE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,703,74

unr-uns LDLo:4600 mg/kg ZEKBAI 78,99,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: 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 irritating fumes.

MCC500 CAS: 5989-54-8 HR: 1
(S)(–)-p-MENTHA-1,8-DIENE

mf: C₁₀H₁₆ mw: 136.26

PROP: Colorless liquid or oil; light odor. D: 0.837–0.841, refr index: 1.469–1.473, bp: 177.6–177.8°. Misc in alc, fixed oils; insol in water.

SYNS: 1-LIMONENE □ (–)-LIMONENE (FCC) □ 1-METHYL-4-(1-METHYLETHENYL)-(S)-CYCLOHEXENE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,809,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MCD000 CAS: 97-45-0 HR: 1
p-MENTHA-6,8-DIEN-2-OL, PROPIONATE

mf: C₁₃H₂₀O₂ mw: 208.33

SYNS: 1-CARVYL PROPIONATE □ 1-p-MENTHA-6,8(9)-DIEN-2-YL PROPIONATE □ 2-METHYL-5-(1-METHYLETHENYL)-2-CYCLOHEXEN-1-OL PROPIONATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 16,677,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MCD250 CAS: 99-49-0 HR: 2
p-MENTHA-6,8-DIEN-2-ONE

mf: C₁₀H₁₄O mw: 150.24

PROP: Colorless liquid. D: 0.921 @ 20°/4°, bp: 230° @ 755 mm. Insol in water; misc in alc and ether. Found in a score of essential oils and the main constituent of spearmint oil, prepared by isolation from oil of spearmint (FCTXAV 11,1011,73).

SYNS: CARVONE □ 6,8(9)-p-MENTHADIEN-2-ONE □ Δ-1-METHYL-4-ISOPROPENYL-6-CYCLOHEXEN-2-ONE □ Δ^{6,8}(9)-TERPADIENONE-2 □ NCI-C55867

TOXICITY DATA with REFERENCE:

orl-rat LD50:1640 mg/kg FCTXAV 2,327,64

scu-mus LD50:2675 mg/kg JAPMA8 46,77,57

orl-gpg LD50:766 mg/kg FCTXAV 2,327,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Used for flavoring liquors, perfumes, and soaps. When heated to decomposition it emits acrid smoke and irritating fumes.

MCD750 CAS: 80-52-4 HR: 3
p-MENTHANE-1,8-DIAMINE

mf: C₁₀H₂₂N₂ mw: 170.34

SYNS: 4-AMINO-a,a,4-TRIMETHYLCYCLOHEXANEMETHAMINE □ 1,8-DIAMINO-p-MENTHANE □ MENTHANE DIAMINE □ USAF RH-4

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:770 mg/kg AIHAAP 30,470,69

ipr-mus LD50:50 mg/kg NTIS** AD277-689

skn-rbt LD50:292 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by skin contact and intraperitoneal routes. Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

MCE000 CAS: 80-47-7 HR: 2
p-MENTHANE-8-HYDROPEROXIDE

mf: C₁₀H₂₀O₂ mw: 172.30**PROP:** Clear, pale-yellow liquid. D: 0.910–0.925 @ 15.5°/4°.**SYN:** p-MENTHANE HYDROPEROXIDE**TOXICITY DATA with REFERENCE:**

mmo-sat 33 µg/plate EMMUEG 11(Suppl 12),1,88

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. An irritant and powerful oxidizer. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES, ORGANIC.**MCE100 CAS: 498-81-7 HR: 1
p-MENTHAN-8-OL**mf: C₁₀H₂₀O mw: 156.30**SYNS:** CYCLOHEXANEMETHANOL, α-4-TRIMETHYL-(9CI)

□ DIHYDRO-α-TERPINEOL □ 1-METHYL-4-ISOPROPYL-CYCLOHEXANE-8-OL □ α-4-TRIMETHYLCYCLO-HEXANEMETHANOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,529,74

orl-rat LD50:>5 g/kg FCTXAV 12,529,74

skn-rbt LD50:>5 g/kg FCTXAV 12,529,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**MCE250 CAS: 1074-95-9 HR: 2
p-MENTHAN-3-ONE racemic**mf: C₁₀H₁₈O mw: 154.28**PROP:** Several stereoisomers found in nature; 1-menthone found in essential oils of Russian and American peppermint, geranium, *Andropogon fragrans*, *Mentha timija*, *Mentha arvensis*, and others; d-menthone found in essential oils of *Barosma pulchellum*, *Nepeta japonica maxim*, and others; d-isomenthone isolated from *Micromeria bissinica benth.*, *Pelargonium tomentosum jacquin*, and others; 1-isomenthone identified in *Reunion geranium*, *Pelargonium capitatum*, and others (FCTXAV 14,443,76). Flash p: 156°F.**SYNS:** FEMA No. 2667 □ 2-ISOPROPYL-5-METHYL-CYCLOHEXAN-1-ONE, racemic □ MENTHON, racemic**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTXAV 14,443,76

orl-rat LD50:2180 mg/kg FCTXAV 14(5),443,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.**MCE275 CAS: 11028-39-0 HR: 2
o-1-MENTHENE**mf: C₁₀H₁₈ mw: 138.28**SYNS:** HEXAHYDROCARQUEJENE □ 1-METHYL-2-(1-METHYLETHYL)-1-CYCLOHEXENE, DIDEHYDRO deriv.**TOXICITY DATA with REFERENCE:**

orl-rat LD50:7200 mg/kg ZDBEA9 (12)39,83

ihl-rat LC50:10,600 mg/m³ ZDBEA9 (12),39,83

orl-mus LD50:4350 mg/kg ZDBEA9 (12),39,83

ihl-mus LC50:76 g/m³ ZDBEA9 (12),39,83

ipr-mus LD50:2811 mg/kg ZDBEA9 (12),39,83

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.**MCE500 CAS: 500-00-5 HR: 1
p-MENTH-3-ENE**mf: C₁₀H₁₈ mw: 138.28**SYN:** METHANOMETHENE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:21 g/kg AIHAAP 30,470,69

ihl-rat LCLo:2000 ppm/4H AIHAAP 30,470,69

skn-rbt LD50:5660 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by inhalation, ingestion, and skin contact. When heated to decomposition it emits acrid smoke and irritating fumes.**MCE750 CAS: 7786-67-6 HR: 2
p-MENTH-8-EN-3-OL**mf: C₁₀H₁₈O mw: 154.28**PROP:** Colorless liquid; mint odor. D: 0.904–0.913, refr index: 1.470–1.475. Misc in alc, ether, fixed oils; sltly sol in water.**SYNS:** FEMA No. 2962 □ ISOPULEGOL (FCC) □ 8(9)-p-MENTHEN-3-OL □ 1-METHYL-4-ISOPROPENYLCYCLO-HEXAN-3-OL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1030 mg/kg FCTXAV 13,681,75

skn-rbt LD50:3000 mg/kg FCTXAV 13,681,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating fumes.**MCF250 CAS: 89-81-6 HR: 2
p-MENTH-1-EN-3-ONE**mf: C₁₀H₁₆O mw: 152.26**PROP:** Liquid. D: 0.926 @ 20°/4°, bp: 233°. Insol in water.**SYNS:** 3-CARVOMENTHENONE □ 1-METHYL-4-ISOPROPYL-1-CYCLOHEXEN-3-ONE □ 3-METHYL-6-(1-METHYLETHYL)-2-CYCLOHEXEN-1-ONE □ PIPERITONE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 16,637,78

orl-rat LD50:2450 mg/kg FCTXAV 16,637,78

scu-mus LD50:1420 mg/kg FCTXAV 16,637,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and subcutaneous routes. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**MCF500 CAS: 15932-80-6 HR: 3
p-MENTH-4(8)-EN-3-ONE**mf: C₁₀H₁₆O mw: 152.26**SYNS:** 1-ISOPROPYLIDENE-4-METHYL-2-CYCLOHEXANONE □ d-p-MENTH-4(8)-EN-3-ONE □ 4(8)-p-MENTHEN-3-ONE □ 1-

METHYL-4-ISOPROPYLIDENE-3-CYCLOHEXANONE □
PULEGONE □ d-PULEGONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,637,78
orl-rat LD50:470 mg/kg FCTXAV 16,637,78
ipr-mus LD50:150 mg/kg NTIS** AD691-490
scu-mus LD50:1709 mg/kg FCTXAV 16,637,78
skn-rbt LD50:3090 mg/kg FCTXAV 16,637,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion, skin contact, and subcutaneous routes. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

MCF515 CAS: 7774-65-4 HR: 1
p-MENTH-1-EN-8-YL ISOBUTYRATE

mf: C₁₄H₂₄O₂ mw: 224.38

SYNS: 2-METHYLPROPANOIC ACID 1-METHYL-1-(4-METHYL-3-CYCLOHEXEN-1-YL)ETHYL ESTER □ PROPANOIC ACID, 2-METHYL-, 1-METHYL-1-(4-METHYL-3-CYCLOHEXEN-1-YL)ETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTOD7 26,409,88
skn-rbt LD50:>5 g/kg FCTOD7 26,409,88

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.

MCF525 CAS: 31375-17-4 HR: 3
MENTHENYL KETONE

mf: C₁₃H₂₂O mw: 194.35

SYNS: 1-(p-MENTHEN-6-YL)-1-PROPANONE □ NERONE □ 1-PROPANONE, 1-p-MENTH-6-EN-2-YL-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,853,79

DOT CLASSIFICATION: 3; Label: Flammable Liquid

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MCF750 CAS: 89-78-1 HR: 3
MENTHOL

mf: C₁₀H₂₀O mw: 156.26

PROP: Hexagonal crystals or granules; peppermint taste and odor. D: 0.890 @ 15°/15°, vap press: 1 mm @ 56.0°, vap d: 5.38, mp: 41–43°, bp: 212°, flash p: 199°F. Very sol in alc, chloroform, ether, pet ether, glacial acetic acid, liquid petrolatum; sltly sol in water.

SYNS: CYCLOHEXANOL, 2-ISOPROPYL-5-METHYL- □ FEMA No. 2665 □ HEXAHYDROTHYMOL □ 2-ISOPROPYL-5-METHYL-CYCLOHEXANOL □ p-MENTHAN-3-OL □ I-MENTHOL □ 5-METHYL-2-(1-METHYLETHYL)CYCLOHEXAN-OL □ PEPPERMINT CAMPHOR □ TRA-KILL TRACHEAL MITE KILLER

TOXICITY DATA with REFERENCE:

eye-rbt 250 µg SEV AJOPAA 29,1363,46
orl-rat LD50:3180 mg/kg FCTXAV 2,327,64

ipr-rat LDLo:1500 mg/kg APFRAD 10,481,52
ims-rat LD50:10 g/kg AEPPAE 222,244,54
ipr-mus LDLo:1800 mg/kg AIPTAK 63,43,39
orl-cat LDLo:1500 mg/kg HBAMAK 4,1289,35
ivn-cat LDLo:37 mg/kg AIPTAK 63,43,39

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. A severe eye irritant. Incompatible with phenol, β-naphthol, resorcinol or thymol in trituration, potassium permanganate, chromium trioxide, pyrogallol. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

MCG000 CAS: 15356-70-4 HR: 2
di-MENTHOL

mf: C₁₀H₂₀O mw: 156.30

PROP: White crystals. D: 0.904 @ 15°/15°, mp: 38°, bp: 216°. Sol in water: < 1mg/mL @ 21°.

SYNS: FEMA No. 2665 □ 4-ISOPROPYL-1-METHYLCYCLOHEXAN-3-OL □ dl-3-p-MENTHANOL □ 3-p-MENTHOL □ MENTHOL racemic □ MENTHOL racemique (FRENCH) □ 5-METHYL-2-(1-METHYLETHYL)-CYCLOHEXANOL (1-α,2-β,5-α)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,443,76
eye-rbt 1% FRZKAP 17(3),53,62
orl-rat LD50:2900 mg/kg FAONAU 44A,59,67
scu-rat LDLo:1 g/kg MMWOAU 73,2011,26
orl-mus LD50:3100 mg/kg QJPPAL 5,233,32
scu-mus LDLo:14 g/kg MMWOAU 73,2011,26
orl-cat LDLo:1500 mg/kg MMWOAU 73,2011,26
ipr-cat LDLo:1500 mg/kg MMWOAU 73,2011,26
ipr-rbt LDLo:2000 mg/kg FAONAU 44A,59,67
ipr-gpg LD50:865 mg/kg APFRAD 10,481,52

CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-GC-TR-98,79. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. An eye and skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also MENTHOL and I-MENTHOL.

MCG250 CAS: 2216-51-5 HR: 3
I-MENTHOL

mf: C₁₀H₂₀O mw: 156.30

PROP: Crystals from MeOH with strong peppermint odor. Mp: 42.5–43°, bp: 216°. Sltly sol in H₂O; very sol in org solvs. Found in high concentrations in oils of Peppermint (*Mentha Piperita*), and Japanese Mint Oil (*Mentha Arvensis*), and in lower concentrations in Reunion Geranium Oil, and in a large number of essential oils; prepared by isolation from *Mentha arvensis* oils (FCTXAV 14,443,76).

SYNS: FEMA No. 2665 □ (–)-MENTHYL ALCOHOL □ (1R-(1-α,2-β,5-α))-5-METHYL-2-(1-METHYLETHYL)CYCLOHEXANOL □ U.S.P. MENTHOL

TOXICITY DATA with REFERENCE:

eye-rbt 1% FRZKAP 17(3),53,62
dnr-bcs 10 mg/disc OIGZSE 34,267,85

orl-rat LD50:3300 mg/kg FAONAU 44A,59,67
 ipr-rat LD50:700 mg/kg JPPMAB 35,110,83
 scu-rat LDLo:1000 mg/kg HBAMAK 4,1365,35
 orl-mus LD50:3400 mg/kg QJPPAL 5,233,32
 ipr-mus LD50:6600 mg/kg FRZKAP 17(3),53,62
 scu-mus LDLo:5000 mg/kg HBAMAK 4,1365,35
 orl-cat LDLo:800 mg/kg FAONAU 40,59,67
 ipr-cat LDLo:800 mg/kg HBAMAK 4,1365,35
 ivn-cat LDLo:34 mg/kg AIPTAK 63,43,39
 ipr-rbt LDLo:2000 mg/kg FAONAU 44A,59,67
 ipr-gpg LDLo:4000 mg/kg AIPTAK 63,43,39

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. An eye irritant. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

MCG275 CAS: 89-80-5 HR: 2
MENTHONE

mf: C₁₀H₁₈O mw: 154.28

PROP: Colorless liquid; mint odor. D: 0.888–0.895, refr index: 1.448–1.453. Sol in alc, fixed oils; very sltly sol in water.

SYNS: FEMA No. 2667 □ l-p-MENTHAN-3-ONE □ l-MENTH-ONE (FCC) □ p-MENTHONE □ trans-MENTHONE □ trans-5-METHYL-2-(1-METHYLETHYL)-CYCLOHEXANONE

TOXICITY DATA with REFERENCE:

mmo-sat 6400 ng/plate MUREAV 138,17,84
 orl-rat LD50:500 mg/kg FRXXBL #2448856
 scu-mus LD50:2180 mg/kg JAPMA8 46,77,57
 ivn-dog LDLo:600 mg/kg COREAF 236,633,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, intravenous, and subcutaneous routes. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

MCG500 CAS: 16409-45-3 HR: 2
dl-MENTHYL ACETATE

mf: C₁₂H₂₂O₂ mw: 198.34

PROP: Colorless liquid; characteristic minty odor. D: 0.919 @ 20°/4°, refr index: 1.443–1.450, bp: 227°, flash p: 197°F. Sltly sol in water, glycerin; misc with alc, ether, propylene glycol, fixed oils.

SYNS: FEMA No. 2668 □ MENTHOL, ACETATE (8CI) □ MENTHYL ACETATE □ MENTHYL ACETATE racemic □ p-MENTH-3-YL ESTER-dl-ACETIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,479,76
 orl-rat LD50:7620 mg/kg FCTXAV 14,477,76

SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

MCG750 CAS: 2623-23-6 HR: 1
1-p-MENTH-3-YL ACETATE

mf: C₁₂H₂₂O mw: 182.34

PROP: Colorless liquid; minty odor. D: 0.919–0.924, refr index: 1.443–1.447. Sol in alc, propylene glycol, fixed oils; sltly sol in water, glycerin.

SYNS: FEMA No. 2668 □ l-2-ISOPROPYL-5-METHYL-CYCLO-HEXAN-1-OL ACETATE □ (-)-MENTHYL ACETATE □ l-MENTHYL ACETATE (FCC) □ l-p-MENTH-3-YL ACETATE □ (R-(1α,2β,5α))-5-METHYL-2-(1-METHYLETHYL)-CYCLOHEXANOL ACETATE (9CI)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,477,76
 orl-rat LD50:>5 g/kg FCTXAV 14,477,76
 skn-rbt LD50:>5 g/kg FCTXAV 14,477,76

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.

MCG850 CAS: 59557-05-0 HR: 1
MENTHYL ACETOACETATE

mf: C₁₄H₂₄O₃ mw: 240.38

SYNS: BUTANOIC ACID, 3-OXO-, 5-METHYL-2-(1-METHYL-ETHYL)CYCLOHEXYL ESTER, (1R-(1-α-2-β, 5α)- □ MENTHOL ACETOACETATE □ (-)-MENTHYL ACETOACETATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 20,733,82

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

MCG900 CAS: 16409-46-4 HR: 1
MENTHYL 3-MENTHYLBUTYRATE

mf: C₁₅H₂₈O₂ mw: 240.43

SYNS: BUTANOIC ACID, 3-METHYL-, 5-METHYL-2-(1-METHYLETHYL)CYCLOHEXYL ESTER □ ISOVALERIC ACID, p-MENTH-3-YL ESTER □ MENTHOL, ISOVALERATE □ MENTH-3-YL ISOVALERATE □ MENTHYL ISOVALERATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTOD7 20,735,1982
 orl-rat LD50:>5 g/kg FCTOD7 20,735,1982
 skn-rbt LD50:>5 g/kg FCTOD7 20,735,1982

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MCG910 CAS: 26171-78-8 HR: 1
(-)-MENTHYL PHENYLACETATE

mf: C₁₈H₂₆O₂ mw: 274.44

SYN: BENZENEACETIC ACID, 5-METHYL-2-(1-METHYL-ETHYL)CYCLOHEXYL ESTER, (1R-(1-α-2-β,5α)-)

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTOD7 26,373,88
 skn-rbt LD50:>5 g/kg FCTOD7 26,373,88

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.

MCG950 CAS: 63148-53-8 HR: 1

MENTOR 28**TOXICITY DATA with REFERENCE:**

orl-rat LD50:14 g/kg MEPAAX 26,219,75

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

MCH250**CAS: 1227-61-8****HR: 3****MEPHEXAMIDE**

mf: $C_{15}H_{24}N_2O_3$ mw: 280.41

SYNS: N-(2-(DIETHYLAMINO)ETHYL)-2-(p-METHOXYPHENOXY)ACETAMIDE □ 2-(p-METHOXYPHENOXY)-N-(2-(DIETHYLAMINO)ETHYL)ACETAMIDE □ MEXEPHENAMIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:168 mg/kg 27ZQAG -,396,72

ivn-rbt LD50:135 mg/kg AMPYAT 123,141,65

orl-mus LD50:1500 µg/kg CHTPBA 1,444,66

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

MCH525**CAS: 4599-60-4****HR: 3****MEPICYCLINE PENICILLINATE**

mf: $C_{29}H_{38}N_4O_9 \cdot C_{16}H_{18}N_2O_5S$ mw: 937.13

PROP: Yellowish-white, crystalline powder; sltly bitter taste. Decomp above 143°. Sensitive to light, heat, air. Solubility in water at 20° = 1 g/0.7 mL.

SYNS: CRISEOCIL □ DUAMINE □ GEOTRICYN □ HYDROCYCLINE □ MEPENICYCLINE □ OLIMPEN □ PENETRACYNE □ PENILTETRA □ PENIMEPICYCLINE □ PRESTOCICLINA

TOXICITY DATA with REFERENCE:

orl-rat LD50:3990 mg/kg GNRIDX 2,26,68

scu-rat LD50:1550 mg/kg GNRIDX 2,26,68

ivn-rat LD50:345 mg/kg GNRIDX 2,26,68

orl-mus LD50:3 g/kg GNRIDX 2,26,68

scu-mus LD50:1096 mg/kg GNRIDX 2,26,68

ivn-mus LD50:342 mg/kg GNRIDX 2,26,68

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

MCH535**CAS: 20344-15-4****HR: 3****MEPIPAZOLE DIHYDROCHLORIDE**

mf: $C_{16}H_{21}ClN_4 \cdot 2ClH$ mw: 377.78

PROP: Crystals from EtOH. Mp: 234°.

SYNS: 1-(3-CHLOROPHENYL)-4-(2-(5-METHYL-1H-PYRAZOL-3-YL)ETHYL)PIPERAZINE DIHYDROCHLORIDE □ H 4007 □ MEPIPAZOLE HYDROCHLORIDE □ QUIADON

TOXICITY DATA with REFERENCE:

orl-rat LD50:570 mg/kg IYKEDH 4,336,73

scu-rat LD50:435 mg/kg IYKEDH 4,336,73

ivn-rat LD50:93 mg/kg IYKEDH 4,336,73

orl-mus LD50:310 mg/kg IYKEDH 4,336,73

scu-mus LD50:440 mg/kg IYKEDH 4,336,73

ivn-mus LD50:110 mg/kg IYKEDH 4,336,73

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

MCH540**CAS: 24307-26-4****HR: 2****MEPIQUAT CHLORIDE**

mf: $C_7H_{16}N \cdot Cl$ mw: 149.69

SYNS: BAS-083 □ BAS-08300W □ BAS 08301W □ BAS 08305 W □ BAS 08306 W □ BAS 08307 W □ BAS85559X □ N,N-DIMETHYLPIPERIDINIUM CHLORIDE □ 1,1-DIMETHYLPYRIDINIUM CHLORIDE □ PIPERIDINIUM, 1,1-DIMETHYL-, CHLORIDE □ PIX

CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.

orl-rat LD50:464 mg/kg FMCHA2-,C241,1991

ihl-rat LC50:>3900 mg/m³ NNGADV 17,S269,1992

skn-rat LD50:>7800 mg/kg PEMNDP 9,548,1991

orl-mus LD50:780 mg/kg NNGADV 17,S269,1992

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by inhalation and skin contact. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and Cl^- .

MCH550**CAS: 18694-40-1****HR: 3****MEPIRIZOL**

mf: $C_{11}H_{14}N_4O_2$ mw: 234.29

PROP: Minute, white or cream-colored crystals from isopropyl ether; characteristic odor, bitter taste. Mp: 90–92°. Sparingly sol in water. Sol in dil acids; freely sol in ethanol, benzene, dichloroethane.

SYNS: DA-398 □ EPIRIZOLE □ MEBRON □ 4-METHOXY-2-(5-METHOXY-3-METHYL-1H-PYRAZOL-1-YL)-6-METHYLPYRIMIDINE □ 2-(3-METHOXY-5-METHYLPYRAZOL-2-YL)-4-METHOXY-6-METHYLPYRIMIDINE □ 1-(4-METHOXY-6-METHYL-2-PYRIMIDINYL)-3-METHYL-5-METHOXYPYRAZOLE □ 2-(3-METHYL-5-METHOXY-1-PYRAZOLYL)-4-METHOXY-6-METHYLPYRIMIDINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:445 mg/kg JMGZAI 7(9),5,70

ipr-rat LD50:214 mg/kg JMGZAI 7(9),5,70

scu-rat LD50:208 mg/kg IYKEDH 8,494,77

ivn-rat LD50:214 mg/kg 85IPAE -,87,75

orl-mus LD50:740 mg/kg OYYAA2 16,1011,78

ipr-mus LD50:540 mg/kg OYYAA2 16,1011,78

scu-mus LD50:550 mg/kg IYKEDH 8,494,77

ivn-mus LD50:550 mg/kg JMGZAI 7(9),5,70

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

MCH600**CAS: 21362-69-6****HR: 2****MEPITIOSTANE**

mf: $C_{25}H_{40}O_2S$ mw: 404.71

PROP: Crystals. Mp: 98–101°.

SYNS: CYCLOPENTANONE-2- α ,3- α -EPITHIO-5- α -ANDROSTAN-17- β -YL METHYL ACETAL □ 2,2-EPITHIO-17-((1-METHOXYCYCLOPENTYL)OXY)-ANDROSTANE (2- α ,3- α ,5- α ,17- β) □ 2- α ,3- α -EPITHIO-17- β -YL 1-METHOXYCYCLOPENTYL ETHER □ 10364S □ THIODELONE □ THIDERON

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:400 µg/kg:SKN,LIV,BIO CANCAR 41,758,78

SAFETY PROFILE: Human systemic effects by ingestion: dermatitis, liver changes, and transaminase activity. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x .

**MCI375 CAS: 1953-02-2 HR: 2
MEPRIN**mf: C₅H₉NO₃S mw: 163.21**PROP:** Crystals from ethyl acetate. Mp: 95–97°.**SYNS:** CAPEN □ EPATOL □ MEPRIN (detoxicant) □ MERCAPTOPROPIONYLGLYCINE □ α-MERCAPTOPROPIONYLGLYCINE □ (2-MERCAPTOPROPIONYL)GLYCINE □ N-(2-MERCAPTOPROPIONYL)GLYCINE □ MUCOLYSIN □ THIOLA □ THIOPRONIN □ THIOPRONINE □ THIOSOL □ TIOPRONIN**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1300 mg/kg NIIRDN 6,456,82
 orl-mus LD50:2330 mg/kg NIIRDN 6,456,82
 ipr-mus LD50:1305 mg/kg YKKZAJ 94,1419,74
 ivn-mus LD50:1733 mg/kg JJANAX 38,137,85

SAFETY PROFILE: Moderately toxic by ingestion, intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also MERCAPTANS.**MCI500 CAS: 851-68-3 HR: 3
MEPROMAZINE**mf: C₁₉H₂₄N₂OS mw: 328.51**SYNS:** DEDORAN □ 10-(3-(DIMETHYLAMINO)-2-METHYL-PROPYL)-2-METHOXYPHENOTHIAZINE □ LEVOMEPROMAZINE □ LEVOPROMAZINE □ LEVOTOMIN □ METHOTRIMEPAZINE □ METHOXYPHENOTHIAZINE □ METHOXYTRIMEPAZINE □ MILEZIN □ MINOZINAN □ NAUROCTIL □ NEOTONZIL □ NEOZINE □ NEURACTIL □ NEUROCIL □ SINOGAN □ SKF 5116 □ TISERCIN □ VERACTIL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1100 mg/kg 27ZQAG -,31,72
 scu-rat LD50:45 mg/kg 27ZQAG -,31,72
 orl-mus LD50:375 mg/kg PSCBAY 2,17,63
 ipr-mus LD50:110 mg/kg CRSBAW 155,1029,61
 scu-mus LD50:300 mg/kg PSCBAY 2,17,63
 ivn-mus LD50:39 mg/kg PSDTAP 9,159,68
 orl-bwd LD50:100 mg/kg TXAPA9 21,315,72

SAFETY PROFILE: Poison by ingestion, intravenous, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.**MCI750 CAS: 33396-37-1 HR: 3
MEPROSCILLARIN**mf: C₃₁H₄₄O₈ mw: 544.75**PROP:** A solid. Mp: 213–217°.**SYN:** CLIFT**TOXICITY DATA with REFERENCE:**

orl-rat LD50:79 mg/kg ARZNAD 28,506,78
 ivn-rat LD50:5800 µg/kg ARZNAD 28,506,78
 orl-mus LD50:12,500 µg/kg ARZNAD 28,506,78
 ivn-mus LD50:2800 µg/kg ARZNAD 28,506,78
 ivn-cat LDLo:137 µg/kg ARZNAD 28,495,78
 ivn-gpg LDLo:678 µg/kg ARZNAD 28,495,78

SAFETY PROFILE: Poison by ingestion and intravenous routes. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.**MCJ250 CAS: 6036-95-9 HR: 3
MEPYRAMINE HYDROCHLORIDE**mf: C₁₇H₂₃N₃O•ClH mw: 321.89**PROP:** A solid. Mp: 143–143.5°.**SYNS:** 2-((2-DIMETHYLAMINOETHYL)(p-METHOXYBENZYL)-AMINO)PYRIDINE HYDROCHLORIDE □ NEOANTERGAN HYDROCHLORIDE □ PYRILAMINE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:325 mg/kg JPETAB 93,210,48
 scu-rat LD50:115 mg/kg JPETAB 93,210,48
 ivn-mus LD50:25 mg/kg JPETAB 93,210,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion, intravenous and subcutaneous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.**MCJ300 CAS: 57383-74-1 HR: 3
MEPYRAMINE 7-THEOPHYLLINE ACETATE**mf: C₁₇H₂₃N₃O•C₉H₁₀N₄O₄ mw: 523.66**SYN:** 1,2,3,6-TETRAHYDRO-1,3-DIMETHYL-2,6-DIOXO-7H-PURINE-7-ACETIC ACID compounded with N-((4-METHOXY-PHENYL)METHYL)-N',N'-DIMETHYL-N-2-PYRIDINYL-1,2-ETHANEDIAMINE (1:1)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:234 mg/kg FRXXBL #2244460
 ipr-rat LD50:116 mg/kg FRXXBL #2244460
 ivn-rat LD50:42,700 µg/kg FRXXBL #2244460

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.**MCJ370 CAS: 54-36-4 HR: 3
MEPYRAPONE**mf: C₁₄H₁₄N₂O mw: 226.30**PROP:** Crystals from ether and pentane. Mp: 50–51°.**SYNS:** 1,2-DI-3-PYRIDYL-2-METHYL-1-PROPANONE □ METHAPYRAPONE □ METHOPIRAPONE □ METHOPYRAPONE □ METHOPYRININE □ METHOPYRONE □ 2-METHYL-1,2-DI-3-PYRIDINYL-1-PROPANONE (9CI) □ METOPIRON □ METOPIRONE □ METOPYRONE □ METYRAPON □ METYRAPONE □ SU-4885**TOXICITY DATA with REFERENCE:**

oth-dog-ipr 800 mg/kg/40D-C FOBGA8 27,277,79
 orl-rat LD50:521 mg/kg NIIRDN 6,827,82
 ipr-mus LDLo:300 mg/kg JPETAB 146,395,64

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**MCJ400 CAS: 29216-28-2 HR: 3
MEQUITAZINE**mf: C₂₀H₂₂N₂S mw: 322.50**PROP:** Crystals from acetonitrile. Mp: 130–131°.**SYNS:** LM-209 □ METAPLEXAN □ MIRCOL □ PRIMALAN □ 10-(3-QUINCULIDINYL METHYL)PHENOTHIAZINE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:245 mg/kg OYYAA2 22,491,81
 ipr-rat LD50:54 mg/kg OYYAA2 22,491,81
 scu-rat LD50:690 mg/kg OYYAA2 22,491,81
 orl-mus LD50:210 mg/kg OYYAA2 22,491,81
 ipr-mus LD50:54 mg/kg OYYAA2 22,491,81
 scu-mus LD50:278 mg/kg OYYAA2 22,491,81

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

MCKJ500 **CAS: 147-93-3** **HR: 2**
MERCAPTANS

PROP: Compounds containing the -SH group bound to carbon. Also called thiols.

SAFETY PROFILE: Generally they have a very offensive odor that may cause nausea and headache. High concentrations of vapor can produce unconsciousness with cyanosis, cold extremities, and rapid pulse. A common air contaminant. Dangerous; when heated to decomposition they almost always emit highly toxic fumes of SO_x. They may react with water, steam, or acids to produce toxic and flammable vapors. Aliphatic mercaptans are flammable. They can react violently with powerful oxidizers such as Ca(OCl)₂.

MCK000 **CAS: 4822-44-0** **HR: 3**
α-MERCAPTOACETANILIDE

mf: C₈H₈NOS mw: 166.23

PROP: Needles from EtOH or H₂O. Mp: 110.5–111°.

SYNS: 2-MERCAPTOACETANILIDE □ THIOGLYCOLANILIDE □ THIOGLYCOLIC ACID ANILIDE □ USAF EK-6583

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.

MCK300 **CAS: 54524-31-1** **HR: 2**
MERCAPTOACETONITRILE

mf: C₂H₃NS mw: 73.11

PROP: Bp: 34° @ 2 mm.

SYN: ACETONITRILETHIOL

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

SAFETY PROFILE: Concentrated solutions or the solvent-free nitrile may polymerize vigorously. When heated to decomposition it emits toxic fumes of CN⁻, SO_x, and NO_x. See also MERCAPTANS and NITRILES.

MCK500 **CAS: 504-17-6** **HR: 2**
2-MERCAPTOBARBITURIC ACID

mf: C₄H₄N₂O₂S mw: 144.16

PROP: Plates from H₂O. Mp: 235° (decomp) (rapid heating). Sol in H₂O and alkalis.

SYNS: AUSTRANAL □ BATHYRAN □ DIHYDRO-2-THIOXO-4,6(1H,5H)-PYRIMIDINEDIONE □ 2-MERCAPTOBARBITURIC ACID □ 4,6(1H,5H)-PYRIMIDINEDIONE, DIHYDRO-2-THIOXO-(9CI) □ THIOBARBITURIC ACID □ 2-THIOBARBITURIC ACID □ USAF EK-660

TOXICITY DATA with REFERENCE:

ipr-mus LD50:600 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also MERCAPTANS.

MCK750 **CAS: 147-93-3** **HR: 3**
o-MERCAPTOBENZOIC ACID

mf: C₇H₆O₂S mw: 154.19

PROP: Light yellow leaflets or needles from EtOH (aq). Mp: 164°, bp: subl. Sltly sol in hot water; sol in alc and Py.

SYNS: o-MERCAPTOBENZOEAEURE (GERMAN) □ THIOSALICYLIC ACID □ USAF EK-T-2805 □ USAF KF-2 □ USAF XR-35

TOXICITY DATA with REFERENCE:

ipr-mus LD50:50 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x. See also MERCAPTANS.

MCK800 **CAS: 80756-85-0** **HR: 3**
(2-MERCAPTOBENZOTHAZOLYL)-2-(2-AMINOTHAZOL-4-YL)-2-METHOXYIMINOACETATE (SYN)

mf: C₁₃H₁₀N₄O₂S₃ mw: 350.45

SYNS: S-2-BENZOTHAZOLYL-(Z)-2-AMINO-α-(METHOXYIMINO)-4-THIAZOLEETHANETHIOATE □ S-BENZOTHAZOL-2-YL-(Z)-2-(2-AMINO-1,3-THIAZOL-4-YL)-2-(METHOXYIMINO)THIOACETATE □ 4-THIAZOLE-ETHANETHIOIC ACID, 2-AMINO-α-(METHOXYIMINO)-, S-2-BENZOTHAZOLYL ESTER, (Z)-

TOXICITY DATA with REFERENCE:

orl-rat LD :>20 g/kg TOVEFN (3),37,1996

ipr-rat LD50:570 mg/kg TOVEFN (3),37,1996

orl-mus LD :>5 g/kg TOVEFN (3),37,1996

ipr-mus LD50:253 mg/kg TOVEFN (3),37,1996

ipr-gpg LD50:570 mg/kg TOVEFN (3),37,1996

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

MCK900 **CAS: 2382-96-9** **HR: 3**
2-MERCAPTOBENZOXAZOLE

mf: C₇H₅NOS mw: 151.19

PROP: Off-white to tan crystalline powder. Mp: 188–194°.

SYN: 2-BENZOXAZOLETHIOL

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#04482

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MCL500 **CAS: 5428-95-5** **HR: 3**
(2-MERCAPTOCARBAMOYL)DI-ACETANILIDE

mf: C₁₈H₁₈N₄O₄S₂ mw: 418.52

PROP: Crystals from EtOH. Mp: 146–150°. Sol in H₂O and EtOH.

SYNS: p,p'-BIS(α-THIOL CARBAMYLACETAMIDO)BIPHENYL
 □ CARBAMIC ACID, THIO, S-ESTER with 2-MERCAPTOACETANILIDE □ CARBAMINOTHIOGLYCOLIC ACID ANILIDE □ USAF UCTL-1766

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.

MCM750 CAS: 123-93-3 HR: 3
MERCAPTODIACETIC ACID

mf: C₄H₆O₄S mw: 150.16

PROP: A white powder or crystals from EtOAc/C₆H₆. Mp: 128°. Very sol in water.

SYNS: (CARBOXYMETHYLTHIO)ACETIC ACID □ DIMETHYL-SULFIDE-α,α'-DICARBOXYLIC ACID □ THIODIGLYCOLIC ACID □ β,β'-THIODIGLYCOLIC ACID □ 2,2'-THIODIGLYCOLIC ACID □ THIODIGLYCOLIC ACID □ USAF CB-36 □ USAF E-2

TOXICITY DATA with REFERENCE:

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition or on contact with acid or acid fumes it emits toxic fumes of SO_x. See also MERCAPTOACETIC ACID.

MCN000 CAS: 123-81-9 HR: 3
MERCAPTO DI-ACETIC ACID, ETHYLENE ESTER

mf: C₆H₁₀O₄S₂ mw: 210.28

TOXICITY DATA with REFERENCE:

SYNS: ACETIC ACID, MERCAPTO-, 1,2-ETHANEDIYL ESTER □ ETHYLENE BIS(MERCAPTOACETATE) □ ETHYLENE BIS(THIOGLYCOLATE) □ ETHYLENE GLYCOL BIS(THIOGLYCOLATE) □ ETHYLENE MERCAPTOACETATE □ GLYCOL BIS(MERCAPTOACETATE) □ GLYCOL DIMERCAPTOACETATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:330 mg/kg TRIPAT -,1,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of SO_x. See also MERCAPTANS.

MCN250 CAS: 60-24-2 HR: 3
2-MERCAPTOETHANOL

DOT: UN 2966

mf: C₂H₆OS mw: 78.14

PROP: Water-white, mobile liquid with faint characteristic odor. Bp: 157–158° (decomp) @ 742 mm, flash p: 165°F (COC), d: 1.1168 @ 20°/20°, vap press: 1.0 mm @ 20°, vap d: 2.69. Pure liquid is misc with water, alc, ether, and benzene.

SYNS: EMERY 5791 □ 1-ETHANOL-2-THIOL □ 2-HYDROXY-1-ETHANETHIOL □ 2-HYDROXYETHYL MERCAPTAN □ 2-ME □ MERCAPTOETHANOL □ β-MERCAPTOETHANOL □

MONOTHIOETHYLENEGLYCOL □ 2-THIOETHANOL □ THIOGLYCOL (DOT) □ THIOMONOGLYCOL □ USAF EK-4196

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open JIHTAB 26,269,44

eye-rbt 2280 mg SEV AJOPAA 29,1363,46

dnd-omi 10 mmol/L BBRCA9 77,1150,77

mnt-mus:oth 100 mg/L JNCIAM 56,357,76

orl-rat LD50:244 mg/kg GTPZAB 15(2),56,71

orl-mus LD50:190 mg/kg GTPZAB 15(2),56,71

ihl-mus LC50:13,200 mg/m³/15M GTPZAB 15(2),56,71

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

ivn-mus LD50:480 mg/kg JPMSAE 62,237,73

skn-rbt LD50:150 mg/kg UCDS** 3/23/73

skn-gpg LD50:300 mg/kg JIHTAB 26,269,44

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion, skin contact, and intraperitoneal routes. Moderately toxic by intravenous route. A skin and severe eye irritant. Human mutation data reported. A combustible liquid when exposed to heat, flame, or oxidizers. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits highly toxic fumes of SO_x. See also MERCAPTANS.

MCN500 CAS: 51-85-4 HR: 3
β-MERCAPTOETHYLAMINE DISULFIDE

mf: C₄H₁₂N₂S₂ mw: 152.30

PROP: Viscous oil.

SYNS: BECAPTAN DISULFURE (FRENCH) □ BIS(β-AMINO-ETHYL)DISULFIDE □ CYSTAMINE □ CYSTEINAMINE DISULFIDE □ CYSTINAMIN (GERMAN) □ CYSTINEAMINE □ DECARBOXYCYSTINE □ β,β'-DIAMINODIETHYL DISULFIDE □ 2,2'-DITHIOBIS(ETHYLAMINE) □ MERCAMINE DISULFIDE □ 2-MERCAPTOETHYLAMINE (OXIDIZED)

TOXICITY DATA with REFERENCE:

dnd-mam:lym 200 mmol/L IJRBA3 9,185,65

ipr-rat LD50:99 mg/kg SVLKA0 24,541,81

scu-rat LDLo:150 mg/kg AEPPAE 185,461,37

ims-rat LD50:96 mg/kg SVLKA0 24,541,81

ipr-mus LD50:220 mg/kg RDBGAT 19,593,78

scu-mus LD50:214 mg/kg AIPTAK 109,108,57

scu-cat LDLo:200 mg/kg AEPPAE 185,461,37

scu-gpg LDLo:300 mg/kg AEPPAE 185,461,37

SAFETY PROFILE: Poison by intraperitoneal, intramuscular, and subcutaneous routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS and SULFIDES.

MCN750 CAS: 156-57-0 HR: 3
2-MERCAPTOETHYLAMINE HYDROCHLORIDE

mf: C₂H₇NS•ClH mw: 113.62

PROP: White, sltly hygroscopic crystals. Mp: 70.2–70.7°.

SYNS: BECAPTAN □ CYSTEAMINE HYDROCHLORIDE □ CYSTEAMINHYDROCHLORID (GERMAN) □ ETHYLAMINE, 2-MERCAPTO-, HYDROCHLORIDE □ MEA □ β-MERCAPTO-AETHYLAMIN CHLORHYDRAT □ MERCAPTOETHYLAMINE HYDROCHLORIDE □ β-MERCAPTOETHYLAMINE HYDROCHLORIDE □ 2-MERCAPTOETHYLAMINE HYDROCHLORIDE □ USAF EE-3

TOXICITY DATA with REFERENCE:

cyt-rat:lvf 5 mg/L MUREAV 153,57,85
 orl-mus LD50:1352 mg/kg CPBTAL 20,721,72
 ipr-mus LD50:250 mg/kg JMCAR 12,510,69
 scu-mus LDLo:900 mg/kg ABPAAG 12,142,38
 invn-rbt LD50:150 mg/kg ARZNAD 5,421,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and subcutaneous routes. Mutation data reported. Used as an antidote to acetaminophen poisoning and as an experimental radioprotective agent. Can react with water or steam to produce toxic fumes. When heated to decomposition it emits highly toxic fumes of SO_x, NO_x, and HCl. See also MERCAPTANS and AMINES.

MCO000 CAS: 4542-46-5 HR: 3
4-MERCAPTOETHYLMORPHOLINE

mf: C₆H₁₃NOS mw: 147.26

SYN: N-MORPHOLYL-CYSTEAMINE (GERMAN)

TOXICITY DATA with REFERENCE:

scu-mus LD50:316 mg/kg AIPTAK 109,108,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS.

MCO250 CAS: 7538-45-6 HR: 3
2-MERCAPTOETHYL TRIMETHOXY SILANE

mf: C₅H₁₄O₃Si mw: 182.34

PROP: A liquid. D: 1.07 @ 25°/4°, bp: 108° @ 50 mm.

SYN: 2-(TRIMETHOXY-SILYL)-ETHANETHIOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:2460 mg/kg AIHAAP 30,470,69
 ipr-mus LD50:17 mg/kg DANKAS 229(4),1011,76

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 SO_x. See also MERCAPTANS.

MCO400 CAS: 53988-10-6 HR: 3
2-MERCAPTO-4(OR 5)-METHYLBENZIMIDAZOLE

mf: C₈H₈N₂S mw: 164.24

SYNS: 2H-BENZIMIDAZOLE-2-THIONE, 1,3-DIHYDRO-4(OR5)-METHYL- □ NOCRAC MMB □ METHYLMERCAPTO-BENZIMIDAZOLE □ VANOX MTI □ VULKANOX MB 2

TOXICITY DATA with REFERENCE:

orl-rat LD50:340 mg/kg ATDAEI 15(Suppl 1),S65,1996

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

MCO500 CAS: 60-56-0 HR: 3
2-MERCAPTO-1-METHYLIMIDAZOLE

mf: C₄H₆N₂S mw: 114.18

PROP: Leaflets from EtOH. Mp: 146–148°, bp: 280° (decomp).

SYNS: BASOLAN □ DANANTIZOL □ FAVISTAN □ FRENTIROX □ MERCAPTAZOLE □ MERCAZOLYL □ METAZOLO □ METHIAMAZOLE □ 1-METHYLIMIDAZOLE-2-THIOL □ 1-METHYL-2-MERCAPTOIMIDAZOLE □ METIZOL □ METHOTHYRINE □ 1-METHYL-2-MERCAPTOIMIDAZOLEM (POLISH) □ STRUMAZOLE □ TAPAZOLE □ THACAPZOL □ THIAMAZOLE □ THYCAPSOL □ USAF EL-30

TOXICITY DATA with REFERENCE:

uns-hmn:lym 2500 µg/L HUMAA7 26,155,75
 cyt-mus:mmr 3200 µmol/L/24H-C JTSCDR 5,141,80
 orl-rat TDLo:1100 mg/kg/2Y-C:NEO FCTXAV 11,649,73

orl-rat LD50:2250 mg/kg NIIRDN 6,447,82
 scu-rat LD50:1050 mg/kg FRPSAX 14,54,59
 orl-mus LD50:860 mg/kg NIIRDN 6,447,82
 ipr-mus LD50:500 mg/kg NTIS** AD277-689
 scu-mus LD50:345 mg/kg NIIRDN 6,447,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by ingestion and intraperitoneal routes. Human teratogenic effects. An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental neoplastigenic data. Human mutation data reported. An antithyroid drug. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS.

MCO750 CAS: 62571-86-2 HR: 2
1-(d-3-MERCAPTO-2-METHYL-1-OXOPROPYL)-I-PROLINE (S,S)

mf: C₉H₁₂NO₃S mw: 214.28

SYNS: CAPOTEN □ LOPIRIN □ 1-(3-MERCAPTO-2-METHYL-1-OXOPROPYL)-I-PROLINE □ 1-((2S)-3-MERCAPTO-2-METHYL-PROPIONYL)-I-PROLINE □ d-2-METHYL-3-MERCAPTOPROP-ANOYL-I-PROLINE □ SQ 14,225

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:10 mg/kg:BAH,CVS AEMED3 20,1125,91

orl-man LDLo:16 mg/kg JTCTDW 28,379,90

orl-man TDLo:4 mg/kg/8D-I AJPSAO 142,270,85

orl-man TDLo:471 mg/kg/48W-I:SKN ARDEAC 123,20,87

orl-man LDLo:2500 µg/kg/3D-I:KID PGMJAO 60,561,84

orl-man TDLo:2679 µg/kg/5D-I:KID IJMDAI 21,892,85

orl-man TDLo:7143 µg/kg/2D-I:SKN BMJOAE 294,91,87

orl-man TDLo:12,500 µg/kg/25D-I:BLD CMAJAX 129,525,83

orl-wmn TDLo:14 mg/kg/2W-I:KID,BIO AIMEAS 104,126,86

orl-wmn LDLo:1500 µg/kg/7W:CNS,CVS,PUL AIMEAS 94,58,81

orl-wmn TDLo:10 mg/kg/10D-I:SKN BMJOAE 294,91,87

orl-rat LD50:4245 mg/kg IYKEDH 14,297,83

invn-rat LD50:554 mg/kg IYKEDH 14,297,83

orl-mus LD50:2500 mg/kg PCJOAU 22,212,88

invn-mus LD50:663 mg/kg IYKEDH 14,297,83

SAFETY PROFILE: Moderately toxic by intravenous route. Mildly toxic by ingestion. Human systemic effects:

blood pressure lowering, changes in kidney function, decreased urine volume or anuria, dermatitis, dyspnea, hemolysis with or without anemia, metabolic changes, somnolence, ureter or bladder tubules failure. An experimental teratogen. Experimental reproductive effects. Used to treat refractory systemic hypertension and as an experimental drug in heart failure. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS.

MCO775 CAS: 65002-17-7 HR: 3
N-(2-MERCAPTO-2-METHYLPROPANOYL)-L-CYSTEINE

mf: C₇H₁₃NO₃S₂ mw: 223.33

PROP: Crystals from EtOAc. Mp: 139–140°.

SYNS: N-(2-MERCAPTO-2-METHYL-1-OXOPROPYL)-L-CYSTEINE □ SA96

TOXICITY DATA with REFERENCE:

orl-rat LD50:3900 mg/kg IYKEDH 14,346,83

ipr-rat LD50:353 mg/kg IYKEDH 14,346,83

scu-rat LD50:1021 mg/kg IYKEDH 14,346,83

ivn-rat LD50:1006 mg/kg IYKEDH 14,346,83

orl-mus LD50:4500 mg/kg IYKEDH 14,346,83

ipr-mus LD50:420 mg/kg IYKEDH 14,346,83

scu-mus LD50:1090 mg/kg IYKEDH 14,346,83

ivn-mus LD50:1100 mg/kg IYKEDH 14,346,83

ivn-dog LDLo:200 mg/kg OYYAA2 29,429,85

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x and NO_x. An anti-rheumatic agent. See also CYSTEINE and MERCAPTANS.

MCP000 CAS: 60764-83-2 HR: 3
MERCAPTOMETHYLTRIETHOXYSILANE

mf: C₇H₁₈O₃SSi mw: 210.40

TOXICITY DATA with REFERENCE:

orl-rat LD50:2550 mg/kg MarJV# 29MAR77

ipr-mus LD50:270 mg/kg DANKAS 229(4),1011,76

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x. See also MERCAPTANS.

MCP250 CAS: 4845-58-3 HR: 3
2-MERCAPTO-6-NITROBENZOTHAZOLE

mf: C₇H₄N₂O₂S₂ mw: 212.25

SYN: USAF EK-3991

TOXICITY DATA with REFERENCE:

ipr-mus LD50:25 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 SO_x and NO_x. See also MERCAPTANS.

MCP500 CAS: 17654-88-5 HR: 2
5-MERCAPTO-3-PHENYL-2H-1,3,4-THIADIAZOLE-2-THIONE

mf: C₈H₆N₂S₃ mw: 226.34

PROP: Yellow needles. Mp: 245–247.5°. Sol in H₂O and EtOH.

SYNS: BIZMUTHIOL II (CZECH) □ 5-MERCAPTO-3-FENYL-1,3,4-THIADIAZOL-2-THION DRASELNY (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 20 mg/24H SEV 28ZPAK -,202,72

orl-rat LD50:763 mg/kg 28ZPAK -,202,72

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

MCQ000 CAS: 107-96-0 HR: 3
3-MERCAPTOPROPIONIC ACID

mf: C₃H₆O₂S mw: 106.15

PROP: Crystals. Mp: 16.8°, bp: 114–115.5°. Sol in H₂O, EtOH, and Et₂O.

SYNS: β-MERCAPTOPROPANOIC ACID □ 3MPA □

PROPANOIC ACID, 3-MERCAPTO-(9CI) □ 3-THIOPROPANOIC

ACID □ β-THIOPROPIONIC ACID □ 3-THIOPROPIONIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:96 mg/kg TRIPA7 -,1,73

ipr-rat LD50:66 mg/kg AGACBH 1(5),231,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x. See also MERCAPTANS.

MCQ100 CAS: 6112-76-1 HR: 3
6-MERCAPTOPURINE MONOHYDRATE

mf: C₅H₄N₄S•H₂O mw: 170.21

PROP: Yellow practically odorless prisms. Insol in water.

SYNS: 1,7-DIHYDRO-6H-PURINE-6-THIONE MONOHYDRATE

□ 1,7-DIHYDRO-6H-PURIN-6-THION, MONOHYDRAT □ 6-

MERCAPTOPURIN, MONOHYDRAT □ 6H-PURINE-6-THIONE,

1,7-DIHYDRO-, MONOHYDRATE (9CI) □ PURIN-6-THIOL,

MONOHYDRAT □ 6H-PURIN-6-THION, MONOHYDRAT

TOXICITY DATA with REFERENCE:

dlt-mus-ipr 500 mg/kg/40D-I DCTODJ 6,83,83

orl-mus LD50:1250 mg/kg MUREAV 223,349,89

ipr-mus LD50:224 mg/kg MUREAV 223,349,89

SAFETY PROFILE: An experimental teratogen. A poison by intraperitoneal route. Moderately toxic by ingestion. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also MERCAPTANS.

MCQ250 CAS: 145-95-9 HR: 3
6-MERCAPTOPURINE 3-N-OXIDE

mf: C₅H₄N₄OS mw: 168.19

SYN: MERCAPTOPURINE-3-N-OXIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:250 mg/kg ARPAAQ 86,395,68

SAFETY PROFILE: Poison by intraperitoneal route. An experimental teratogen. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also MERCAPTANS.

MCQ500 CAS: 4988-64-1 HR: 3
MERCAPTOPURINE RIBONUCLEOSIDE

mf: C₁₀H₁₂N₄O₄S mw: 284.32

SYNS: 6-MERCAPTOPYRINE RIBOSIDE □ NSC-4911 □ RIBOFURANOSIDE, 9H-PURINE-6-THIOL-9 □ RIBOSYL-6-THIOPURINE □ THIONOSINE □ 6-THIOPURINE RIBONUCLEOSIDE □ 6-THIOPURINE RIBOSIDE □ TIOINOSINE

TOXICITY DATA with REFERENCE:

sce-hmn:lym 100 nmol/L CTRRD0 69,505,85
 orl-rat LD50:900 mg/kg NIIRDN 6,853,82
 ipr-rat LD50:1240 mg/kg NIIRDN 6,853,82
 scu-rat LD50:1180 mg/kg NIIRDN 6,853,82
 orl-mus LD50:5 g/kg OYYAA2 6,1275,72
 ipr-mus LD50:490 mg/kg CPBTAL 16,2080,68
 scu-mus LD50:1840 mg/kg NIIRDN 6,853,82
 unr-mus LD10:250 mg/kg PMDCAY 7,69,70

SAFETY PROFILE: Poison by an unspecified route. Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. An experimental teratogen. Human mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also MERCAPTANS.

MCQ700 CAS: 1121-31-9 HR: 3**2-MERCAPTOPYRIDINE MONOXIDE**mf: C₅H₅NOS mw: 127.17**PROP:** Off white to black crystals. Mp: 69–72°.**SYNS:** OMADINE □ 2-PYRIDINETHIOL, 1-OXIDE**TOXICITY DATA with REFERENCE:**

orl-qal LD50:178 mg/kg JRPFA4 48,371,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MCQ750 CAS: 3811-73-2 HR: 3**2-MERCAPTOPYRIDINE-N-OXIDE SODIUM SALT**mf: C₅H₅NOS•Na mw: 150.16

SYNS: (1-HYDROXY-2-PYRIDINETHIONE), SODIUM SALT, TECH □ 2-PYRIDINETHIOL-1-OXIDE SODIUM SALT □ SODIUM PYRITHIONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:870 mg/kg OYYAA2 4,883,70
 ipr-mus LD50:370 mg/kg OYYAA2 4,883,70
 scu-mus LD50:428 mg/kg OYYAA2 4,883,70
 ivn-mus LD50:320 mg/kg CSLNX* NX#04703
 par-mus LDLo:800 mg/kg CBCCT* 7,693,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: 1 mg/m³

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion, subcutaneous and parenteral routes. Used in preservation of cosmetics. When heated to decomposition it emits very toxic fumes of Na₂O, NO_x, and SO_x. See also MERCAPTANS.

MCQ800 CAS: 13083-37-9 HR: D**2-MERCAPTO-1-(β-4-PYRIDYLETHYL) BENZIMIDAZOLE**mf: C₁₄H₁₃N₃S mw: 255.36

SYNS: 2-BENZIMIDAZOLETHIOL, 1-(2-(4-PYRIDYL)ETHYL)- □ 2H-BENZIMIDAZOLE-2-THIONE, 1,3-DIHYDRO-1-(2-(4-PYRI-

DINYL)ETHYL)- □ MERCAPTOPYRIDETHYL BENZIMIDAZOLE □ 1-(2-(4-PYRIDYL)ETHYL)-2-BENZIMIDAZOLETHIOL

TOXICITY DATA with REFERENCE:

dni-ham-fbr 1 mg/L JJIND8 54,431,75

uns-ham-fbr 1 mg/L JJIND8 54,431,75

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

MCR000 CAS: 70-49-5 HR: 3**MERCAPTOSUCCINIC ACID**mf: C₄H₆O₄S mw: 150.16

PROP: Off-white powder. Mp: 150°. Sol in water, alc, acetone; sltly sol in ether and benzene.

SYNS: THIOMALIC ACID □ 2-THIO-MALIC ACID □ USAF EK-P-6297 □ USAF M-2

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. Has been proposed as an antidote for heavy metal poisoning. Allergic dermatitis in humans has been reported. When heated to decomposition, or on contact with acid or acid fumes, it emits toxic fumes of SO_x. See also MERCAPTANS.

MCR250 CAS: 67479-03-2 HR: 3**p-MERCAPTO SULFADIAZINE****SYNS:** TSD □ USAF LO-3**TOXICITY DATA with REFERENCE:**

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

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also MERCAPTANS.

MCR750 CAS: 52-67-5 HR: 3**d,3-MERCAPTOVALINE**mf: C₅H₁₁NO₂S mw: 149.23**PROP:** A solid. Mp: 202–206° (rapid heating).

SYNS: CUPRENIL □ CUPRIMINE □ DEPEN □ DIMETHYLCYSTEINE □ β,β-DIMETHYLCYSTEINE □ d-MERCAPTOVALINE □ METALCAPTASE □ PCA □ d-PENAMINE □ PENICILLAMIN □ (S)-PENICILLAMIN □ PENICILLAMINE □ d-PENICILLAMINE □ REDUCED-d-PENICILLAMINE □ TROLOVOL

TOXICITY DATA with REFERENCE:

mno-sat 60 μmol/plate BCPCA6 34,3725,85

mma-sat 1 mg/plate ABCHA6 45,2157,81

orl-chd TDLo:122 g/kg/3Y-C:CAR,BLD JAMAAP 248,467,82

orl-wmn TDLo:900 mg/kg/26W-I:SKN JRHUA9 12,583,85

orl-wmn TDLo:650 g/kg/81W-I ARHEAW 29,560,86

orl-wmn TDLo:112 mg/kg/1W-I AIMDAP 145,2271,85

orl-wmn TDLo:105 mg/kg/6W-I:SKN BMJOAE 294,1101,87

orl-man TDLo:400 mg/kg/4W-I:PUL JRHUA9 13,963,86

orl-wmn LDLo:150 mg/kg/30D-I AIMEAS 98,327,83

orl-hmn TDLo:21 mg/kg/D:KID,BLD JAMAAP 240,1870,78

orl-hmn TDLo:893 mg/kg/30W-I JRHUA9 11,251,84

orl-cld TDLo:40 mg/kg/1W-I:BLD,SKN AIMDAP
145,2271,85

orl-man TDLo:482 mg/kg/19W-I:BLD,SKN AIMDAP
143,1487,83

orl-rat LD50:6170 mg/kg NIIRDN 6,758,82

ipr-rat LD50:2080 mg/kg NIIRDN 6,758,82

scu-rat LD50:4020 mg/kg NIIRDN 6,758,82

ivn-rat LD50:2 g/kg ARZNAD 22,1434,72

orl-mus LD50:720 mg/kg PCJOAU 21,842,87

ipr-mus LD50:298 mg/kg YKKZAJ 94,1419,74

scu-mus LD50:3810 mg/kg NIIRDN 6,758,82

ivn-mus LD50:3840 mg/kg ARZNAD 25,162,75

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous and intravenous routes. Mildly toxic by ingestion. An experimental teratogen. Human systemic effects by ingestion: agranulocytosis, dermatitis, fever, hemorrhage, increased body temperature, dermatitis, leukopenia, proteinuria, thrombocytopenia. Human teratogenic effects by an unspecified route: developmental abnormalities of the craniofacial areas, skin, and skin appendages, and body wall. Experimental reproductive effects. Questionable human carcinogen producing leukemia. Mutation data reported. Used in the treatment of rheumatoid arthritis, metal poisonings, and cystinuria. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS.

**MCS000 CAS: 8018-15-3 HR: 3
MERCUMATILIN SODIUM**

mf: C₁₄H₁₃HgO₆•C₇H₈N₄O₂•Na mw: 681.04

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: CUMERTILIN SODIUM □ 8-(γ-HYDROXYMERCURI-β-METHOXYPROPYL)-3-COUMARINCARBOXYLICACID THEOPHYLLINE SODIUM □ 8-(3-(HYDROXYMERCURI)-2-METHOXYPROPYL)-2-OXO-2H-1-BENZOPYRAN-3-CARBOXYLIC ACID SODIUM SALT COMPOUND with THEOPHYLLINE (1:1)

TOXICITY DATA with REFERENCE:

orl-rat LD50:809 mg/kg JPETAB 105,336,52

ivn-rat LD50:33 mg/kg JPETAB 105,336,52

ims-rat LD50:42 mg/kg JPETAB 105,336,52

scu-mus LD50:282 mg/kg JPETAB 105,336,52

ivn-mus LD50:139 mg/kg JPETAB 105,336,52

ivn-rbt LD50:25 mg/kg JPETAB 105,336,52

ims-rbt LD50:44 mg/kg JPETAB 105,336,52

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

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: A poison by intravenous, intramuscular, and subcutaneous routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Hg, Na₂O and NO_x. See also MERCURY COMPOUNDS.

MCS100 CAS: 32754-35-1 HR: D

MERCURATE(1-), (I-CYSTEINATO(2-)S)METHYL HYDROGEN

mf: C₄H₈HgNO₂S•H mw: 335.79

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: (I-CYSTEINATO(2-)S)METHYLMERCURATE(1-) HYDROGEN □ METHYLMERCURIC CYSTEINE □ METHYLMERCURY CYSTEINE □ MERCURY, ((2-AMINO-2-CARBOXY-ETHYL)THIO)METHYL-, I-

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Hg.

**MCS250 CAS: 64049-28-1 HR: 3
2,2'-MERCURIBIS(6-ACETOXYMERCURI-4-NITRO)ANILINE**

mf: C₁₆H₁₄Hg₃N₂O₈ mw: 964.09

PROP: IDLH 10 mg/m³ (as Hg).

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:250 mg/kg NCNSA6 5,12,53

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

**MCS500 CAS: 64047-26-3 HR: 3
MERCURIBIS(DIETHYL(2,2-DIMETHYL-4-DITHIOCARBOXYAMINO))BUTYL-AMMONIUM DICHLORIDE**

mf: C₂₂H₄₆HgN₄S₄•2Cl mw: 766.45

PROP: IDLH 10 mg/m³ (as Hg).

TOXICITY DATA with REFERENCE:

ivn-rbt LDLo:10 mg/kg JPETAB 41,21,31

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of Hg, NO_x, SO_x, and Cl⁻. See also MERCURY COMPOUNDS.

**MCS600 CAS: 66499-61-4 HR: 3
MERCURIBIS-o-NITROPHENOL**
mf: C₁₂H₈HgN₂O₆ mw: 476.81

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: BIS(4-HYDROXY-3-NITROPHENYL)MERCURY □ MERCURY, BIS(4-HYDROXY-3-NITROPHENYL)-

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:105 mg/kg JPETAB 31,87,27

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

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

MCS750 CAS: 1600-27-7 HR: 3
MERCURIC ACETATE

DOT: UN 1629

mf: C₄H₆O₄•Hg mw: 318.69

PROP: White crystals or powder; photosensitive; slt acetic odor. D: 3.280, mp: 178–180° (overheating causes decomp). Sol in H₂O and AcOH. IDLH 10 mg/m³ (as Hg).

SYNS: ACETIC ACID, MERCURY(2+) SALT □

BIS(ACETYLOXY)MERCURY □ DIACETOXYMERCURY □ MERCURIACETATE □ MERCURIC DIACETATE □ MERCURY ACETATE □ MERCURY(2+) ACETATE □ MERCURY(II) ACETATE □ MERCURY DIACETATE □ MERCURY ACETATE

TOXICITY DATA with REFERENCE:

oth-mus:oth 50 mg/L MUREAV 17,93,73

orl-rat LD50:40,900 µg/kg GISAAA 46(8),12,81

skn-rat LD50:570 mg/kg GTPZAB 25(7),27,81

orl-mus LD50:23,900 µg/kg GISAAA 46(8),12,81

ipr-mus LD50:6500 µg/kg GTPZAB 25(7),27,81

scu-mus LDLo:20 mg/kg MOLAAF 73,751,39

ivn-mus LD50:4390 µg/kg NYKZAU 57,219,61

orl-uns LD50:65 mg/kg GISAAA 49(9),11,84

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Mercury and its compounds are on the Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. Moderately toxic by skin contact. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

MCT000 CAS: 6937-66-2 HR: 3

MERCURIC-8,8-DICAFFEINE

mf: C₁₆H₁₈HgN₈O₄ mw: 587.01

PROP: IDLH 10 mg/m³ (as Hg).

SYN: BIS(1,3,7-TRIMETHYL-8-XANTHINYL)MERCURY

TOXICITY DATA with REFERENCE:

ivn-mus LD50:32 mg/kg CSLNX* NX#04388

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

MCT250 CAS: 63766-15-4 HR: 3
MERCURIC DINAPHTHYLMETHANE
DISULFONATE

mf: C₂₁H₁₆O₆S₂•xHg mw: 1832.62

PROP: IDLH 10 mg/m³ (as Hg).

SYN: 3,3'-METHYLENEDI-2-NAPHTHALENESULFONIC ACID, MERCURY SALT

TOXICITY DATA with REFERENCE:

orl-mus LD50:30 mg/kg JPPMAB 2,20,50

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of SO_x and Hg. See also MERCURY COMPOUNDS and SULFONATES.

MCT500 CAS: 21908-53-2 HR: 3
MERCURIC OXIDE

DOT: UN 1641

mf: HgO mw: 216.59

PROP: Heavy, bright orange-red or orange-yellow powder. Mp: decomp @ 500°, d: 11.14. Practically insol in water; sol in dil HCl or HNO₃. Protect from light. IDLH 10 mg/m³ (as Hg).

SYNS: C.I. 77760 □ MERCURIC OXIDE, RED □ MERCURIC OXIDE, solid (DOT) □ MERCURIC OXIDE, YELLOW □ MERCURY(II) OXIDE □ OXYDE de MERCURE (FRENCH) □ QUECKSILBEROXID (GERMAN) □ RED OXIDE of MERCURY □ RED PRECIPITATE □ SANTAR □ YELLOW MERCURIC OXIDE □ YELLOW OXIDE of MERCURY □ YELLOW PRECIPITATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:18 mg/kg NTIS** PB214-270

skn-rat LD50:315 mg/kg GTPZAB 25(7),27,81

ims-rat LDLo:22 mg/kg NCIUS* PH 43-64-886,SEPT,71

orl-mus LD50:16 mg/kg GTPZAB 25(7),27,81

ipr-mus LD50:4500 µg/kg GTPZAB 25(7),27,81

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Mercury and its compounds are on the

Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion, skin contact, intraperitoneal, and intramuscular routes. An experimental teratogen. Experimental reproductive effects. An FDA over-the-counter drug. Used for treating fruit trees. Flammable by chemical reactions. A powerful oxidizer. Explosive reaction with acetyl nitrate, butadiene + ethanol + iodine (at 35°C), chlorine + hydrocarbons (e.g., methane, ethylene), diboron tetrafluoride, hydrogen peroxide + traces of nitric acid, reducing agents (e.g., hydrazine hydrate, phosphinic acid). Forms heat- or impact-sensitive explosive mixtures with nonmetals (e.g., phosphorus, sulfur), metals (e.g., magnesium, potassium, sodium-potassium alloy). Reacts violently with hydrogen trisulfide (on ignition), hydrazine hydrate, hydrogen peroxide, hypophosphorous acid, iodine + methanol or ethanol, phospham, acetyl nitrate, S₂Cl₂, reductants. Incandescent reaction with phospham. When heated to decomposition it emits highly toxic fumes of Hg. See also MERCURY COMPOUNDS, INORGANIC.

MCT750 **HR: 3**

MERCURIC PEROXYBENZOATE

mf: C₁₄H₁₀HgO₆ mw: 474.83

PROP: IDLH 10 mg/m³ (as Hg).

SYN: MERCURY(II) PEROXYBENZOATE

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

SAFETY PROFILE: Poison. Explodes when heated above 100°C. Upon decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

MCU000 **CAS: 5970-32-1** **HR: 3**

MERCURIC SALICYLATE

DOT: UN 1644

mf: C₇H₄HgO₃ mw: 336.70

PROP: White-yellow or pinkish, odorless powder. Insol in water or alc; sol in warm solns of alkali halides. IDLH 10 mg/m³ (as Hg).

SYNS: MERCURIC SALICYLATE, solid (DOT) □

MERCURISALICYLIC ACID □ MERCURY SALICYLATE □ MERCURY SUBSALICYLATE

TOXICITY DATA with REFERENCE:

scu-mus LDLo:10 mg/kg MOLAAB 73,751,39

ims-rbt LDLo:40 mg/kg JPETAB 27,385,26

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by subcutaneous and intramuscular routes. An FDA over-the-counter drug. Incompatible with alkali iodides. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

MCU250 **CAS: 592-85-8** **HR: 3**

MERCURIC SULFOCYANATE

DOT: UN 1646

mf: C₂HgN₂S₂ mw: 316.79

PROP: White, odorless powder; sltly sol in cold water; more sol in boiling water (decomp); sol in dil HCl. Protect from light. IDLH 10 mg/m³ (as Hg).

SYNS: BIS(THIOCYANATO)-MERCURY □ MERCURIC SULFOCYANIDE □ MERCURIC SULFOCYANATE, solid (DOT) □ MERCURIC THIOCYANATE □ MERCURIC THIOCYANATE, solid (DOT) □ MERCURY DITHIOCYANATE □ MERCURY THIOCYANATE (DOT) □ MERCURY(II) THIOCYANATE □ THIOCYANIC ACID, MERCURY(2+) SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:46 mg/kg GTPZAB 25(7),27,81

skn-rat LD50:685 mg/kg GTPZAB 25(7),27,81

orl-mus LD50:24,500 µg/kg GTPZAB 25(7),27,81

ipr-mus LD50:3500 µg/kg GTPZAB 25(7),27,81

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. Thermally unstable and decomposition may be vigorous. When heated to decomposition it emits very toxic fumes of Hg, NO_x, SO_x, and CN⁻. See also MERCURY COMPOUNDS and CYANATES.

MCU500 **CAS: 535-55-7** **HR: 3**

MERCURIPHENOLDISULFONATE SODIUM

mf: C₁₂H₈O₈S₂•Hg•2Na mw: 590.89

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: HERMOPHENYL □ p-HYDROXY-BENZENESULFONIC ACID MERCURY DERIVATIVE, DISODIUM SALT □ MERCURY and SODIUM PHENOLSULFONATE

TOXICITY DATA with REFERENCE:

ivn-rbt LDLo:24 mg/kg JPETAB 41,21,31

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of Hg, Na₂O and SO_x. See also MERCURY COMPOUNDS and SULFONATES.

MCU750 CAS: 55-68-5 HR: 3
MERCURIPHENYL NITRATE

DOT: UN 1895

mf: C₆H₅HgNO₃ mw: 339.71

PROP: Crystals. Mp: 176–186°. Insol in cold water. IDLH 10 mg/m³ (as Hg).

SYNS: FENYLMERKURINITRAT □ MERPHENYL NITRATE □ MERSOLITE 7 □ NITRIC ACID, PHENYLMERCURY SALT □ PHE-MER-NITE □ PHENALCO □ PHENITOL □ PHENMERZYL NITRATE □ PHENYLMERCURIC NITRATE □ PHENYL--MERCURY NITRATE □ PHERMERNITE

TOXICITY DATA with REFERENCE:

ivn-rbt LDLo:5 mg/kg JAMAAP 117,1784,41

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by intravenous route. FDA over-the-counter drug. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS and NITRATES.

MCV000 CAS: 129-16-8 HR: 3
MERCUROCHROME

mf: C₂₀H₁₀Br₂HgO₆•2Na mw: 752.69

PROP: Iridescent green scales. Sol in H₂O (soln carmine-red); insol in EtOH, Me₂CO, CHCl₃, and Et₂O. IDLH 10 mg/m³ (as Hg).

SYNS: ASCEPTICHROME □ ASEPTICHROME □ CHROMARG-YRE □ 2,7-DIBROMO-4-HYDROXYMERCURI-FLUORESCINE DISODIUM SALT □ DISODIUM-2,7-DIBROM-4-HYDROXY-MERCURI-FLUORESCIN □ DISODIUM-2,7'-DIBROMO-4'-(HYDROXYMERCURY)FLUORESCIN □ DOMF □ FLAVUROL □ FLUOROCHROME □ GALLOCHROME □ GYNOCROME □ MERBROMIN □ MERCURANINE □ MERCUROCHROME-220 SOLUBLE □ MERCUROCOL □ MERCUROME □ MERCURO-PHAGE □ PLANOCHROME

TOXICITY DATA with REFERENCE:

mrc-smc 10 mg/L EVHPAZ 31,97,79

sln-smc 50 mg/L EVHPAZ 31,97,79

ipr-mus LDLo:200 mg/kg JPETAB 43,71,31

scu-mus LDLo:20 mg/kg MOLAAF 73,751,39

ivn-mus LD50:50 mg/kg JPETAB 43,645,31

ivn-rbt LDLo:15 mg/kg JPETAB 35,343,29

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous and subcutaneous routes. Mutation data reported. Relatively nonirritating and nontoxic to damaged skin or tissue. A topical antiseptic. An FDA over-the-counter drug. When heated to decomposition it emits very toxic fumes including fumes of Na₂O, Br⁻, and Hg. See also MERCURY COMPOUNDS, ORGANIC.

MCV250 CAS: 12002-19-6 HR: 3
MERCUROL

DOT: UN 1639

PROP: Colorless to brownish powder. Contains 20% mercury. IDLH 10 mg/m³ (as Hg).

SYN: MERCURY NUCLEATE, solid (DOT)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A poison. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

MCV500 CAS: 52486-78-9 HR: 3
MERCUROPHEN

mf: C₆H₅HgNO₄•Na mw: 378.70

PROP: Brick-red, odorless powder. Sol in hot H₂O. IDLH 10 mg/m³ (as Hg).

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:30 mg/kg JPETAB 43,71,31

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x, Na₂O, and Hg vapors. See also MERCURY COMPOUNDS.

MCV750 CAS: 8012-34-8 HR: 3
MERCUROPHYLLINE

mf: C₁₄H₂₄HgNO₅•C₇H₈N₄O₂•Na mw: 690.16

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: MERCUPURIN □ MERCUZANTHIN

TOXICITY DATA with REFERENCE:

ivn-hmn TDLo:28 mg/kg:CVS JAMAAP 117,1806,41

ipr-rat LD50:121 mg/kg THERAP 10,936,55

scu-mus LD50:163 mg(Hg)/kg JPETAB 105,336,52

ivn-mus LD50:1410 mg/kg JPETAB 99,149,50

ivn-cat LDLo:250 mg/kg JPETAB 99,149,50

ivn-rbt LDLo:177 mg/kg JPETAB 99,149,50

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by subcutaneous, intraperitoneal, and intravenous routes. Human systemic effects by intravenous route: cardiac arrhythmias. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

**MCW000 CAS: 7546-30-7 HR: 3
MERCUROUS CHLORIDE**

mf: ClHg mw: 236.04

PROP: White, odorless, tasteless, heavy powder or crystals. Subl @ 400°, d: 7.150. Insol in water, alc, and ether. Protect from light. Sunlight causes it to decompose into mercuric chloride and metallic Hg. IDLH 10 mg/m³ (as Hg).

SYNS: CALOGREEN □ CALOMEL □ CALOMELANO (ITALIAN) □ CALOSAN □ CHLORURE MERCUREUX (FRENCH) □ C.I. 77764 □ CLORURO MERCURIOSO (ITALIAN) □ CYCLOSAN □ CALOMEL (GERMAN) □ MERCUROCHLORID (DUTCH) □ MERCURY(I) CHLORIDE □ MERCURY MONOCHLORIDE □ MERCURY PROTOCHLORIDE □ MILD MERCURY CHLORIDE □ PRECIPITE BLANC □ QUECK-SILBER(I)-CHLORID (GERMAN) □ QUECKSILBER CHLORUER (GERMAN) □ SUBCHLORIDE of MERCURY

TOXICITY DATA with REFERENCE:

mc-bcs 50 mmol/L MUREAV 77,109,80
sce-ham:ovr 3200 nmol/L ENMUDM 7,381,85
orl-rat LD50:166 mg/kg GTPZAB 25(7),27,81
skn-rat LD50:1500 mg/kg GTPZAB 25(7),27,81
orl-mus LD50:180 mg/kg GTPZAB 25(7),27,81
ipr-mus LD50:10 mg/kg GTPZAB 25(7),27,81

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. Mutation data reported. A fungicide. An FDA over-the-counter drug. Incompatible with bromides, iodides, alkali chlorides, sulfates, sulfites, carbonates, hydroxides, lime water, ammonia, golden antimony sulfide, cyanides, copper salts, hydrogen peroxide, iodine, iodoform, lead salts, silver salts, sulfides. When heated to decomposition

it emits very toxic fumes of Cl⁻ and Hg. See also MERCURY COMPOUNDS.

**MCW250 CAS: 7439-97-6 HR: 3
MERCURY**

DOT: NA 2809

af: Hg aw: 200.59

PROP: Silvery, heavy, mobile liquid at room temp, freezing to a white solid. Solid: tin-white, ductile, malleable mass that can be cut with a knife. A liquid metallic element. Colorless vapor. When heated, reacts with O₂ (historically important reaction), S, halogens. Reacts with conc HNO₃, but not with dil non-oxidizing acids Mp: -38.89°, bp: 356.9°, d: 13.534 @ 25°, vap press: 2 × 10⁻³ mm @ 25°. IDLH 10 mg/m³ (as Hg).

SYNS: COLLOIDAL MERCURY □ KWIK (DUTCH) □ MERCURE (FRENCH) □ MERCURIO (ITALIAN) □ MERCURY, METALLIC (DOT) □ NCI-C60399 □ QUECKSILBER (GERMAN) □ QUICK SILVER □ RCRA WASTE NUMBER U151 □ RTEC (POLISH)

TOXICITY DATA with REFERENCE:

cyt-man-unr 150 µg/m³ AEHLAU 34,461,79
ihl-rat TCLo:1 mg/m³/24H (female 1-20D post):TER TJADAB 35,59A,87
ihl-rat TCLo:7440 ng/m³/24H (16W male):REP GISAAA 45(3),72,80
ipr-rat TDLo:400 mg/kg/14D-I:ETA ZEKBAI 61,511,57
ihl-man TDLo:44,300 µg/m³/8H:CNS,LIV,MET JOCMA7 20,532,78
ihl-wmn TCLo:150 µg/m³/46D:CNS,GIT AEHLAU 33,186,78
skn-man TDLo:129 mg/kg/5H-C:EAR,CNS,SKN DERAAC 172,48,86
ihl-rbt LCLo:29 mg/m³/30H AMIHBC 7,19,53

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

OSHA PEL: Vapor: TWA 0.05 mg/m³ (skin)

ACGIH TLV: TWA 0.025 mg(Hg)/m³ (skin); Not Classifiable as a Carcinogen; BEI 35 µg/g creatinine total inorganic mercury in urine, preshift

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by inhalation. Human systemic effects by inhalation: wakefulness, muscle weakness, anorexia, headache, tinnitus, hypermotility, diarrhea, liver changes, dermatitis, fever. An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. Human mutation data reported. Used in dental applications, electronics, and chemical synthesis.

May explode on contact with 3-bromopropyne, alkynes + silver perchlorate, ethylene oxide, lithium, methylsilane + oxygen (explodes when shaken), peroxyformic acid, chlorine dioxide, tetracarbonylnickel + oxygen. May react with ammonia to form an explosive product. Mixtures with methyl azide are shock- and spark-sensitive explosives. The vapor ignites on contact with boron diiodophosphide. Reacts violently with acetylenic compounds (e.g., acetylene, sodium acetylide, 2-butyne-1,4-diol + acid), metals (e.g., aluminum, calcium, potassium, sodium, rubidium, exothermic formation of

amalgams), Cl₂, ClO₂, CH₃N₃, Na₂C₂, nitromethane. Incompatible with methyl azide, oxidants. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-185S or NIOSH: Mercury, 6000.

MCW349 CAS: 68833-55-6 HR: 3
MERCURY ACETYLIDE (DOT)

mf: C₂HHg mw: 225.62

PROP: IDLH 10 mg/m³ (as Hg).

SYN: MERCURY ACETYLIDE

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)

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: Extremely reactive. When heated to decomposition it emits toxic fumes of Hg.

MCW350 CAS: 37297-87-3 HR: 3
MERCURY(II) ACETYLIDE

mf: C₂Hg mw: 224.61

PROP: IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: A shock- and heat-sensitive explosive. Upon decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS and ACETYLIDES.

MCW500 CAS: 10124-48-8 HR: 3
MERCURY AMIDE CHLORIDE

DOT: UN 1630

mf: ClH₂HgN mw: 252.07
H₂NHgCl

PROP: White, pulverized lumps or powder. IDLH 10 mg/m³ (as Hg).

SYNS: AMINOMERCURIC CHLORIDE □ AMMONIATED MERCURY □ MERCURIC AMMONIUM CHLORIDE, solid □ MERCURIC CHLORIDE, AMMONIATED □ MERCURY AMINE CHLORIDE □ MERCURY AMMONIATED □ WHITE MERCURY PRECIPITATED □ WHITE PRECIPITATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:86 mg/kg GTPZAB 25(7),27,81

skn-rat LD50:1325 mg/kg GTPZAB 25(7),27,81

orl-mus LD50:68 mg/kg GTPZAB 25(7),27,81

ipr-mus LD50:7500 µg/kg GTPZAB 25(7),27,81

ipr-rat TDLo:8925 µg/kg/17W-I GTPZAB 28(5),46,84

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A poison by ingestion.

Moderately toxic by skin contact. Explosive reaction with halogens or amine metal salts. When heated to decomposition it emits very toxic fumes of Cl⁻, NO_x, and Hg. See also MERCURY COMPOUNDS.

MCX000 CAS: 38232-63-2 HR: 3
MERCURY(I) AZIDE

mf: Hg₂N₆ mw: 485.22

PROP: White, light-sensitive solid. Bp: 220°. Sltly sol in H₂O. IDLH 10 mg/m³ (as Hg).

SYNS: MERCUROUS AZIDE (DOT) □ MERCURY AZIDE

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: Poison. Explodes on heating in air. When heated to decomposition it emits very toxic fumes of NO_x and Hg. See also AZIDES and MERCURY COMPOUNDS.

MCX250 CAS: 14215-33-9 HR: 3
MERCURY(II) AZIDE

mf: HgN₆ mw: 284.65

PROP: IDLH 10 mg/m³ (as Hg).

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

PROP: Crystals from H₂O.

SAFETY PROFILE: Poison. A friction-sensitive explosive with high brisance (shattering power). When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS and AZIDES.

MCX500 CAS: 583-15-3 HR: 3
MERCURY(II) BENZOATE

DOT: UN 1631

mf: C₁₄H₁₀O₄•Hg mw: 442.83

PROP: White, crystalline, odorless powder or solid. Mp: 120–129°. Very sol in NaCl soln; insol in alc. IDLH 10 mg/m³ (as Hg).

SYNS: MERCURIC BENZOATE □ MERCURIC BENZOATE, solid (DOT)

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A poison. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

MCX600 CAS: 64771-59-1 HR: 3
MERCURY BIS(CHLOROACETYLIDE)
 mf: C₄Cl₂Hg mw: 319.54
 (ClC≡C)₂Hg

PROP: Lustrous plates from CHCl₃. Mp: 185°. Mod sol in hot Et₂O; sltly sol in cold Et₂O. IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: Explodes violently when heated above its mp of 185°C. Upon decomposition it emits toxic fumes of Hg and Cl⁻. See also MERCURY COMPOUNDS and ACETYLIDES.

MCX700 CAS: 13465-33-3 HR: 3
MERCURY(II) BROMATE
 mf: Br₂Hg₂O₆ mw: 656.98

PROP: Colorless crystals, unstable to x-rays. IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: A poison. Ignites on contact with hydrogen sulfide. When heated to decomposition it emits toxic fumes of Br⁻ and Hg. See also MERCURY COMPOUNDS and BROMATES.

MCX750 CAS: 10031-18-2 HR: 3
MERCURY(II) BROMIDE (1:1)
 mf: BrHg mw: 280.50

PROP: White-yellow, odorless, tetragonal crystals or powder. Darkens on exposure to light. D: 7.307, vap d: 19.3. Sublimes @ approx 390° (decomp). Insol in water, alc, and ether; decomp by hot HCl or alkali bromides. Protect from light. IDLH 10 mg/m³ (as Hg).

SYN: MERCUROUS BROMIDE, solid (DOT)

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: A poison. When heated to decomposition it emits very toxic fumes of Br⁻ and Hg. See also MERCURY COMPOUNDS and BROMIDES.

MCY000 CAS: 7789-47-1 HR: 3
MERCURY(II) BROMIDE (1:2)
 mf: Br₂Hg mw: 360.41

PROP: White crystals or sublimable, colorless, crystalline powder or yellow liquid. Sensitive to light. Mp: 238°, bp: 318° (subl), d: 6.109 @ 25°, vap press: 1 mm @ 136.5°. Very sol in hot alc, methanol, HCl, HBr, alkali bromide solns; sltly sol in chloroform. IDLH 10 mg/m³ (as Hg).

SYNS: MERCURIC BROMIDE □ MERCURIC BROMIDE, solid

TOXICITY DATA with REFERENCE:

orl-rat LD50:40 mg/kg GTPZAB 25(7),27,81

skn-rat LD50:100 mg/kg GTPZAB 25(7),27,81

orl-mus LD50:35 mg/kg GTPZAB 25(7),27,81

ipr-mus LD50:5 mg/kg GTPZAB 25(7),27,81

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: A poison by ingestion, skin contact, and intraperitoneal routes. Vigorous reaction with indium at 350°C. Incompatible with sodium and potassium. When heated to decomposition it emits very toxic fumes of Br⁻ and Hg. See also MERCURY COMPOUNDS and BROMIDES.

MCY250 CAS: 64011-37-6 HR: 3
MERCURY(II) BROMIDE COMPLEX with TRIS(2-ETHYLHEXYL) PHOSPHITE

mf: C₂₄H₅₁O₃P•Br₂Hg mw: 779.13

PROP: IDLH 10 mg/m³ (as Hg).

SYN: PHOSPHOROUS ACID, TRIS(2-ETHYLHEXYL) ESTER, COMPLEX with MERCURY(II) BROMIDE (1:1)

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:31,300 µg/kg CBCCT* 7,790,55

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of PO_x, Br⁻, and Hg. See also individual components.

MCY300 CAS: 10112-91-1 HR: 3
MERCURY CHLORIDE

mf: Cl₂Hg₂ mw: 472.08

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: CALOGREEN □ CALOMEL □ CALOTAB □ CHLORURE MERCUREUX □ CYCLOSAN □ DIMERCURY DICHLORIDE □ MERCUROUS CHLORIDE □ MERCURY SUBCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:210 mg/kg PEMNDP 9,552,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of Hg and Cl⁻.

MCY475 CAS: 7487-94-7 HR: 3

MERCURY(II) CHLORIDE

DOT: UN 1624

mf: Cl₂Hg mw: 271.50

PROP: White colorless crystals or powder. Mp: 280°, bp: 302°, d: 5.440 @ 25°, vap press: 1 mm @ 136.2°. IDLH 10 mg/m³ (as Hg).

SYNS: BICHLORIDE of MERCURY □ BICHLORURE de MERCURE (FRENCH) □ CALOCHLOR □ CHLORID RTUTNATY (CZECH) □ CHLORURE MERCURIQUE (FRENCH) □ CLORURO di MERCURIO (ITALIAN) □ CORROSIVE MERCURY CHLORIDE □ CORROSIVE SUBLIMATE □ MERCURIC CHLORIDE (DOT) □ MERCURY BICHLORIDE □ MERCURY PERCHLORIDE □ NCI-C60173 □ PERCHLORIDE of MERCURY □ QUECKSILBER CHLORID (GERMAN) □ SUBLIMAT (CZECH) □ SULEMA (RUSSIAN) □ TL 898

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV 28ZPAK -,12,72
eye-rbt 50 µg/24H SEV 28ZPAK -,12,72
cyt-ham-scu 6400 µg/kg TJADAB 25,381,82
cyt-hmn:lym 5 µmol/L MUREAV 157,221,85
orl-wmn TDLo:50 mg/kg;GIT,KID AJOGAH 80,145,60
orl-hmn LDLo:29 mg/kg NEJMAG 244,459,51
orl-man TDLo:29 mg/kg;PUL,KID MJAUJ 2,125,78
orl-man LDLo:86 mg/kg JTCTDW 26,189,88
unr-man LDLo:7253 µg/kg 85DCAI 2,73,70
orl-rat LD50:1 mg/kg PEMNDP 9,550,91
skn-rat LD50:41 mg/kg GTPZAB 25(7),27,81
ipr-rat LD50:3210 µg/kg PSDTAP 12,247,71
scu-mus LD50:4500 µg/kg NEZAAQ 34,193,79
skn-rat LD50:41 mg/kg GTPZAB 25(7),27,81
orl-mus LD50:6 mg/kg GISAAA 51(1),76,86
ipr-mus LD50:6 mg/kg GISAAA 51(1),76,86
ihl-mus LCLo:300 mg/m³/10M NDRC** No. 9-4-1-9,43

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 58,239,93; Animal Limited Evidence IMEMDT 58,239,93; Human Inadequate Evidence IMEMDT 58,239,93. Mercury and its compounds are on the Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory. EPA Extremely Hazardous Substances List.

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A human poison by ingestion. Poison experimentally by ingestion, skin contact, and subcutaneous routes. Human systemic effects by ingestion: respiratory obstruction, nausea or vomiting, urine volume decrease or anuria. Human reproductive effects by ingestion: terminates pregnancy. Experimental teratogenic and reproductive effects. Human mutation

data reported. Questionable carcinogen. A severe eye and skin irritant. Reaction with sodium aci-nitromethanide + acids forms the explosive mercury fulminate. Reacts violently with K, Na. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS and CHLORIDES.

MCY500 CAS: 63981-49-7 HR: 3

MERCURY(II) CHLORIDE COMPLEX with TRIS(2-ETHYLHEXYL) PHOSPHITE

mf: C₂₄H₅₁O₃P•Cl₂Hg mw: 690.21

PROP: IDLH 10 mg/m³ (as Hg).

SYN: PHOSPHOROUS ACID, TRIS(2-ETHYLHEXYL) ESTER, COMPLEX with MERCURY(II) CHLORIDE (1:1)

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:62,500 µg/kg CBCCT* 7,791,55

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

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 very toxic fumes of Hg, Cl⁻, and PO_x. See also individual components.

MCY750 HR: 3

MERCURY(I) CHLORITE

mf: Cl₂Hg₂O₄ mw: 536.08

PROP: IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: A poison. The dry chlorite is spontaneously explosive. Upon decomposition it emits very toxic fumes of Cl⁻ and Hg. See also MERCURY COMPOUNDS and CHLORITES.

MCY755 CAS: 7616-83-3 HR: 3

MERCURY(II) CHLORITE

mf: Cl₂HgO₄ mw: 335.49

PROP: White hygroscopic crystals. Sol in MeOH, dioxane, and H₂O with effervescence. IDLH 10 mg/m³ (as Hg).

SYN: MERCURY DICHLORITE

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

SAFETY PROFILE: A poison. The dry chlorite is spontaneously explosive. Upon decomposition it emits toxic fumes of Cl⁻ and Hg. See also MERCURY COMPOUNDS and CHLORITES.

MCZ000 HR: 3

MERCURY COMPOUNDS, INORGANIC

PROP: IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: Mercury is a general protoplasmic poison; after absorption it circulates in the blood and is stored in the liver, kidneys, spleen, and bone. In industrial poisoning, the principal effect is upon the central nervous system, the mouth, and gums. The cardinal symptoms of industrial mercury poisoning are stomatitis, tremors, and psychic disturbances. Usually the first complaints are of

excessive salivation and painful chewing. In severe cases there may be gingivitis with loosening of the teeth, and a dark line on the gum margins resembling the "lead line." The psychic disturbance (so called "erethism") includes loss of memory, insomnia, lack of confidence, irritability, vague fears, and depression. The dermatitis produced by fulminate of mercury takes the form of small, discrete ulcers on the exposed parts, and is usually accompanied by conjunctivitis and inflammation of the mucous membranes of the nose and throat. In humans, it is readily absorbed by the respiratory tract (elemental mercury vapor, dusts of mercury compounds), intact skin, and the gastrointestinal tract. Occasional incidental swallowing of metallic mercury may be without harm. Spilled and heated elemental mercury is particularly hazardous. A number of mercury compounds, in addition to the fulminate, can cause skin irritation and be absorbed through the skin. They are strong allergens and common air contaminants. Acute toxicity: Soluble salts have violent corrosive effects on skin and mucous membranes, cause severe nausea, vomiting, abdominal pain, bloody diarrhea, kidney damage, and death usually within 10 days. Many mercury compounds are explosively unstable or undergo hazardous reactions. When heated to decomposition they emit toxic fumes of Hg.

MDA000 HR: 3**MERCURY COMPOUNDS, ORGANIC****PROP:** IDLH 10 mg/m³ (as Hg).**CONSENSUS REPORTS:** Mercury and its compounds are on the Community Right-To-Know List.**DFG MAK:** 0.01 mg/m³

SAFETY PROFILE: The customary grouping of all organic mercurials in a single category is not fully justified by the toxicity of the compounds. Alkyl mercurials have very high toxicity; aryl compounds, particularly the phenyls, are much less toxic, and the organomercurials used in therapeutics are less toxic. The alkyls and aryls commonly cause skin burns and other forms of irritation, and both can be absorbed through the skin. Fatal poisoning has occurred due to exposure to alkyl mercurials and permanent damage to the brain has been reported. Phenyl mercurials appear to be no more toxic than metallic mercury. Organic mercury compounds, like organic lead compounds, seem to have an affinity for lipid-containing organs, resulting in central nervous system disturbances such as from tetraethyl lead. These are common air contaminants. Many mercury compounds are explosively unstable or undergo hazardous reactions. When heated to decomposition they emit highly toxic fumes of Hg.

MDA100 CAS: 72044-13-4 HR: 3**MERCURY(I) CYANAMIDE**mf: CH₂HgN₂ mw: 240.61**PROP:** Colorless hexagonal crystals. IDLH 10 mg/m³ (as Hg).**CONSENSUS REPORTS:** Mercury and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** A poison. Explodes when heated rapidly to 325°C or when exposed to intense light while in a sealed container. When heated to decomposition it emitstoxic fumes of NO_x, CN⁻, and Hg. See also MERCURY COMPOUNDS.**MDA150 CAS: 3021-39-4 HR: 3****MERCURY(II) CYANATE**mf: C₂HgN₂O₂ mw: 284.62**PROP:** IDLH 10 mg/m³ (as Hg).**CONSENSUS REPORTS:** Mercury and its compounds, as well as cyanide and its compounds, are on the Community Right-To-Know List.**SAFETY PROFILE:** A poison. A pressure-sensitive explosive. When heated to decomposition it emits toxic fumes of NO_x, CN⁻, and Hg. See also MERCURY COMPOUNDS, CYANIDE, and CYANATES.**MDA250 CAS: 592-04-1 HR: 3****MERCURY(II) CYANIDE****DOT:** UN 1636mf: C₂HgN₂ mw: 252.63**PROP:** Colorless, odorless, transparent prisms; darkened by light. Two forms: grayish crystals (low P-form); dark brown solid (high P-form). Decomp @ 320°, d: 3.996. Sol in H₂O; sol in EtOH and ether. IDLH 10 mg/m³ (as Hg).**SYNS:** CYANURE de MERCURE (FRENCH) □ MERCURIC CYANIDE, solid (DOT)**TOXICITY DATA with REFERENCE:**

orl-hmn TDLo:27 mg/kg;GIT,KID CTOXAO 11,301,77

orl-wmn TDLo:10 mg/kg;CNS,GIT JAMAAP 66,1694,16

orl-rat LDLo:25 mg/kg NCNSA6 5,28,53

ipr-rat LDLo:7500 µg/kg NCNSA6 5,28,53

orl-mus LD50:33 mg/kg NTIS** PB214-270

scu-dog LD50:2710 µg/kg PSEBAA 116,371,64

ivn-rbt LDLo:2 mg/kg JPETAB 41,21,31

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Mercury and its compounds, as well as cyanide and its compounds, are on the Community Right-To-Know List.**OSHA PEL:** CL 0.1 mg(Hg)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.**NIOSH REL:** (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)**DOT CLASSIFICATION:** 6.1; Label: Poison**SAFETY PROFILE:** Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Human systemic effects by ingestion: nausea or vomiting, hypermotility, diarrhea, kidney changes, somnolence. Hydrolyzes to toxic fumes. A friction- and impact-sensitive explosive. It may initiate detonation of liquid hydrogen cyanide. Incompatible with fluorine, magnesium, sodium nitrite. When heated to decomposition it emits very toxic fumes of Hg, NO_x, and CN⁻. See also CYANIDE and MERCURY COMPOUNDS.**MDA500 CAS: 1335-31-5 HR: 3****MERCURY CYANIDE OXIDE****DOT:** UN 1642mf: C₂Hg₂N₂O mw: 469.22

PROP: White, orthorhombic crystals or crystalline powder from water. D: 4.44. Sol in water. IDLH 10 mg/m³ (as Hg).

SYNS: MERCURIC OXYCYANIDE □ MERCURIC OXYCYANIDE, solid (desensitized) (DOT) □ MERCURY OXYCYANIDE

TOXICITY DATA with REFERENCE:

ivn-rbt LDLo:2500 µg/kg JPETAB 41,21,31

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: Forbidden; DOT Class: 6.1; Label: Poison (desensitized)

SAFETY PROFILE: Poison by intravenous route. An explosive sensitive to friction, impact, or heat. The commercial product is stabilized by excess mercury(II) cyanide. When heated to decomposition it emits very toxic fumes of Hg, CN⁻, and NO_x. See also MERCURY COMPOUNDS and CYANIDE.

MDA750 CAS: 30366-55-3 HR: 3
MERCURY-O,O-DI-n-BUTYL PHOSPHORO-DITHIOATE

mf: C₁₆H₃₆HgO₄P₂S₄ mw: 683.29

PROP: IDLH 10 mg/m³ (as Hg).

SYN: BIS(O,O-DIBUTYLPHOSPHORODITHIOATO-S)MERCURY

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#05638

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of SO_x, PO_x, and Hg. See also MERCURY COMPOUNDS.

MDA800 HR: 3
MERCURY(II) aci-DINITROMETHANIDE

mf: C₂H₂HgN₄O₈ mw: 410.65

PROP: IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: An explosive detonator. Upon decomposition it emits toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

MDB250 CAS: 12558-92-8 HR: 3
MERCURY(II) EDTA COMPLEX

mf: C₁₀H₁₄HgN₂O₈ mw: 490.8

PROP: IDLH 10 mg/m³ (as Hg).

SYN: (ETHYLENEDINITRILIO)TETRA ACETIC ACID, MERCURY(II) COMPLEX

TOXICITY DATA with REFERENCE:

orl-mus LD50:268 mg/kg JEPTDQ 2(6),1529,79

ipr-mus LD50:2700 µg(Hg)/kg PABIAQ 11,853,63

ivn-mus LD50:9500 µg/kg JEPTDQ 2(6),1529,79

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

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

MDB500 CAS: 63905-89-5 HR: 3
MERCURY(II) FLUOROACETATE

mf: C₄H₄FO₄•Hg mw: 335.67

PROP: IDLH 10 mg/m³ (as Hg).

SYN: FLUOROACETIC ACID, MERCURY(II) SALT

TOXICITY DATA with REFERENCE:

orl-rat LDLo:10 mg/kg NCNSA6 5,7,53

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of F⁻ and Hg. See also MERCURY COMPOUNDS.

MDB775 HR: 3
MERCURY(II) FORMOHYDROXAMATE

mf: C₂H₄HgN₂O₄ mw: 320.65

PROP: IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: A poison. An explosive. Upon decomposition it emits toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

MDC000 CAS: 628-86-4 HR: 3
MERCURY(II) FULMINATE

DOT: UN 0135

mf: C₂HgN₂O₂ mw: 284.63

PROP: White solid. Mp: explodes, d: 4.42. IDLH 10 mg/m³ (as Hg).

SYNS: FULMINATE of MERCURY □ FULMINATE of MERCURY (dry) (DOT) □ FULMINATING MERCURY (DOT) □ MERCURY FULMINATE, wetted with not <20% water, or mixture (UN 0135) (DOT) □ RCRA WASTE NUMBER P065

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

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

DOT CLASSIFICATION: Forbidden; DOT Class: EXPLOSIVE 1.1A; Label: EXPLOSIVE 1.1A (UN 0135)

SAFETY PROFILE: An explosive sensitive to flame, heat, impact, friction, intense radiation, or contact with sulfuric acid. Self-explodes. Dangerously flammable; should be kept moist until used. Incompatible with sulfuric acid. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS and FULMINATES.

MDC500 CAS: 63937-14-4 HR: 3
MERCURY(I) GLUCONATE

DOT: UN 1637

mf: C₆H₁₁O₇•Hg mw: 395.76

PROP: White solid. IDLH 10 mg/m³ (as Hg).

SYNS: MERCUROUS GLUCONATE □ MERCUROUS GLUCONATE, solid (DOT)

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A poison. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS, ORGANIC.

MDC750 CAS: 7783-30-4 HR: 3
MERCURY(II) IODIDE

DOT: UN 1638

mf: HgI₂ mw: 327.49

PROP: Heavy, odorless, yellow, tetragonal crystals or amorphous powder. D: 7.70, mp: 290° when rapidly heated (partial decomp). Insol in water, alc, and ether; sol in solns of mercurous or mercuric nitrates. Protect from light. IDLH 10 mg/m³ (as Hg).

SYNS: IODURE de MERCURE (FRENCH) □ MERCUROUS IODIDE □ MERCURY IODIDE (DOT) □ MERCURY IODIDE, solution (DOT) □ MERCURY PROTOIODIDE □ YELLOW MERCURY IODIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:110 mg/kg ATXKA8 20,226,64

ipr-mus LD50:50 mg/kg ATXKA8 20,226,64

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Hg and I₂. See also MERCURY and IODIDES.

MDD000 CAS: 7774-29-0 HR: 3
MERCURY(II) IODIDE

mf: HgI₂ mw: 454.39

PROP: Scarlet, heavy, odorless, almost tasteless powder. Sensitive to light. D: 6.28, mp: 259°, bp: approx 350° (subl). Very sol in alkali iodides, HgCl₂, Na₂S₂O₃; very sltly sol in water. IDLH 10 mg/m³ (as Hg).

SYNS: HYDRARGYRUM BIJODATUM (GERMAN) □ MERCURIC IODIDE □ MERCURIC IODIDE, solid □ MERCURIC IODIDE, solution □ MERCURIC IODIDE, RED □ MERCURY BINIODIDE □ RED MERCURIC IODIDE

TOXICITY DATA with REFERENCE:

orl-man LDLo:357 mg/kg ZKMEAB 106,783,27

orl-rat LD50:18 mg/kg GTPZAB 25(7),27,81

skn-rat LD50:75 mg/kg GTPZAB 25(7),27,81

orl-mus LD50:17 mg/kg GTPZAB 25(7),27,81

ipr-mus LD50:4200 µg/kg GTPZAB 25(7),27,81

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: A human poison by ingestion. Poison experimentally by ingestion, skin contact, and intraperitoneal routes. An experimental teratogen. Violent reaction with chlorine trifluoride. When heated to decomposition it emits very toxic fumes of Hg and I₂. See also MERCURY COMPOUNDS and IODIDES.

MDD250 CAS: 7774-29-0 HR: 3
MERCURY(II) IODIDE (solution)

mf: HgI₂ mw: 454.39

PROP: Scarlet red powder. Odorless. D: 6.36 @ 25°, mp: ~259°, bp: ~350°. Sol in water: 6mg/100 g @ 25°. IDLH 10 mg/m³ (as Hg).

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Inorganic Mercury) TWA 0.05 mg(Hg)/m³

SAFETY PROFILE: A poison. When heated to decomposition it emits very toxic fumes of Hg and I₂. See also MERCURY(II) IODIDE.

MDD500 CAS: 814-82-4 HR: 3**MERCURY(2+) LACTATE**mf: $C_6H_{12}O_6 \cdot Hg$ mw: 380.77**PROP:** White, crystalline powder. IDLH 10 mg/m³ (as Hg).**SYNS:** MERCURIC LACTATE □ PURATIZED B-2**TOXICITY DATA with REFERENCE:**

orl-rat LD50:200 mg/kg 28ZEAL 4,269,69

CONSENSUS REPORTS: Mercury and its

compounds are on the Community Right-To-Know List.

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)**SAFETY PROFILE:** Poison by ingestion. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.**MDD750 CAS: 115-09-3 HR: 3****MERCURY METHYLCHLORIDE**mf: CH_3ClHg mw: 251.08**PROP:** White crystals with characteristic odor or plates from EtOH. D: 4.063, mp: 170°. IDLH 10 mg/m³ (as Hg).**SYNS:** CASPAN □ CHLOROMETHYLMERCURY □ METHYLMERCURIC CHLORIDE □ METHYLMERCURY CHLORIDE □ MMC □ MONOMETHYL MERCURY CHLORIDE**TOXICITY DATA with REFERENCE:**

cyt-hmn:lym 1 µmol/L ESKGA2 26,99,80

dni-mus:lym 10 nmol/L TXCYAC 36,297,85

orl-mus TDLo:402 mg/kg/58W-C:CAR JTSCDR 8,329,83

orl-mus TD:731 mg/kg/58W-C:CAR TOLED5 18(Suppl 1),114,83

orl-rat LD50:29,915 µg/kg BECTA6 14,140,75

ipr-rat LD50:11 mg/kg TXAPA9 22,313,72

ims-rat LDLo:23 mg/kg NCIUS* PH 43-64-886,SEPT,71

orl-mus LD50:57,600 µg/kg ACATA5 104,356,79

ihl-mus LC50:80 mg/m³/4H 85JCAE -,1198,86

ipr-mus LD50:10 mg/kg TXAPA9 42,445,77

ipr-mky LD50:5600 µg/kg ENVRAL 15,5,78

ivn-rbt LDLo:15 mg/kg JPETAB 35,343,29

orl-gpg LD50:21 mg/kg TXAPA9 24,545,73

CONSENSUS REPORTS: Mercury and its

compounds are on the Community Right-To-Know List. EPA Genetic Toxicology Program.

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:** TWA 0.05 mg(Hg)/m³**SAFETY PROFILE:** Poison by ingestion, intramuscular, intravenous, and intraperitoneal routes.Questionable carcinogen with experimental carcinogenic and teratogenic data. Human mutation data reported. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of Cl⁻ and Hg. See also MERCURY COMPOUNDS.**MDE000 HR: 3****MERCURY(II) METHYLNITROLATE**mf: $C_2H_2HgN_4O_6$ mw: 340.64**PROP:** IDLH 10 mg/m³ (as Hg).**CONSENSUS REPORTS:** Mercury and its

compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Can explode. When heated to decomposition it emits toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.**MDE250 CAS: 631-60-7 HR: 3****MERCURY MONOACETATE****DOT:** UN 1629mf: $C_2H_3O_2 \cdot Hg$ mw: 259.64**PROP:** Light sensitive, colorless scales or plates from aq AcOH. Mp: decomp. Sol in dil acetic acid; insol in alc, ether. IDLH 10 mg/m³ (as Hg).**SYNS:** MERCUROUS ACETATE □ MERCUROUS ACETATE, solid (DOT) □ MERCURY ACETATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:175 mg/kg GTPZAB 25(7),27,81

skn-rat LD50:960 mg/kg GTPZAB 25(7),27,81

orl-mus LD50:150 mg/kg GTPZAB 25(7),27,81

ipr-mus LD50:10,200 µg/kg GTPZAB 25(7),27,81

CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.**OSHA PEL:** CL 0.1 mg(Hg)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)**DOT CLASSIFICATION:** 6.1; Label: Poison**SAFETY PROFILE:** A poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.**MDE500 CAS: 68448-47-5 HR: 3****MERCURY-2-NAPHTHALENEDIAZONIUM TRICHLORIDE**mf: $C_{10}H_7Cl_3HgN_2$ mw: 448.12**PROP:** IDLH 10 mg/m³ (as Hg).**SYN:** 2-NAPHTHALENEDIAZONIUM TRICHLORO-MERCURATE**CONSENSUS REPORTS:** Mercury and its

compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Explodes violently if heated during drying. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

MDE750 CAS: 10415-75-5 HR: 3
MERCURY(I) NITRATE (1:1)
DOT: UN 1627

mf: $\text{NO}_3 \cdot \text{Hg}$ mw: 262.60

PROP: Crystals. IDLH 10 mg/m³ (as Hg).

SYNS: MERCUROUS NITRATE, solid (DOT) □ NITRATE
 MERCUREUX (FRENCH) □ NITRIC ACID, MERCURY(I) SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:170 mg/kg GISAAA 46(8),12,81
 skn-rat LD50:2330 mg/kg GTPZAB 25(7),27,81
 orl-mus LD50:49,300 µg/kg GISAAA 46(8),12,81
 ipr-mus LD50:5 mg/kg ATXKA8 20,226,64
 orl-mam LD50:238 mg/kg GISAAA 49(9),11,84

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. A powerful oxidizer. Explodes on contact with red-hot carbon. Mixtures with phosphorus are impact-sensitive explosives. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

MDF000 CAS: 10045-94-0 HR: 3
MERCURY(II) NITRATE (1:2)
DOT: UN 1625

mf: $\text{N}_2\text{O}_6 \cdot \text{Hg}$ mw: 324.61

PROP: White-yellowish, deliq powder. Mp: 79°, bp: decomp, d: 4.39. IDLH 10 mg/m³ (as Hg).

SYNS: MERCURIC NITRATE □ MERCURY NITRATE □
 MERCURY PERNITRATE □ NITRATE MERCURIQUE (FRENCH)
 □ NITRIC ACID, MERCURY(II) SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:26 mg/kg GTPZAB 25(7),27,81
 skn-rat LD50:75 mg/kg GTPZAB 25(7),27,81
 orl-mus LD50:25 mg/kg GTPZAB 25(7),27,81
 ipr-mus LD50:7200 µg/kg GTPZAB 25(7),27,81
 scu-mus LDLo:20 mg/kg MOLAAF 73,751,39
 orl-mam LD50:87,800 µg/kg GISAAA 49(9),11,84

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion, skin contact, intraperitoneal, and subcutaneous routes. A powerful

oxidizer. Probably an eye, skin, and mucous membrane irritant. Reacts with acetylene to form the explosive mercury acetylide which is sensitive to heat, friction, or contact with sulfuric acid. Reaction with ethanol forms the explosive mercury fulminate. Reaction with isobutene forms an unstable explosive product. Forms explosive mixtures with phosphine (heat- and impact-sensitive), potassium cyanide (heat-sensitive), and sulfur. Violent reaction with phosphinic acid, hypophosphoric acid, unsaturated hydrocarbons, aromatics. Vigorous reaction with petroleum hydrocarbons. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS, INORGANIC; and NITRATES.

MDF050 CAS: 73128-65-1 HR: 3
MERCURY, NITRILOTRIACETATE

mf: $\text{C}_{12}\text{H}_{12}\text{HgN}_2\text{O}_{12}$ mw: 576.85

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: ACETIC ACID, NITRILOTRI-, MERCURY(II) COMPLEX
 □ MERCURATE(4-), BIS(N,N-BIS(CARBOXYMETHYL)GLYCIN-
 ATO(3-)-N₂O₂O⁻)-, TETRAHYDROGEN

TOXICITY DATA with REFERENCE:

orl-mus LD50:191 mg/kg JEPTDQ 2(6),1529,1979
 ivn-mus LD50:7500 µg/kg JEPTDQ 2(6),1529,1979

ACGIH TLV: TWA 0.01. STEL 0.03 mg/m³ (skin)

NIOSH REL: (MERCURY, ORGANO) TWA 0.01 mg/m³. STEL 0.03 mg/m³ (Sk)

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

MDF100 CAS: 60345-95-1 HR: 3
MERCURY(II) 5-NITROTETRAZOLIDE

mf: $\text{C}_2\text{HgN}_{10}\text{O}_4$ mw: 428.68

PROP: IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: A poison. An explosive. When heated to decomposition it emits toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

MDF250 CAS: 1191-80-6 HR: 3
MERCURY OLEATE

DOT: UN 1640

mf: $\text{C}_{36}\text{H}_{66}\text{O}_4 \cdot \text{Hg}$ mw: 763.61

PROP: Yellowish-brown, somewhat transparent, ointment-like mass; odor of oleic acid. Practically insol in water; sltly sol in alc and ether; very sol in oils. Protect from light. IDLH 10 mg/m³ (as Hg).

SYNS: MERCURIC OLEATE, solid (DOT) □ OLEATE of MERCURY

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A poison. An FDA over-the-counter drug. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

MDF350 CAS: 7784-37-4 HR: 3

MERCURY(II) ORTHOARSENATE

DOT: UN 1623

mf: AsHO₄•Hg mw: 340.52

PROP: Yellow powder. Mp: decomp. Insol in water; sol in HCl or HNO₃. IDLH 10 mg/m³ (as Hg).

SYN: MERCURIC ARSENATE

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

OSHA PEL: 0.01 mg(As)/m³; Cancer Hazard; CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.01 mg/m³; Confirmed Human Carcinogen; BEI: 35 µ(As)/L inorganic arsenic and methylated metabolites in urine; 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.

NIOSH REL: (Arsenic, Inorganic) CL 0.002 mg(As)/m³/15M; (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Confirmed human carcinogen. A poison. When heated to decomposition it emits very toxic fumes of Hg and As. See also MERCURY and ARSENIC COMPOUNDS.

MDF500 CAS: 3444-13-1 HR: 3

MERCURY(II) OXALATE

mf: C₂HgO₄ mw: 288.61

PROP: Unstable powder. Darkens rapidly in light. IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: An explosive sensitive to percussion, grinding or heating to 105°C. A storage hazard. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS and OXALATES.

MDF750 CAS: 15829-53-5 HR: 3

MERCURY(I) OXIDE

mf: Hg₂O mw: 417.22

PROP: Black to grayish-black powder. Mp: decomp @ 100°, d: 9.8. Insol in water; sol in HNO₃. Protect from light. IDLH 10 mg/m³ (as Hg).

SYNS: MERCUROUS OXIDE, BLACK, solid (DOT) □ QUECKSILBEROXID (GERMAN)

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: A poison. Flammable by chemical reaction; an oxidizer. Explosive reaction with hydrogen peroxide, chlorine + ethylene. Reacts violently with molten potassium, molten sodium, S, (H₂S + BaO + air). Forms explosive mixtures with nonmetals [e.g., phosphorus (impact-sensitive), sulfur (friction-sensitive)]. Incompatible with alkali metals, reducing materials. Dangerous; when heated to decomposition it emits highly toxic fumes of Hg. See also MERCURY COMPOUNDS, INORGANIC.

MDG000 CAS: 1312-03-4 HR: 3

MERCURY OXIDE SULFATE

mf: Hg₃O₆S mw: 729.83

PROP: Lemon-yellow powder; odorless. Bp: volatilizes, d: 6.44, vap d: 25.2. Practically insol in water; sol in acids. IDLH 10 mg/m³ (as Hg).

SYNS: BASIC MERCURIC SULFATE □ MERCURIC BASIC SULFATE □ MERCURIC SUBSULFATE, solid □ TURPETH MINERAL

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: A poison. When heated to decomposition it emits very toxic fumes of Hg and SO_x. See also MERCURY COMPOUNDS.

MDG200 CAS: 7616-83-3 HR: 3

MERCURY(II) PERCHLORATE

mf: Cl₂HgO₈ mw: 399.49

PROP: Solid. IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: A poison. A storage hazard. Solutions may form an explosive precipitate. When heated to decomposition it emits toxic fumes of Cl⁻ and Hg. See also MERCURY COMPOUNDS.

MDG250 CAS: 7783-36-0 HR: 3

MERCURY(I) SULFATE

mf: O₄S•2Hg mw: 497.24

PROP: White, crystalline powder or colorless monoclinic prisms. Gradually decomp by water, forming yellow Hg₂SO₄•Hg₂O•H₂O. Darkens on exposure to light, melts to deep red-brown liquid. Mp: decomp, d: 7.56. Sltly sol in water; sol in dil HNO₃. IDLH 10 mg/m³ (as Hg).

SYN: MERCUROUS SULFATE, solid (DOT)

TOXICITY DATA with REFERENCE:

orl-rat LD50:205 mg/kg GTPZAB 25(7),27,81
 skn-rat LD50:1175 mg/kg GTPZAB 25(7),27,81
 orl-mus LD50:152 mg/kg GTPZAB 25(7),27,81
 ipr-mus LD50:11,500 µg/kg GTPZAB 25(7),27,81
 ivn-mus LD50:5600 mg/kg CSLNX* NX#04883

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. When heated to decomposition it emits very toxic fumes of Hg and SO_x. See also MERCURY COMPOUNDS.

MDG500 CAS: 7783-35-9 HR: 3
MERCURY(II) SULFATE (1:1)

mf: O₄S•Hg mw: 296.65

PROP: White, light-sensitive crystalline powder; odorless. Mp: decomp, d: 6.47. Sol in HCl, hot dilute H₂SO₄, concentrated solns of NaCl. Protect from light. IDLH 10 mg/m³ (as Hg).

SYNS: MERCURIC SULFATE, solid □ MERCURY BISULFATE □ MERCURY PERSULFATE □ SULFATE MERCURIQUE (FRENCH) □ SULFURIC ACID, MERCURY(2+) SALT (1:1)

TOXICITY DATA with REFERENCE:

orl-rat LD50:57 mg/kg NTIS** PB214-270
 skn-rat LD50:625 mg/kg GTPZAB 25(7),27,81
 orl-mus LD50:25 mg/kg GTPZAB 25(7),27,81
 ipr-mus LD50:6300 µg/kg GTPZAB 25(7),27,81

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. When heated to decomposition it emits very toxic fumes of Hg and SO_x. See also MERCURY COMPOUNDS.

MDG750 CAS: 1344-48-5 HR: 3
MERCURY(II) SULFIDE

mf: HgS mw: 232.65

PROP: *Black:* Black or grayish-black, heavy, odorless, tasteless, amorph powder. Insol in water, alc, dil mineral acids. *Red:* Bright scarlet red powder, lumps, hexagonal crystals. Insol in water; sol in aqua regia. IDLH 10 mg/m³ (as Hg).

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison. Explosive reaction with dichlorine oxide. Mixtures with silver oxide ignite when ground. Incandescent reaction with chlorine. Incompatible with oxidants. When heated to decomposition it emits highly toxic fumes of Hg, SO_x, and H₂S. See also MERCURY COMPOUNDS and SULFIDES.

MDH000 CAS: 70224-81-6 HR: 3
MERCURY TETRAVANADATE

mf: O₁₁V₄•Hg mw: 580.35

PROP: IDLH 10 mg/m³ (as Hg).

TOXICITY DATA with REFERENCE:

scu-mus LDLo:15 mg/kg AJSNAO 1,347,17

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin); (Vanadium (as V₂O₅), resp dust/fume: CL 0.05 mg/m³/15M

SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS and VANADIUM COMPOUNDS.

MDH250 HR: 3
MERCURY(I) THIONITROSYLATE

mf: (Hg₂N₂S₂)_n

PROP: IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: A poison. Explodes on heating in flame. When heated to decomposition it emits very toxic fumes of Hg, SO_x and NO_x. See also MERCURY COMPOUNDS and SULFIDES.

MDH500 CAS: 8003-05-2 HR: 3
MERPHENYL NITRATE

mf: C₆H₆HgO•C₆H₅HgNO₃ mw: 634.42

PROP: White crystals or grey crystalline powder. Mp: 176–186°. In sol in water. IDLH 10 mg/m³ (as Hg).

SYNS: DZ □ GYNE-MERFEN □ MERCURY, HYDROXY(NITRATO)DIPHENYLDI- □ MERCURY, HYDROXY-PHENYL-, compd. with NITRATOPHENYLMERCURY (1:1) □ MERFEN-STYLI □ MERPHEN □ MERPHENE □ MERPHENYL NITRATE □ NITRATE PHENYL MERCURIQUE □ PHEMERN-ITE □ PHENMERZYL NITRATE □ PHENYLMERCURIC NITRATE, BASIC □ PHERMERNITE

TOXICITY DATA with REFERENCE:

scu-rat LD50:56 mg/kg QJPPAL 12,212,39
 scu-mus LD50:45 mg/kg QJPPAL 12,212,39
 ivn-mus LD50:27 mg/kg QJPPAL 12,212,39

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous and subcutaneous routes. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS and NITRATES.

MDH750 CAS: 63869-00-1 HR: 3

MERSALYL THEOPHYLLINE

mf: C₁₃H₁₇HgNO₆•C₇H₈N₄O₂•Na mw: 687.08

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: MERCURY, (3-(α-CARBOXYMETHOXYPROPYL)HYDROXY) MONOSODIUM SALT, COMPOUNDED with THEOPHYLLINE (1:1) □ SALYRGAN THEOPHYLLINE □ SODIUM-α-(3-HYDROXYMERCURI-2-METHOXYPROPYL)CARBAMYLPHENOXYACETATE and THEOPHYLLINE

TOXICITY DATA with REFERENCE:

ims-rat LD50:37 mg/kg JPETAB 105,336,52

orl-mus LDLo:530 mg/kg CLDND* 105,336,52

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intramuscular route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Hg, Na₂O, and NO_x. See also MERCURY COMPOUNDS and THEOPHYLLINE.

MDI000 CAS: 54-64-8 HR: 3

MERTHIOLATE SODIUM

mf: C₉H₉HgO₂S•Na mw: 404.82

PROP: Air-stable cream crystals or powder, unstable in light. Sol in H₂O, EtOH; insol in Et₂O and C₆H₆. IDLH 10 mg/m³ (as Hg).

SYNS: ((α-CARBOXYPHENYL)THIO)ETHYLMERCURY SODIUM SALT □ ELCIDE 75 □ ELCIDE □ α-(ETHYLMERCURI-THIO)BENZOIC ACID SODIUM SALT □ ETHYLMERCURITHIO-SALICYLIC ACID SODIUM SALT □ MERCUROTHIOIOLATE □ MERFAMIN □ MERTHIOLATE □ MERTHIOLATE SALT □ MERTORGAN □ MERZONIN SODIUM □ SET □ SODIUM ETHYLMERCURIC THIOSALICYLATE □ SODIUM-α-(ETHYLMERCURITHIO)BENZOATE □ SODIUM ETHYLMERCURITHIOSALICYLATE □ SODIUM MERTHIOLATE □ THIMERSALATE □ THIMEROSOL □ THIOMERSALATE

TOXICITY DATA with REFERENCE:

eye-rbt 8 µg MLD AJOPAA 78,98,74

sln-hmn:lym 9 mg/L MUREAV 287,57,93

mnt-mus-ipr 45 mg/kg EMMUEG 20,106,92

scu-rat TDLo:104 mg/kg/1Y-I:NEO CTOXAO 4,185,71

ial-cld LDLo:60 mg/kg/4W-I JOPDAB 104,311,84

orl-rat LD50:75 mg/kg PCOC** -,1130,66

scu-rat LD50:98 mg/kg CTOXAO 4,185,71

orl-mus LD50:91 mg/kg NYKZAU 58,235,62

ivn-mus LDLo:30 mg/kg QJPPAL 12,212,39

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. Experimental teratogenic and reproductive effects. An eye irritant. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. An ophthalmic preservative, a topical anti-infective, topical veterinary antibacterial and antifungal agent. An FDA over-the-counter drug. When heated to decomposition it emits very toxic fumes of Hg, Na₂O, and SO_x. See also MERCURY COMPOUNDS.

MDI200 HR: 3

MERURAN

PROP: Composed of a mixture of ethylmercurochloride and the gamma isomer of hexachlorocyclohexane. IDLH 10 mg/m³ (as Hg).

TOXICITY DATA with REFERENCE:

orl-rat LD50:207 mg/kg 85GMAT -,79,82

orl-mus LD50:137 mg/kg 85GMAT -,79,82

orl-rbt LD50:95 mg/kg 85GMAT -,79,82

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

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of Hg. See also CHLOROETHYL MERCURY and BENZENE-HEXACHLORIDE.

MDI225 CAS: 22131-80-2 HR: 2

MERVAN ETHANOLAMINE SALT

mf: C₁₁H₁₀ClO₃•C₂H₇NO mw: 286.76

SYN: ACETIC ACID, 4-ALLYLOXY-3-CHLOROPHENYL-, compounded with 2-AMINOETHANOL

TOXICITY DATA with REFERENCE:

ipr-rat LD50:530 mg/kg ARZNAD 20,618,70

scu-rat LD50:630 mg/kg ARZNAD 20,618,70

ipr-mus LD50:555 mg/kg ARZNAD 20,618,70

scu-mus LD50:600 mg/kg ARZNAD 20,618,70

ivn-mus LD50:585 mg/kg ARZNAD 20,618,70

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

**MDI250 CAS: 498-24-8 HR: 2
MESACONIC ACID**mf: C₅H₆O₄ mw: 130.11**PROP:** Orthorhombic needles from alc, monoclinic tablets from ethyl acetate. Mp: 204–205°, d: 1.466, subl, bp: 250° (decomp). Sol in ether; very sltly sol in chloroform, carbon disulfide, and ligroin.**SYNS:** BUTENEDIOIC ACID, METHYL-, (E)- □ FUMARIC ACID, METHYL- □ KYSELINA MESAKONOVA (CZECH) □ MESACONATE □ trans-2-METHYL-2-BUTENEDIOIC ACID □ METHYLFUMARIC ACID □ trans-1-PROPENE-1,2-DICARBOXYLIC ACID**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:500 mg/kg CBCCT* 6,147,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes.**MDI500 CAS: 54-04-6 HR: 3
Mescaline**mf: C₁₁H₁₇NO₃ mw: 211.29**PROP:** Crystals. Mp: 35–36°, bp: 180° @ 11 mm. Mod sol in water; sol in alc, chloroform, and benzene; practically insol in ether and pet ether.**SYNS:** MEZCALINE □ MEZCLINE □ 3,4,5-TRIMETHOXY-BENZENEETHANAMINE □ 3,4,5-TRIMETHOXYPHENETHYLAMINE**TOXICITY DATA with REFERENCE:**

ims-hmn TDLo:2500 µg/kg;CNS PSYPAG 3,219,62

ipr-rat LD50:370 mg/kg JPETAB 119,78,57

orl-mus LD50:880 mg/kg JPETAB 131,115,61

ipr-mus LD50:315 mg/kg JMCAR 13,26,70

scu-mus LD50:534 mg/kg NYKZAU 58,261,62

ivn-mus LD50:157 mg/kg NYKZAU 64,159,68

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion route.An experimental teratogen. Other experimental reproductive effects. Human systemic effects by intramuscular route: euphoria and hallucinations, distorted perceptions. A psychotomimetic agent (a drug of abuse). When heated to decomposition it emits toxic fumes of NO_x.**MDI750 CAS: 832-92-8 HR: 3
Mescaline Hydrochloride**mf: C₁₁H₁₇NO₃•ClH mw: 247.75**PROP:** Needles. Mp: 181°. Sol in water and alc.**SYNS:** 3,4,5-TRIMETHOXYPHENETHYLAMINE HYDROCHLORIDE □ 3,4,5-TRIMETHOXY-β-PHENYLETHYLAMINE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:132 mg/kg TXAPA9 25,299,73

scu-rat LDLo:320 mg/kg JPETAB 71,62,41

orl-mus LD50:912 mg/kg TXAPA9 45(1),49,78

ipr-mus LD50:212 mg/kg TXAPA9 25,299,73

ivn-mus LD50:110 mg/kg TXAPA9 45(1),49,78

ivn-dog LD50:54 mg/kg TXAPA9 25,299,73

ivn-mky LD50:130 mg/kg TXAPA9 25,299,73

ipr-gpg LD50:328 mg/kg TXAPA9 25,299,73

SAFETY PROFILE: Poison by intravenous, intraperitoneal, and subcutaneous routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also Mescaline.**MDJ000 CAS: 5967-42-0 HR: 3
Mescaline Sulfate**mf: C₁₁H₁₇NO₃•H₂O₄S mw: 309.37**PROP:** Crystals. Mp: 158°.**SYNS:** Mescaline Acid Sulfate □ Mezcaline Sulfate □ 3,4,5-Trimethoxyphenethylamine Sulfate**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:370 mg/kg JPETAB 119,78,57

scu-rat LD50:534 mg/kg JPMSAE 59,1699,70

ivn-rat LD50:157 mg/kg JPMSAE 59,1699,70

ipr-mus LD50:240 mg/kg AEPPAE 237,171,59

ivn-mus LD50:157 mg/kg 27ZQAG -,346,72

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also Mescaline.**MDJ250 CAS: 34807-41-5 HR: 2
Meserein**mf: C₃₈H₃₈O₁₀ mw: 654.76**PROP:** Crystals from Et₂O. Mp: 265–269° (decomp).**SYNS:** MEZEREIN □ (12-β(E,E))-12-((1-oxo-5-phenyl-2,4-pentadienyl)oxy)-daphnetoxin**TOXICITY DATA with REFERENCE:**

mrc-smc 20 mg/L NATUAS 294,263,81

otr-mus:fbr 100 µg/L FACOEB 1,179,84

otr-mus:oth 16 nmol/L CRNGDP 4,1507,83

dns-mus-skn 340 nmol/kg CNREA8 43,4126,83

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MDJ740 CAS: 527-60-6 HR: 1
Mesityl Alcohol**mf: C₉H₁₂O mw: 136.21**PROP:** Colorless crystals. Mp: 130°.**SYNS:** 2-Hydroxymesitylene □ Mesityl □ Phenol, 2,4,6-trimethyl-(9CI) □ 2,4,6-trimethylphenol □ 2,4,6-trimetylofenol**TOXICITY DATA with REFERENCE:**

orl-mus LD50:10 g/kg BCTKAG 14,301,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Slightly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**MDJ745 CAS: 487-68-3 HR: D
Mesityl Aldehyde**mf: C₁₀H₁₂O mw: 148.22**SYNS:** Benzaldehyde, 2,4,6-trimethyl- □ Mesityl-aldehyde □ Mesitylenecarboxaldehyde □ 2-mesitylenecarboxaldehyde □ 2,4,6-trimethyl-benzaldehyde**TOXICITY DATA with REFERENCE:**

scn-hmn:lyms 500 µmol/L MUREAV 206,17,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**MDJ748 CAS: 499-06-9 HR: 2
MESITYLENIC ACID**

mf: C₉H₁₀O₂ mw: 150.19

SYNS: BENZOIC ACID, 3,5-DIMETHYL- □ 3,5-DIMETHYL-BENZOIC ACID

TOXICITY DATA with REFERENCE:

ipr-mus LD50:750 mg/kg JMCMA 11,1020,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**MDJ750 CAS: 141-79-7 HR: 3
MESITYL OXIDE**

DOT: UN 1229

mf: C₆H₁₀O mw: 98.16

PROP: Oily, colorless liquid; strong odor. Mp: -59°, bp: 130.0°, flash p: 87°F (CC), d: 0.8539 @ 20°/4°, autoign temp: 652°F, vap press: 10 mm @ 26.0°, vap d: 3.38. Solidifies @ 41.5°; somewhat sol in water @ 20°. Misc in alc and ether and with most organic liquids.

SYNS: ISOBUTENYL METHYL KETONE □ ISOPROPYLID-ENEACETONE □ MESITYLOXID (GERMAN) □ MESITYLOXYDE (DUTCH) □ METHYL ISOBUTENYL KETONE □ 4-METHYL-3-PENTENE-2-ONE □ 4-METHYL-3-PENTEN-2-ON (DUTCH, GERMAN) □ 2-METHYL-2-PENTEN-4-ONE □ 4-METHYL-3-PENTEN-2-ONE □ 4-METIL-3-PENTEN-2-ONE (ITALIAN) □ OSSIDO di MESITILE (ITALIAN) □ OXYDE de MESITYLE (FRENCH)

TOXICITY DATA with REFERENCE:

eye-hmn 25 ppm/15M JIHTAB 28,262,46

skn-rbt 430 mg open MLD UCDS* 11/3/71

eye-rbt 4325 µg SEV AJOPAA 29,1363,46

ihl-hmn TCLo:25 ppm:EYE JIHTAB 28,262,46

orl-rat LD50:1120 mg/kg 85INA 8,6,89,91

ihl-rat LC50:9 g/m³/4H 85GMAT -80,82

orl-mus LD50:710 mg/kg 85GMAT -80,82

ihl-mus LC50:10 g/m³/2H 85GMAT -80,82

ipr-mus LD50:354 mg/kg SCCUR* -6,61

orl-rbt LD50:1 g/kg 85INA 8,6,89,91

skn-rbt LD50:5150 mg/kg NPIR1* 1,71,74

scu-rbt LDLo:840 mg/kg AEXPBL 56,346,1906

scu-frg LDLo:1400 mg/kg AEXPBL 56,346,1906

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 15 ppm; STEL 25 ppm

ACGIH TLV: TWA 15 ppm; STEL 25 ppm

DFG MAK: 25 ppm (100 mg/m³)

NIOSH REL: (Ketones) TWA 40 mg/m³

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mildly toxic by inhalation and skin contact. Human systemic effects by inhalation:

conjunctiva irritation. This compound is highly irritating to all tissues on contact; its vapors also are irritating. High concentrations are narcotic. It is readily absorbed through intact skin. Single exposures tend to indicate that this ketone has greater acute and narcotic action than isophorone. It can have harmful effects upon the kidneys and liver, and may damage the eyes and lungs to a serious degree. Prolonged exposure can injure liver, kidneys, and lungs. It can cause opaque cornea, keratoconus, and extensive necrosis of cornea. Dangerous fire hazard when exposed to heat, sparks, or flame; can react with oxidizing materials. Reacts violently with 2-amino ethanol, chlorosulfonic acid, ethylene diamine, HNO₃, oleum, H₂SO₄. An insect repellent. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ketones II (Desorption in 99:1 CS₂:methanol), 1301.

**MDK000 CAS: 78110-23-3 HR: 3
2-MESITYLOXYDIISOPROPYLAMINE
HYDROCHLORIDE**

mf: C₁₅H₂₅NO•ClH mw: 271.87

SYN: C 1686

TOXICITY DATA with REFERENCE:

ipr-rat LD50:100 mg/kg ARZNAD 8,708,58

scu-mus LD50:215 mg/kg ARZNAD 8,708,58

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

**MDK250 CAS: 77791-40-3 HR: 2
N-(2-MESITYLOXYETHYL)-N-METHYL-2-(2-METHYLPYPERIDINO)ACETAMIDE
HYDROCHLORIDE**

mf: C₂₀H₃₂N₂O₂•ClH mw: 369.00

SYN: C 2061

TOXICITY DATA with REFERENCE:

eye-rbt 2% MLD ARZNAD 8,761,58

scu-mus LD50:560 mg/kg ARZNAD 8,761,58

SAFETY PROFILE: Moderately toxic by subcutaneous route. An eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

**MDK500 CAS: 100836-53-1 HR: 3
(1-MESITYLOXY-2-PROPYL)-N-METHYLCARB-
AMIC ACID-2-(DIETHYLAMINO)ETHYL
ESTER, HYDROCHLORIDE**

mf: C₂₀H₃₄N₂O₃•ClH mw: 387.02

SYN: C 2136

TOXICITY DATA with REFERENCE:

eye-rbt 2% SEV ARZNAD 9,113,59

scu-mus LD50:140 mg/kg ARZNAD 9,113,59

SAFETY PROFILE: Poison by subcutaneous route. Severe eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also CARBAMATES.

MDK750 CAS: 101651-36-9 HR: 3

N-(1-MESITYLOXY-2-PROPYL)-N-METHYL-2-(2-METHYLPIPERIDINO) ACETAMIDE HYDROCHLORIDEmf: $C_{21}H_{34}N_2O_2 \cdot ClH$ mw: 383.03

SYN: C 2048

TOXICITY DATA with REFERENCE:

eye-rbt 2% MLD ARZNAD 9,70,59

scu-mus LD50:150 mg/kg ARZNAD 9,70,59

SAFETY PROFILE: Poison by subcutaneous route. An eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x .

MDK875 CAS: 19767-45-4 HR: 3 MESNAmf: $C_2H_5O_3S_2 \cdot Na$ mw: 164.18**PROP:** White powder.

SYNS: 2-MERCAPTOETHANESULFONIC ACID MONOSODIUM SALT □ MESNUM □ MISTABRON □ MISTABRONCO □ MITEXAN □ MUCOFLUID □ SODIUM-2-MERCAPTOETHANE-SULFONATE □ UROMITEXAN

TOXICITY DATA with REFERENCE:

orl-rat LD50:4440 mg/kg EJCDS 18,1377,82

ipr-rat LD50:1251 mg/kg EJCDS 18,1377,82

ivn-rat LD50:1683 mg/kg EJCDS 18,1377,82

orl-mus LD50:6102 mg/kg EJCDS 18,1377,82

ipr-mus LD50:2005 mg/kg EJCDS 18,1377,82

ivn-mus LD50:1887 mg/kg EJCDS 18,1377,82

inv-dog LDLo:400 mg/kg EJCDS 18,1377,82

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x and Na_2O . See also SULFONATES and MERCAPTANS.

MDL000 CAS: 80-49-9 HR: 3 MESOPINmf: $C_{17}H_{24}NO_3 \cdot Br$ mw: 370.33

PROP: Minute crystals from EtOH/Et₂O. Mp: 191–192°.

SYNS: ARKITROPIN □ CAMATROPINE □ ESOPIN □ HOMAPIN □ HOMATROMIDE □ HOMATROPINE METHYLBROMIDE □ 3- α -HYDROXY-8-METHYL-1- α -H,5- α -H-TROPANUM BROMIDE MANDELATE □ MALCOTRAN □ di-METHYLBROMIDE □ METHYLHOMATROPINE BROMIDE □ 8-METHYLHOMOTROPINIUM BROMIDE □ NOVATRIN □ NOVATROPINE □ SED-TEMS □ SETHYL □ TROPINIUM METHOBROMIDE MANDELATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1200 mg/kg JPETAB 105,166,52

ipr-rat LD50:82 mg/kg JPETAB 105,166,52

scu-rat LD50:800 mg/kg JPETAB 105,166,52

orl-mus LD50:1400 mg/kg JPETAB 105,166,52

ipr-mus LD50:60 mg/kg JPETAB 105,166,52

scu-mus LD50:650 mg/kg JPETAB 105,166,52

orl-gpg LD50:1000 mg/kg JPETAB 105,166,52

ipr-gpg LD50:120 mg/kg JPETAB 105,166,52

scu-gpg LD50:75 mg/kg AIPTAK 137,375,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Moderately toxic by ingestion. An anticholinergic agent. An FDA over-the-counter and

proprietary drug. When heated to decomposition it emits very toxic fumes of Br^- and NO_x .

MDL250 CAS: 1115-12-4 HR: 3 MESOXALONITRILEmf: C_3N_2O mw: 80.05

PROP: Colorless liquid. D: 1.124 @ 20°/4°, bp: 65.5° @ 740°.

SYN: OXOPROPANEDINITRILE (CARBONYL DICYANIDE)

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

SAFETY PROFILE: A poison. Explosive reaction with water. When heated to decomposition it emits highly toxic fumes of CN^- and NO_x . See also NITRILES.

MDL500 CAS: 2244-11-3 HR: 3 MESOXALYLUREA MONOHYDRATEmf: $C_4H_2N_2O_4 \cdot H_2O$ mw: 160.10

PROP: White crystals, become pink on exposure to air. Colorless, aqueous solution imparts pink color to skin. Mp: 170° (decomp); sol in water and alc.

SYNS: ALLOXAN MONOHYDRATE □ MESOXALYLCARBAMIDE MONOHYDRATE □ 2,4,5,6-(1H,3H)-PYRIMIDINETETRAONE HYDRATE □ 2,4,5,6-TETRAOXOHEXAHYDROPYRIMIDINE HYDRATE

TOXICITY DATA with REFERENCE:

sln-dmg-orl 1 pph ENMUDM 7,325,85

ivn-pig LDLo:200 mg/kg METAJ 29,40,80

SAFETY PROFILE: Poison by intravenous route. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .

MDL600 CAS: 101-26-8 HR: 3 MESTINONmf: $C_9H_{13}N_2O_2 \cdot Br$ mw: 261.15

PROP: Hygroscopic crystals from EtOH. Mp: 152–154°. Sol in H₂O.

SYNS: 3-((DIMETHYLAMINO)CARBONYLOXY)-1-METHYLPYRIDINIUM BROMIDE □ DIMETHYLCARBAMIC ACID ESTER of 3-HYDROXY-1-METHYLPYRIDINIUM BROMIDE □ 3-HYDROXY-1-METHYLPYRIDINIUM BROMIDE DIMETHYLCARBAMATE (ESTER) □ PYRIDOSTIGMINE BROMIDE □ REGONAL □ RO 1-5130

TOXICITY DATA with REFERENCE:

orl-rat LD50:37,500 µg/kg GNRIDX 2,828,68

ipr-rat LD50:2699 µg/kg FAATDF 4(2,Pt 2),S195,84

scu-rat LD50:3100 µg/kg JMCMA 26,145,83

ims-rat LD50:2790 µg/kg DCTODJ 7,507,84

orl-mus LD50:16 mg/kg GNRIDX 2,828,68

ipr-mus LD50:1 mg/kg NIIRDN 6,354,82

scu-mus LD50:1500 µg/kg GNRIDX 2,828,68

ivn-mus LD50:1500 µg/kg MECHAN 3,329,56

SAFETY PROFILE: Poison by ingestion, intramuscular, subcutaneous, intravenous and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Br^- and NO_x . See also CARBAMATES and ESTERS.

MDL750 CAS: 8015-29-0 HR: 2 MESTRANOL mixed with NORETHINDRONE

SYNS: ETHYNYLESTRADIOL-3-METHYL ETHER and 17- α -ETHYNYL-17-HYDROXYESTREN-3-ONE \square ETHYNYLESTRADIOL-3-METHYL ETHER and 17- α -ETHYNYL-19-NORTESTOSTERONE \square 17- α -ETHYNYL-17-HYDROXYESTREN-3-ONE and ETHYNYLESTRADIOL 3-METHYL ETHER \square 17- α -ETHYNYL-19-NORTESTOSTERONE and ETHYNYLESTRADIOL 3-METHYL ETHER \square MESTRANOL mixed with NORETHISTERONE \square NORETHINDRONE mixed with MESTRANOL \square NORETHISTERONE mixed with MESTRANOL \square NORINYL-1 \square ORTHO-NOVUM \square SOPHIA

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:26,460 μ g/kg/5Y-I:CAR,LIV LANCAO 1,310,80

orl-wmn TDLo:40 mg/kg/4Y-I:NEO,LIV JAMAAP 235,730,76

orl-wmn TD:71 mg/kg/7Y-I:NEO,LIV ANSUA5 183,239,76

orl-wmn TD:53 mg/kg/7Y-I:CAR,LIV,BLD LANCAO 1,365,80

orl-wmn TDLo:10 mg/kg/Y-I:PUL,GIT,MET LANCAO 1,1479,73

SAFETY PROFILE: Human systemic effects by ingestion: thrombocytopenia (decrease in the number of blood platelets), dyspnea, nausea or vomiting, fever. Human teratogenic and reproductive effects by ingestion: developmental abnormalities of the urogenital system; spermatogenesis; impotence; breast development in males; changes in the uterus, cervix, or vagina; female fertility effects. Experimental reproductive effects. Questionable human carcinogen producing liver tumors.

MDM000 CAS: 7660-71-1 HR: 2 MESUPRINE HYDROCHLORIDE

mf: $C_{19}H_{26}N_2O_5S \cdot ClH$ mw: 430.99

PROP: A solid. Mp: 181–183°.

SYNS: 2'-(HYDROXY-5'-(1-HYDROXY-2-(p-METHOXYPHENETHYL)AMINO)PROPYL)METHANESULFONANILIDE HCl \square MESUPRINE

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

MDM100 CAS: 57837-19-1 HR: 2 METALAXYL

mf: $C_{15}H_{21}NO_4$ mw: 279.35

PROP: White crystals.

SYNS: DL-ALANINE, N-(2,6-DIMETHYLPHENYL)-N-(METHOXYACETYL)-, METHYL ESTER (9CI) \square APRON \square APRON 2E \square APRON FL \square CG 117 \square CGA 48988 \square D,L-N-(2,6-DIMETHYLPHENYL)-N-(2'-METHOXYACETYL)ALANINATE de METHYLE \square N-(2,6-DIMETHYLPHENYL)-N-(METHOXYACETYL)-ALANINE METHYL ESTER \square N-(2,6-DIMETHYLPHENYL)-N-(METHOXYACETYL)-DL-ALANINE METHYL ESTER \square METALAXIL \square METAXANIN \square RIDOMIL \square RIDOMIL 2E \square SUBDUE \square SUBDUE 2E \square SUBDUE 5SP

TOXICITY DATA with REFERENCE:

orl-rat LD50:566 mg/kg JOHYAY 35,375,91

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

MDM350 CAS: 514-61-4 HR: D

METALUTIN

mf: $C_{19}H_{28}O_2$ mw: 288.47

PROP: Crystals from ether-hexane. Mp: 156–158°.

SYNS: 17- β -HYDROXY-17-METHYLESTR-4-EN-3-ONE \square METHALUTIN \square METHYLESTRENOLONE \square 17- α -METHYL-17- β -HYDROXY-4-ESTREN-3-ONE \square METHYLNORTESTOSTERONE \square 17-METHYL-19-NORTESTOSTERONE \square 17- α -METHYL-19-NORTESTOSTERONE \square METHYLOESTRENOLONE \square NORMETANDRONE \square NORMETHANDROLONE \square NORMETHANDRONE \square 19-NOR-17- α -METHYLTESTOSTERONE \square ORGASTERON

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:18 mg/kg (12-24W preg):TER BRGOAY 28,137,58

orl-rbt TDLo:200 μ g/kg (female 1D pre):REP 85GRAA - ,57,65

SAFETY PROFILE: Human teratogenic effects by ingestion: extra embryonic structures and developmental abnormalities of the urogenital system. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also TESTOSTERONE.

MDM500 CAS: 5907-38-0 HR: D METAMIZOL MONOHYDRATE

mf: $C_{13}H_{17}N_3O_4S \cdot H_2O \cdot Na$ mw: 352.40

PROP: Minute white or slightly yellow crystals. Sol in water: 1g/1.5 ml.

SYNS: (ANTIPYRINYLMETHYLAMINO)METHANESULFONIC ACID SODIUM SALT MONOHYDRATE \square DIPYRONE MONOHYDRATE \square METHANESULFONIC ACID, (ANTIPYRINYLMETHYLAMINO)-, SODIUM SALT, MONOHYDRATE

TOXICITY DATA with REFERENCE:

mno-sat 20 mg/plate CRNGDP 12,1221,91

mor-rat-orl 70 g/kg/25W-C CRNGDP 12,1221,91

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

MDM750 CAS: 538-79-4 HR: 2 METANICOTINE

mf: $C_{10}H_{14}N_2$ mw: 162.26

PROP: Bp: 141° @ 3.7 mm.

TOXICITY DATA with REFERENCE:

itr-rat TDLo:75 mg/kg:ETA BJCAA 16,453,62

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

MDM760 CAS: 98-18-0 HR: 1 METANILAMIDE

mf: $C_6H_8N_2O_2S$ mw: 172.22

SYNS: m-AMINO BENZENESULFONAMIDE \square 3-AMINO BENZENESULFONAMIDE \square m-AMINO BENZENESULFONAMIDE \square BENZENESULFONAMIDE, 3-AMINO-

TOXICITY DATA with REFERENCE:

orl-mus LDLo:4500 mg/kg QJPPAL 10,319,37

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**MDM775 CAS: 587-98-4 HR: 2
METANIL YELLOW**mf: C₁₈H₁₅N₃O₃S•Na mw: 376.41**PROP:** Brownish-yellow powder or crystals. Sol in water, alc; moderately sol in benzene and ether; sltly sol in acetone.**SYNS:** ACIDIC METANIL YELLOW □ ACID LEATHER YELLOW PRW □ ACID LEATHER YELLOW R □ ACID METANIL YELLOW □ ACID YELLOW 36 □ AIZEN METANIL YELLOW □ AMACID YELLOW M □ BRASILAN METANIL YELLOW □ BUCACID METANIL YELLOW □ CALCOCID YELLOW MXXX □ C.I. 13065 □ C.I. ACID YELLOW 36 □ C.I. ACID YELLOW 36 MONOSODIUM SALT □ DIACID METANIL YELLOW □ ENIACID METANIL YELLOW GN □ EXT D&C YELLOW No. 1 □ FENAZO YELLOW M □ HIDACID METANIL YELLOW □ HISPACID YELLOW MG □ JAVA METANIL YELLOW G □ KITON ORANGE MNO □ KITON YELLOW MS □ METANILE YELLOW O □ METANIL YELLOW 1955 □ METANIL YELLOW C □ METANIL YELLOW E □ METANIL YELLOW EXTRA □ METANIL YELLOW F □ METANIL YELLOW G □ METANIL YELLOW GRIESBACH □ METANIL YELLOW K □ METANIL YELLOW KRSU □ METANIL YELLOW M3X □ METANIL YELLOW O □ METANIL YELLOW PL □ METANIL YELLOW S □ METANIL YELLOW SUPRA P □ METANIL YELLOW VS □ METANIL YELLOW WS □ METANIL YELLOW Y □ METANIL YELLOW YK □ MITSUI METANIL YELLOW □ MONOAZO □ REMADERM YELLOW HPR □ SHIKISO METANIL YELLOW □ SYMULON METANIL YELLOW □ TAKAOKA METANIL YELLOW □ TERTRACID YELLOW M □ TROPAEOLIN G □ VONDACID METANIL YELLOW G □ 11363 YELLOW □ YODOCHROME METANIL YELLOW**TOXICITY DATA with REFERENCE:**cyt-hmn:leu 10 µmol/L IJBA6 16,820,78
orl-rat LD50:5 g/kg 85JCAE -,1310,86
ipr-mus LD50:1000 mg/kg SRTCDF -,15,77**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and Na₂O. See also AROMATIC AMINES and SULFONATES.**MDM800 CAS: 5874-97-5 HR: 3
METAPROTERENOL SULFATE**mf: C₂₂H₃₄N₂O₆•H₂O₄S mw: 520.66**PROP:** Bronchodilator.**SYNS:** ALOTEC □ ALUPENT □ 3,5-DIHYDROXY-α-((ISOPROPYL-AMINO)METHYL)BENZYL ALCOHOL SULFATE □ 1-(3,5-DIHYDROXYPHENYL)-2-(ISOPROPYLAMINO)-ETHANOL SULFATE □ 5-(1-HYDROXY-2-((1-METHYLETHYL)-AMINO)ETHYL)-1,3-BENZENEDIOL SULFATE (2:1) SALT □ METAPREL □ NOVASMASOL □ ORCIPRENALINE SULFATE □ TH-152**TOXICITY DATA with REFERENCE:**orl-rat LD50:5538 mg/kg TXAPA9 18,185,71
idu-rat LD50:2230 mg/kg AIPTAK 180,155,69
orl-mus LD50:4800 mg/kg NIIRDN 6,163,82
scu-mus LD50:290 mg/kg NIIRDN 6,163,82
ivn-mus LD50:114 mg/kg NIIRDN 6,163,82**SAFETY PROFILE:** Poison by subcutaneous and intravenous routes. Moderately toxic by intraduodenal route. Mildly toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x and SO_x. See also SULFATES.**MDM900 CAS: 67704-68-1 HR: 2
METAZINE**mf: C₁₁H₁₉N₇ mw: 249.37**SYNS:** CYANAMIDE, (4,6-BIS((1-METHYLETHYL)AMINO)-1,3,5-TRIAZIN-2-YL)METHYL- □ METAZIN □ METAZINE □ METHAZINE**TOXICITY DATA with REFERENCE:**dlt-orl-rat 17 mg/kg VINIT* #908-80
orl-rat LD50:1700 mg/kg VINIT* #908-80
unr-rat LD50:1894 mg/kg GISAAA 45(8),74,1980**SAFETY PROFILE:** Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**MDN100 HR: 2
METET**mf: C₁₀H₁₄N₄O₂S mw: 254.34**SYNS:** 3,7-DIHYDRO-1,3-DIMETHYL-7-(2-(METHYLTHIO)-ETHYL)-1H-PURINE-2,6-DIONE (9CI) □ 7-(2-METHYLTHIO)-ETHYL)-THEOPHYLLINE □ 7-(β-METHYLTHIOETHYL)-THEOPHYLLINE □ 7-(β-METYLTHIOETHYL)-TEOFILINA (POLISH)**TOXICITY DATA with REFERENCE:**orl-mus LD50:550 mg/kg DPHFAK 22,199,70
ipr-mus LD50:422 mg/kg DPHFAK 22,199,70
scu-mus LD50:1780 mg/kg DPHFAK 22,199,70**SAFETY PROFILE:** Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x and NO_x.**MDN150 CAS: 62610-77-9 HR: 2
trans-METHACRIFOS**mf: C₇H₁₃O₅PS mw: 240.23**PROP:** Acaricide, pesticide.**SYNS:** CGA 20168 □ 3-((DIMETHOXYPHOSPHINOTHIOYL)OXY)-2-METHYL-2-PROPENOIC ACID METHYL ESTER, (E)- □ OMS-2005 □ 2-PROPENOIC ACID, 3-((DIMETHOXYPHOSPHINOTHIOYL)-OXY)-2-METHYL-, METHYLESTER, (E)-**TOXICITY DATA with REFERENCE:**orl-rat LD50:678 mg/kg PBCDDQ -,1033,1977
ihl-rat LC50:>2200 mg/m³/4H PBCDDQ -,1033,1977
skn-rat LD50:>3100 mg/kg PEMNDP 9,562,1991**SAFETY PROFILE:** Moderately toxic by ingestion inhalation, and skin contact. When heated to decomposition it emits toxic vapors of PO_x and SO_x.**MDN250 CAS: 79-41-4 HR: 3
METHACRYLIC ACID****DOT:** UN 2531mf: C₄H₆O₂ mw: 86.10**PROP:** Corrosive liquid or colorless crystals; repulsive odor. Mp: 16°, bp: 163°, flash p: 171°F (COC), d: 1.014 @ 25° (glacial), vap press: 1 mm @ 25.5°. Sol in warm water; misc with alc, ether.

SYNS: ACRYLIC ACID, 2-METHYL- □ KYSELINA METHAKRYLOVA □ METHACRYLIC ACID (ACGIH, OSHA) □ METHACRYLIC ACID, inhibited (DOT) □ α -METHYLACRYLIC ACID □ 2-METHYLPROPENOIC ACID □ 2-PROPENOIC ACID, 2-METHYL-(9CI) □ PROPIONIC ACID, 2-METHYLENE-

TOXICITY DATA with REFERENCE:

dnd-esc 50 μ mol/L MUREAV 89,95,81
 orl-rat LD50:1060 mg/kg GISAAA 41(4),6,76
 unr-rat LD50:1600 mg/kg GISAAA 49(10),64,84
 orl-mus LD50:1332 mg/kg GISAAA 38(8),13,73
 ipr-mus LD50:48 mg/kg JPMSAE 62,778,73
 unr-mus LD50:1250 mg/kg GISAAA 49(10),64,84
 orl-rbt LD50:1200 mg/kg GISAAA 38(8),13,73
 skn-rbt LD50:500 mg/kg 85INA8 5,362,86
 skn-gpg LD50:1 g/kg 38MKAJ 2C,4953,82
 ihl-rat TCLo:221 mg/m³/24H/17W-C GISAAA 46(5),10,81
 ihl-mus TCLo:221 mg/m³/24H/17W-C GISAAA 46(5),10,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 20 ppm (skin)

ACGIH TLV: TWA 20 ppm

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. Corrosive to skin, eyes, and mucous membranes. Mutation data reported. Flammable when exposed to heat, flame, or oxidizers. A storage hazard; exothermic polymerization may occur spontaneously. To fight fire, use alcohol foam, spray, mist, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

MDN500 CAS: 79-39-0 HR: 3
METHACRYLIC ACID AMIDE

mf: C₄H₇NO mw: 85.12

PROP: A solid. Mp: 105–107°.

SYNS: METHACRYLIC AMIDE □ 2-METHYLACRYLAMIDE □ α -METHYLACRYLIC AMIDE □ 2-METHYLPROPENAMIDE □ USAF RH-1

TOXICITY DATA with REFERENCE:

ihl-man TCLo:3 mg/m³:BRN,LIV,KID GISAAA 45(10),74,80
 orl-rat LD50:459 mg/kg GISAAA 45(10),74,80
 orl-mus LD50:451 mg/kg ARTODN 47,179,81
 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. Human systemic effects by inhalation: degenerative brain changes and liver and kidney changes. When heated to decomposition it emits toxic fumes of NO_x.

MDN505 CAS: 24938-16-7 HR: D
METHACRYLIC ACID, BUTYL ESTER, polymer with 2-(DIMETHYLAMINO)ETHYL METHACRYLATE and METHYL METHACRYLATE

mf: (C₈H₁₅NO₂•C₈H₁₄O₂•C₅H₈O₂)_x

PROP: Easily soluble in solvents such as ethanol, isopropyl alcohol, acetone or a mixture of them.

SYNS: EUDRAGIT E □ EUDRAGIT E 100 □ EUDRAGIT E 12.5

TOXICITY DATA with REFERENCE:

dni-mus-unr 800 mg/kg APHGAO 56,97,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MDN510 CAS: 109-16-0 HR: 2
METHACRYLIC ACID, DIESTER with TRIETHYLENE GLYCOL

mf: C₁₄H₂₂O₆ mw: 286.36

PROP: Bp: 170°, d: 1.092. Flash pt: >110°.

SYNS: NK ESTER 3G □ POLYESTER TGM 3 □ 2-PROPENOIC ACID, 2-METHYL-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER(9CI) □ TEDMA □ TGM 3 □ TGM 3PC □ TGM 3S □ TRIETHYLENE GLYCOL DIMETHACRYLATE

TOXICITY DATA with REFERENCE:

mma-sat 4 mg/plate TOLED5 31(Suppl),214,86
 orl-rat LD50:10,837 mg/kg GISAAA 47(4),17,82
 orl-mus LD50:10,750 mg/kg GISAAA 47(4),17,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MDN525 HR: D
METHACRYLIC ACID-DIVINYLBENZENE COPOLYMER

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

MDN600 CAS: 25212-88-8 HR: D
METHACRYLIC ACID, polymer with ETHYL ACRYLATE

mf: (C₈H₈O₂•C₄H₆O₂)_x

PROP: Milky white liquid. Faint specific odor. Mp: < 1°, bp: 100°. Sol in water.

SYNS: AK 214-82 □ ALCOGUM □ ALCOGUM L 21 □ EUDRAGIT L 30D □ EUDRAGIT L 30D55 □ 2-PROPENOIC ACID, 2-METHYL-, polymer with ETHYL 2-PROPENOATE (9CI) □ ROHAGIT SD 15

TOXICITY DATA with REFERENCE:

mno-sat 9 mg/plate APHGAO 56,97,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MDN699 CAS: 760-93-0 HR: 3
METHACRYLIC ANHYDRIDE

mf: C₈H₁₀O₃ mw: 154.18

PROP: Clear colorless liquid with pungent odor. Bp: 200°, d: 1.02 g/cm³ @ 20°. Flash pt: 83° C. Hydrolyzes with water.

SYNS: METHACRYLIC ACID ANHYDRIDE □ METHACRYLOYL ANHYDRIDE □ 2-METHYL-2-PROPENOIC ACID ANHYDRIDE (9CI)

TOXICITY DATA with REFERENCE:

ihl-mus LC50:450 mg/m³/2H 85GMAT -,80,82**CONSENSUS REPORTS:** EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by inhalation. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ANHYDRIDES.**MDN899 CAS: 920-46-7 HR: 3
METHACRYLOYL CHLORIDE**mf: C₄H₅ClO mw: 104.54**PROP:** Bp: 95–96°.**SYNS:** METHACRYL CHLORIDE □ METHACRYLIC ACID CHLORIDE □ METHACRYLIC CHLORIDE □ α-METHACRYLOYL CHLORIDE □ METHACRYLYL CHLORIDE □ 2-METHYLPROPENOIC ACID CHLORIDE □ 2-METHYL-2-PROPENOYL CHLORIDE □ 2-METHYLPROPENYL CHLORIDE**TOXICITY DATA with REFERENCE:**ihl-rat LC50:60 mg/m³/4H 85GMAT -,80,82ihl-mus LC50:115 mg/m³/2H 85GMAT -,80,82**CONSENSUS REPORTS:** EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by inhalation. When heated to decomposition it emits toxic fumes of Cl⁻. See also CHLORIDES.**MDO250 CAS: 3963-95-9 HR: 3
METHACYCLINE HYDROCHLORIDE**mf: C₂₂H₂₂N₂O₈•ClH mw: 478.92**PROP:** Yellow, crystalline powder; bitter taste. Decomp @ approx 205°. Sol in water; sltly sol in alc; practically insol in ether, chloroform.**SYNS:** ADRIAMICINA □ CICLOBIOTIC □ GERMICICLIN □ GLOBOCICLINA □ LONDONMYCIN □ MEGAMYCINE □ METADOMUS □ METHACYCLINE MONOHYDROCHLORIDE □ METILENBIOTIC □ OPTIMYCIN □ PHYSIOMYCINE □ RINDEX □ RONDONMYCIN**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:252 mg/kg TXAPA9 18,185,71

ivn-rat LD50:202 mg/kg NIIRDN 6,818,82

orl-mus LD50:3450 mg/kg NIIRDN 6,818,82

ipr-mus LD50:288 mg/kg TXAPA9 18,185,71

ivn-mus LD50:193 mg/kg NIIRDN 6,818,82

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. An antibacterial agent. When heated to decomposition it emits very toxic fumes of NO_x and HCl.**MDO750 CAS: 76-99-3 HR: 3
METHADONE**mf: C₂₁H₂₇NO mw: 309.49**PROP:** Narcotic analgesic.**SYNS:** ADANON □ AMIDONE □ DIAMINON □ DOLOPHINE □ HEPTADONE □ HEPTANON □ KETALGIN □ MECODIN □ PHENADONE □ PHYSEPTONE □ POLAMIDONE**TOXICITY DATA with REFERENCE:**

orl-inf TDLo:2 mg/kg:BAH CTOXAO 6,175,73

orl-hmn TDLo:1560 µg/kg:BAH,PUL CTOXAO 6,175,73

orl-cld TDLo:1538 µg/kg:BAH CTOXAO 6,175,73

ivn-man TDLo:571 µg/kg:5H-I:CNS,PUL,GIT

FEPR7 11,346,52

orl-rat LD50:86 mg/kg	AIPTAK 180,155,69
ipr-rat LD50:18 mg/kg	JAPMA8 47,323,58
scu-rat LD50:30 mg/kg	ARZNAD 3,238,53
ivn-rat LD50:11 mg/kg	JPPMAB 25,929,73
idu-rat LD50:38 mg/kg	AIPTAK 180,155,69
orl-mus LD50:70 mg/kg	AIPTAK 135,376,62
ipr-mus LD50:35 mg/kg	AIPTAK 135,376,62
scu-mus LD50:35 mg/kg	AIPTAK 135,376,62
ivn-mus LD50:20 mg/kg	JPETAB 99,163,50
ivn-dog LDLo:26 mg/kg	27ZIAQ -,157,73

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Poison by ingestion, intraperitoneal, intravenous, subcutaneous, and intraduodenal routes. Human systemic effects: coma, nausea or vomiting, respiratory changes, respiratory depression, somnolence. An experimental teratogen. Experimental reproductive effects. *Caution:* Abuse leads to habituation or addiction. When heated to decomposition it emits toxic fumes of NO_x. See also METHADONE HYDROCHLORIDE.**MDO760 CAS: 297-88-1 HR: 3
dl-METHADONE**mf: C₂₁H₂₇NO mw: 309.49**PROP:** Crystals from MeOH. Mp: 79–81°.**SYNS:** 6-(DIMETHYLAMINO)-4,4-DIPHENYL-3-HEPTANONE dl-MIXTURE □ 3-HEPTANONE, 6-(DIMETHYLAMINO)-4,4-DIPHENYL-, (±)- □ METHADON □ METHADONE □ (±)-METHADONE**TOXICITY DATA with REFERENCE:**

dni-rat:tst 10 µmol/L BCPCA6 27,123,78

oth-rat:tst 10 µmol/L BCPCA6 27,123,78

orl-mus LD50:95 mg/kg JPETAB 110,135,54

ipr-mus LD50:28 mg/kg BJPCAL 9,280,54

scu-mus LD50:28 mg/kg YKKZAJ 81,740,61

ivn-dog LD50:26 mg/kg CPBTAL 7,372,59

SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**MDO775 CAS: 125-58-6 HR: 3
l-METHADONE**mf: C₂₁H₂₇NO mw: 309.49**PROP:** Crystals from 2-propanol. Mp: 98–100°.**SYNS:** l-6-(DIMETHYLAMINO)-4,4-DIPHENYL-3-HEPTANONE □ LEVOMETHADONE □ LEVOTHYL □ (-)-METHADONE**TOXICITY DATA with REFERENCE:**

dni-rat:tes 50 µmol/L BCPCA6 27,123,78

oms-rat:tes 50 µmol/L BCPCA6 27,123,78

orl-mus LD50:97 mg/kg JPETAB 198,340,76

ipr-mus LD50:32 mg/kg BJPCAL 9,280,54

scu-mus LD50:26,500 µg/kg MEXPAG 2,323,60

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. Experimental reproductive effects. Mutation data reported. *Caution:* Abuse leads to habituation or addiction. When heated to decomposition it emits toxic fumes of NO_x. See also METHADONE HYDROCHLORIDE.

MDP000 CAS: 1095-90-5 HR: 3**METHADONE HYDROCHLORIDE**mf: $C_{21}H_{27}NO \cdot ClH$ mw: 345.95**PROP:** White odorless powder. Mp: 235°. Sol in water: 12g in 100g water.**SYNS:** ADANON HYDROCHLORIDE □ ALTHOSE HYDROCHLORIDE □ AMIDONE HYDROCHLORIDE □ DIAMINON HYDROCHLORIDE □ DIASONE HYDROCHLORIDE □ 6-DIMETHYLAMINO-4,4-DIPHENYL-3-HEPTANONE HYDROCHLORIDE □ 1,1-DIPHENYL-1-(β-DIMETHYLAMINOPROPYL)BUTANONE-2 HYDROCHLORIDE □ DOLOPHINE □ DOLOPHINE HYDROCHLORIDE □ DOLPHINE □ HOECHST 1082**TOXICITY DATA with REFERENCE:**

dnr-esc 800 ppm DCTODJ 4,1,81
 mmo-nsc 300 mg/L DCTODJ 4,1,81
 orl-chd LDLo:5 mg/kg JAMAAP 238(23),2516,77
 orl-rat LD50:30 mg/kg AIPTAK 123,48,59
 ipr-rat LD50:11 mg/kg ANYAA9 51,83,48
 scu-rat LD50:12 mg/kg ANYAA9 51,83,48
 ivn-rat LD50:9200 µg/kg JPETAB 92,269,48
 orl-mus LD50:124 mg/kg AIPTAK 122,434,59
 ipr-mus LD50:8300 µg/kg NYKZAU 57,585,61
 scu-mus LD50:34 mg/kg ANYAA9 51,83,48
 ivn-mus LD50:16 mg/kg TXAPA9 6,334,64
 scu-mky LDLo:10 mg/kg PSEBAA 65,113,47
 par-frg LD50:56 mg/kg AIPTAK 79,282,49

SAFETY PROFILE: A human poison by ingestion. Poison experimentally by ingestion, subcutaneous, intravenous, parenteral, and intraperitoneal routes. Human systemic effects by ingestion: antipsychotic effects and analgesia. An experimental teratogen. Experimental reproductive effects. Mutation data reported. An analgesic and FDA proprietary drug. A synthetic drug whose action is similar to that of morphine and heroin, and is almost as addictive. *Caution:* Abuse leads to habituation or addiction. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x . See also other methadone entries.**MDP240 CAS: 15284-15-8 HR: 3****d-METHADONE HYDROCHLORIDE**mf: $C_{21}H_{27}NO \cdot ClH$ mw: 345.95**PROP:** Crystals from 2-propanol. Mp: 243–244°.**SYN:** d-DOLOPHINE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-hmn TDLo:2380 µg/kg:CNS JPETAB 93,282,48
 ipr-rat LD50:72 mg/kg JPETAB 98,305,50
 ipr-mus LD50:65 mg/kg JPETAB 98,305,50
 ivn-mus LD50:31 mg/kg JPETAB 93,282,48

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Human systemic effects by ingestion: euphoria, somnolence (general depressed activity), and analgesia. *Caution:* Abuse leads to habituation or addiction. When heated to decomposition it emits toxic fumes of Cl^- and NO_x . See also METHADONE HYDROCHLORIDE.**MDP750 CAS: 125-56-4 HR: 3****dl-METHADONE HYDROCHLORIDE**mf: $C_{21}H_{27}NO \cdot ClH$ mw: 345.95**PROP:** Crystals. Mp: 229–230°.

SYNS: ADANON HYDROCHLORIDE □ ALGIDON □ ALGOLYSIN □ AMIDON HYDROCHLORIDE □ AN-148 □ BUTALGIN □ DEPRIDOL □ DIAMINON HYDROCHLORIDE □ dl-6-DIMETHYLAMINO-4,4-DIPHENYL-3-HEPTANONE HYDROCHLORIDE □ DOLOPHINE HYDROCHLORIDE □ DOLOPHIN HYDROCHLORIDE □ FENADONE □ HEPTADON HYDROCHLORIDE □ HOECHST 10,820 □ KETALGIN HYDROCHLORIDE □ MACODIN □ MEPHENON □ (±)-METHADONE HYDROCHLORIDE □ racemic METHADONE HYDROCHLORIDE □ MIADONE □ MOHEPTAN □ PHENADONE HYDROCHLORIDE □ PHYSEPTONE HYDROCHLORIDE □ TUSSAL

TOXICITY DATA with REFERENCE:

orl-mus TDLo:10,950 mg/kg/2Y-C:NEO FAATDF 11,640,88
 orl-rat LD50:95 mg/kg JPETAB 92,269,48
 ipr-rat LD50:33 mg/kg JPETAB 98,305,50
 orl-mus LD50:95,400 µg/kg JOCEAH 17,321,52
 ipr-mus LD50:31 mg/kg JPETAB 98,305,50
 scu-mus LD50:27 mg/kg JPETAB 98,305,50
 ivn-mus LD50:24,240 µg/kg BJPCAL 4,98,49
 scu-dog LDLo:50 mg/kg JPETAB 98,305,50
 ivn-dog LD50:29 mg/kg CPBTAL 7,372,59

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. *Caution:* Abuse leads to habituation or addiction. When heated to decomposition it emits toxic fumes of NO_x and HCl . See also METHADONE HYDROCHLORIDE.**MDP770 CAS: 5967-73-7 HR: 3****I-METHADONE HYDROCHLORIDE**mf: $C_{21}H_{27}NO \cdot ClH$ mw: 345.95**PROP:** dl Form: Crystals. Mp: 245–246°.**SYNS:** 1-6-DIMETHYLAMINO-4,4-DIPHENYL-3-HEPTANONE HYDROCHLORIDE □ LEVADONE □ LEVOTHYL □ POLAMIDON**TOXICITY DATA with REFERENCE:**

orl-hmn TDLo:44 µg/kg:CNS JPETAB 93,282,48
 ipr-rat LD50:24 mg/kg JPETAB 98,305,50
 scu-rat LD50:44 mg/kg JPETAB 98,305,50
 ipr-mus LD50:30 mg/kg JPETAB 98,305,50
 scu-mus LD50:19 mg/kg JPETAB 98,305,50
 ivn-mus LD50:29 mg/kg JPETAB 93,282,48

SAFETY PROFILE: Poison by intravenous, subcutaneous, and intraperitoneal routes. Human systemic effects by ingestion: hallucinations, distorted perceptions, and analgesia. *Caution:* Abuse leads to habituation or addiction. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x . See also METHADONE HYDROCHLORIDE.**MDP800 HR: 3****METHAFURYLENE FUMARATE**mf: $C_{14}H_{19}N_3O \cdot C_4H_4O_4$ mw: 361.44**SYNS:** 2-(2-(DIMETHYLAMINO)ETHYL)FURFURYLAMINO)PYRIDINE FUMARATE □ FORALAMIN FUMARATE □ FORALMINE FUMARATE □ F 151 FUMARATE □ N-(2-FURANYLMETHYL)-N',N'-DIMETHYL-N-2-PYRIDINYL-1,2-ETHANEDIAMINE FUMARATE □ N-(2-FURFURYL)-N-(2-PYRIDYL)-N',N'

DIMETHYLETHYLENEDIAMINE FUMARATE □
METHAFURILEN FUMARATE

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:100 mg/kg JPETAB 99,488,50
orl-mus LD50:264 mg/kg JPETAB 99,488,50
ipr-mus LD50:136 mg/kg JPETAB 99,488,50
ipr-cat LDLo:60 mg/kg JPETAB 99,488,50
ipr-gpg LDLo:80 mg/kg JPETAB 99,488,50

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

MDP850 CAS: 39718-89-3 HR: 2
2-(4-(METHALLYLAMINO)PHENYL)PROPIONIC ACID

mf: C₁₃H₁₇NO₂ mw: 219.31

SYNS: ACIDE (METHALLYLAMINO-4 PHENYL)-2 PROPIONIQUE □ ALMINOPROFEN □ ALMINOPROFENO □ BENZENEACETIC ACID, α-METHYL-4-((2-METHYL-2-PROPENYL)AMINO)- □ p-((2-METHYLLALLYL)AMINO)-HYDRATROPIC ACID □ α-METHYL-4-((2-METHYL-2-PROPENYL)AMINO)BENZENEACETIC ACID □ MINALFENE □ PROPIONIC ACID, 2-(4-(METHALLYLAMINO)PHENYL)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:550 mg/kg NIIRDN -,79,1990
ipr-rat LD50:700 mg/kg NIIRDN -,79,1990
scu-rat LD50:660 mg/kg NIIRDN -,79,1990
orl-mus LD50:2400 mg/kg EJMAC5 14,207,1979
ipr-mus LD50:705 mg/kg NIIRDN -,79,1990
scu-mus LD50:980 mg/kg NIIRDN -,79,1990

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

MDQ075 CAS: 2529-46-6 HR: D
METHALLYL-19-NORTESTOSTERONE

mf: C₂₂H₃₂O₂ mw: 328.54

SYNS: 17-β-HYDROXY-17-α-(2-METHYLLALLYL)ESTR-4-EN-3-ONE □ 17-β-HYDROXY-17-(2-METHYLLALLYL)ESTR-4-EN-3-ONE □ 17-α-(2-METHYLLALLYL)-19-NORTESTOSTERONE □ MNT □ SC 9022

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

MDQ100 CAS: 7359-80-0 HR: D
17-α-(1-METHALLYL)-19-NORTESTOSTERONE

mf: C₂₂H₃₂O₂ mw: 328.54

SYNS: 17-β-HYDROXY-17-α-(1-METHYLLALLYL)ESTR-4-EN-3-ONE □ SC-8117

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also TESTOSTERONE, ALLYL COMPOUNDS, and ESTERS.

MDQ250 CAS: 438-41-5 HR: 3
METHAMINODIAZEPOXIDE HYDROCHLORIDE

mf: C₁₆H₁₄ClN₃O•ClH mw: 336.24

PROP: Crystals from MeOH. Mp: 213°.

SYNS: ANSIACAL □ A-POXIDE □ BENT □ BENZODIAPIN □ CALMODEN □ CEBRUM □ CHLORDIAZACHEL □ CHLORDI-

AZEPOXIDE HYDROCHLORIDE □ CHLORDI-AZEPOXIDE MONOHYDROCHLORIDE □ CHLORIDE-AZEPOXIDE HYDROCHLORIDE □ 7-CHLORO-2-METHYLAMINO-5-PHENYL-3H-1,4-BENZODIAZEPIN, 4-OXIDE, HYDROCHLORIDE □ 7-CHLORO-N-METHYL-5-PHENYL-EH-1,4-BENZODIAZEPIN-2-AMINE-4-OXIDE, MONOHYDROCHLORIDE □ CORAX □ DIAZACHEL (OBS.) □ DROXOL □ ELENIUM □ EQUIBRAL □ J-LIBERTY □ KALMOCAPS □ LABICAN □ LENTOTRAN □ LIBRIUM □ LIBRIUM HYDROCHLORIDE □ METHAMINODIAZEPINE HYDROCHLORIDE □ MILDMEN □ MURCIL □ NAPOTON □ NOVOSOD □ PSICHIAL □ PSICOSAN □ RELIBERAN □ RO 5-0690 □ SEREN VITA □ SK-LYGEN □ SOPHIAMIN □ TENSINYL □ TIMOSIN □ TRAKIPEAL □ VIANSIN □ VIOPISCOL

TOXICITY DATA with REFERENCE:

sln-dmg-orl 500 mg/L IJMAQ 76,348,82
mnt-mus-orl 188 mg/kg TOLED5 18,45,83
mnt-mus-ipr 67 mg/kg TOLED5 18,45,83
dlt-mus-orl 96 g/kg/30D-C IJMAQ 66(5),847,77
hma-mus/sat 188 mg/kg TOLED5 16,347,83
orl-man TDLo:39 mg/kg/30D-I:BRN,BAH CTOXAO 2,5,69
orl-wmn TDLo:8400 µg/kg/2W-I:BRN,BAH CTOXAO 2,5,69
orl-rat LD50:537 mg/kg TXAPA9 16,556,70
ipr-rat LD50:276 mg/kg TXAPA9 16,556,70
scu-rat LD50:800 mg/kg 27ZIAQ -,71,73
ivn-rat LD50:165 mg/kg 27ZQAG -,159,72
orl-mus LD50:530 mg/kg 26RAAN -,39,73
ipr-mus LD50:200 mg/kg JMCMA 14,1106,71
scu-mus LD50:530 mg/kg 27ZQAG -,159,72
ivn-mus LD50:95 mg/kg JPETAB 129,163,60
orl-dog LD50:1000 mg/kg 27ZIAQ -,71,73
orl-rbt LD50:590 mg/kg AIPTAK 178,216,69
ivn-rbt LD50:36 mg/kg IJNEAQ 5,305,66

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. Human systemic effects: ataxia, distorted perceptions, hallucinations, somnolence, and surface EEG changes. Mutation data reported. A minor tranquilizer. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

MDQ500 CAS: 826-10-8 HR: 3
I-METHAMPHETAMINE HYDROCHLORIDE

mf: C₁₀H₁₅N•ClH mw: 185.72

PROP: Crystals; bitter taste. Mp: 170–175°. Sol in water, alc, and chloroform; almost insol in ether.

SYNS: ADIPEX □ I-DESOXYEPHEDRINE HYDROCHLORIDE □ (-)-N-α-DIMETHYLPHENETHYLAMINE HYDROCHLORIDE □ "METH" □ I-N-METHYL-β-PHENYLISOPROPYLAMINE HYDROCHLORIDE □ "SPEED" □ SYNDROX

TOXICITY DATA with REFERENCE:

ipr-rat LD50:25 mg/kg 27ZQAG -,346,72
scu-rat LD50:30 mg/kg 27ZQAG -,346,72
ipr-mus LD50:70 mg/kg JPETAB 89,382,47
scu-mus LD50:180 mg/kg 27ZQAG -,346,72
ivn-mus LD50:33 mg/kg 27ZQAG -,346,72
orl-dog LD50:10 mg/kg 27ZQAG -,346,72
ivn-dog LD50:2700 µg/kg PSEBAA 118,557,65

scu-cat LD50:50 mg/kg 27ZQAG -,346,72

SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. A powerful central nervous system stimulant. *Caution:* Excessive use may lead to tolerance and habituation. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also BENZEDRINE.

MDQ750 CAS: 74-82-8 HR: 3
METHANE

DOT: UN 1971/UN 1972

mf: CH₄ mw: 16.05

PROP: Colorless, odorless, tasteless, flammable gas; needles when solid. Mp: -182.6°, bp: -161.5°, lel: 5.3%, uel: 15%, fp: -183.2°, d: 0.554 @ 0°/4° (air = 1) or 0.7168 g/L, autoign temp: 650°, vap d: 0.6, flash p: -368.6°F. Sol in water, alc, and ether.

SYNS: FIRE DAMP □ MARSH GAS □ METHANE, compressed (UN 1971) (DOT) □ METHANE, refrigerated liquid (cryogenic liquid) (UN 1972) (DOT) □ METHYL HYDRIDE □ NATURAL GAS, compressed (with high methane content) (UN 1971) (DOT) □ NATURAL GAS, refrigerated liquid (cryogenic liquid) (with high methane content) (UN 1972) (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: A simple asphyxiant. Very dangerous fire and explosion hazard when exposed to heat or flame. Reacts violently with powerful oxidizers (e.g., bromine pentafluoride, chlorine trifluoride, chlorine, fluorine, iodine heptafluoride, dioxygenyl tetrafluoroborate, dioxygen difluoride, trioxigen difluoride, liquid oxygen, ClO₂, NF₃, OF₂). Incompatible with halogens or interhalogens in air (forms explosive mixtures). Explosive in the form of vapor when exposed to heat or flame. To fight fire, stop flow of gas. See also ARGON for a description of asphyxiants.

MDQ770 CAS: 2321-53-1 HR: 2
METHANEARSONIC ACID, MONOAMMONIUM SALT

mf: CH₄AsO₃•H₄N mw: 157.02

PROP: Pesticide.

SYNS: AMMONIUM METHANEARSONATE □ ANSAR 157 □ ARSONIC ACID, METHYL-, MONOAMMONIUM SALT □ MAMA □ METHANEARSONIC ACID, AMMONIUM SALT □ METHYLARSONAT MONOAMONNY □ METHYLARSONIC ACID AMMONIUM SALT □ MONOAMMONIUM METHANEARSONATE □ USAF AN-16

TOXICITY DATA with REFERENCE:

mor-hmn-oth 3600 µg/L ITCSAF 17,719,81

orl-rat LD50:750 mg/kg 28ZEAL 4,266,69

ipr-mus LD50:>1 g/kg NTIS** AD691-490

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

OSHA PEL: TWA 0.5 mg(As)/m³

ACGIH TLV: BEI: 35 µ(As)/L inorganic arsenic and methylated metabolites in urine

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Mutation data reported. When

heated to decomposition it emits toxic vapors of NH₃ and As.

MDQ800 HR: 3
METHANE BORONIC ANHYDRIDE-PYRIDINE COMPLEX

mf: CH₃BO•C₅H₅N mw: 120.95

SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of NO_x. See also ANHYDRIDES, PYRIDINE, and BORON COMPOUNDS.

MDQ825 CAS: 7526-26-3 HR: 3
METHANEPHOSPHONIC ACID, DIPHENYL ESTER

mf: C₁₃H₁₃O₃P mw: 248.23

SYNS: DIPHENYL METHANEPHOSPHONATE □ DIPHENYL METHYLPHOSPHONATE □ PHOSPHONIC ACID, METHYL-, DIPHENYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:233 mg/kg IJTofN 19,347,2000

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

MDQ850 CAS: 25646-71-3 HR: 3
METHANESULFONAMIDE, N-(2-((4-AMINO-3-METHYLPHENYL)ETHYLAMINO)ETHYL)-, SULFATE (2:3) (9CI)

mf: C₁₂H₂₁N₃O₂S•3/2H₂O₄S mw: 418.49

SYNS: N-(2-(4-AMINO-N-ETHYL-m-TOLUIDINO)ETHYL)-METHANESULFONAMIDE SULFATE (2:3) □ CD 3 □ CD III □ KODAK CD-3 □ METHANESULFONAMIDE,N-(2-(4-AMINO-N-ETHYL-m-TOLUIDINO)ETHYL)-, SULFATE (2:3)

TOXICITY DATA with REFERENCE:

orl-rat LD50:152 mg/kg NTIS** OTS0570977

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

MDQ900 CAS: 136075-60-0 HR: D
METHANESULFONAMIDE, N-(1'-(2-(5-BENZO-FURAZANYL)ETHYL)-3,4-(DIHYDRO-4-OXOSPIRO(2H-1-BENZOPYRAN-2,4'-PIPERIDIN-6-YL)-, MONOHYDROCHLORIDE

SYN: L-691,121

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

MDR250 CAS: 75-75-2 HR: 3
METHANESULFONIC ACID

mf: CH₄O₃S mw: 96.11

PROP: Solid or liquid. D: 1.4812 @ 18°/4°, mp: 20°, bp: 167° @ 10 mm. Sol in water, alc, and ether. Corrosive to iron, steel, brass, copper, and lead.

SYN: KYSELINA METHANSULFONOVA (CZECH)

TOXICITY DATA with REFERENCE:

orl-rat LDLo:200 mg/kg KODAK* 21MAY71

ipr-rat LDLo:50 mg/kg KODAK* 21MAY71

orl-qal LD50:1000 mg/kg JRPFA4 48,371,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. May be corrosive to skin, eyes, and mucous membranes. Explosive reaction with ethyl vinyl ether. Incompatible with hydrogen fluoride. When heated to decomposition it emits toxic fumes of SO_x. See also SULFONATES.

MDR275 CAS: 4248-77-5 HR: D
METHANESULFONIC ACID, NONAMETHYLENE ESTER

mf: C₁₁H₂₄O₆S₂ mw: 316.47

SYNS: NONANE-1,9-DIMETHANESULFONATE □ NONANE DIMETHANESULPHONATE □ 1,9-NONANEDIOL, DIMETHANESULFONATE □ NONAMETHYLENE DIMETHANESULFONATE □ NONASULFAN □ NONASULPHAN

TOXICITY DATA with REFERENCE:

dnd-rat-oth 250 µmol/L BCPA6 32,2297,1983

SAFETY PROFILE: Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic vapors of SO_x.

MDR300 CAS: 124-63-0 HR: D
METHANESULFONYL CHLORIDE

mf: CH₃ClO₂S mw: 114.55

PROP: Colorless to light yellow liquid with pungent odor. Bp: 60°. Partially sol in water. D: 1.475 @ 20°.

SYNS: CHLOROMETHYL SULFONE □ MESYL CHLORIDE □ METHANESULFONIC ACID CHLORIDE □ METHANESULPHONYL CHLORIDE □ METHYL SULFOCHLORIDE □ METHYLSULFONYL CHLORIDE

TOXICITY DATA with REFERENCE:

mic-bac-sat 250 µg/plate MUREAV 320,165,94

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MDR750 CAS: 558-25-8 HR: 3
METHANESULFONYL FLUORIDE

mf: CH₃FO₂S mw: 98.10

PROP: Pesticide.

SYNS: FUMETTE □ METHANESULPHONYL FLUORIDE □ MSF

TOXICITY DATA with REFERENCE:

orl-rat LD50:2 mg/kg IAEC** 17JUN74

ihl-rat LC50:1 ppm/7H AIHAAP 40,986,79

ipr-rat LD50:3 mg/kg NATUAS 173,33,54

scu-rat LD50:3500 µg/kg 28ZEAL 4,271,69

scu-mus LDLo:3500 µg/kg 31ZOAD 1,287,68

ivn-mus LD50:1 mg/kg IAEC** 17JUN74

scu-dog LDLo:3500 µg/kg 31ZOAD 1,287,68

ivn-dog LD50:5620 µg/kg IAEC** 17JUN74

scu-rbt LDLo:3500 µg/kg 31ZOAD 1,287,68

ivn-rbt LD50:3370 µg/kg IAEC** 17JUN74

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

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

When heated to decomposition it emits very toxic fumes of F⁻ and SO_x. See also FLUORIDES and SULFONATES.

MDR775 CAS: 25284-83-7 HR: 3
METHANETELLUROL

mf: CH₄Te mw: 143.64

SAFETY PROFILE: A poison. Ignites spontaneously in air. Explodes on contact with oxygen at room temperature. When heated to decomposition it emits toxic fumes of Te. See also TELLURIUM COMPOUNDS.

MDR800 CAS: 538-75-0 HR: 3
**N,N'-METHANETETRAYL BISCYCLO-
 HEXANAMINE**

mf: C₁₃H₂₂N₂ mw: 206.37

SYNS: BIS(CYCLOHEXYL)CARBODIIMIDE □ CARBODIIMIDE, DICYCLOHEXYL- □ CYCLOHEXANAMINE, N,N'-METHANETETRAYLBIS- □ DCC □ DCCD □ DCCI □ DICYCLOHEXYLCARBODIIMIDE □ N,N'-DICYCLOHEXYLCARBODIIMIDE □ 1,3-DICYCLOHEXYLCARBODIIMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:400 mg/kg NTIS** OTS0555962

ihl-rat LC50:159 mg/m³/6H NTIS** OTS0555962

ipr-rat LD50:10 mg/kg NTIS** OTS0555962

orl-mus LD50:>800 mg/kg NTIS** OTS0555962

ipr-mus LD50:>800 mg/kg NTIS** OTS0555962

skn-gpg LD50:10 mL/kg NTIS** OTS0555962

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MDS500 CAS: 100-72-1 HR: 2
2-METHANOL TETRAHYDROPYRAN

mf: C₆H₁₂O₂ mw: 116.18

PROP: Liquid. Fp: -70°, bp: 187°, d: 1.0272 @ 20°/20°, vap d: 4.02, vap press: 0.4 mm @ 20°, flash p: 200°F (CC).

SYNS: 2-HYDROXYMETHYLTETRAHYDROPYRAN □ TETRAHYDROPYRAN-2-METHANOL □ TETRAHYDROPYRANYL-2-METHANOL

TOXICITY DATA with REFERENCE:

skn-rbt 515 mg open MLD UCDS** 7/28/66

skn-rbt 500 mg SEV SCCUR* -,6,61

eye-rbt 16,450 µg SEV UCDS** 7/28/66

orl-rat LD50:3730 mg/kg AMIHC 10,61,54

orl-mus LD50:2870 mg/kg SCCUR* -,6,61

skn-rbt LD50:4000 mg/kg UCDS** 7/28/66

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

MDT000 HR: 2
**METHAPYRILENE mixed with SODIUM NITRITE
 (1:2)**

SYN: SODIUM NITRITE mixed with METHAPYRILENE (2:1)

TOXICITY DATA with REFERENCE:

orl-rat TDLo:121 g/kg/90W-I:CAR FCTXAV 15,269,77

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Na_2O and NO_x . See also SODIUM NITRITE.

MDT250 CAS: 340-56-7 HR: 3
METHAQUALONE HYDROCHLORIDE

mf: $\text{C}_{16}\text{H}_{14}\text{N}_2\text{O}\cdot\text{ClH}$ mw: 286.78

PROP: Crystals. Mp: 255–265°. Sol in ether, ethanol; almost insol in water.

SYNS: MELSEDIN □ METHYLQUINAZOLONE HYDROCHLORIDE □ 2-METHYL-3-TOLYLCHINAZOLON-4-HYDROCHLORIDE (GERMAN) □ 2-METHYL-3-o-TOLYL-4(3H)-QUINAZOLINONE HYDROCHLORIDE □ 2-METHYL-3-(o-TOLYL)-4-QUINAZOLONE HYDROCHLORIDE □ MTQ HYDROCHLORIDE □ OPTIMIL □ PAREST □ SOMNAFAC □ TUAZOLE

TOXICITY DATA with REFERENCE:

orl-man TDLo:5714 µg/kg:BAH,CVS,PUL CTOXAO 6,317,73

orl-rat LD50:410 mg/kg BCFAAI 111,472,72

ipr-rat LD50:124 mg/kg 27ZQAG -,262,72

ivn-rat LD50:120 mg/kg 27ZQAG -,262,72

orl-mus LD50:400 mg/kg ABMGAI 13,591,64

ipr-mus LD50:390 mg/kg TXAPA9 37,185,76

ivn-mus LD50:120 mg/kg 27ZQAG -,262,72

ivn-rbt LD50:120 mg/kg 27ZQAG -,262,72

orl-gpg LD50:360 mg/kg 27ZQAG -,262,72

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. An experimental teratogen. Experimental reproductive effects. Human systemic effects: convulsions, dyspnea, pulse rate increase. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

MDT500 CAS: 1229-35-2 HR: 3
METHDILAZINE HYDROCHLORIDE

mf: $\text{C}_{18}\text{H}_{20}\text{N}_2\text{S}\cdot\text{ClH}$ mw: 332.92

PROP: Crystals from isopropyl alc. Mp: 187.5–189°.

SYNS: DILOSYN □ DISYNCRAN □ 10-((1-METHYL-3-PYRROLIDINYL)METHYL)PHENOTHIAZINE, HYDROCHLORIDE □ TACARYL

TOXICITY DATA with REFERENCE:

otr-ham:emb 10 mg/L ENMUDM 8(Suppl 6),4,86

orl-rat LD50:260 mg/kg TXAPA9 2,68,60

orl-mus LD50:190 mg/kg TXAPA9 2,68,60

ipr-mus LD50:100 mg/kg TXAPA9 2,68,60

ivn-rbt LDLo:17 mg/kg TXAPA9 2,68,60

orl-gpg LD50:263 mg/kg TXAPA9 2,68,60

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

MDT600 CAS: 51-57-0 HR: 3
METHEDRINE

mf: $\text{C}_{10}\text{H}_{15}\text{N}\cdot\text{ClH}$ mw: 185.72

PROP: Crystals from EtOH. Mp: 172°.

SYNS: ADIPEX □ DEOFED □ d-DEOXYEPHEDRINE HYDROCHLORIDE □ DESOXO-5 □ d-DESOXYEPHEDRINE HYDROCHLORIDE □ DESOXYFED □ DESOXYN □ DESOXYNE □ DESTIM □ DESYPHED □ DEXOVAL □ DEXTIM □ DOXYFED □ DRINALFA □ EFROXINE □ EUFODRIANL □ GERVOT □ ISOPHEN □ METAMPHETAMINE HYDROCHLORIDE □ (+)-METHAMPHETAMINE CHLORIDE □ METHAMPHETAMINE HYDROCHLORIDE □ (+)-METHAMPHETAMINE HYDROCHLORIDE □ d-METHAMPHETAMINE HYDROCHLORIDE □ METHAMPHETAMINIUM CHLORIDE □ METHEDRINE HYDROCHLORIDE □ METHYLAMPHETAMINE HYDROCHLORIDE □ d-METHYLAMPHETAMINE HYDROCHLORIDE □ N-METHYLAMPHETAMINE HYDROCHLORIDE □ METHYLISOMYN □ NORODIN HYDROCHLORIDE □ PERVITIN □ PHILOPON □ SOXYSYPAMINE □ SYNDROX □ TONEDRON

TOXICITY DATA with REFERENCE:

scu-rat TDLo:400 mg/kg (1-21D preg/19D

post):NEO,TER EAGRDS 5,509,79

ipr-mus LD50:15 mg/kg 27ZQAG -,346,72

scu-mus LD50:7560 µg/kg JPETAB 87,214,46

ivn-mus LD50:6300 µg/kg CSLNX* NX#02170

orl-gpg LD50:90 mg/kg SMWOAS 84,351,54

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

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also BENZEDRINE and various amphetamines.

MDT625 CAS: 4234-79-1 HR: 3
1,3,4-METHENO-1H-CYCLOBUTA(c,d)PENTAL-ENE-2-LEVULINIC ACID, 1,1A,3,3A,4,5,5A,-5B,6-DECACHLOROCTAHYDRO-2-HYDROXY-, ETHYL ESTER

mf: $\text{C}_{17}\text{H}_{12}\text{Cl}_{10}\text{O}_4$ mw: 634.79

SYNS: ALLIED GC 9160 □ DESPIROL □ GC 9160 □ GENERAL CHEMICAL 9160 □ GENERAL CHEMICALS 9160 □ KELEVAN

TOXICITY DATA with REFERENCE:

orl-rat LD50:240 mg/kg KSKZAN 16(2),59,78

orl-dog LD50:400 mg/kg BESAAT 15,96,69

skn-rbt LD50:188 mg/kg BESAAT 15,96,69

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

MDT650 CAS: 14056-64-5 HR: 3
METHIOMEPAZINE HYDROCHLORIDE

mf: $\text{C}_{19}\text{H}_{24}\text{N}_2\text{S}_2\cdot\text{ClH}$ mw: 381.03

SYNS: 10-(3-(DIMETHYLAMINO)-2-METHYLPROPYL)-2-(METHYLTHIO)PHENOTHIAZINE HYDROCHLORIDE □ PHENOTHIAZINE, 10-(3-(DIMETHYLAMINO)-2-METHYLPROPYL)-2-(METHYLTHIO)-, HYDROCHLORIDE □ 10H-PHENOTHIAZINE-10-PROPANAMINE, N,N,β-TRIMETHYL-2-(METHYLTHIO)-, MONOHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:145 mg/kg 27ZQAG -,30,1972

scu-mus LD50:700 mg/kg 27ZQAG -,30,1972

ivn-mus LD50:80 mg/kg 27ZQAG -,30,1972

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

MDT730 CAS: 348-67-4 HR: 1
d-METHIONINE

mf: C₅H₁₁NO₂S mw: 149.23

PROP: Loses ammonia.

SYN: d-MET'IONIEN (AUSTRALIAN)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:5223 mg/kg ABBIA4 64,319,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also METHIONINE.

MDT740 CAS: 59-51-8 HR: 2
di-METHIONINE

mf: C₅H₁₁NO₂S mw: 149.23

PROP: White crystalline platelets; characteristic odor. Mp: 281° (decomp). Sol in water, dil acids, and alkalies; very sltly sol in alc; insol in ether.

SYNS: ACIMETION □ BANTHIONINE □ CYNARON □ DYPRIN □ LOBAMINE □ MEONINE □ MERTIONIN □ METHILANIN □ (±)-METHIONINE □ METIONE □ NESTON

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:2 g/kg YACHDS 5,2041,77

orl-mus LDLo:4 g/kg YACHDS 5,2041,77

ipr-mus LDLo:1500 mg/kg YACHDS 5,2041,77

ivn-mus LDLo:300 mg/kg YACHDS 5,2041,77

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

SAFETY PROFILE: Moderately toxic by ingestion and other routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also l-METHIONINE.

MDT750 CAS: 63-68-3 HR: 1
l-METHIONINE

mf: C₅H₁₁NO₂S mw: 149.23

PROP: White, crystalline powder or platelets; faint odor. Mp: 281° (decomp), d: 1.340. Sol in water, dil acids, and alkalies; insol in abs alc, alc, benzene, acetone, ether.

SYNS: l-α-AMINO-γ-METHYLMERCAPTOBUTYRIC ACID □ l(-)-AMINO-γ-METHYLTHIOBUTYRIC ACID □ 2-AMINO-4-(METHYLTHIO)BUTYRIC ACID □ CYMETHION □ LIQUIMETH □ METHIONINE □ l(-)-METHIONINE □ l-γ-METHYLTHIO-α-AMINO BUTYRIC ACID

TOXICITY DATA with REFERENCE:

mmo-esc 100 mg/L PMRSDJ 1,376,81

dnr-smc 500 mg/L PMRSDJ 1,502,81

orl-rat LD50:36 g/kg GISAAA 48(6),20,83

ipr-rat LD50:4328 mg/kg ABBIA4 58,253,55

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

SAFETY PROFILE: Mildly toxic by ingestion and intraperitoneal routes. Human mutation data reported. An experimental teratogen. Experimental reproductive

effects. An essential sulfur-containing amino acid. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

MDT800 CAS: 13253-44-6 HR: 1
METHIONINE HYDANTOIN

mf: C₆H₁₀N₂O₂S mw: 174.24

SYNS: CP 93520 □ HYDANTOIN, 5-(2-(METHYLTHIO)ETHYL)- □ 2,4-IMIDAZOLIDINEDIONE, 5-(2-(METHYLTHIO)ETHYL)- □ dl-5-(β-METHYLMERCAPTOETHYL)HYDANTOIN □ 5-(β-METHYLMERCAPTOETHYL)HYDANTOIN □ dl-5-(2-(METHYLTHIO)ETHYL)HYDANTOIN □ (+)-5-(2-(METHYLTHIO)ETHYL)HYDANTOIN □ 5-(β-(METHYLTHIO)ETHYL)HYDANTOIN □ 5-(2-(METHYLTHIO)ETHYL)HYDANTOIN □ 5-(2-(METHYLTHIO)ETHYL)-2,4-IMIDAZOLIDINEDIONE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5 g/kg NTIS** OTS0545910

skn-rbt LD50:>5 g/kg NTIS** OTS0545910

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

MDT900 CAS: 31674-58-5 HR: 3
METHIONINE PLATINUM DICHLORIDE

mf: C₅H₁₀Cl₂NO₂PtS•H mw: 415.22

PROP: IDLH 4 mg/m³ (as Pt).

SYNS: DICHLORO(l-METHIONINATO-N,S)PLATINATE(1-) HYDROGEN (SP-4-3)- □ DICHLORO-l-METHIONINEPLATINUM(II) □ PLATINATE(1-), DICHLORO(l-METHIONINATO-N,S)-, HYDROGEN, (SP-4-3)- □ PLATINUM, DICHLORO(METHIONINE)-(7Cl) □ PLATINUM, DICHLORO(l-METHIONINE)-(8Cl)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:>300 mg/kg CBINA8 5,415,72

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

MDU100 CAS: 1982-67-8 HR: 3
METHIONINE SULFOXIMINE

mf: C₅H₁₂N₂O₃S mw: 180.25

SYNS: 2-AMINO-4-(S-METHYLSULFONIMIDOYL)-BUTANOIC ACID (9Cl) □ dl-METHIONINE-di-SULFOXIMINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:218 mg/kg PSEBAA 94,12,57

ivn-mus LD50:100 mg/kg CSLNX* NX#03652

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

MDU300 CAS: 3772-76-7 HR: 3
METHOFADIN

mf: C₁₂H₁₄N₄O₃S mw: 294.36

PROP: Crystals. Mp: 172–174°. Also obtained as the monohydrate.

SYNS: (p-AMINO BENZOLSULFONYL)-4-AMINO-2-METHYL-6-METHOXY-PYRIMIDIN (GERMAN) □ 4-AMINO-N-(6-METHOXY-2-METHYL-4-PYRIMIDINYL)BENZENESULFONAMIDE □ DUROPROCIN □ METHOFADIN □ METHOFAZINE □ SULFAMETHOMIDINE □ SULFAMETOMIDINE □ TANASUL □ TELEMID

TOXICITY DATA with REFERENCE:

ivn-mus LD50:16 mg/kg ARZNAD 3,66,53

SAFETY PROFILE: Poison by intravenous route. Experimental reproductive effects. An experimental teratogen. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

MDU500 CAS: 309-36-4 HR: 3
METHOHEXITAL SODIUM

mf: C₁₄H₁₇N₂O₃•Na mw: 284.32

PROP: Minute crystals. Mp: 60–64°. Sol in water.

SYNS: 5-ALLYL-1-METHYL-5-(1-METHYL-2-PENTYNYL)-BARBITURIC ACID SODIUM SALT □ BREVIMYTAL □ BREVITAL SODIUM □ BRIETAL SODIUM □ ENALLYNYMAL SODIUM □ LILLY 22451 □ METHOHEXITONE SODIUM □ 1-METHYL-5-ALLYL-5-(1-METHYL-2-PENTYNYL)BARBITURIC ACID SODIUM SALT □ SODIUM-dl-5-ALLYL-1-METHYL-5-(1-METHYL-2-PENTYNYL)BARBITURATE □ SODIUM METHOHEXITAL □ SODIUM METHOHEXITONE □ SODIUM dl-1-METHYL-5-ALLYL-5-(1-METHYL-2-PENTYNYL)BARBITURATE

TOXICITY DATA with REFERENCE:

ivn-wmn TDLo:25 µg/kg;CVS,GIT,SKN JOSUA9 30,906,72

ivn-rat LD50:24,890 µg/kg PSEBAA 89,292,55

imp-rat LD50:33 mg/kg 29ZVAB -,75,69

ivn-mus LD50:33,600 µg/kg OYYAA2 12,247,76

ivn-dog LD50:21,500 µg/kg PSEBAA 89,292,55

imp-dog LD50:25 mg/kg 29ZVAB -,75,69

ivn-rbt LD50:8640 µg/kg PSEBAA 89,292,55

imp-rbt LD50:10 mg/kg 29ZVAB -,75,69

SAFETY PROFILE: Poison by intravenous and implant routes. Human systemic effects by intravenous route: blood pressure lowering, gastrointestinal effects, and allergic dermatitis. An FDA proprietary drug. *Caution:* Excessive use may lead to addiction or habituation.

Allergenic effects by intravenous route. When heated to decomposition it emits toxic fumes of Na₂O and NO_x. See also BARBITURATES.

MDU600 CAS: 16752-77-5 HR: 3
METHOMYL

mf: C₅H₁₀N₂O₂S mw: 162.23

PROP: White, crystalline solid; sulfurous odor. Mp: 78–79°. Moderately sol in water; very sol in Me₂CO, EtOH, MeOH, and toluene.

SYNS: DU PONT INSECTICIDE 1179 □ ENT 27,341 □ INSECTICIDE 1,179 □ LANNATE □ MESOMILE □ ((METHYL N-((METHYLAMINO)CARBONYL)OXY)ETHANIMIDO)THIOATE □ METHYL-N-((METHYLCARBAMOYL)OXY)THIOACETIMIDATE □ S-METHYL N-[METHYLCARBAMOYLOXY]THIOACETIMIDATE □ 2-METHYLTHIO-ACETALDEHYD-O-(METHYLCARBAMOYL)-OXIM (GERMAN) □ 2-METHYLTHIO-PROPIONALDEHYD-O-(METHYLCARBAMOYL)-OXIM (GERMAN) □ METOMIL (ITALIAN) □ NU-BAIT II □ NUDRIN □ RCRA WASTE NUMBER P066 □ 3-THIABUTAN-2-ONE, O-(METHYLCARBAMOYL)OXIME □ WL 18236

TOXICITY DATA with REFERENCE:

orl-rat LD50:17 mg/kg GUCHAZ 6,336,73

ihl-rat LC50:77 ppm TXAPA9 40,1,77

scu-rat LD50:9 mg/kg TXAPA9 25,569,73

orl-mus LD50:10 mg/kg JAFCAU 26,550,78

orl-dog LDLo:30 mg/kg TXAPA9 40,1,77

orl-mky LDLo:40 mg/kg TXAPA9 40,1,77

skn-rbt LD50:5880 mg/kg FMCHA2 -,D197,80

CONSENSUS REPORTS: EPA Genetic Toxicology Program. EPA Extremely Hazardous Substances List.

OSHA PEL: TWA 2.5 mg/m³

ACGIH TLV: TWA 2.5 mg/m³; Not Classifiable as a Human Carcinogen

SAFETY PROFILE: Poison by ingestion, inhalation, and subcutaneous routes. Mildly toxic by skin contact. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

MDU750 CAS: 522-23-6 HR: 3
METHOPHENAZINE DIFUMARATE

mf: C₃₁H₃₆ClN₃O₅S•C₈H₄O₈ mw: 826.33

PROP: A solid. Mp: 190–194°.

SYNS: FRENOLON DIFUMARATE □ METHOPHENAZATE

ACID FUMARATE □ PHRENOLAN □ T-82 DIFUMARATE □ 3,4,5-TRIMETHOXY-BENZOIC ACID 2-(4-(3-(2-CHLOROPHENOTHAZIN-10-YL)PROPYL)-1-PIPERAZINYL)ETHYL ESTER, DIFUMARATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1635 mg/kg KSRNAM 4,503,70

ipr-rat LD50:939 mg/kg KSRNAM 4,503,70

scu-rat LDLo:2560 mg/kg KSRNAM 4,503,70

orl-mus LD50:580 mg/kg KSRNAM 4,503,70

ipr-mus LD50:150 mg/kg 27ZQAG -,30,72

scu-mus LD50:142 mg/kg 27ZQAG -,30,72

ivn-mus LD50:90 mg/kg 27ZQAG -,30,72

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion. An experimental teratogen. When heated to decomposition it emits very toxic fumes of Cl⁻, SO_x, and NO_x. See also ESTERS.

MDV000 CAS: 2154-02-1 HR: 3
METHOPHOLINE

mf: C₂₀H₂₄ClNO₂ mw: 345.90

SYNS: 1-(p-CHLOROPHENETHYL)-6,7-DIMETHOXY-2-METHYL-1,2,3,4-TETRAHYDROISOQUINOLINE □ 1-(p-CHLOROPHENETHYL)-2-METHYL-6,7-DIMETHOXY-1,2,3,4-TETRAHYDROISOQUINOLINE □ 1-(p-CHLOROPHENETHYL)-1,2,3,4-TETRAHYDRO-6,7-DIMETHOXY-2-METHYLISOQUINOLINE □ MESOFOLIN □ METOFOLINE □ NIH 7672 □ RO 4-1778 □ VERSIDYNE

TOXICITY DATA with REFERENCE:

orl-rat LD50:400 mg/kg MDCHAG 5,318,65

ipr-rat LD50:100 mg/kg MDCHAG 5,318,65

scu-rat LD50:400 mg/kg EXPEAM 18,446,62

orl-mus LD50:180 mg/kg EXPEAM 18,446,62

ipr-mus LD50:70 mg/kg MDCHAG 5,318,65

scu-mus LD50:180 mg/kg MEIEDD 11,966,89

ivn-mus LD50:25 mg/kg TXAPA9 6,334,64

orl-dog LD50:295 mg/kg MDCHAG 5,318,65

ivn-rbt LD50:30 mg/kg EXPEAM 18,446,62

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

MDV250 CAS: 5985-35-3 HR: 3
METHORPHINAN HYDROBROMIDE

mf: C₁₇H₂₃NO•BrH mw: 338.33

SYNS: DROMORAN HYDROBROMIDE □ dl-3-HYDROXY-N-METHYLMORPHINAN HYDROBROMIDE □ NU 2206 □ RACEMORPHAN HYDROBROMIDE □ RO 1-5431

TOXICITY DATA with REFERENCE:

orl-rat LD50:350 mg/kg JPETAB 109,189,53
scu-rat LD50:108 mg/kg AIPTAK 85,387,51
orl-mus LD50:375 mg/kg JPETAB 109,189,53
ipr-mus LD50:120 mg/kg JPETAB 99,163,50
ivn-mus LD50:33 mg/kg AIPTAK 85,387,51
ivn-rbt LD50:19 mg/kg AIPTAK 85,387,51

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

MDV500 CAS: 59-05-2 HR: 3 METHOTREXATE

mf: C₂₀H₂₂N₈O₅ mw: 454.50

SYNS: AMETHOPTERIN □ 4-AMINO-4-DEOXY-N¹⁰-METHYLPTEROYLGLUTAMATE □ 4-AMINO-4-DEOXY-N¹⁰-METHYLPTEROYLGLUTAMIC ACID □ 4-AMINO-10-METHYLFOLIC ACID □ 4-AMINO-N¹⁰-METHYLPTEROYL-GLUTAMIC ACID □ ANTIFOLAN □ N-BISMETHYL-PTEROYLGLUTAMIC ACID □ CL-14377 □ 1-(+)-N-(p-(((2,4-DIAMINO-6-PTERIDINYL)(METHYL)(METHYLAMINO)-BENZOYL)GLUTAMIC ACID □ EMT 25,299 □ EMTEXATE □ HDMTX □ METHOPTERIN □ METHOTEXTRATE □ METHYLAMINOPTERIN □ MTX □ NCI-C04671 □ NSC-740 □ R 9985

TOXICITY DATA with REFERENCE:

eye-hmn 150 mg/kg nse CANCAR 48,2158,81
cyt-ham:ovr 5 mg/L ENMUDM 2,455,80
orl-man TDLo:7 mg/kg/12W-C:CAR,BLD ONCOBS 40,268,83
orl-cld TDLo:125 mg/kg/6Y-I:CAR JAMAAP 238,2631,77
orl-man TD:74 mg/kg/48W-I:CAR,BLD,SKN ARDEAC 103,501,71
orl-man TD:8260 µg/kg/44W-I:CAR,BLD SJHAAQ 24,234,80
orl-wmn TDLo:2 mg/kg/17W-I:PUL JRHUA9 14,74,87
orl-man TDLo:643 µg/kg/6W-I JRHUA9 14,74,87
isp-wmn LDLo:36 mg/kg/15D NEJMAG 289,770,73
par-wmn TDLo:2600 µg/kg:BRN CANCAR 38,1529,76
unr-wmn TDLo:150 mg/kg:EYE CANCAR 48,2158,81
orl-chd TDLo:2 mg/kg/12D:MET,PUL JAMAAP 209,1861,69
ivn-chd TDLo:100 mg/kg/4H:BLD,BIO CANCAR 33,1151,74
orl-hmn TDLo:43 mg/kg/5Y:LIV ARDEAC 100,523,69
ivn-hmn TDLo:4650 µg/kg/4W-I:LIV PAACA3 5,26,64
ims-hmn TDLo:200 mg/kg/5Y:LIV,PUL ARDEAC 100,531,69
ims-hmn TDLo:35 mg/kg/28W:BPR,PUL BMJOAE 2,156,70
orl-rat LD50:135 mg/kg NIIRDN 6,841,82
ipr-rat LD50:6 mg/kg NIIRDN 6,841,82
ivn-rat LD50:14 mg/kg ARZNAD 20,1467,70
orl-mus LD50:146 mg/kg NIIRDN 6,841,82
ipr-mus LD50:50 mg/kg ANREAK 178,465,74
scu-mus LD50:250 mg/kg NCISP* JAN86
ivn-mus LD50:65 mg/kg NIIRDN 6,841,82

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,241,87; Animal Inadequate Evidence IMEMDT 26,267,81; Human Inadequate Evidence IMEMDT 26,267,81. NCI Carcinogenesis

Studies (ipr); No Evidence: mouse, rat CANCAR 40,1935,77. Reported in EPA TSCA Inventory.

SAFETY PROFILE: A human poison by intraspinal route. Poison experimentally by ingestion, intravenous, subcutaneous, and intraperitoneal routes. Human teratogenic effects by ingestion: developmental abnormalities of the craniofacial area and the musculoskeletal system. Human systemic effects by multiple routes: thrombocytopenia (decrease in the number of blood platelets), bone marrow changes, other blood changes, cerebral spinal fluid effects, eye effects, blood pressure lowering, cough, dyspnea, fibrosis (pneumoconiosis), cyanosis, gastrointestinal effects, fatty liver degeneration, hepatitis, impairment of liver function tests, other liver changes, fever, effects on inflammation or mediation of inflammation, leukopenia. Human mutation data reported. Experimental reproductive effects. A human eye irritant. Questionable human carcinogen producing leukemia, Hodgkin's disease, and skin tumors. An FDA proprietary drug. A chemotherapeutic agent. When heated to decomposition it emits toxic fumes including NO_x.

MDV600 CAS: 7413-34-5 HR: 3 METHOTREXATE DISODIUM SALT

mf: C₂₀H₂₀N₈O₅•2Na mw: 498.46

SYNS: AMETHOPTERIN SODIUM □ 4-AMINO-N¹⁰-METHYLPTEROYLGLUTAMIC ACID DISODIUM SALT □ DISODIUM METHOTREXATE □ GLUTAMIC ACID, N-(p-(((2,4-DIAMINO-6-PTERIDINYL)(METHYL)(METHYLAMINO)-BENZOYL)-, DISODIUM SALT, L-(+)- □ MTX DISODIUM □ SODIUM METHOTREXATE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:284 mg/kg JJIND8 58,735,77

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

MDV750 CAS: 15475-56-6 HR: 3 METHOTREXATE SODIUM

mf: C₂₀H₂₁N₈O₅•Na mw: 476.48

SYNS: AMETHOPTERIN □ MTX SODIUM

TOXICITY DATA with REFERENCE:

cyt-hmn:lym 100 nmol/L HEREAY 96,317,82

ipr-mus LD50:27 mg/kg PJPPAA 25,327,73

SAFETY PROFILE: Poison by intraperitoneal route. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of Na₂O and NO_x. See also METHOTREXATE.

MDW000 CAS: 61-16-5 HR: 3 METHOXAMINE HYDROCHLORIDE

mf: C₁₁H₁₇NO₃•ClH mw: 247.71

PROP: Crystals. Mp: 212–216°. Very sol in water; practically insol in ether, benzene, and chloroform.

SYNS: 2-AMINO-1-(2,5-DIMETHOXYPHENYL)-1-PROPANOL HYDROCHLORIDE □ α-(1-AMINOETHYL)-2,5-DIMETHOXY-BENZYL ALCOHOL HYDROCHLORIDE □ β-(2,5-DIMETHOXY-PHENYL)-β-HYDROXYISOPROPYLAMINE HYDROCHLORIDE □ β-HYDROXY-β-(2,5-DIMETHOXYPHENYL)-ISOPROPYL-AMINE HYDROCHLORIDE □ PRESSOMIN HYDROCHLORIDE

□ VASOXINE □ VASOXINE HYDROCHLORIDE □ VASOXYL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LDLo:135 mg/kg 27ZIAQ -,160,73

ipr-mus LD50:92 mg/kg NIIRDN 6,836,82

ivn-mus LD50:5030 µg/kg EJPHAZ 9,289,70

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Experimental reproductive effects. An FDA proprietary drug. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

MDW100

HR: 3

METHOXERPATE HYDROCHLORIDE

mf: C₂₄H₃₂N₂O₅•ClH mw: 465.04

SYNS: MEPIRESERPATE HYDROCHLORIDE □ MEPISERATE HYDROCHLORIDE □ METOSERPATE HYDROCHLORIDE □ SU 9064

TOXICITY DATA with REFERENCE:

orl-rat LD50:182 mg/kg 27ZQAG -,105,72

ivn-rat LD50:24 mg/kg 27ZQAG -,105,72

ivn-mus LD50:24 mg/kg 27ZQAG -,105,72

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

MDW250

CAS: 10312-83-1

HR: 2

METHOXYACETALDEHYDE

mf: C₃H₆O₂ mw: 74.09

PROP: A liquid. D: 1.005 @ 25°/4°, bp: 92.3°.

SYNS: ACETALDEHYDE, METHOXY-(8Cl,9Cl) □ α-METHOXYACETALDEHYDE □ 2-METHOXYACETALDEHYDE □ METHOXYETHANAL

TOXICITY DATA with REFERENCE:

cyt-hmn:lyms 2500 µmol/L MUREAV 320,125,94

sce-hmn:lyms 500 µmol/L MUREAV 320,125,94

orl-rat LD50:2330 mg/kg 34ZIAG -,382,69

ipr-rat LDLo:487 mg/kg TOLED5 32,73,86

skn-rbt LD50:1170 mg/kg 34ZIAG -,382,69

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and intraperitoneal routes. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

MDW275

CAS: 625-45-6

HR: 2

METHOXYACETIC ACID

mf: C₃H₆O₃ mw: 90.09

PROP: A liquid. D: 1.177 @ 20°/4°, bp: 203–204°.

SYN: 2-METHOXYACETIC ACID

TOXICITY DATA with REFERENCE:

dni-mus:emb25 mmol/L TOLED5 45,111,89

orl-rat LDLo:2 g/kg FAATDF 2,158,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: 5 ppm

SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

MDW300

CAS: 5878-19-3

HR: 3

1-METHOXYACETONE

mf: C₄H₈O₂ mw: 88.12

SYNS: METHOXYACETONE □ METHOXYMETHYL METHYL KETONE □ METHOXY-2-PROPANONE □ 1-METHOXY-2-PROPANONE □ 2-PROPANONE, 1-METHOXY-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,704,86

eye-rbt 500 mg/24H MLD 85JCAE -,704,86

orl-rat LD50:8980 mg/kg TXAPA9 28,313,74

skn-rbt LD50:>20 g/kg TXAPA9 28,313,74

DOT CLASSIFICATION: 3; Label: Flammable Liquid
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MDW750

CAS: 100-06-1

HR: 3

4'-METHOXYACETOPHENONE

mf: C₉H₁₀O₂ mw: 150.19

PROP: Colorless to pale-yellow fused solid; hawthorn odor. Plates from alc. Mp: 38–39°, bp: 250°. Sol in fixed oils, propylene glycol; misc in glycerin.

SYNS: ACETANISOLE (FCC) □ p-ACETYLANISOLE □ 4-ACETYLANISOLE □ BANANOTE □ ETHANONE, 1-(4-METHOXYPHENYL)-(9Cl) □ FEMA No. 2005 □ LINARODIN □ 4-METHOXYACETOFENON □ 4-METHOXYACETOPHENONE □ p-METHOXYACETOPHENONE □ 4-METHOXYPHENYL METHYL KETONE □ p-METHOXYPHENYL METHYL KETONE □ NOVATONE □ VANANOTE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,807,74

ihl-hmn TCLo:1700 µg/m³/39W-I:CVS GISAAA 50(4),86,85

orl-rat LD50:1720 mg/kg FCTXAV 12,807,74

orl-mus LD50:820 mg/kg GISAAA 50(4),86,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion. Human systemic effects by inhalation: pulse rate increase without fall in blood pressure and blood pressure elevation. A skin irritant. Flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

MDW780

CAS: 38870-89-2

HR: 3

METHOXYACETYL CHLORIDE

mf: C₃H₅ClO₂ mw: 108.52

CH₃OCH₂CO•Cl

PROP: Pungent odor. D: 1.187 g/cm³ @ 20°, bp: 113°.

SYN: 2-METHOXYETHANOYL CHLORIDE

SAFETY PROFILE: A storage hazard. It evolves HCl gas which can burst a sealed container. When heated to decomposition it emits toxic fumes of Cl⁻. See also CHLORIDES.

MDX000

CAS: 6443-91-0

HR: 3

METHOXYACETYLENE

mf: C₃H₄O mw: 56.07



PROP: Volatile liquid. D: 0.805 @ 18°, bp: 22.5–23.5°.

SYN: ETHYNYLMETHYL ETHER

SAFETY PROFILE: Potentially explosive. A dangerous fire hazard when exposed to heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.

MDX250 CAS: 17959-11-4 HR: 3
(METHOXYACETYL)METHYLCARBAMIC ACID-*o*-ISOPROPOXYPHENYL ESTER

mf: C₁₄H₁₉NO₅ mw: 281.34

SYNS: ENT 27,350 □ 2-(1-METHYLETHOXY)PHENYL (METHOXYACETYL)METHYLCARBAMATE □ NSC-190948 □ UPJOHN U-18120

TOXICITY DATA with REFERENCE:

orl-rat LD50:70 mg/kg ARSIM* 20,26,66

orl-mus LD50:200 mg/kg ARSIM* 20,26,66

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

MDX300 CAS: 52098-17-6 HR: 3
2-(METHOXYACETYL)-1-METHYLINDOLE

mf: C₁₂H₁₃NO₂ mw: 203.26

SYNS: KETONE, METHOXYMETHYL 1-METHYL-2-INDOLYL □ METHOXYMETHYL 1-METHYL-2-INDOLYL KETONE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:350 mg/kg PCJOAU 8,74,74

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

MDX310 CAS: 52098-18-7 HR: 3
2-(METHOXYACETYL)-3-METHYLINDOLE

mf: C₁₂H₁₃NO₂ mw: 203.26

SYNS: KETONE, METHOXYMETHYL 3-METHYL-2-INDOLYL- □ METHOXYMETHYL 3-METHYL-2-INDOLYL KETONE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:350 mg/kg PCJOAU 8,74,74

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

MDX350 CAS: 61417-04-7 HR: D
4'-(1-METHOXY-9-ACRIDINYLAMINO)-METHANE SULFONANILIDE

mf: C₂₁H₁₉N₃O₃S mw: 393.49

TOXICITY DATA with REFERENCE:

mmo-sat 23 μmol/L JMCAR 23,269,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFONATES.

MDY000 CAS: 59748-95-7 HR: D
4'-(3-METHOXY-9-ACRIDINYLAMINO)-METHANESULFONANILIDE

mf: C₂₁H₁₉N₃O₃S mw: 393.49

SYN: N-(4-((3-METHOXY-9-ACRIDINYLAMINO)PHENYL)-METHANESULFONAMIDE

TOXICITY DATA with REFERENCE:

mmo-sat 35 μmol/L JMCAR 23,269,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFONATES.

MDY250 CAS: 61417-05-8 HR: D
4'-(4-METHOXY-9-ACRIDINYLAMINO)-METHANESULFONANILIDE

mf: C₂₁H₁₉N₃O₃S mw: 393.49

TOXICITY DATA with REFERENCE:

mmo-sat 43 μmol/L JMCAR 23,269,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFONATES.

MDY300 CAS: 89022-12-8 HR: 2
2'-METHOXY-4'-ALLYLPHENYL-4-GUANIDINO-BENZOATE

mf: C₁₈H₁₉N₃O₃ mw: 325.40

SYNS: 4-((AMINOIMINOMETHYL)AMINO)BENZOIC ACID 2-METHOXY-4-(2-PROPENYL)PHENYL ESTER □ BENZOIC ACID, 4-((AMINOIMINOMETHYL)AMINO)-, 2-METHOXY-4-(2-PROPENYL)PHENYL ESTER □ BENZOIC ACID, p-GUANIDINO-, 4-ALLYL-2-METHOXYPHENYL ESTER □ p-GUANIDINO-BENZOIC ACID 4-ALLYL-2-METHOXYPHENYL ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LD50:870 mg/kg JMCAR 29,514,86

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

MDY400 CAS: 80830-39-3 HR: D
2-METHOXY-4-AMINOAZOBENZENE

mf: F₁₃H₁₃N₃O mw: 318.16

SYNS: m-ANISIDINE, 4-(PHENYLAZO)- □ BENZENAMINE, 3-METHOXY-4-(PHENYLAZO)- □ 3-METHOXY-4-(PHENYLAZO)-BENZENAMINE □ 4-(PHENYLAZO)-m-ANTISIDINE

TOXICITY DATA with REFERENCE:

add-ipr-rat 50 mg/kg CALEDQ 58,199,91

add-unr-lym 250 μmol/L CALEDQ 58,199,91

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

MDY750 CAS: 1747-60-0 HR: 3
6-METHOXY-2-AMINO BENZOTHAZOLE

mf: C₈H₈N₂OS mw: 180.24

PROP: Light pink powder. Mp: 165–167°.

TOXICITY DATA with REFERENCE:

mma-sat 600 nmol/L ENMUDM 3,11,81

dns-rat:lv 10 μmol/L ENMUDM 3,11,81

orl-mus LD50:241 mg/kg TXAPA 9 27,70,74

ivn-mus LD50:140 mg/kg JPETAB 105,486,52

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MDZ000 CAS: 5834-17-3 HR: 2**2-METHOXY-3-AMINODIBENZOFURAN**mf: C₁₃H₁₁NO₂ mw: 213.25**SYN:** 2-AMINO-3-METHOXYDIPHENYLENOXYD (GERMAN)**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.**MEA000 CAS: 56970-24-2 HR: 2****3-METHOXY-4-AMINODIPHENYL**mf: C₁₃H₁₃NO mw: 199.27**SYN:** 3-METHOXYBIPHENYLAMINE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**MEA250 CAS: 64011-44-5 HR: 2****4-METHOXY-4-AMINO-2-PENTANOL**mf: C₆H₁₅NO₂ mw: 133.22**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg SEV SCCUR* -,6,61

orl-rat LDLo:750 mg/kg SCCUR* -,6,61

orl-mus LD50:1290 mg/kg SCCUR* -,6,61

ihl-mus LCLo:835 ppm/8H SCCUR* -,6,61

skn-rbt LDLo:1380 mg/kg SCCUR* -,6,61

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Mildly toxic by inhalation. A severe skin irritant. When heated to decomposition it emits toxic fumes of NO_x.**MEA500 CAS: 52740-56-4 HR: 3****dl,4-METHOXYAMPHETAMINE
HYDROCHLORIDE**mf: C₁₀H₁₅NO•ClH mw: 201.72**SYNS:** 4-METHOXYAMPHETAMINE HYDROCHLORIDE □ dl-p-METHOXY-α-METHYL-PHENETHYLAMINE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:46 mg/kg TXAPA9 45,49,78

orl-mus LD50:284 mg/kg TXAPA9 45,49,78

ipr-mus LD50:40 mg/kg JMCMA8 8,100,65

ivn-mus LD50:49 mg/kg TXAPA9 45,49,78

ivn-dog LD50:7 mg/kg TXAPA9 45,49,78

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also BENZEDRINE.**MEA600 CAS: 52740-56-4 HR: 3****2-METHOXYANILINIUM NITRATE**mf: C₇H₁₀N₂O₄ mw: 186.17**SYN:** 2-ANISIDINE NITRATE**SAFETY PROFILE:** The pure nitrate decomposes exothermically at 146°C. The crude material may decompose as low as 46°C. May ignite with friction. Reacts exothermically with sulfuric acid. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES.**MEA625 CAS: 54150-69-5 HR: D**
2-METHOXY-p-ANISIDINE HYDROCHLORIDEmf: C₈H₁₁NO₂•ClH mw: 189.66**SYNS:** ANILINE, 2,4-DIMETHOXY-, HYDROCHLORIDE □ BENZENAMINE, 2,4-DIMETHOXY-, HYDROCHLORIDE □ 2,4-DIMETHOXYANILINE HYDROCHLORIDE □ 2,4-DIMETHOXYBENZENAMINE HYDROCHLORIDE □ 4-METHOXY-o-ANISIDINE HYDROCHLORIDE □ NCI-C02255**TOXICITY DATA with REFERENCE:**

mic-sat 100 µLg/plate EMMUEG 19(Suppl 21),2,1992

msc-mus-lym 150 mg/L EMMUEG 12,85,1988

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.**MEA650 CAS: 82-39-3 HR: D****1-METHOXYANTHRAQUINONE**mf: C₁₅H₁₀O₃ mw: 238.25**SYNS:** 9,10-ANTHRACENEDIONE, 1-METHOXY-(9CI) □ ANTHRAQUINONE, 1-METHOXY- □ 1-METHOXY-9,10-ANTHRACENEDIONE**TOXICITY DATA with REFERENCE:**

mmo-sat 500 µg/plate MUREAV 40,203,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**MEA700 CAS: 15918-62-4 HR: D****6-METHOXYARISTOLOCHIC ACID D**mf: C₁₈H₁₃NO₈ mw: 371.32**SYNS:** ARISTOLOCHIC ACID IV □ ARISTOLOCHIC ACID IVa METHYL ETHER □ 8,10-DIMETHOXY-6-NITROPHENANTHRO(3,4-D)-1,3-DIOXOLE-5-CARBOXYLIC ACID □ o-METHYL-ARISTOLOCHIC ACID D □ 2,3-METHYLENEDIOXY-5,7-DIMETHOXY-10-NITROPHENANTHROIC ACID □ PHENANTHRO(3,4-D)-1,3-DIOXOLE-5-CARBOXYLIC ACID, 8,10-DIMETHOXY-6-NITRO-**TOXICITY DATA with REFERENCE:**

mic-bac-sat 100 µg/plate PHARES 27(Suppl 1),117,93

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**MEA750 CAS: 67293-86-1 HR: 2****METHOXYAZOXYMETHANOLACETATE**mf: C₄H₈N₂O₄ mw: 148.14**TOXICITY DATA with REFERENCE:**

sln-dmg-orl 47 ng PSEBAA 125,988,67

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**MEA800 CAS: 65654-08-2 HR: D****2-(p-METHOXYBENZAMIDO)ACETO-
HYDROXAMIC ACID**mf: C₁₀H₁₂N₂O₄ mw: 224.24**TOXICITY DATA with REFERENCE:**

mmo-sat 1 µmol/plate JOPHDQ 3,557,80

dnr-bcs 10 µmol/disc JOPHDQ 3,557,80

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

**MEB000 CAS: 56183-20-1 HR: 2
3-METHOXY-1,2-BENZANTHRACENE**mf: C₁₉H₁₄O mw: 258.33**SYN:** 5-METHOXY-BENZ(a)ANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**MEB250 CAS: 63019-69-2 HR: 2
5-METHOXY-1,2-BENZANTHRACENE**mf: C₁₉H₁₄O mw: 258.33**SYNS:** 5-METHOXY-1,2-BENZ(a)ANTHRACENE □ 8-METHOXY-BENZ(a)ANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**MEB500 CAS: 6366-20-7 HR: 2
10-METHOXY-1,2-BENZANTHRACENE**mf: C₁₉H₁₄O mw: 258.33**SYN:** 7-METHOXY-BENZ(a)ANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**MEB750 CAS: 3688-79-7 HR: 2
3-METHOXYBENZANTHRONE**mf: C₁₈H₁₂O₂ mw: 260.30**SYNS:** ACETATE YELLOW 6G □ CELLITON BRILLIANT YELLOW 8G □ C.I. 58900 □ C.I. DISPERSE YELLOW 13 □ DISPERSE YELLOW 6Z □ DURANOL BRILLIANT YELLOW G □ 3-METHOXY-7H-BENZ(de)ANTHRACEN-7-ONE**TOXICITY DATA with REFERENCE:**mma-sat 100 µg/plate MUREAV 66,979
ipr-rat LD50:750 mg/kg GTPZAB 30(1),50,86
ipr-mus LD50:1200 mg/kg RPTOAN 40,137,77**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating fumes.**MEB800 CAS: 5307-02-8 HR: D
2-METHOXY-1,4-BENZENEDIAMINE**mf: C₇H₁₀N₂O mw: 138.19**SYNS:** 1,4-BENZENEDIAMINE, 2-METHOXY-(9CI) □ 2,5-DIAMINOANISOLE □ 2-METHOXY-p-PHENYLENEDIAMINE □ p-PHENYLENEDIAMINE, 2-METHOXY-**TOXICITY DATA with REFERENCE:**mmo-sat 20 µg/plate PNASA6 72,2423,75
dnd-hmn:fbr 50 µmol/L MUREAV 127,107,84**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**MEB820 CAS: 66671-82-7 HR: 3
2-METHOXY-1,4-BENZENEDIAMINE SULFATE**mf: C₇H₁₀N₂O•H₂O₄S mw: 236.27**SYNS:** 1,4-BENZENEDIAMINE, 2-METHOXY-, SULFATE (1:1) □ 2,5-DIAMINOANISOLE SULFATE □ p-PHENYLENEDIAMINE, 2-METHOXY-, SULFATE**TOXICITY DATA with REFERENCE:**mma-sat 25 µg/plate MUREAV 238,1,90
orl-rat LD50:70 mg/kg JTEHD6 2,657,77
ipr-rat LD50:28 mg/kg JTEHD6 2,657,77**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**MEB900 CAS: 123333-56-2 HR: D
4-METHOXY-1,3-BENZENEDIAMINE SULFATE (1:1) HYDRATE**mf: C₇H₁₀N₂O•H₂O₄S•xH₂O mw: 362.41**SYNS:** 1,3-BENZENEDIAMINE, 4-METHOXY-, SULFATE (1:1), HYDRATE □ 2,4-DIAMINOANISOLE SULFATE HYDRATE □ m-PHENYLENEDIAMINE, 1-METHOXY-, SULFATE, HYDRATE**TOXICITY DATA with REFERENCE:**

dnd-rat-lvr 3 mmol/L MUREAV 368,59,1996

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**MEC250 CAS: 3811-49-2 HR: 3
2-METHOXY-4H-1,2,3-BENZODIOXAPHOSPHORINE-2-SULFIDE**mf: C₈H₉O₃PS mw: 216.20**SYNS:** DIOXABENZOFOS □ FENPHOSPHORIN □ K-9 □ PHOSPHOROTHIOIC ACID, CYCLIC O,O-(METHYLENE-O-PHENYLENE) O-METHYL ESTER □ SALITHION □ SALITHION-SUMITOMO**TOXICITY DATA with REFERENCE:**mmo-sat 500 µg/plate MUREAV 116,185,83
orl-rat LD50:102 mg/kg PSTDAN 15,3,81
skn-rat LD50:400 mg/kg FMCHA2 -,C268,91
orl-mus LD50:91 mg/kg 30ZDA9 -,336,71
scu-mus LD50:81,600 µg/kg FMCHA2 -,C210,83**SAFETY PROFILE:** Poison by ingestion, skin contact, and subcutaneous routes. Mutation data reported. An insecticide. When heated to decomposition it emits very toxic fumes of SO_x and PO_x. See also PARATHION.**MEC300 CAS: 52814-92-3 HR: 3
1-(6-METHOXY-2-BENZOFURANYL)ETHANONE**mf: C₁₁H₁₀O₃ mw: 190.21**SYNS:** ETHANONE, 1-(6-METHOXY-2-BENZOFURANYL)-(9CI) □ KETONE, 6-METHOXY-2-BENZOFURANYL METHYL □ 6-METHOXY-2-BENZOFURANYL METHYL KETONE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:1000 mg/kg EJMCA5 12,383,77

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**MEC320 CAS: 43071-52-9 HR: 3
1-(7-METHOXY-2-BENZOFURANYL)ETHANONE**mf: C₁₁H₁₀O₃ mw: 190.21**SYNS:** ETHANONE, 1-(7-METHOXY-2-BENZOFURANYL)-(9CI) □ KETONE, 7-METHOXY-2-BENZOFURANYL METHYL □ 7-METHOXY-2-BENZOFURANYL METHYL KETONE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1000 mg/kg EJMCAS 12,383,77

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**MEC330 CAS: 21587-39-3 HR: 3
5-METHOXY-2-BENZOFURANYL METHYL KETONE**mf: C₁₁H₁₀O₃ mw: 190.21**SYNS:** ETHANONE, 1-(5-METHOXY-2-BENZOFURANYL)-(9CI)

□ KETONE, 5-METHOXY-2-BENZOFURANYL METHYL □ 1-(5-METHOXY-2-BENZOFURANYL)ETHANONE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1000 mg/kg EJMCAS 12,383,77

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**MEC332 CAS: 15089-03-9 HR: 2
p-METHOXYBENZOIC ACID 2-PHENYL-HYDRAZIDE**mf: C₁₄H₁₄N₂O₂ mw: 242.30**SYNS:** p-ANISIC ACID, 2-PHENYLHYDRAZIDE □ β-(p-

ANISOYLPHENYL)HYDRAZIDE □ BENZOIC ACID, 4-

METHOXY-, 2-PHENYLHYDRAZIDE □ BENZOIC ACID, p-

METHOXY-, 2-PHENYLHYDRAZIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1600 mg/kg PCJOAU 14,162,1980

SAFETY PROFILE: Moderately toxic by ingestion. intraperitoneal route**MEC333 CAS: 611-94-9 HR: 2
4-METHOXYBENZOPHENONE**mf: C₁₄H₁₂O₂ mw: 212.26**SYNS:** BENZOPHENONE, 4-METHOXY-(6CI,8CI) □

METHANONE, (4-METHOXYPHENYL)PHENYL- □ p-

METHOXYBENZOPHENONE □ p-METHOXYBENZYL

PHENYL KETONE □ (4-METHOXYPHENYL)PHENYL-

METHANONE □ PHENYL p-ANISYL KETONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 g/kg TOVEFN (3),46,1994

ipr-rat LD50:3673 mg/kg TOVEFN (3),46,1994

orl-mus LD50:3039 mg/kg TOVEFN (3),46,1994

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.**MEC340 CAS: 57543-57-4 HR: 3
1-(5-METHOXY-2H-1-BENZOPYRAN-3-YL)-ETHANONE**mf: C₁₂H₁₂O₃ mw: 204.24**SYNS:** 2H-1-BENZOPYRAN, 3-ACETYL-5-METHOXY- □

ETHANONE, 1-(5-METHOXY-2H-1-BENZOPYRAN-3-YL)-(9CI) □

KETONE, 5-METHOXY-2H-1-BENZOPYRAN-3-YL METHYL □ 5-

METHOXY-2H-1-BENZOPYRAN-3-YL METHYL KETONE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1000 mg/kg EJMCAS 11,81,76

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**MEC500 CAS: 52351-96-9 HR: 2
6-METHOXYBENZO(a)PYRENE**mf: C₂₁H₁₄O mw: 282.35**TOXICITY DATA with REFERENCE:**

mma-sat 18 nmol/plate BBRCAS 85,351,78

skn-mus TDLo:180 mg/kg/40W-I:ETA CBINA8

22(1),53,78

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MEC550 CAS: 532-91-2 HR: D
6-METHOXYBENZOXAZOLINONE**mf: C₈H₇NO₃ mw: 165.16**SYNS:** 2(3H)-BENZOXAZOLONE, 6-METHOXY-(9CI) □ 2-

BENZOXAZOLINONE, 6-METHOXY- □ COIXOL □ MBOA □ 6-

MBOA □ 6-METHOXY-2(3H)-BENZOXAZOLONE

TOXICITY DATA with REFERENCE:

dni-hmn-leu 100 nmol/L EXPEAM 32,29,1976

uns-hmn-leu 100 nmol/L EXPEAM 32,29,1976

imp-rat TDLo:962 µg/kg (male 1D pre):REP JRPFA4

83,859,1988

SAFETY PROFILE: Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**MEC600 CAS: 33207-59-9 HR: 3
2-(4'-METHOXYBENZOYL)FLUORENE**mf: C₂₁H₁₆O₂ mw: 300.37**SYNS:** KETONE, 2-FLUORENYL p-METHOXYPHENYL □

METHANONE, 9H-FLUOREN-2-YL(4-METHOXYPHENYL)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2 g/kg RPTOAN 48,143,85

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**MED000 CAS: 38860-48-9 HR: 2
N-(4-METHOXY)BENZOYLOXYPIPERIDINE**mf: C₁₃H₁₇NO₃ mw: 235.31**TOXICITY DATA with REFERENCE:**

skn-mus TDLo:19 mg/kg:NEO JNCIAM 54,491,75

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x.**MED100 CAS: 23826-71-3 HR: 3
3-(4-METHOXYBENZOYL)PYRIDINE**mf: C₁₃H₁₁NO₂ mw: 213.25**SYNS:** p-ANISYL 3-PYRIDYL KETONE □ KETONE, p-ANISYL

3-PYRIDYL □ KETONE, (p-METHOXYPHENYL) 3-PYRIDYL □

p-METHOXYPHENYL 3-PYRIDYL KETONE □ PYRIDINE, 3-(4-

METHOXYBENZOYL)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1375 mg/kg JMCAMAR 14,551,71

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

MED250 CAS: 63059-68-7 HR: 2
8-METHOXY-3,4-BENZOPYRENE

mf: C₂₁H₁₄O mw: 282.35

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

MED500 CAS: 105-13-5 HR: 2
p-METHOXYBENZYL ALCOHOL

mf: C₈H₁₀O₂ mw: 138.18

PROP: Needles or colorless liquid; floral odor. D: 1.113 @ 15°/15°, refr index: 1.543, mp: 25°, bp: 135–136° @ 12 mm, flash p: 210°F. Insol in water; sol in alc, ether, and fixed oils; sltly sol in glycerin.

SYNS: ANISE ALCOHOL □ ANISIC ALCOHOL □ p-ANISOL ALCOHOL □ ANISYL ALCOHOL (FCC) □ FEMA No. 2099 □ 4-METHOXYBENZENEMETHANOL □ 4-METHOXYBENZYL ALCOHOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,825,74

orl-rat LD50:1200 mg/kg JPETAB 93,26,48

orl-mus LD50:1600 mg/kg JPETAB 93,26,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.

MED750 CAS: 14617-95-9 HR: 2
p-METHOXYBENZYL BUTYRATE

mf: C₁₂H₁₆O₃ mw: 208.2

PROP: Flavoring agent.

SYN: ANISYL-N-BUTYRATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD FCTXAV 14,659,76

orl-rat LD50:3400 mg/kg FCTXAV 14,683,76

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

MEE000 CAS: 105-13-5 HR: 3
p-METHOXYBENZYL CHLORIDE

mf: C₈H₉ClO mw: 156.61

SAFETY PROFILE: Unstable. Has exploded while being stored. When heated to decomposition it emits toxic fumes of Cl⁻.

MEE100 CAS: 26227-73-6 HR: D
4-METHOXYBENZYLIDENE-4'-N-BUTYLANILINE

mf: C₁₈H₂₁NO mw: 267.40

SYNS: ANILINE, p-BUTYL-N-(p-METHOXYBENZYLIDENE)- □ BENZENEAMINE, 4-BUTYL-N-((4-METHOXYPHENYL)-METHYLENE)- □ DL 1047 N □ MBBA

TOXICITY DATA with REFERENCE:

mic-sat 33 µL/g/plate EMMUEG 11(Suppl 12),1,1988

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MEE150 CAS: 4468-39-7 HR: D
3-(p-METHOXYBENZYL)-4-(p-METHOXYPHENYL)HEXANE

mf: C₂₁H₂₈O₂ mw: 312.49

SYNS: BENZENE, 1,1'-(1,2-DIETHYL-1,3-PROPANEDIYL)BIS(4-METHOXY- □ CDRI 77/735 □ HEXANE, 3-(p-METHOXYBENZYL)-4-(p-METHOXYPHENYL)-

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

MEF400 CAS: 66839-98-3 HR: 3
1-((4-METHOXY(1,1'-BIPHENYL)-3-YL)METHYL)-PYRROLIDINE

mf: C₁₈H₂₁NO mw: 267.40

SYNS: PYRROLIDINE, 1-((4-METHOXY(1,1'-BIPHENYL)-3-YL)METHYL)- □ 3-PYRROLIDINO-N-METHYL-4-METHOXYBIPHENYL

TOXICITY DATA with REFERENCE:

orl-rat LD50:28 mg/kg IJMRAQ 67,392,78

SAFETY PROFILE: Poison by ingestion.

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

MEF500 CAS: 10024-70-1 HR: 2
3-METHOXY BUTANOIC ACID

mf: C₅H₁₀O₃ mw: 118.15

PROP: Liquid. Mp: 12°, d: 1.053 @ 20°/20°, bp: 139° @ 50 mm.

SYN: 3-METHOXYBUTYRIC ACID

TOXICITY DATA with REFERENCE:

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

eye-rbt 750 µg open SEV AMIHBC 10,61,54

orl-rat LD50:3030 mg/kg AMIHBC 10,61,54

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

MEF750 CAS: 5281-76-5 HR: 3
3-METHOXY BUTYRALDEHYDE

mf: C₅H₁₀O₂ mw: 102.15

PROP: Bp: 127–129°, flash p: 140°F.

TOXICITY DATA with REFERENCE:

orl-rat LD50:540 mg/kg AIHAAP 23,95,62

ihl-rat LCLo:1000 ppm/4H AIHAAP 23,95,62

skn-rbt LD50:310 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: Poison by skin contact.

Moderately toxic by ingestion. Mildly toxic by inhalation.

Flammable liquid when exposed to heat, open flame, or oxidizers. To fight fire, use foam, water spray, mist, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

MEF800 CAS: 569-34-6 HR: D
8-METHOXYCAFFEINE

mf: C₉H₁₂N₄O₃ mw: 224.25

SYNS: CAFFEINE, 8-METHOXY- □ METHOXYCAFFEINE □ 8-METHOXY-1,3,7-TRIMETHYLYXANTHINE □ 1H-PURINE-2,6-DIONE, 3,7-DIHYDRO-8-METHOXY-1,3,7-TRIMETHYL-(9CI)

TOXICITY DATA with REFERENCE:

dnd-hmn-lym 10 µmol/L CRNGDP 15,2491,94

dnd-mus-leu 20 µmol/L CRNGDP 12,1781,91

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

MEG000 CAS: 55936-76-0 HR: D
4'-METHOXYCARBONYL-N-ACETOXY-N-METHYL-4-AMINOAZOBENZENE

mf: C₁₇H₁₇N₃O₄ mw: 327.37

SYNS: p-((p-(ACETOXYMETHYLAMINO)PHENYL)AZO)-BENZOIC ACID METHYL ESTER □ 4-((4-((ACETOXY)-METHYLAMINO)PHENYL)AZO)BENZOIC ACID METHYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

mmo-sat 100 nmol/plate CALEDQ 1,91,75

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MEG250 CAS: 13684-63-4 HR: 2
3-METHOXYCARBONYLAMINOPHENYL N-3'-METHYLPHENYLCARBAMATE

mf: C₁₆H₁₆N₂O₄ mw: 300.34

PROP: Needles from Et₂O/pet ether. Very sltly sol in H₂O; sltly sol in C₆H₆, CHCl₃, MeOH; sol in Me₂CO.

SYNS: AIMSAN □ BETANAL □ CARBAMIC ACID, (3-METHYLPHENYL)-, 3-((METHOXYCARBONYL)AMINO)-PHENYL ESTER (9CI) □ EP-452 □ FENMEDIFAM □ m-HYDROXYCARBANILIC ACID METHYL ESTER m-METHYL-CARBANILATE □ 3-METHOXYCARBONYL-N-(3'-METHYL-PHENYL)CARBAMAT □ METHYL m-HYDROXYCARBANIL-ATE, m-METHYLCARBANILATE □ 3-(METHYLPHENYL)-CARBAMIC ACID 3-((METHOXYCARBONYL)AMINO)PHENYL ESTER □ METHYL 3-(m-TOLYLCARBAMOYLOXY)PHENYL-CARBAMATE □ PHENDIPHAM □ PHENME-DIPHAM □ PHENMEDIPHAME □ SCHERING-38584 □ SN 4075 □ SN-38584 □ SYNBETAN P □ VANGARD

TOXICITY DATA with REFERENCE:

sln-asn 40 mg/L EVHPAZ 31,81,79

cyt-mus-unr 100 mg/kg TGANAK 14(6),41,80

cyt-mus-orl 100 mg/kg CYGEDX 14(6),38,80

orl-rat TDLo:880 mg/kg (9-22D preg):TER GISAAA 49(4),16,84

orl-rat LD50:4 g/kg GISAAA 49(4),16,84

skn-rat LD50:>500 mg/kg WRPCA2 9,119,70

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. An experimental teratogen. Experimental reproductive effects. Mutation data reported. An herbicide. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

MEG500 CAS: 55936-75-9 HR: D
4'-METHOXYCARBONYL-N-BENZOYLOXY-N-METHYL-4-AMINOAZOBENZENE

mf: C₂₂H₁₉N₃O₄ mw: 389.44

SYN: p-(((p-BENZOYLOXYMETHYLAMINO)PHENYL)AZO)-BENZOIC ACID METHYL ESTER

TOXICITY DATA with REFERENCE:

mmo-sat 100 nmol/plate CALEDQ 1,91,75

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS.

MEG750 CAS: 79448-03-6 HR: D
N-(2-METHOXYCARBONYLETHYL)-N-(1-ACETOXYBUTYL)NITROSAMINE

mf: C₁₀H₁₈N₂O₅ mw: 246.2

SYNS: N-(4-HYDROXYBUTYL)-N-NITROSO-β-ALANINE, METHYL ESTER, ACETATE □ MCEABN

TOXICITY DATA with REFERENCE:

mmo-sat 1 µmol/plate GANNA2 71,124,80

mmo-esc 1 µmol/plate GANNA2 71,124,80

mrc-bcs 500 nmol/plate GANNA2 71,124,80

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES and ESTERS.

MEH000 CAS: 70103-81-0 HR: D
N-(2-METHOXYCARBONYLETHYL)-N-(ACETOXYMETHYL)NITROSAMINE

mf: C₇H₁₂N₂O₅ mw: 204.15

SYNS: N-(HYDROXYMETHYL)-N-NITROSO-β-ALANINE METHYL ESTER, ACETATE □ MCEAMN

TOXICITY DATA with REFERENCE:

mmo-sat 1 µmol/plate GANNA2 71,124,80

mmo-esc 1 µmol/plate GANNA2 71,124,80

mrc-bcs 100 nmol/plate GANNA2 71,124,80

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS and NITROSAMINES.

MEH100 CAS: 108278-74-6 HR: D
N-METHOXYCARBONYLETHYL-N-NITROSOUREA

mf: C₅H₉N₃O₄ mw: 175.17

SYN: β-ALANINE, N-(AMINOCARBONYL)-N-NITROSO-, METHYL ESTER

TOXICITY DATA with REFERENCE:

dnr-esc 240 µmol/L MUREAV 202,193,1988

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

MEH250 CAS: 55936-78-2 HR: D
4'-METHOXYCARBONYL-N-HYDROXY-N-METHYL-4-AMINOAZOBENZENE

mf: C₁₅H₁₅N₃O₃ mw: 285.33**TOXICITY DATA with REFERENCE:**

mmo-sat 100 nmol/plate CALEDQ 1,91,75

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

MEH500 HR: D
N-(METHOXYCARBONYLMETHYL)-N-(1-ACETOXYBUTYL)NITROSAMINE

mf: C₉H₁₆N₂O₅ mw: 232.2**TOXICITY DATA with REFERENCE:**

mmo-sat-1 µmol/plate GANNA2 71,124,80

mmo-esc-1 µmol/plate GANNA2 71,124,80

mrc-bcs-500 µmol/plate GANNA2 71,124,80

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

MEH750 CAS: 70103-80-9 HR: D
N-(METHOXYCARBONYLMETHYL)-N-(ACETOXYMETHYL)NITROSAMINE

mf: C₆H₁₀N₂O₅ mw: 190.2

SYN: MCMAMN

TOXICITY DATA with REFERENCE:

mmo-sat 1 µmol/plate GANNA2 71,124,80

mmo-esc 1 µmol/plate GANNA2 71,124,80

mrc-bcs 1 µmol/plate GANNA2 71,124,80

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

MEH760 CAS: 108278-73-5 HR: D
N-METHOXYCARBONYLMETHYL-N-NITROSOUREA

mf: C₄H₇N₃O₄ mw: 161.14

SYN: GLYCINE, N-(AMINOCARBONYL)-N-NITROSO-, METHYL ESTER

TOXICITY DATA with REFERENCE:

dnr-esc 90 µmol/L MUREAV 202,193,1988

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

MEH775 CAS: 62861-57-8 HR: 3
3-METHOXYCARBONYL PROPEN-2-YL TRIFLUOROMETHANE SULFONATE

mf: C₆H₇F₃O₅ mw: 248.17CH₃OCO•CH=CHCH₂OSO₂CF₃

SAFETY PROFILE: May explode at room temperature. Reacts violently with aprotic solvents (e.g., DMF, DMSO). When heated to decomposition it emits toxic fumes of F⁻ and SO_x. See also SULFONATES and FLUORIDES.

MEI000 CAS: 100700-29-6 HR: 2
N-(3-METHOXYCARBONYLPROPYL)-N-(1-ACETOXYBUTYL)NITROSAMINE

mf: C₁₁H₂₀N₂O₅ mw: 260.2

SYN: N-(3-CARBOMETHOXYPROPYL)-N-(1-ACETOXYBUTYL)NITROSAMINE □ CMPABN □ 4-((4-HYDROXYBUTYL)NITROSAMINO)BUTYRIC ACID METHYL ESTER ACETATE (ESTER) □ MCPABN

TOXICITY DATA with REFERENCE:

mmo-sat 1 µmol/plate GANNA2 71,124,80

mmo-esc 1 µmol/plate GANNA2 71,124,80

mrc-bcs 1 µmol/plate GANNA2 71,124,80

scu-rat TDLo:99 mg/kg 10W-I:CAR IAPUDO 41,619,82

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation

data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

MEI250 CAS: 70103-82-1 HR: D
N-(3-METHOXYCARBONYLPROPYL)-N-(ACETOXYMETHYL)NITROSAMINE

mf: C₈H₁₄N₂O₅ mw: 218.2

SYN: ((HYDROXYMETHYL)NITROSAMINO)-BUTYRIC ACID METHYL ESTER, ACETATE □ MCPAMN

TOXICITY DATA with REFERENCE:

mmo-sat 1 µmol/plate GANNA2 71,124,80

mmo-esc 1 µmol/plate GANNA2 71,124,80

mrc-bcs 100 nmol/plate GANNA2 71,124,80

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

MEI300 CAS: 108278-75-7 HR: D
N-METHOXYCARBONYLPROPYL-N-NITROSOUREA

mf: C₆H₁₁N₃O₄ mw: 189.20

SYN: BUTANOIC ACID, 4-((AMINOCARBONYL)NITROSOAMINO)-, METHYL ESTER

TOXICITY DATA with REFERENCE:

dnr-esc 500 µmol/L MUREAV 202,193,1988

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

MEI450 CAS: 72-43-5 HR: 3
METHOXYCHLOR

mf: C₁₆H₁₅Cl₃O₂ mw: 345.66

PROP: Dimorphic crystals from MeOH. Mp: 78°, vap d: 12. IDLH 5000 mg/m³.

SYN: 2,2-BIS(p-ANISYL)-1,1,1-TRICHLOROETHANE □ 1,1-BIS(p-METHOXYPHENYL)-2,2,2-TRICHLOROETHANE □ 2,2-BIS(p-METHOXYPHENYL)-1,1,1-TRICHLOROETHANE □ CHEMFORM □ DIANISYLTRICHLOROETHANE □ 2,2-DI-p-ANISYL-1,1,1-TRICHLOROETHANE □ DIMETHOXY-DDT □ p,p'-DIMETHOXYDIPHENYLTRICHLOROETHANE □ DIMETHOXY-DT □ 2,2-DI-(p-METHOXYPHENYL)-1,1,1-TRICHLOROETHANE □ DI(p-METHOXYPHENYL)-TRICHLOROMETHYL METHANE □ DMDT □ p,p'-DMDT □ ENT 1,716 □ MARALATE □ MARLATE □ METHOXCIDE □ METHOXO □ p,p'-METHOXYCHLOR □ METHOXY-DDT □ METOKSYCHLOR (POLISH) □ METOX □ MOXIE □ NCI-C00497 □ RCRA WASTE NUMBER U247 □ 1,1,1-TRICHLOR-2,2-BIS(4-METHOXY-PHENYL)-AETHAN (GERMAN) □ 1,1,1-TRICHLORO-2,2-BIS(p-ANISYL)ETHANE □ 1,1,1-TRICHLORO-2,2-BIS(p-METHOXYPHENOL)ETHANOL □ 1,1,1-TRICHLORO-2,2-BIS(p-METHOXYPHENYL)ETHANE □ 1,1,1-TRICHLORO-2,2-DI(4-METHOXYPHENYL)ETHANE □ 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS(4-METHOXYBENZENE)

TOXICITY DATA with REFERENCE:

spm-rat-orl 28 g/kg/10W-C PSEBAA 176,187,84

cyt-ham-ipr 50 mg/kg ARTODN 58,152,85

orl-rat TDLo:18,200 mg/kg/2Y-C:CAR,TER EVHPAZ 36,205,80

orl-mus TDLo:56,700 mg/kg/90W-C:CAR,TER

JCROD7 93,173,79

orl-rat TD:80 g/kg/2Y-C:CAR,TER LIFSAK 24,1367,79

orl-rat TD:72,800 mg/kg/2Y-C:CAR EVHPAZ 36,205,80

orl-hmn LDLo:6430 mg/kg PCOC** -,705,66
 skn-hmn TDLo:2414 mg/kg:CNS PCOC** -,705,66
 orl-rat LD50:5000 mg/kg JPETAB 99,140,50
 orl-mus LD50:1 g/kg JAFCAU 25,859,77
 ipr-ham LD50:500 mg/kg ARTODN 58,152,85

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal No Evidence IMEMDT 20,259,79; Animal Inadequate Evidence IMEMDT 5,193,74. NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-35,78. EPA Genetic Toxicology Program. Community Right-To-Know List.

OSHA PEL: TWA Total Dust: 10 mg/m³; 5 mg/m³

ACGIH TLV: TWA 10 mg/m³; Not Classifiable as a Human Carcinogen

DFG MAK: 15 mg/m³

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Moderately toxic by intraperitoneal and skin contact routes. Human systemic effects by skin contact: somnolence. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits highly toxic fumes of Cl⁻. See also DDT and CHLOROPHENOLS.

MEI500 CAS: 59928-80-2 HR: 2

METHOXYCHLOR mixed with DIAZINON

PROP: Contains 0.8 lb diazinon and 1.6 lb methoxychlor per gallon of formulation (FMCHA2 -,D10,77).

SYNS: ALFA-TOX □ DIAZINON mixed with METHOXYCHLOR

TOXICITY DATA with REFERENCE:

skn-rbt 150 mg open MOD CIGET* -,77

eye-rbt 30 mg MOD CIGET* -,77

orl-rat LD50:2000 mg/kg FMCHA2 -,C9,83

skn-rbt LD50:8 g/kg CIGET* -,77

SAFETY PROFILE: Moderately toxic by ingestion. A skin and eye irritant. An insecticide. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also individual components.

MEJ250 CAS: 17070-44-9 HR: D
2-METHOXY-6-CHLORO-9-(3-(2-CHLOROETHYL)AMINOPROPYLAMINO) ACRIDINE DIHYDROCHLORIDE

mf: C₁₉H₂₁Cl₂N₃O•2ClH mw: 451.25

SYNS: N-(2-CHLOROETHYL)-N'-(6-CHLORO-2-METHOXY-9-ACRIDINYL)-1,3-PROPANEDIAMINE DIHYDROCHLORIDE □ ICR-191 □ ICR DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

mic-sat 320 ng/plate EMMUEG 16,204,1990

msc-hmn:lym 4 mg/L/24H IMNGBK 4,437,77

dni-hmi 250 μmol/L MUREAV 80,249,81

dnd-uns 2 μmol/L EMMUEG 22,46,1993

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.

MEJ500 CAS: 61413-39-6 HR: 2

5-METHOXYCHRYSENE

mf: C₁₉H₁₄O mw: 258.33

PROP: Needles from pet ether. Mp: 142–143°.

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

MEJ750 CAS: 1504-74-1 HR: 1

o-METHOXY CINNAMALDEHYDE

mf: C₁₀H₁₀O₂ mw: 162.20

PROP: Crystals from C₆H₆/pet ether. Mp: 45–46°, bp: 295°.

SYNS: o-METHOXYCINNAMIC ALDEHYDE □ β-(o-METHOXYPHENYL)ACROLEIN □ 3-(2-METHOXYPHENYL)-2-PROPENAL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 13,681,75

mma-sat 333 μg/plate ENMUDM 8(Suppl 7),1,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

MEJ775 CAS: 14737-91-8 HR: 2

cis-2-METHOXYCINNAMIC ACID

mf: C₁₀H₁₀O₃ mw: 178.20

PROP: A solid. Mp: 93.6°.

SYNS: ACIDE o-METHOXYCINNAMIQUE (FRENCH) □ cis-o-METHOXYCINNAMIC ACID □ (Z)-3-(2-METHOXYPHENYL)-2-PROPENOIC ACID (9CI) □ SUBSTANCE H 36

TOXICITY DATA with REFERENCE:

orl-mus LD50:1750 mg/kg AIPTAK 119,443,59

ipr-mus LD50:1500 mg/kg AIPTAK 119,443,59

scu-mus LD50:1100 mg/kg AIPTAK 119,443,59

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

MEK300 CAS: 531-59-9 HR: 1

7-METHOXYCOUMARIN

mf: C₁₀H₈O₃ mw: 176.18

SYNS: AYAPANIN □ 2H-1-BENZOPYRAN-2-ONE, 7-METHOXY- □ COUMARIN, 7-METHOXY-(8CI) □ HERNIARIN (6CI) □ 7-METHOXY-2H-1-BENZOPYRAN-2-ONE □ METHYLUMBELLIFERONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4300 mg/kg FCTOD7 26,375,88

skn-gpg LD50:>5 g/kg FCTOD7 26,375,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MEK325 CAS: 93-51-6 HR: 3

2-METHOXY-p-CRESOL

mf: C₈H₁₀O₂ mw: 138.18

PROP: Colorless to yellow liquid. D: 1.092 @ 25°/4°, mp: 5.5°, bp: 220°. Sltly sol in water; sol in alc, benzene, chloroform, ether and acetic acid.

SYNS: p-CREOSOL □ HOMOQUAIACOL □ 4-HYDROXY-3-METHOXY-1-METHYLBENZENE □ 4-HYDROXY-3-

2346 MEK350 β -(2-METHOXY-5-CYCLOHEXYLBENZOYL)-

METHOXYTOLUENE \square KREOSOL \square 3-METHOXY-4-HYDROXYTOLUENE \square 2-METHOXY-4-METHYLPHENOL \square p-METHYLGUAIACOL \square 4-METHYLGUAIACOL \square PHENOL, 2-METHOXY-4-METHYL-

TOXICITY DATA with REFERENCE:

sce-hmn:lyms 500 μ mol/L MUREAV 206,17,88

orl-rat LD50:740 mg/kg FOMDAK 32,309,91

ivn-mus LD50:76 mg/kg AIPTAK 164,30,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous route. Appears to be at least moderately toxic. An irritant to skin and eyes. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

MEK350 HR: 3
 β -(2-METHOXY-5-CYCLOHEXYLBENZOYL)-PROPIONIC ACID SODIUM SALT

mf: $C_{17}H_{21}O_4 \cdot Na$ mw: 312.33

SYNS: 3-(5-CYCLOHEXYL-o-ANISOYL)-PROPIONIC ACID SODIUM SALT \square SC-2292

TOXICITY DATA with REFERENCE:

orl-mus LD50:1180 mg/kg JPETAB 100,421,50

ipr-mus LD50:185 mg/kg JPETAB 100,421,50

ivn-dog LDLo:23 mg/kg JPETAB 100,421,50

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Na_2O .

MEK700 CAS: 865-04-3 HR: 3
10-METHOXY-11-DESMETHOXYRESERPINE

mf: $C_{33}H_{40}N_2O_9$ mw: 608.75

PROP: Crystals from MeOH. Mp: 171°.

SYNS: CANESCINE 10-METHOXYDERIVATIVE \square DEASERPYL \square DECASERPIL \square DECASERPINE \square DECASERPYL \square DECASERPYL PLUS \square DECOSERPYL \square DESERPIDINE, 10-METHOXY- \square 10-MD \square METHOSERPEDINE \square METHOSERPIDINE \square 10-METHOXYDESERPIDINE \square MINORAN \square R 694 \square 3- β ,20- α -YOHIMBAN-16- β -CARBOXYLIC ACID, 18- β -HYDROXY-10,17- α -DIMETHOXY-, METHYL ESTER, 3,4,5-TRIMETHOXYBENZOATE (ester)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:82 mg/kg JPPMAB 12,677,60

ivn-mus LD50:8750 μ g/kg ARZNAD 14,1040,64

ivn-gpg LDLo:52 mg/kg THERAP 15,663,60

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Questionable human carcinogen producing colon, nose, and skin tumors. When heated to decomposition it emits toxic fumes of NO_x .

MEK750 CAS: 63019-72-7 HR: 2
5-METHOXYDIBENZ(a,h)ANTHRACENE

mf: $C_{23}H_{16}O$ mw: 308.39

SYNS: 3-METHOXY-DBA \square 3-METHOXY-1,2,5,6-DIBENZANTHRACENE

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

MEL000 CAS: 63041-72-5 HR: 2
7-METHOXYDIBENZ(a,h)ANTHRACENE

mf: $C_{23}H_{16}O$ mw: 308.39

SYNS: 9-METHOXY-DBA \square 9-METHOXY-1,2,5,6-DIBENZANTHRACENE

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

MEL100 CAS: 107746-52-1 HR: 3
N-METHOXY-3-(3,5-DI-tert-BUTYL-4-HYDROXY-BENZYLIDENE)-2-PYRROLIDONE

mf: $C_{20}H_{29}NO_3$ mw: 331.50

SYNS: E 5110 \square 3-((3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYPHENYL)METHYLENE)-1-METHOXY-2-PYRROLIDINONE \square 2-PYRROLIDINONE, 3-((3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYPHENYL)METHYLENE)-1-METHOXY-

TOXICITY DATA with REFERENCE:

orl-rat LD50:161 mg/kg USXXAM #4833160

ipr-rat LD50:47 mg/kg USXXAM #4833160

par-rat LD50:291 mg/kg USXXAM #4833160

orl-mus LD50:2 g/kg USXXAM #4833160

ipr-mus LD50:805 mg/kg USXXAM #4833160

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

MEL500 CAS: 1918-00-9 HR: 2
2-METHOXY-3,6-DICHLOROBENZOIC ACID

mf: $C_8H_6Cl_2O_3$ mw: 221.04

PROP: Colorless crystals. Decomposes below boiling point at 200C. Mp: 114–116°. Sol in water.

SYNS: ACIDO (3,6-DICLORO-2-METOSSI)-BENZOICO (ITALIAN) \square BANEX \square BANLEN \square BANVEL \square BANVEL HERBICIDE \square BRUSH BUSTER \square COMPOUND B DICAMBA \square DIANAT (RUSSIAN) \square DIANATE \square DICAMBA (DOT) \square 3,6-DICHLOR-2-METHOXY-BENZOEUZUUR (DUTCH) \square 3,6-DICHLOR-3-METHOXY-BENZOESAEURE (GERMAN) \square 3,6-DICHLORO-o-ANISIC ACID \square 2,5-DICHLORO-6-METHOXY-BENZOIC ACID \square 3,6-DICHLORO-2-METHOXYBENZOIC ACID \square MDBA \square MEDIBEN \square VELSICOL COMPOUND "R" \square VELSICOL 58-CS-11

TOXICITY DATA with REFERENCE:

mma-sat 53,500 nmol/L MUREAV 136,233,84

dnr-esc 5 mg/disc NTIS** PB80-133226

dnr-bcs 5 mg/disc NTIS** PB80-133226

cyt-mus-unr 500 mg/kg TGANAK 16(1),45,82

orl-rat LD50:1039 mg/kg FAATDF 7,299,86

orl-mus LD50:1190 mg/kg HYSAAV 35(7-9),14,70

orl-rbt LD50:2000 mg/kg HYSAAV 35,14,70

orl-gpg LD50:3000 mg/kg HYSAAV 35,14,70

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- .

MEL525 CAS: 22936-03-4 HR: 2
2-METHOXY-4-(o-(o,o-DIETHYLPHOSPHOROTHIOYL))BENZALDOXIMINO-N-METHYL-CARBAMATE

mf: $C_{14}H_{21}N_2O_6PS$ mw: 376.40

SYNS: PHOSPHOROTHIOIC ACID, o,o-DIETHYL o-(2-METHOXY-4-(((METHYLAMINO)CARBONYL)OXY)IMINO)-METHYL)

PHENYL) ESTER □ PHOSPHOROTHIOIC ACID, o,o-DIETHYL
ESTER, o-ESTER WITH VANILLIN-o-(METHYLCARBAMOYL)-
OXIME □ R 14789 □ STAUFFER R 14789

TOXICITY DATA with REFERENCE:

orl-mus LD :>400 mg/kg USXXAM #3681476

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

MEL550 CAS: 101489-25-2 HR: D
5-METHOXYDIHYDROSTERIGMATOCYSTIN

mf: C₁₉H₁₆O₇ mw: 356.35

SYN: 7H-FURO(3',2':4,5)FURO(2,3-c)XANTHEN-7-ONE,1,2,3a,12c-
TETRAHYDRO-6,11-DIMETHOXY-8-HYDROXY-, (3ar-CIS)-

TOXICITY DATA with REFERENCE:

dns-rat-lvr 10 µmol/L MUREAV 173,217,1986

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

MEL570 CAS: 66240-30-0 HR: 2
**2-METHOXY-7,12-DIMETHYLBENZ(a)-
ANTHRACENE**

mf: C₂₁H₁₈O mw: 286.39

SYN: 2-METHOXY-DMBA

TOXICITY DATA with REFERENCE:

mma-sat 5 µg/plate CRNGDP 4,1221,83

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

MEL580 CAS: 66240-02-6 HR: 2
**3-METHOXY-7,12-DIMETHYLBENZ(a)-
ANTHRACENE**

mf: C₂₁H₁₈O mw: 286.39

SYN: 3-METHOXY-DMBA

TOXICITY DATA with REFERENCE:

mma-sat 2500 ng/plate CRNGDP 4,1221,83

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

MEL600 CAS: 16277-49-9 HR: 2
**4-METHOXY-7,12-DIMETHYLBENZ(a)-
ANTHRACENE**

mf: C₂₁H₁₈O mw: 286.39

SYN: 4-METHOXY-DMBA

TOXICITY DATA with REFERENCE:

mma-sat 5 µg/plate CRNGDP 4,1221,83

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

MEL700 CAS: 53905-38-7 HR: 2
**1-(8-METHOXY-4,8-DIMETHYLNONYL)-4-(1-
METHYLETHYL)BENZENE**

mf: C₂₁H₃₆O mw: 304.57

SYNS: AI3-36206 □ BENZENE, 1-(8-METHOXY-4,8-
DIMETHYLNONYL)-4-(1-METHYLETHYL)- □ MV-678 □ PRO-
DRONE

TOXICITY DATA with REFERENCE:

orl-rat TDLo:2400 mg/kg/3D-I JTEHD6 19,111,86

orl-rat TDLo:17,600 mg/kg/30D-I JTEHD6 19,111,86

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.

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

MEL725 CAS: 524-89-0 HR: D
**9-METHOXY-1,3-DIOXOLO(4,5-G)FURO(2,3-
B)QUINOLINE**

mf: C₁₃H₉NO₄ mw: 243.23

SYNS: 1,3-DIOXOLO(4,5-G)FURO(2,3-B)QUINOLINE, 9-
METHOXY- □ MACULIN □ MACULINE

TOXICITY DATA with REFERENCE:

mno-sat 5 µg/plate MUREAV 227,179,89

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

MEL775 CAS: 10371-86-5 HR: 3
METHOXYELLIPTICINE

mf: C₁₈H₁₆N₂O mw: 276.36

PROP: A solid. Mp: 286–287° (decomp).

SYNS: ICIG 772 □ 9-METHOXY-5,11-DIMETHYL-6H-PYRIDO-
(4,3-b)CARBAZOLE □ 9-METHOXY-ELLIPTICINE □ 9-
METHOXYELLIPTICIN □ 9-METHOXYELLIPTICINE □
METHOXYELLIPTICINE □ NSC-69187

TOXICITY DATA with REFERENCE:

mno-sat 500 ng/plate CNREA8 43,3544,83

mma-sat 500 ng/plate CNREA8 43,3544,83

msc-ham:ovr 100 µg/L CNREA8 43,3544,83

ipr-mus LD50:150 mg/kg BIMDB3 21,101,74

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

MEL780 CAS: 26691-08-7 HR: 3
9-METHOXYELLIPTICINE LACTATE

mf: C₁₈H₁₆N₂O•C₃H₆O₃ mw: 366.45

SYNS: 5,11-DIMETHYL-9-METHOXY-6H-PYRIDO(4,3-
B)CARBAZOLE LACTATE □ ICI 180 □ ICIG 180 □ LACTIC
ACID, COMPD. WITH 9-METHOXY-5,11-DIMETHYL-6H-
PYRIDO(4,3-B)CARBAZOLE (1:1) □ METHOXY-9-ELLIPTICINE
LACTATE □ 6H-PYRIDO(4,3-B)CARBAZOLE, 5,11-DIMETHYL-9-
METHOXY-, LACTATE □ PROPANOIC ACID, 2-HYDROXY-,
COMPD. WITH 9-METHOXY-5,11-DIMETHYL-6H-PYRIDO(4,3-
B)CARBAZOLE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg BIMDB3 21,101,1974

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

MEL785 CAS: 362-07-2 HR: D
2-METHOXYESTRADIOL

mf: C₁₉H₂₆O₃ mw: 302.45

SYNS: ESTRADIOL, 2-METHOXY- □ ESTRA-1,3,5(10)-TRIENE-
3,17-DIOL, 2-METHOXY-, (17β)- □ 2-HYDROXYESTRADIOL, 2-

METHYL ETHER □ 2-METHOXYESTRA-1,3,5(10)-TRIENE-3,17-β-DIOL □ ESTRA-1,3,5(10)-TRIENE-3,17-β-DIOL, 2-METHOXY-

TOXICITY DATA with REFERENCE:

mnt-ham-emb 300 µg/ CRNGDP 21,735,2000
 mor-ham-emb 100 µg/ CRNGDP 21,735,2000
 cyt-ham-emb 300 µg/ CRNGDP 21,735,2000
 sln-ham-emb 300 µg/ CRNGDP 21,735,2000
 msc-ham-emb 100 µg/ CRNGDP 21,735,2000
 mor-ham-emb 0.1 mg/L/48H CRNGDP 21,735,2000
 cyt-ham-emb 0.3 mg/L/24H CRNGDP 21,735,2000

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

MEL790 CAS: 102612-69-1 HR: 3
2-METHOXYETHOXY ACRYLATE

mf: C₆H₁₀O₄ mw: 146.16

SYNS: ACRYLIC ACID, 2-METHOXYETHOXY ESTER □ PEROXYACRYLIC ACID, 2-METHOXYETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:810 µL/kg AIHAAP 30,470,69
 ihl-rat LCLo:500 ppm/4H AIHAAP 30,470,69
 skn-rbt LD50:250 µL/kg AIHAAP 30,470,69

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

MEL800 CAS: 73507-40-1 HR: 2
α-((2-METHOXYETHOXY)METHYL)-ω-HYDROXYPOLY(OXY-1,2-ETHANEDIYL)COCO ALKYL ETHERS

SYNS: GENONOL GEV □ POLY(OXY-1,2-ETHANEDIYL), α-((2-METHOXYETHOXY)METHYL)-ω-HYDROXY-, COCO ALKYL ETHERS

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL SEV NTIS** OTS0536932

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

MEM250 CAS: 3121-61-7 HR: 3
METHOXYETHYL ACRYLATE

mf: C₆H₁₀O₄ mw: 146.16

PROP: Liquid. Bp: 61° @ 17 mm, flash p: 180°F (OC), d: 1.0134 @ 20°, vap d: 4.49.

SYNS: ACRYLIC ACID, 2-METHOXYETHYL ESTER □ ETHYLENE GLYCOL MONOMETHYL ETHER ACRYLATE □ GLYCOL MONOMETHYL ETHER ACRYLATE □ 2-METHOXYETHANOL, ACRYLATE □ 2-METHOXYETHYL ACRYLATE □ METHYL CELLOSOLVE ACRYLATE □ 2-PROPENOIC ACID, 2-METHOXYETHYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 9/17/69
 orl-rat LD50:810 mg/kg AIHAAP 30,470,69
 ihl-rat LCLo:500 ppm/4H AIHAAP 30,470,69
 skn-rbt LD50:250 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by skin contact. Moderately toxic by ingestion and inhalation. Experimental reproductive effects. A skin irritant. Flammable when exposed to heat, flame, or sparks. To

fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

MEM500 CAS: 109-85-3 HR: 3
2-METHOXYETHYLAMINE

mf: C₃H₉NO mw: 75.13

PROP: A liquid. Bp: 95° @ 756 mm. Misc in H₂O, EtOH.

TOXICITY DATA with REFERENCE:

ipr-mus LD50:400 mg/kg NTIS** AD691-490

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 AMINES.

MEM750 CAS: 67262-60-6 HR: 3
2-(2-METHOXYETHYLAMINO)PROPIONANILIDE

mf: C₁₂H₁₈N₂O₂ mw: 222.32

TOXICITY DATA with REFERENCE:

ipr-mus LD50:275 mg/kg JPMSAE 67,595,78
 ivn-mus LD50:70 mg/kg JPMSAE 67,595,78

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

MEN000 CAS: 67262-61-7 HR: 3
2-(2-METHOXYETHYLAMINO)-o-PROPIONO-TOLUIDIDE

mf: C₁₃H₂₀N₂O₂ mw: 236.35

SYN: 2-(2-METHOXYETHYLAMINO)-2'-METHYL-PROPIONANILIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:275 mg/kg JPMSAE 67,595,78
 ivn-mus LD50:50 mg/kg JPMSAE 67,595,78

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

MEN250 CAS: 67262-80-0 HR: 3
2-(2-METHOXYETHYLAMINO)-2',6'-PROPIONOXYLIDIDE

mf: C₁₄H₂₂N₂O₂ mw: 250.38

SYN: 2',6'-DIMETHYL-2-(2-METHOXYETHYLAMINO)-PROPIONANILIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:100 mg/kg JPMSAE 67,595,78
 ivn-mus LD50:22 mg/kg JPMSAE 67,595,78

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

MEN500 CAS: 67262-82-2 HR: 3
2-(2-METHOXYETHYLAMINO)-2',6'-PROPIONOXYLIDIDE PERCHLORATE

mf: C₁₅H₂₄N₂O₂•ClHO₄ mw: 364.87

SYN: 2',6'-DIMETHYL-2-(2-METHOXYETHYLAMINO)-PROPIONANILIDE PERCHLORATE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:130 mg/kg JPMSAE 67,595,78

ivn-mus LD50:25 mg/kg JPMSAE 67,595,78

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and Cl⁻. See also PERCHLORATES.

MEN750 CAS: 63020-60-0 HR: 2
3-METHOXY-10-ETHYL-1,2-BENZANTHRACENE

mf: C₂₁H₈O mw: 276.29

SYN: 7-ETHYL-5-METHOXY-BENZ(a)ANTHRACENE

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

MEN775 CAS: 27807-62-1 HR: 3
2-METHOXYETHYL-BIS(2-CHLOROETHYL)-AMINE HYDROCHLORIDE

mf: C₇H₁₅Cl₂NO•ClH mw: 236.59

SYNS: BIS (β-CHLOROETHYL)-α-METHOXYETHYLAMINE HYDROCHLORIDE □ TL 783

TOXICITY DATA with REFERENCE:

ipr-rat LD50:300 µg/kg CPBTAL 8,99,60

ipr-mus LD50:2410 µg/kg CANCAR 2,1055,49

scu-mus LD50:3 mg/kg NTIS** PB158-507

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

MEO000 CAS: 1616-88-2 HR: 2
METHOXYETHYL CARBAMATE

mf: C₄H₉NO₃ mw: 119.24

SYNS: 2-METHOXYETHYL ESTER CARBAMIC ACID □ N-METHOXYURETHANE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 5/19/66

orl-rat LD50:11 g/kg UCDS** 5/19/66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

MEO500 CAS: 61738-03-2 HR: 2
1-METHOXY ETHYL ETHYLNITROSAMINE

mf: C₅H₁₂N₂O₂ mw: 132.19

SYN: 1-METHOXY-AETHYL-AETHYLNITROSAMINE (GERMAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1000 mg/kg ZKKOBW 88,25,76

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

MEO750 CAS: 151-38-2 HR: 3
METHOXYETHYL MERCURIC ACETATE

mf: C₅H₁₀HgO₃ mw: 318.74

PROP: Crystals or needles from pet ether. Mp: 42°.

Water-sol. IDLH 10 mg/m³ (as Hg).

SYNS: ACETATO(2-METHOXYETHYL)MERCURY □ CEKUSIL UNIVERSAL A □ LANDISAN □ MEMA □ MERCURAN □

MERCURY, ACETOXY(2-METHOXYETHYL)- □

METHOXYETHYL MERCURIC ACETATE □

METHOXYETHYLMERCURY ACETATE □ 2-

METHOXYETHYLMERKURIACETAT □ PANOGEN □

PANOGEN M □ PANOGEN METOX □ RADOSAN

TOXICITY DATA with REFERENCE:

cyt-dmg-orl 15,900 µg/L HEREAY 74,89,73

orl-rat LD50:25 mg/kg OCHRAI 15,5,63

orl-mus LD50:45 mg/kg ESKGA2 18,248,72

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.; STEL 0.03 mg(Hg)/m³

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 ingestion. Mutation data reported. A fungicide. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

MEP000 CAS: 19367-79-4 HR: 3
METHOXYETHYL MERCURIC SILICATE

mf: C₆H₁₄Hg₂O₅Si mw: 595.47

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: CRESAN UNIVERSAL TROCKENBEIZE □ METHOXYAETHYLQUECKSILBERSILIKAT (GERMAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1140 mg/kg GUHAZ 6,340,73

ipr-mus LD50:50 mg/kg OCHRAI 15,5,63

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

MEP250 CAS: 123-88-6 HR: 3
2-METHOXYETHYLMERCURY CHLORIDE

mf: C₃H₇ClHgO mw: 295.14

PROP: Crystals or powder from ligroin. Mp: 68–68.5°. Sol in Me₂CO, EtOH; mod sol in H₂O. IDLH 10 mg/m³ (as Hg).

SYNS: AGALLO FORTE □ AGALLOL □ AGALLOLAT □ AGALOL □ ARATAN □ ARETAN □ ARETAN 6 □ ATIRAN □ BAGALOL □ BAYTAN □ CEKUSIL UNIVERSAL C □ CELMER □ CERESAN-UNIVERSAL NASSBEIZE □ CERESAN UNIVERSAL NAZBEIZE □ CHLORO(2-METHOXYETHYL)MERCURY □ CURESAN □ CURETAN □ EMISAN 6 □ FALISAN □ GRAMISAN

□ HIGOSAN □ MEMC □ MERCHLORATE □ METHOXY-AETHYLQUECKSILBERCHLORID □ (β-METHOXYETHYL)-MERCURIC CHLORIDE □ METHOXYETHYL MERCURIC CHLORIDE □ 2-METHOXYETHYLMERCURIC CHLORIDE □ METHOXYETHYLMERCURY CHLORIDE □ β-METHOXY-ETHYLMERCURY CHLORIDE □ 2-METHOXYETHYL-MERKURICHLORID □ SEDRESAN □ TAFASAN □ TAFASAN 6W □ TAYSSATO □ TRIADIMENOL

TOXICITY DATA with REFERENCE:

spm-mus-ipr 13 mg/kg BIZNAT 97,173,78
msc-ham:lng 100 ppb HEREAY 90,103,79
orl-wmn TDLo:114 mg/kg JTCTDW 19,391,82
orl-wmn TDLo:114 mg/kg;BAH,GIT JTCTDW 19,391,82
orl-rat LD50:22 mg/kg FMCHA2 -,D192,80
orl-mus LD50:47 mg/kg 85JCAE -,1200,86
scu-mus LD50:88 mg/kg KUMJAX 14,65,61

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

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 ingestion and subcutaneous routes. Experimental reproductive effects. Human mutation data reported. Used to control pineapple disease of sugarcane. When heated to decomposition it emits very toxic fumes of Hg and Cl⁻. See also MERCURY COMPOUNDS and CHLORIDES.

MEP500 CAS: 61738-05-4 HR: 3
1-METHOXY ETHYL METHYLNITROSAMINE

mf: C₄H₁₀N₂O₂ mw: 118.16

SYN: 1-METHOXY-AETHYL-METHYLNITROSAMIN (GERMAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:240 mg/kg ZKKOBW 88,25,76

SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

MEP600 CAS: 39562-22-6 HR: 1
2-METHOXYETHYL 2-(m-NITROBENZYLIDENE)-ACETOACETATE

mf: C₁₄H₁₅NO₆ mw: 293.30

SYNS: BUTENOIC ACID, 2-((3-NITROPHENYL)METHYLENE)-3-OXO-, 2-METHOXYETHYL ESTER □ 2-METHOXYETHYL 2-((3-NITROPHENYL)METHYLENE)ACETOACETATE

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL/24H MOD IJTOFN 19,332,2000

orl-rat LD50:5 g/kg IJTOFN 19,332,2000

ihl-rat LC50:>1401 mg/m³/4H IJTOFN 19,332,2000

SAFETY PROFILE: Low toxicity by ingestion and inhalation. A moderate eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

MEP750 CAS: 111-10-4 HR: 1
METHOXYETHYL OLEATE

mf: C₂₁H₄₀O₃ mw: 340.61

PROP: Light-colored liquid. Mp: -20°, bp: 188-225° @ 4 mm, flash p: 386°F, d: 0.902 @ 20°/20°, vap press: 0.04 mm @ 150°, vap d: 11.8.

SYNS: ETHANOL, 2-METHOXY-, OLEATE □ ETHYLENE GLYCOL MONOMETHYL ETHER OLEATE □ KAPSOLAT □ METHOXYETHYL OLEATE □ METHYL CELLOSOLVEAT OLEATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:11,210 mg/kg JIDHAN 23,259,41

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Very mildly toxic by ingestion. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

MEQ000 CAS: 16501-01-2 HR: 3
METHOXYETHYL PHTHALATE

mf: C₁₁H₁₂O₅ mw: 224.23

PROP: Liquid. Bp: 190-220°, flash p: 275°F (CC), d: 1.17, vap d: 9.75.

SYN: USAF KE-3

TOXICITY DATA with REFERENCE:

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

MEQ100 CAS: 161050-58-4 HR: 1
METHOXYFENOZIDE

mf: C₂₂H₂₈N₂O₃ mw: 368.48

SYN: BENZOIC ACID, 3-METHOXY-2-METHYL-, 2-(3,5-DIMETHYLBENZOYL)-2-(1,1-DIMETHYLETHYL)HYDRAZIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:5000 mg/kg FEREAC 66,15449,2001

orl-rat LD50:5000 mg/kg FEREAC 66,15449,2001

ihl-rat LC50:4.3 g/m³ FEREAC 66,15449,2001

skn-rat LD50:2000 mg/kg FEREAC 66,15455,2001

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

MEQ750 CAS: 6893-24-9 HR: 2
1-METHOXY-2-FLUORENAMINE HYDRO-CHLORIDE

mf: C₁₄H₁₃NO•ClH mw: 247.74

SYN: 1-METHOXYFLUOREN-2-AMINE HYDROCHLORIDE

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

MER000 CAS: 6893-20-5 HR: 2
N-(1-METHOXYFLUOREN-2-YL)ACETAMIDEmf: C₁₆H₁₅NO₂ mw: 253.32**SYNS:** 1-METHOXY-2-ACETAMIDOFUORENE □ 1-METHOXY-2-FAA □ N-(1-METHOXY-2-FLUORENYL)ACETAMIDE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.**MER250 CAS: 16690-44-1 HR: 2**
N-(7-METHOXY-2-FLUORENYL)ACETAMIDEmf: C₁₆H₁₅NO₂ mw: 253.32**SYNS:** 7-METHOXY-2-FAA □ N-(7-METHOXYFLUOREN-2-YL)ACETAMIDE □ 7-METHOXY-N-2-FLUORENYLACETAMIDE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.**MES000 CAS: 131-57-7 HR: 3**
4-METHOXY-2-HYDROXYBENZOPHENONEmf: C₁₄H₁₂O₃ mw: 228.26**PROP:** Crystals from 2-propanol. Mp: 66°.**SYNS:** BENZOPHENONE-3 □ CYASORB UV 9 □ 2-HYDROXY-4-METHOXYBENZOPHENONE □ (2-HYDROXY-4-METHOXY-PHENYL)PHENYLMETHANONE □ MOB □ NCI-C60957 □ NSC-7778 □ OXYBENZONE □ SPECTRA-SORB UV 9 □ SYNTASE 62 □ USAF CY-9 □ UVINUL M 40**TOXICITY DATA with REFERENCE:**

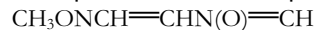
mma-sat 100 µg/plate ENMUDM 9(Suppl 9),1,87

orl-rat LD50:7400 mg/kg JACTDZ 2(5),35,83

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. Mildly toxic by ingestion. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MES250 CAS: 67465-44-5 HR: 3**
N-(2-METHOXY-3-HYDROXYMERCURY-PROPYL)BARBITALmf: C₁₂H₂₀HgN₃O₅ mw: 472.93**PROP:** IDLH 10 mg/m³ (as Hg).**SYN:** HYDROXY(3-(5,5-DIETHYL-2,4,6-TRIOXO-(1H,3H,5H)-PYRIMIDINO)-2-METHOXYPROPYL)MERCURY**TOXICITY DATA with REFERENCE:**

ivn-rat LDLo:23,200 µg/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)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.**MES300 CAS: 114-10-1 HR: 3**
1-METHOXY IMIDAZOLE-N-OXIDEmf: C₄H₆N₂O₂ mw: 114.10**SAFETY PROFILE:** Exothermic decomposition above 140°C may become explosive. When heated to decomposition it emits toxic fumes of NO_x.**MES500 CAS: 655-70-1 HR: 1**
3-METHOXY-5,4'-IMINOBIS(1-BENZAMIDO-ANTHRAQUINONE)mf: C₄₃H₂₇O₇ mw: 655.70**SYN:** 5,4'-BIS-BENZOYLAMINO-8-METHOXY-1,1'-DIANTHRIMID (CZECH)**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD 28ZPAK -,114,72

eye-rbt 100 mg/24H MOD 28ZPAK -,114,72

orl-rat LD50:9120 mg/kg 28ZPAK -,114,72

SAFETY PROFILE: Mildly toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**MES550 CAS: 90293-50-8 HR: 3**
9-(1-(METHOXYIMINO)ETHYL)-6-OXO-N,N,2,2,5-PENTAMETHYL-7-OXA-3,4-DITHIA-5,8-DIAZADDEC-8-EN-10-AMIDEmf: C₁₃H₂₄N₄O₄S₂ mw: 364.53**TOXICITY DATA with REFERENCE:**

orl-rat LD50:20 mg/kg USXXAM #4657904

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**MES850 CAS: 3471-31-6 HR: 3**
5-METHOXYINDOLEACETIC ACIDmf: C₁₁H₁₁NO₃ mw: 205.23**PROP:** A solid. Mp: 150°.**SYNS:** METHOXYINDOLEACETIC ACID □ 5-METHOXYINDOLE-3-ACETIC ACID**TOXICITY DATA with REFERENCE:**

scu-mus TDLo:2 g/kg (10-21D post):NEO,TER BEBMAE 101,605,86

ipr-mus LD50:98 mg/kg JTEHD6 1,515,76

SAFETY PROFILE: Poison by intraperitoneal route. An experimental teratogen. Questionable carcinogen with experimental neoplastigenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**MES870 CAS: 190650-04-5 HR: 1**
N-(2-(5-METHOXY-4-INDOLYL)ETHYL)-ACETAMIDEmf: C₁₃H₁₆N₂O₂ mw: 232.28**SYN:** ACETAMIDE, N-(2-(5-METHOXY-1H-INDOL-4-YL)ETHYL)-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>2000 mg/kg USXXAM #5708020

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**MES900 CAS: 63845-31-8 HR: 3**

5-METHOXY-1H-INDOL-3-YL 4-PIPERIDYL-METHYL KETONE MONOHYDROCHLORIDEmf: $C_{16}H_{20}N_2O_2 \cdot ClH$ mw: 308.84**SYNS:** ETHANONE, 1-(5-METHOXY-1H-INDOL-3-YL)-2-(4-PIPERIDINYL)-, MONOHYDROCHLORIDE (9CI) □ (5-METHOXY-3-INDOLYL)-(4-PIPERIDYL-METHYL)-KETON HYDROCHLORID**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:44 mg/kg

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 HCl.**MES930 CAS: 64046-67-9 HR: 3
1-METHOXYISOPROPYL BROMOACETATE**mf: $C_6H_{11}BrO_3$ mw: 211.08**SYN:** ACETIC ACID, BROMO-, 1-METHOXYISOPROPYL ESTER**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:31,300 µg/kg CBCCT* 9,127,1957

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of Br^- .**MES940 CAS: 64046-46-4 HR: 2
1-METHOXYISOPROPYL CHLOROACETATE**mf: $C_6H_{11}ClO_3$ mw: 166.62**SYN:** ACETIC ACID, CHLORO-, 1-METHOXYISOPROPYL ESTER**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:500 mg/kg CBCCT* 9,127,1957

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of Cl^- .**MES980 CAS: 4861-79-4 HR: D
METHOXYMAGNESIUM-METHYLCARBONATE**mf: $C_3H_6MgO_4$ mw: 130.38**SYN:** MAGNESIUM, METHOXY-, MONOMETHYL CARBONATE**TOXICITY DATA with REFERENCE:**

mnt-hmn-lym 0.5 mol/L/24H MUREAV 515,99,2002

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of Mg.**MET000 CAS: 4484-61-1 HR: 1
2-(METHOXYMETHOXY)ETHANOL**mf: $C_4H_{10}O_3$ mw: 106.14**SYN:** (2-HYDROXYETHOXY)METHOXYMETHANE**TOXICITY DATA with REFERENCE:**

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

eye-rbt 500 mg open AMIHBC 10,61,54

orl-rat LD50:6500 mg/kg AMIHBC 10,61,54

skn-rbt LD50:4230 mg/kg AMIHBC 10,61,54

SAFETY PROFILE: Mildly toxic by ingestion and skin contact. A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**MET100 CAS: 10024-90-5 HR: 3
4-METHOXY-3-METHYLACETOPHENONE**mf: $C_{10}H_{12}O_2$ mw: 164.22**SYN:** ACETOPHENONE, 4'-METHOXY-3'-METHYL-**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1500 µL/kg JPETAB 93,26,48

orl-mus LD50:3600 µL/kg JPETAB 93,26,48

skn-mus LD50:6 mL/kg JPETAB 93,26,48

SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.**MET875 CAS: 83876-56-6 HR: 2
3-METHOXY-7-METHYLBENZ(c)ACRIDINE**mf: $C_{19}H_{15}NO$ mw: 273.35**SYN:** BENZ(c)ACRIDINE, 3-METHOXY-7-METHYL-**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x .**MEU000 CAS: 966-48-3 HR: 2
3-METHOXY-10-METHYL-1,2-BENZ-ANTHRACENE**mf: $C_{20}H_{16}O$ mw: 272.36**SYN:** 5-METHOXY-7-METHYL-BENZ(a)ANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**MEU250 CAS: 63020-61-1 HR: 2
5-METHOXY-10-METHYL-1,2-BENZ-ANTHRACENE**mf: $C_{20}H_{16}O$ mw: 272.36**SYN:** 8-METHOXY-7-METHYL-BENZ(a)ANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**MEU500 CAS: 16354-47-5 HR: 2
7-METHOXY-12-METHYLBENZ(a)ANTHRACENE**mf: $C_{20}H_{16}O$ mw: 272.36**SAFETY PROFILE:** Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**MEU275 CAS: 57543-75-6 HR: 2
6-METHOXY-2-METHYL-2H-1-BENZOPYRAN-3-CARBONITRILE**mf: $C_{12}H_{11}NO_2$ mw: 201.24**SYN:** 2H-1-BENZOPYRAN-3-CARBONITRILE, 6-METHOXY-2-METHYL-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:1500 mg/kg EJMCA5 11,81,1976

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x .**MEU300 CAS: 37514-30-0 HR: 1
1-METHOXY-1-METHYLCYCLODODECANE**mf: $C_{14}H_{28}O$ mw: 212.42**PROP:** Cosmetic fragrance.**SYNS:** CYCLODODECANE, 1-METHOXY-1-METHYL- □ MADROX □ 1-METHYLCYCLODODECYL METHYL ETHER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FCTOD7 30,81S,92

skn-rbt LDLo:5 g/kg FCTOD7 30,81S,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.

MEU400 CAS: 143984-56-9 HR: D
6-(4-METHOXY-3-(1-METHYLCYCLOHEXYL)-
PHENYL)-2-NAPHTHALENECARBOXYLIC
ACID

mf: C₂₅H₂₆O₃ mw: 374.51

SYNS: CD 2019 □ 2-NAPHTHALENECARBOXYLIC ACID, 6-(4-METHOXY-3-(1-METHYLCYCLOHEXYL)PHENYL)-

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

MEU750 CAS: 5831-08-3 HR: 2
3-METHOXY-17-METHYL-15H-CYCLOPENT-
APHENANTHRENE

mf: C₁₉H₁₆O mw: 260.35

SYN: 3-METHOXY-17-METHYL 15H-CYCLOPENTA(a)PHENANTHRENE

TOXICITY DATA with REFERENCE:

mma-sat 50 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MEV000 CAS: 5831-12-9 HR: 2
11-METHOXY-17-METHYL-15H-CYCLOPENTA-
(a)PHENANTHRENE

mf: C₁₉H₁₆O mw: 260.35

TOXICITY DATA with REFERENCE:

mma-sat 50 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MEV250 CAS: 24684-49-9 HR: 2
6-METHOXY-11-METHYL-15,16-DIHYDRO-17H-
CYCLOPENTA(a) PHENANTHREN-17-ONE

mf: C₁₉H₁₆O₂ mw: 276.35

SYN: 15,16-DIHYDRO-11-METHYL-6-METHOXY-17H-CYCLOPENTA(a)PHENANTHREN-17-ONE

TOXICITY DATA with REFERENCE:

mma-sat 50 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MEV500 CAS: 25498-49-1 HR: 2

(2-(2-METHOXY METHYL ETHOXY)METHYL
ETHOXY)PROPANOL

mf: C₁₀H₂₂O₄ mw: 206.32

SYN: DOWANOL TPM

TOXICITY DATA with REFERENCE:

orl-rat LD50:3300 mg/kg NPIRI* 1,120,74

skn-rbt LDLo:14,505 mg/kg AMIHBC 9,509,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition, it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

MEV600 CAS: 3853-74-5 HR: 3
2-(((METHOXY(1-METHYLETHOXY)PHOS-
PHINOTHIOYL)THIO)METHYL)THIO)ETHYL-
ETHYLCARBAMATE

mf: C₁₀H₂₂NO₄PS₃ mw: 347.48

SYNS: CARBAMIC ACID, ETHYL-, 6-METHOXY-8-METHYL-7-OXA-3,5-DITHIA-6-PHOSPHANON-1-YL ESTER, p-SULFIDE □ CARBAMIC ACID, ETHYL-, 6-METHOXY-8-METHYL-6-SULFIDO-7-OXA-3,5-DITHIA-6-PHOSPHANON-1-YL ESTER □ CARBAMIC ACID, ETHYL-, 2-((MERCAPTOMETHYL)THIO)-ETHYL) ESTER, S-ESTER WITH o-ISOPROPYL o-METHYL PHOSPHORODITHIOATE □ ENT 27,179 □ R 6790 □ STAUFFER R-6790

TOXICITY DATA with REFERENCE:

orl-rat LD50:8500 µg/kg ARSIM* 20,23,1966

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

MEV750 CAS: 61738-04-3 HR: 2
METHOXYMETHYL ETHYL NITROSAMINE

mf: C₄H₁₀N₂O₂ mw: 118.16

SYN: METHOXYMETHYL-AETHYLNITROSAMINE (GERMAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:540 mg/kg ZKKOBW 88,25,76

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

MEV800 CAS: 113698-22-9 HR: D
3-METHOXY-6-METHYLINDOLO(3,2-C)QUINOL-
INE-1,4-DIONE

mf: C₁₇H₁₂N₂O₃ mw: 292.31

SYNS: GH9 □ 1H-INDOLO(3,2-C)QUINOLINE-1,4(11H)-DIONE, 3-METHOXY-6-METHYL- □ 3-METHOXY-6-METHYL-1H-INDOLO(3,2-C)QUINOLINE-1,4(11H)-DIONE

TOXICITY DATA with REFERENCE:

mic-bac-sat 310 ng/plate MUREAV 280,225,92

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

MEW000 CAS: 13345-60-3 HR: 2
7-METHOXYMETHYL-12-METHYLBENZ(a)-
ANTHRACENE

mf: C₂₁H₁₈O mw: 286.39

SYN: 9-METHYL-10-METHOXYMETHYL-1,2-BENZ-ANTHRACENE

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

MEW250 CAS: 39885-14-8 HR: 2
METHOXYMETHYL METHYLNITROSAMINE

mf: $C_3H_8N_2O_2$ mw: 104.13

SYNS: METHOXYMETHYL-METHYLNITROSAMIN (GERMAN)

□ METHYL(METHOXYMETHYL)NITROSAMINE □ N-NITROSO-N-METHOXYMETHYLMETHYLAMINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:700 mg/kg ZKKOBW 88,25,76

ipr-rat LD50:895 mg/kg PAACA3 16,32,75

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x . See also NITROSAMINES.

MEW500 CAS: 50308-89-9 HR: 3
8-METHOXY-1-METHYL-4-((p-((1-METHYL-PYRIDINIUM-4-YL)AMINO)-PHENYL)CARBAMOYL)ANILINO)QUINOLINIUM), DIBROMIDE

mf: $C_{30}H_{29}N_5O_2 \cdot 2Br$ mw: 651.46

TOXICITY DATA with REFERENCE:

dnd-mus:lym 760 nmol/L JMCMAR 22,134,79

ipr-mus LD10:6 mg/kg JMCMAR 22,134,79

SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits very toxic fumes of Br and NO_x . See also BROMIDES.

MEW750 CAS: 50308-88-8 HR: 3
6-METHOXY-1-METHYL-4-((p-((1-METHYL-PYRIDINIUM-4-YL)AMINO)PHENYL)CARBOMOL)ANILINO)QUINOLINIUM), DI-p-TOLUENE SULFONATE

mf: $C_{30}H_{29}N_5O_2 \cdot 2C_7H_7O_3S$ mw: 834.04

TOXICITY DATA with REFERENCE:

dnd-mus:lym 680 nmol/L JMCMAR 22,134,79

ipr-mus LD10:50 mg/kg JMCMAR 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 . See also SULFONATES.

MEW760 CAS: 3271-05-4 HR: 1
4-METHOXY-N-METHYLNAPHTHALIMIDE

mf: $C_{14}H_{11}NO_3$ mw: 241.26

PROP: Optical brightner.

SYNS: N-METHYL-4-METHOXYNAPHTHALIMIDE □ NAPHTHALIMIDE, 4-METHOXY-N-METHYL-

TOXICITY DATA with REFERENCE:

bfa-rat:sat 12600 mg/kg/7D-C AECTCV 16,119,87

orl-rat LDLo:15 g/kg ESKHA5 (101),152,83

ipr-mus LD50:7700 mg/kg OKEHDW 20,95,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .

MEW775 CAS: 86539-71-1 HR: 2
7-METHOXY-1-METHYL-2-NITRONAPHTHO(2,1-b)FURAN

mf: $C_{14}H_{11}NO_4$ mw: 257.26

SYN: R 7372

TOXICITY DATA with REFERENCE:

mno-sat 1 nmol/plate MUTAEX 1,217,86

oth-esc 1 nmol/tube MUTAEX 1,217,86

msc-ham:ovr 1 μ mol/L MUTAEX 1,217,86

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

MEW800 CAS: 73815-11-9 HR: 2
3-((4-(5-(METHOXYMETHYL)-2-OXO-3-OXAZO-IDINYL)PHENOXY)METHYL)-BENZONITRILE

mf: $C_{19}H_{18}N_2O_4$ mw: 338.39

SYN: MD 780515

TOXICITY DATA with REFERENCE:

ipr-rat LD50:3000 mg/kg AIPTAK 259,194,82

orl-mus LDLo:3000 mg/kg AIPTAK 259,194,82

ipr-mus LD50:3000 mg/kg AIPTAK 259,194,82

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

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

MEX250 CAS: 107-70-0 HR: 3
4-METHOXY-4-METHYL-2-PENTANONE
DOT: UN 2293

mf: $C_7H_{14}O_2$ mw: 130.21

PROP: Colorless liquid. Bp: 147–163°. Sol in water. Flash pt: 60° F.

SYN: 4-METHOXY-4-METHYLPENTAN-2-ONE (DOT)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD SCCUR* -,6,61

orl-rat LDLo:3000 mg/kg SCCUR* -,6,61

orl-mus LD50:2050 mg/kg SCCUR* -,6,61

ihl-mus LCLo:2280 ppm/15H SCCUR* -,6,61

skn-rbt LDLo:3 g/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, can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.

MEX260 CAS: 156482-84-7 HR: 2
N-(2-(2-METHOXY-5-METHYLPHENYL)ETHYL)-ROPIONAMIDE

mf: $C_{13}H_{19}NO_2$ mw: 221.30

SYN: PROPANAMIDE, N-(2-(2-METHOXY-5-METHYLPHENYL)-THYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:>2000 mg/kg USXXAM #5708020

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

MEX265 CAS: 156482-85-8 HR: 1
N-(2-(2-METHOXY-5-METHYLPHENYL)ETHYL)-TRIFLUOROACETAMIDE

mf: C₁₂H₁₄F₃NO₂ mw: 261.24

SYN: ACETAMIDE, 2,2,2-TRIFLUORO-N-(2-(2-METHOXY-5-METHYLPHENYL)ETHYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:>2000 mg/kg USXXAM #5708020

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

MEX275 CAS: 91480-98-7 HR: 3
1-(4-METHOXY-2-METHYL-5-PHENYL-1H-PYRROL-3-YL)ETHANONE

mf: C₁₄H₁₅NO₂ mw: 229.30

SYNS: ETHANONE, 1-(4-METHOXY-2-METHYL-5-PHENYL-1H-PYRROL-3-YL)- □ KETONE, (4-METHOXY-2-METHYL-5-PHENYLPYRROL-3-YL) METHYL

TOXICITY DATA with REFERENCE:

orl-mus LD50:1 g/kg FRPSAX 39,538,84

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

MEX285 CAS: 16299-13-1 HR: D
9-METHOXY-9-((4-METHYL-1-PIPERZINYL)-ETHYL)ACRIDAN

mf: C₂₀H₂₅N₃O mw: 323.48

SYNS: ACRIDAN, 9-METHOXY-9-((4-METHYL-1-PIPERAZINYL)METHYL)- □ CYCLODIOL

TOXICITY DATA with REFERENCE:

cyt-hmn-lym 10 mg/L MUREAV 389,173,1997

sce-hmn-lym 10 mg/L MUREAV 389,173,1997

mnt-ipr-mus 1 mg/kg MUREAV 389,173,1997

sce-ipr-mus 1 mg/kg MUREAV 389,173,1997

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

MEX300 CAS: 3644-11-9 HR: 3
N-(METHOXYMETHYL)-2-PROPENAMIDE

mf: C₅H₉NO₂ mw: 115.15

PROP: Plastic additive.

SYNS: ACRYLAMIDE, N-(METHOXYMETHYL)- □ METHOXYMETHYLACRYLAMIDE □ N-(METHOXYMETHYL)ACRYLAMIDE □ 2-PROPENAMIDE, N-(METHOXYMETHYL)-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/kg MOD JACTDZ 1,41,90

orl-rat LD50:192 mg/kg JACTDZ 1,41,90

skn-rbt LD50:312 mg/kg JACTDZ 1,41,90

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

MEX350 HR: 3

2-METHOXY-3(5)-METHYLPYRAZINE

mf: C₆H₈N₂O mw: 124.14

PROP: Colorless liquid; roasted-hazelnut odor. D: 1.000–1.090 @ 20°, refr index: 1.506, flash p: 131°F. Sol in water, org solvs.

SYN: FEMA No. 3183

SAFETY PROFILE: Flammable liquid when exposed to heat, sparks, or flame. When heated to decomposition it emits toxic fumes of NO_x.

MEX400 CAS: 126983-61-7 HR: D
3-METHOXY-6-METHYL-11H-PYRIDO(3',4':4,5)-YRROLO(3,2-C)QUINOLINE-1,4-DIONE

mf: C₁₆H₁₁N₃O₃ mw: 293.30

SYNS: GH34 □ 3-METHOXY-6-METHYL-1H-PYRIDO(3',4':4,5)-YRROLO(3,2-C)QUINOLINE-1,4(11H)-DIONE □ 1H-PYRIDO-3',4':4,5PYRROLO(3,2-C)QUINOLINE-1,4(11H)-DIONE, 3-METHOXY-6-METHYL-

TOXICITY DATA with REFERENCE:

mic-bac-sat 250 ng/plate MUREAV 311,149,94

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

MEY000 CAS: 3131-27-9 HR: 3
4-METHOXYMETHYLPYRIDOXINE HYDROCHLORIDE

mf: C₉H₁₃NO₃•ClH mw: 219.69

SYNS: 4-METHOXYMETHYL-5-HYDROXY-6-METHYL-3-PYRIDINEMETHANOL HYDROCHLORIDE □ 4-METHOXYMETHYLPYRIDOXOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2150 mg/kg ARZNAD 11,922,61

scu-rat LD50:705 mg/kg ARZNAD 11,922,61

ivn-rat LD50:420 mg/kg ARZNAD 11,922,61

orl-mus LD50:75 mg/kg ARZNAD 11,922,61

scu-mus LD50:21 mg/kg ARZNAD 11,922,61

ivn-mus LD50:22 mg/kg ARZNAD 11,922,61

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

MEY100 CAS: 113698-18-3 HR: D
3-METHOXY-6-METHYL-7,8,9,10-TETRAHYDRO-11H-INDOLO(3,2-C)QUINOLINE-1,4-DIONE

mf: C₁₇H₁₆N₂O₃ mw: 296.35

SYNS: GH8 □ 1H-INDOLO(3,2-C)QUINOLINE-1,4(7H)-DIONE, 8,9,10,11-TETRAHYDRO-3-METHOXY-6-METHYL- □ 8,9,10,11-TETRAHYDRO-3-METHOXY-6-METHYL-1H-INDOLO(3,2-C)QUINOLINE-1,4(7H)-DIONE

TOXICITY DATA with REFERENCE:

mic-bac-sat 5 µg/plate MUREAV 311,149,94

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

MEY200 CAS: 33918-12-6 HR: 3
2-(METHOXY(METHYLTHIO)PHOSPHINYLMINO)-3-METHYL-1,3-THIAZOLINE

mf: C₆H₁₃N₂O₂PS₂ mw: 240.30

SYNS: 2-(O,S-DIMETHYLTHIOPHOSPHORYLMINO)-3-METHYLTHIAZOLIDINE □ PHOSPHORAMIDOTHIOIC ACID, (3-METHYL-2-THIAZOLIDINYLIDENE)-, O,S-DIMETHYL ESTER

□ 1,3-THIAZOLIDINE, 2-(METHOXY(METHYLTHIO)PHOS-PHENYLIMINO)-3-METHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:1470 µg/kg NTIS** OTS0543859

skn-rbt LD50:3160 µg/kg RREVAH 53,19,1974

SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and PO_x.

MEY750 CAS: 7213-59-4 HR: D
6-METHOXY-3-METHYL-1,7,8-TRIHYDROXY-ANTHRAQUINONE

mf: C₁₆H₁₂O₆ mw: 300.28

PROP: Orange-yellow crystals from EtOAc. Mp: 236°.

SYN: DERMOGLANCIN

TOXICITY DATA with REFERENCE:

mmo-sat 100 µg/plate BCSTB5 5,1489,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MEY800 CAS: 2348-82-5 HR: 3
2-METHOXY-1,4-NAPHTHALENEDIONE

mf: C₁₁H₈O₃ mw: 188.19

SYNS: 2-METHOXYNAPHTHOQUINONE □ 2-METHOXY-1,4-NAPHTHOQUINONE □ 1,4-NAPHTHALENEDIONE, 2-METHOXY-(9CI) □ 1,4-NAPHTHOQUINONE, 2-METHOXY-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:320 mg/kg JMCMA 26,570,83

orl-brd LD50:316 mg/kg AECTCV 12,355,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating vapors.

MEY900 CAS: 302959-30-4 HR: 3
3-(6-METHOXY-2-NAPHTHALENYL)-1,2-DIMETHYL (2R,3S)-REL-3-PYRROLIDINOLY HYDROCHLORIDE

mf: C₁₇H₂₁NO₂•ClH mw: 307.82

TOXICITY DATA with REFERENCE:

scu-mus TDLo:2.66 mg/kg FRMCE8 55,611,2000

scu-mus TDLo:2.66 mg/kg FRMCE8 55,611,2000

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

MEZ300 CAS: 302959-30-4 HR: 3
3-(4-METHOXY-1-NAPHTHOYL)PROPIONIC ACID

mf: C₁₅H₁₄O₄ mw: 258.29

SYNS: ACIDE β-(1-METHOXY-4-NAPHTHOYL)PROPIONIQUE (FRENCH) □ β-(1-METHOXY-4-NAPHTHOYL)-PROPIONSAEURE (GERMAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1800 mg/kg AIPTAK 116,154,58

ivn-rat LD50:750 mg/kg AIPTAK 116,154,58

ims-rat LD50:500 mg/kg AEPPAE 222,244,54

orl-mus LD50:700 mg/kg AIPTAK 116,154,58

scu-mus LD50:380 mg/kg AIPTAK 116,154,58

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by ingestion, intravenous, and intramuscular routes. When heated to decomposition it emits acrid smoke and irritating fumes.

MFA000 CAS: 3178-03-8 HR: 2
1-METHOXY-2-NAPHTHYLAMINE

mf: C₁₁H₁₁NO mw: 173.23

SYN: 2-AMINO-1-METHOXYNAPHTHALENE

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

MFA250 CAS: 63020-03-1 HR: 2
1-METHOXY-2-NAPHTHYLAMINE HYDROCHLORIDE

mf: C₁₁H₁₁NO•ClH mw: 209.69

SYNS: 1-METHOXY-2-AMINONAPHTHALENE □ o-METHYL-2-AMINO-1-NAPHTHOL HYDROCHLORIDE □ NEOSONE D □ PHENYL-β-NAPHTHALAMINE

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and carcinogenic data. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

MFA300 CAS: 42924-53-8 HR: 2
4-(6-METHOXY-2-NAPHTHYL)-2-BUTANONE

mf: C₁₅H₁₆O₂ mw: 228.31

PROP: A solid. Mp: 80–81°.

SYNS: BRL 147777 □ 2-BUTANONE, 4-(6-METHOXY-2-NAPHTHALENYL)- □ 4-(6-METHOXY-2-NAPHTHALENYL)-2-BUTANONE □ NABUMETONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3880 mg/kg KSRNAM 22,2939,88

ipr-rat LD50:1520 mg/kg KSRNAM 22,2939,88

orl-mus LD50:4290 mg/kg KSRNAM 22,2939,88

ipr-mus LD50:2380 mg/kg KSRNAM 22,2939,88

orl-mky LD50:3200 mg/kg KSRNAM 22,2939,88

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

MFA325 CAS: 156482-71-2 HR: 2
N-(2-(2-METHOXYNAPHTHYL)ETHYL)-BUTYRAMIDE

mf: C₁₇H₂₁NO₂ mw: 271.36

SYN: BUTANAMIDE, N-(2-(2-METHOXY-1-NAPHTHALENYL)ETHYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:>2000 mg/kg USXXAM #5708020

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

MFA335 CAS: 156482-69-8 HR: 2
N-(2-(2-METHOXY-1-NAPHTHYL)ETHYL)-CYCLOPROPYLCARBOXAMIDE

mf: C₁₇H₁₉NO₂ mw: 269.34

SYN: CYCLOPROPANECARBOXAMIDE, N-(2-(2-METHOXY-1-NAPHTHALENYL)ETHYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:>2000 mg/kg USXXAM #5708020

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

MFA345 CAS: 156482-72-3 HR: 2
N-(2-(2-METHOXY-1-NAPHTHYL)ETHYL)-PENTANAMIDE

mf: C₁₈H₂₃NO₂ mw: 285.39

SYN: PENTANAMIDE, N-(2-(2-METHOXY-1-NAPHTHALENYL)-ETHYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:>2000 mg/kg USXXAM #5708020

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

MFA355 CAS: 156482-78-9 HR: 1
N-(2-(2-METHOXY-1-NAPHTHYL)-1-METHYLETHYL)ACETAMIDE

mf: C₁₆H₁₉NO₂ mw: 257.33

SYN: ACETAMIDE, N-(2-(2-METHOXY-1-NAPHTHALENYL)-1-METHYLETHYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:>2000 mg/kg USXXAM #5708020

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

MFA365 CAS: 156482-79-0 HR: 2
N-(2-(2-METHOXY-1-NAPHTHYL)-1-METHYLETHYL)PROPIONAMIDE

mf: C₁₇H₂₁NO₂ mw: 271.36

SYN: PROPANAMIDE, N-(2-(2-METHOXY-1-NAPHTHALENYL)-1-METHYLETHYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:>2000 mg/kg USXXAM #5708020

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

MFA375 CAS: 156482-80-3 HR: 1
N-(2-(2-METHOXY-1-NAPHTHYL)-1-METHYLETHYL)TRIFLUOROACETAMIDE

mf: C₁₆H₁₆F₃NO₂ mw: 311.30

SYN: ACETAMIDE, 2,2,2-TRIFLUORO-N-(2-(2-METHOXY-1-NAPHTHALENYL)-1-METHYLETHYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:>2000 mg/kg USXXAM #5708020

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

MFA500 CAS: 22204-53-1 HR: 3
(+)-2-(METHOXY-2-NAPHTHYL)-PROPIONIC ACID

mf: C₁₄H₁₄O₃ mw: 230.28

PROP: A solid. Mp: 155.3°.

SYNS: CG 3117 □ EQUIPROXEN □ FLOGINAX □ (+)-6-METHOXY-α-METHYL-2-NAPHTHALENEACETIC ACID □ (S)-6-

METHOXY-α-METHYL-2-NAPHTHALENEACETIC ACID □ (+)-2-(METHOXY-2-NAPHTHYL)-PROPIONIC ACID □ d-2-(6'-METHOXY-2'-NAPHTHYL)-PROPIONSAEURE □ (+)-2-(METHOXY-2-NAPHTHYL)-PROPIONSAEURE □ MNPA □ NAIXAN □ 2-NAPHTHALENEACETIC ACID, 6-METHOXY-α-METHYL-, (+)-(8CI) □ 2-NAPHTHALENEACETIC ACID, 6-METHOXY-α-METHYL-, (S)-(9CI) □ NAPROSINE □ NAPROSYN □ NAPROXEN □ NAPRUX □ NAXEN □ NAXYN □ PROXEN □ RS-3540

TOXICITY DATA with REFERENCE:

dni-hmn:lym 60 ppm ARZNAD 25,288,75

dni-mus:oth 120 ppm ARZNAD 25,288,75

orl-wmn TDLo:315 mg/kg/3W-I:BAH,GIT AJMEAZ 89,526,90

orl-cld TDLo:2250 mg/kg/26W-I:SKN BJRHDF 26,210,87

orl-wmn TDLo:40 mg/kg/2D-I:KID SJRHAT 15,401,86

orl-wmn TDLo:70 mg/kg/W-I:LIV NEJMAG 295,1201,76

orl-hmn TDLo:50 mg/kg/7D-I ARZNAD 25,281,75

orl-rat LD50:248 mg/kg ARZNAD 41,1265,91

ipr-rat LD50:354 mg/kg IYKEDH 9,829,78

scu-rat LD50:928 mg/kg KSRNAM 17,1272,83

orl-mus LD50:360 mg/kg FRPSAX 40,334,85

ipr-mus LD50:500 mg/kg BCFAAI 119,600,80

scu-mus LD50:475 mg/kg OYYAA2 6,1039,72

ivn-mus LD50:435 mg/kg JPETAB 179,114,71

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by subcutaneous, and intravenous routes. Human systemic effects: acute renal failure, acute tubular necrosis, cholestatic jaundice, dermatitis, diarrhea, excitement, fever, hypermotility, interstitial nephritis, nausea or vomiting. Human teratogenic effects by ingestion: developmental abnormalities of the cardiovascular (circulatory) system, respiratory system, gastrointestinal system, and other developmental abnormalities. Human reproductive effects by ingestion (effects on newborn): change in condition of newborn at birth, biochemical and metabolic effects, and other neonatal measures or effects. Human mutation data reported. An anti-inflammatory, analgesic and antipyretic. An FDA proprietary drug. When heated to decomposition it emits acid smoke and irritating fumes.

MFB000 CAS: 96-96-8 HR: 1
4-METHOXY-2-NITROANILINE

mf: C₇H₈N₂O₃ mw: 168.17

PROP: Dark-red prisms from H₂O. Mp: 129°.

SYNS: GP-AMIN □ 4-AMINO-3-METHOXYAZOBENZENE □ 4-METHOXY-2-NITROANILIN (CZECH)

TOXICITY DATA with REFERENCE:

orl-rat LD50:14,100 mg/kg 85JCAE -,718,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

MFB250 CAS: 58683-84-4 HR: D
3-METHOXY-4-NITROAZOBENZENE

mf: C₁₃H₁₁N₃O₃ mw: 257.27

SYN: (3-METHOXY-4-NITROPHENYL)PHENYLDIAZENE

TOXICITY DATA with REFERENCE:

mmo-sat 100 nmol/plate GANNA2 68,373,77

mma-sat 500 nmol/plate GANNA2 72,921,82

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

**MFB300 CAS: 25917-90-2 HR: D
2-METHOXY-5-NITRO-1,4-BENZENEDIAMINE**

mf: C₇H₉N₃O₃ mw: 183.19

SYNS: 4-AMINO-3-NITRO-6-METHOXYANILINE □ 1,4-BENZENEDIAMINE, 2-METHOXY-5-NITRO-

TOXICITY DATA with REFERENCE:

mic-bac-sat 20 µg/plate MUREAV 307,83,94

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

**MFB350 CAS: 30335-72-9 HR: D
5-METHOXY-2-NITROBENZOFURAN**

mf: C₉H₇NO₄ mw: 193.17

SYNS: 5-METHOXY-2-NITROBENZOFURAN □ R 5255

TOXICITY DATA with REFERENCE:

mmt-ham:lng 500 µg/L CNREA8 44,1969,84

sce-ham:lng 500 µg/L CNREA8 44,1969,84

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

**MFB370 CAS: 140448-30-2 HR: 3
N-METHOXY-2-NITRO-1H-IMIDAZOLE-1-
ACETAMIDE**

PROP: 2-Nitroimidazole hypoxic cell radiosensitizer

BIPBU* mf: C₈H₈N₄O₄ mw: 200.15

SYN: KIN-804

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:50 mg/kg BIPBU* 25,591,2002

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

**MFB380 CAS: 140448-34-6 HR: 3
N-METHOXY-2-NITRO-1H-IMIDAZOLE-1-
BUTANAMIDE**

PROP: 2-Nitroimidazole hypoxic cell radiosensitizer

mf: C₈H₁₂N₄O₄ mw: 228.21

SYN: KIN-844

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:50 mg/kg BIPBU* 25,591,2002

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

**MFB400 CAS: 75965-74-1 HR: 3
7-METHOXY-2-NITRONAPHTHO(2,1-b)FURAN**

mf: C₁₃H₉NO₄ mw: 243.23

PROP: Crystalline powder. Mp: 108° C.

SYNS: 2-NITRO-7-METHOXYNAPHTHO(2,1-b)FURAN □ R7000

TOXICITY DATA with REFERENCE:

oms-ham:lng 4 mg/L MUREAV 157,53,85

cyt-ham:lng 1 mg/L MUREAV 157,53,85

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

**MFB410 CAS: 75965-75-2 HR: D
8-METHOXY-2-NITRONAPHTHO(2,1-b)FURAN**

mf: C₁₃H₉NO₄ mw: 243.23

SYNS: 2-NITRO-8-METHOXYNAPHTHOL(2,1-b)-FURAN □ R6998

TOXICITY DATA with REFERENCE:

mmt-ham:lng 500 µg/L CNREA8 44,1969,84

oms-ham:lng 4 mg/L MUREAV 157,53,85

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

**MFB430 CAS: 187585-43-9 HR: D
2-(4-METHOXY-3-NITROPHENYL)-3-NITRO-4H-
1-BENZOPYRAN-4-ONE**

mf: C₁₆H₁₀N₂O₇ mw: 342.28

SYNS: 4H-1-BENZOPYRAN-4-ONE, 2-(4-METHOXY-3-NITROPHENYL)-3-NITRO- □ 3,3'-DINITRO-4'-METHOXYFLAVONE

TOXICITY DATA with REFERENCE:

mic-sat 40 nmol/plate MUREAV 417,141,1998

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

**MFB500 CAS: 59607-71-5 HR: 2
4-METHOXY-2-NITROPHENYLTHIOCYANATE**

mf: C₈H₆N₂O₃S mw: 210.22

SYN: THIOCYANIC ACID, 4-METHOXY-2-NITROPHENYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:3536 mg/kg EPASR* 8EHQ-0388-0721

skn-rat LD50:>2 g/kg EPASR* 8EHQ-0388-0721

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**MFB600 CAS: 4648-33-3 HR: D
(E)-METHOXY-4'-NITROSTILBENE**

mf: C₁₅H₁₃NO₃ mw: 255.29

SYNS: BENZENE, 1-METHOXY-4-(2-(4-NITROPHENYL)ETHENYL)-, (E)- □ (E)-1-METHOXY-4-(2-(4-NITROPHENYL)ETHENYL)BENZENE

TOXICITY DATA with REFERENCE:

mic-sat 3300 pmol/plate MUREAV 341,57,1994

uns-ipr-mus 100 mg/kg MUREAV 341,57,1994

cyt-ipr-mus 100 mg/kg MUREAV 341,57,1994

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

**MFB620 CAS: 14064-58-5 HR: D
(E)-3-METHOXY-4'-NITROSTILBENE**

mf: C₁₅H₁₃NO₃ mw: 255.29

SYNS: BENZENE, 1-METHOXY-3-(2-(4-NITROPHENYL)ETHENYL)-, (E)- □ (E)-1-METHOXY-3-(2-(4-NITROPHENYL)ETHENYL)BENZENE

TOXICITY DATA with REFERENCE:

mic-sat 3300 pmol/plate MUREAV 341,57,1994
 uns-ipr-mus 100 mg/kg MUREAV 341,57,1994
 cyt-ipr-mus 100 mg/kg MUREAV 341,57,1994

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

MFB775 CAS: 1035-77-4 HR: D
3-METHOXYOESTRADIOL

mf: C₁₉H₂₆O₂ mw: 286.45

SYNS: ESTRADIOL 3-METHYL ETHER □ 17-β-ESTRADIOL 3-METHYL ETHER □ 3-METHOXY-ESTRA-1,3,5(10)-TRIENE-17-β-OL □ (17-β)-3-METHOXY-ESTRA-1,3,5(10)-TRIEN-17-OL (9CI) □ 3-METHOXYESTRA-1,3,5(10)-TRIEN-17-β-OL □ OESTRADIOL 3-METHYL ETHER

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

MFC000 CAS: 140-20-5 HR: 3
METHOXYOXIMERCURIPROPYLSUCCINYL UREA

mf: C₉H₁₆HgN₂O₆ mw: 448.86

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: N-((3-(HYDROXYMERCURY)-2-METHOXYPROPYL)-CARBAMOYL)SUCCINAMIC ACID □ MERALLURIDE □ METHOXYHYDROXYMERCURIPROPYLSUCCINYLUREA

TOXICITY DATA with REFERENCE:

ims-hmn LDLo:314 mg/kg/18D JAMAAP 147,377,51
 scu-rat LD50:28 mg/kg JOPDAB 69,663,66

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

SAFETY PROFILE: A human poison by intramuscular route. Poison experimentally by subcutaneous route. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

MFC100 CAS: 77732-09-3 HR: 3
2-METHOXY-N-(2-OXO-1,3-OXAZOLIDINE-3-YL)-ACET-2,6-XYLIDINE

mf: C₁₄H₁₈N₂O₄ mw: 278.34

SYNS: ACETAMIDE, N-(2,6-DIMETHYLPHENYL)-2-METHOXY-N-(2-OXO-3-OXAZOLIDINYL)- □ N-(2,6-DIMETHYLPHENYL)-2-METHOXY-N-(2-OXO-3-OXAZOLIDINYL)ACETAMIDE □ M 10797 □ OXADIXYL □ RECOIL □ RIPOST □ SAN 371 □ SAN 371F □ SANDOFAN □ WAKIL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1860 mg/kg PEMNDP 9,635,91
 ihl-rat LC50:>6 g/m³/6H 85JFAN A794,85
 skn-rat LD50:>2 g/kg DOVEAA 39(232),8,85
 ipr-rat LD50:278 mg/kg NNGADV 13,639,88
 scu-rat LD50:611 mg/kg NNGADV 13,639,88
 orl-mus LD50:693 mg/kg NNGADV 13,639,88
 ipr-mus LD50:184 mg/kg NNGADV 13,639,88

scu-mus LD50:560 mg/kg NNGADV 13,639,88

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion, inhalation, skin contact, and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x.

MFC500 CAS: 55-81-2 HR: 3
p-METHOXYPHENETHYLAMINE

mf: C₉H₁₃NO mw: 151.23

PROP: Bp: 138–140° @ 20 mm.

SYNS: p-METHOXYPHENYLETHYLAMINE □ USAF EL-52

TOXICITY DATA with REFERENCE:

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MFC600 CAS: 2771-13-3 HR: 3
1-(p-METHOXYPHENETHYL)HYDRAZINE HYDROGEN SULFATE

mf: C₉H₁₄N₂O•H₂O₄S mw: 264.33

SYNS: p-METHOXY-β-PHENYLETHYLHYDRAZINE DIHYDROGEN SULFATE □ 1-(p-METHOXYPHENETHYL)-HYDRAZINE SULFATE (1:1)

TOXICITY DATA with REFERENCE:

orl-mus LD50:225 mg/kg JMPCAS 5,221,62
 scu-mus LD50:182 mg/kg JOENAK 30,205,64

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also SULFATES.

MFC700 CAS: 150-76-5 HR: 3
4-METHOXYPHENOL

mf: C₇H₈O₂ mw: 124.15

PROP: White, waxy solid, or leaflets from water. Mp: 52.5°, bp: 246°, d: 1.55 @ 20°/20°.

SYNS: HYDROQUINONE MONOMETHYL ETHER □ MEQUINOL □ p-METHOXYPHENOL □ MME □ MONOMETHYL ETHER HYDROQUINONE □ USAF AN-7

TOXICITY DATA with REFERENCE:

skn-rbt 6 g/12D-I MLD JIHTAB 31,79,49
 ipr-mus LD50:250 mg/kg NTIS** AD691-490

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

OSHA PEL: TWA 5 mg/m³

ACGIH TLV: TWA 5 mg/m³

SAFETY PROFILE: Poison by intraperitoneal route. A skin irritant. When heated to decomposition it emits acid smoke and fumes. See also ETHERS.

MFD250 CAS: 70145-83-4 HR: 3
(2-(p-METHOXYPHENOXY)ETHYL)HYDRAZINE HYDROCHLORIDE

mf: C₉H₁₄N₂O₂•ClH mw: 218.71

TOXICITY DATA with REFERENCE:

orl-mus LD50:250 mg/kg JMCMA 6,63,63
 ipr-mus LD50:250 mg/kg JMCMA 6,63,63

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x .

MFD500 CAS: 70-07-5 HR: 2
5-(*o*-METHOXYPHENOXYMETHYL)-2-OXAZOLIDONE

mf: $\text{C}_{11}\text{H}_{13}\text{NO}_4$ mw: 223.25

PROP: Crystals from EtOH. Mp: 143–145°.

SYNS: AHR 233 □ ALKAPOL PEG-400 □ CL 27,319 □ CONTROL □ DORSIFLEX □ DORSILON □ EKILAN □ LENETRAN □ LENETRAN TAB □ LENETRANAT □ MEFENO-XALONA □ MEFENOXALONE □ MEPHENOXAL-ONE □ METHOXADONE □ METHOXYDON(E) □ 5-(*o*-METHOXYPHENOXYMETHYL)-2-OXAZOLIDINONE □ METOXADONE □ MODERAMIN □ OM 518 □ OXAZOLIDIN-ONE □ PLACIDEX □ REPOISE □ RISELF □ TRANSPOSE □ TREPIDONE □ VALANAS □ XERENE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3820 mg/kg TXAPA9 6,642,64

ipr-mus LD50:800 mg/kg RAMAAB 74,82,60

orl-dog LDLo:480 mg/kg TXAPA9 4,220,62

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

MFE250 CAS: 104-01-8 HR: 2
p-METHOXYPHENYLACETIC ACID

mf: $\text{C}_9\text{H}_{10}\text{O}_3$ mw: 166.19

PROP: A solid. Mp: 85–87°.

SYNS: ANISYL FORMATE □ 2-(p-ANISYL)ACETIC ACID □ HOMOANISIC ACID □ 4-METHOXYBENZENEACETIC ACID □ p-METHOXYBENZYL FORMATE □ 4-METHOXYPHENYL-ACETIC ACID □ MOPA

TOXICITY DATA with REFERENCE:

orl-rat LD50:1550 mg/kg FCTXAV 14,659,76

ipr-mus LD50:504 mg/kg JMCAR 20,709,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

MFF000 CAS: 104-47-2 HR: 3
p-METHOXYPHENYLACETONITRILE

mf: $\text{C}_9\text{H}_9\text{NO}$ mw: 147.19

PROP: Bp: 285–298°.

SYNS: ANISYLACETONITRILE □ p-METHOXYBENZENE-ACETONITRILE □ p-METHOXYBENZYL CYANIDE □ 4-METHOXYPHENYLACETONITRILE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#07882

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

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

MFF250 CAS: 3647-17-4 HR: 3

N-(p-METHOXYPHENYL)-1-AZIRIDINE-CARBOXAMIDE

mf: $\text{C}_{10}\text{H}_{12}\text{N}_2\text{O}_2$ mw: 192.24

SYNS: 1-(1-AZIRIDINYL)-N-(p-METHOXYPHENYL)FORM-AMIDE □ p-METHOXYPHENYL-N-CARBAMOYL-AZIRIDINE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#03949

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

MFF500 CAS: 3544-23-8 HR: 2
2-METHOXY-4-PHENYL-AZOANILINE

mf: $\text{C}_{13}\text{H}_{13}\text{N}_3\text{O}$ mw: 227.29

SYNS: 4-AMINO-3-METHOXYAZOBENZENE □ 4-(PHENYL-AZO)-o-ANISIDINE

TOXICITY DATA with REFERENCE:

mma-sat 50 nmol/plate CALEDQ 8,71,79

hma-mus/sat 50 mg/kg JNCIAM 62,911,79

dns-mus:ivr 1 $\mu\text{mol/L}$ GANNA2 72,930,81

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MFF550 CAS: 2592-28-1 HR: D
p-((p-METHOXYPHENYL)AZO)ANILINE

mf: $\text{C}_{13}\text{H}_{13}\text{NO}$ mw: 227.29

TOXICITY DATA with REFERENCE:

mma-sat 250 nmol/plate GANNA2 72,921,81

dns-rat:ivr 1 $\mu\text{mol/L}$ GANNA2 72,930,81

dns-mus:ivr 1 $\mu\text{mol/L}$ GANNA2 72,930,81

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also ANILINE DYES.

MFF560 CAS: 42340-32-9 HR: 3
2-(4-METHOXYPHENYL)-1H-BENZ(de)ISO-QUINOLINE-1,3(2H)-DIONE

mf: $\text{C}_{19}\text{H}_{13}\text{NO}_3$ mw: 303.32

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:0.24 mg/kg FRMCE8 55,319,2000

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

MFF575 CAS: 34289-01-5 HR: D
1-(2-(4-(6-METHOXY-2-PHENYLBENZO(b)-THIEN-3-YL)PHENOXY)ETHYL)-PYRROLIDINE HYDROCHLORIDE

mf: $\text{C}_{27}\text{H}_{27}\text{NO}_2\text{S}\cdot\text{ClH}$ mw: 466.07

SYN: 6-METHOXY-3-((p-2-(1-PYRROLIDYL)ETHOXY)PHENYL)-2-PHENYLBENZO(b)THIOPHENE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat TDLo:900 $\mu\text{g/kg}$ (4D pre/1-5D preg):REP

JMCAR 14,1185,71

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

MFF580 CAS: 104-20-1 HR: 3**4-(p-METHOXYPHENYL)-2-BUTANONE**mf: C₁₁H₁₄O₂ mw: 178.25**PROP:** Colorless to pale-yellow liquid; sweet, floral odor.

D: 1.042–1.048, refr index: 1.517–1.521, flash p: 212°F.

SYNS: ANISYLACETONE □ 2-BUTANONE, 4-(p-METHOXY-PHENYL)-(6CI,7CI,8CI) □ ENT 20,279 □ FEMA No. 2672 □ 4-METHOXYBENZYLACETONE □ p-METHOXYPHENYL-BUTANONE □ 4-(p-METHOXYPHENYL)-2-BUTANONE □ RASPBERRY KETONE METHYL ETHER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FCTXAV 12,929,74

skn-rbt LD50:>5 g/kg FCTXAV 12,929,74

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Low oral and skin toxicity. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.**MFF600 CAS: 61001-20-5 HR: D****2-(o-METHOXYPHENYL)-5,6-DIHYDROIMID-AZO(2,1-A)ISOQUINOLINE**mf: C₁₈H₁₆N₂O mw: 276.36**SYNS:** IMIDAZO(2,1-A)ISOQUINOLINE, 5,6-DIHYDRO-2-(2-METHOXYPHENYL)- □ IMIDAZO(2,1-A)ISOQUINOLINE, 5,6-DIHYDRO-2-(o-METHOXYPHENYL)-**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.**MFF620 CAS: 61001-18-1 HR: D****2-(p-METHOXYPHENYL)-5,6-DIHYDROIMID-AZO(2,1-A)ISOQUINOLINE**mf: C₁₈H₁₆N₂O mw: 276.36**SYNS:** IMIDAZO(2,1-A)ISOQUINOLINE, 5,6-DIHYDRO-2-(4-METHOXYPHENYL)- □ IMIDAZO(2,1-A)ISOQUINOLINE, 5,6-DIHYDRO-2-(p-METHOXYPHENYL)-**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.**MFF625 CAS: 1178-99-0 HR: 3****2-(p-(6-METHOXY-2-PHENYL-3,4-DIHYDRO-1-NAPHTHYL)PHENOXY)TRIETHYLAMINE HYDROCHLORIDE**mf: C₂₉H₃₃NO₂•ClH mw: 464.09**SYN:** 1-((p-(2-DIETHYLAMINO)ETHOXY)PHENYL)-3,4-DIHYDRO-6-METHOXY-2-PHENYLNAPHTHALENE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:547 mg/kg PSEBAA 112,439,63

ipr-mus LD50:195 mg/kg PSEBAA 112,439,63

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.**MFF635 CAS: 10059-74-2 HR: D**
1-(4-(p-(6-METHOXY-2-PHENYL-3,4-DIHYDRO-1-NAPHTHYL)PHENYL)BUTYL)PYRROLIDINE HYDROCHLORIDEmf: C₃₁H₃₅NO•ClH mw: 474.13**SYN:** PYRROLIDINE, 1-(4-(p-(6-METHOXY-2-PHENYL-3,4-DIHYDRO-1-NAPHTHYL)PHENYL)BUTYL)-, HYDROCHLORIDE**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.**MFF650 CAS: 55308-37-7 HR: D****2-(3-METHOXYPHENYL)-5,6-DIHYDRO-s-TRIAZOLO(5,1-a)ISOQUINOLINE**mf: C₁₇H₁₅N₃O mw: 277.35**SYNS:** L-10503 □ 2-(m-METHOXYPHENYL)-5,6-DIHYDRO-s-TRIAZOLO(5,1-a)ISOQUINOLINE**TOXICITY DATA with REFERENCE:**

scu-rat TDLo:100 mg/kg (female 9D post):TER JSTBBK 8,395,77

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**MFF750 CAS: 16143-89-8 HR: 2****2-(p-METHOXYPHENYL)-3,3-DIPHENYL-ACRYLONITRILE**mf: C₂₂H₁₇NO mw: 311.40**SYN:** α-(p-METHOXYPHENYL)-β,β-DIPHENYL-ACRYLONITRILE**TOXICITY DATA with REFERENCE:**

scu-mus TDLo:94 mg/kg/26W-I:CAR MMJJA1 11,95,61

par-mus TDLo:320 mg/kg/1Y-I:ETA NNGZAZ 33,53,57

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.**MFG000 CAS: 102-51-2 HR: D****4-METHOXY-m-PHENYLENEDIAMINE**mf: C₇H₁₀N₂O mw: 138.19**SYNS:** 3,4-DIAMINOANISOLE □ 4-METHOXY-1,2-BENZENEDIAMINE (9CI)**TOXICITY DATA with REFERENCE:**

dnd-hmn:fbr 50 μmol/L MUREAV 127,107,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Community Right-To-Know List.**SAFETY PROFILE:** Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**MFG200 CAS: 2598-71-2 HR: 3****o-METHOXY-β-PHENYLETHYLHYDRAZINE DIHYDROGEN SULFATE**mf: C₉H₁₄N₂O•H₂O₄S mw: 264.33**SYNS:** HYDRAZINE, 1-(o-METHOXYPHENETHYL)-, SULFATE (1:1) □ WL 29**TOXICITY DATA with REFERENCE:**

scu-mus LD50:150 mg/kg JOENAK 30,205,64

SAFETY PROFILE: Poison by subcutaneous route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**MFG250 CAS: 34758-84-4 HR: 3**
1-(2-METHOXY-2-PHENYL)ETHYL-4-(2-HYDRO-

XY-3-METHOXY-3-PHENYL)PROPYL-PIPERAZINE DIHYDROCHLORIDEmf: $C_{23}H_{31}N_2O_2 \cdot 2HCl$ mw: 440.46

SYNS: 3024 CERM □ 1-(2-HYDROXY-3-METHOXY-3-PHENYLPROPYL)-4-(2-METHOXY-2-PHENYLETHYL)-PIPERAZINE DIHYDROCHLORIDE □ RESPILENE □ ZIPEPROL □ ZIPEPROL DIHYDROCHLORIDE □ ZITOXIL

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:11 mg/kg:CNS LANCAO 1,45,84
 orl-chd TDLo:154 mg/kg/3D-I:CNS LANCAO 1,45,84
 orl-wmn TDLo:18 mg/kg:CNS LANCAO 1,45,84
 orl-man TDLo:10,714 µg/kg:CNS LANCAO 1,45,84
 orl-rat LD50:435 mg/kg OYYAA2 22,355,81
 ipr-rat LD50:77,600 µg/kg OYYAA2 22,355,81
 scu-rat LD50:139 mg/kg OYYAA2 22,355,81
 ivn-rat LD50:32,700 µg/kg OYYAA2 22,355,81
 orl-mus LD50:300 mg/kg ARZNAD 26,523,76
 ipr-mus LD50:116 mg/kg OYYAA2 22,355,81
 scu-mus LD50:158 mg/kg OYYAA2 22,355,81
 ivn-mus LD50:44,300 mg/kg OYYAA2 22,355,81
 orl-dog LD50:228 mg/kg OYYAA2 22,355,81
 par-dog LDLo:54 mg/kg ARZNAD 26,523,76
 orl-rbt LD50:173 mg/kg OYYAA2 22,355,81

SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal, subcutaneous, and parenteral routes. Human systemic effects by ingestion: convulsions, coma. An antitussive agent. When heated to decomposition it emits toxic fumes of NO_x and ClH .

MFG252 CAS: 61001-03-4 HR: D 2-(3-METHOXYPHENYL)IMIDAZO(2,1-A)ISOQUINOLINEmf: $C_{18}H_{14}N_2O$ mw: 274.34

SYNS: 2-(m-METHOXYPHENYL)IMIDAZO(2,1-A)ISOQUINOLINE □ IMIDAZO(2,1-A)ISOQUINOLINE, 2-(m-METHOXYPHENYL)-

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

MFG254 CAS: 61001-01-2 HR: D 2-(4-METHOXYPHENYL)IMIDAZO(2,1-A)ISOQUINOLINEmf: $C_{18}H_{14}N_2O$ mw: 274.34

SYNS: 2-(p-METHOXYPHENYL)IMIDAZO(2,1-A)ISOQUINOLINE □ IMIDAZO(2,1-A)ISOQUINOLINE, 2-(p-METHOXYPHENYL)-

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

MFG256 CAS: 61001-02-3 HR: D 2-(o-METHOXYPHENYL)IMIDAZO(2,1-A)ISOQUINOLINEmf: $C_{18}H_{14}N_2O$ mw: 274.34

SYN: IMIDAZO(2,1-A)ISOQUINOLINE, 2-(o-METHOXYPHENYL)-

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

MFG260 CAS: 64-96-0 HR: 3**2-(p-(6-METHOXY-2-PHENYL-3-INDENYL)-PHENOXY)TRIETHYLAMINE HYDROCHLORIDE**mf: $C_{28}H_{31}NO_2 \cdot ClH$ mw: 450.06

SYNS: N,N-DIETHYL-2-(4-(6-METHOXY-2-PHENYL-1H-INDEN-3-YL)PHENOXY)-ETHANAMINE HYDROCHLORIDE □ 2-(p-(6-METHOXY-2-PHENYLINDEN-3-YL)PHENOXY-)TRIETHYLAMINE HYDROCHLORIDE □ U-11555A

TOXICITY DATA with REFERENCE:

orl-rat LD50:547 mg/kg PSEBAA 112,439,63
 ipr-mus LD50:247 mg/kg PSEBAA 112,439,63

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

MFG275 HR: D 2-(3-METHOXYPHENYL)-8-METHOXY-5H-s-TRIAZOLO(5,1-a)ISOINDOLEmf: $C_{17}H_{15}N_3O_2$ mw: 293.35**SYN:** L 11752

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

MFG400 CAS: 25355-59-3 HR: 2 1-(p-METHOXYPHENYL)-3-METHYL-3-NITROSOUREAmf: $C_9H_{11}N_3O_3$ mw: 209.23**SYN:** N-METHYL-N'-(p-METHOXYPHENYL)-N-NITROSOUREA**TOXICITY DATA with REFERENCE:**

mno-sat 33,500 pmol/plate CNREA8 39,5147,79
 skn-mus TDLo:621 mg/kg/7W-I:CAR CNREA8 44,1027,84

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

MFG510 CAS: 53477-43-3 HR: 3 1-(4-METHOXYPHENYL)-3-METHYL TRIAZENEmf: $C_8H_{11}N_3O$ mw: 165.19 $CH_3OC_6H_4N=NNHCH_3$

SAFETY PROFILE: Explodes during vacuum distillation below 1 mbar. Upon decomposition it emits toxic fumes of NO_x .

MFG515 CAS: 57149-07-2 HR: D 4-(2-METHOXYPHENYL)-α-((1-NAPHTHALEN-YLOXY)METHYL)-1-PIPERAZINEETHANOLmf: $C_{24}H_{28}N_2O_3$ mw: 392.54

SYNS: KT-611 □ (+)-1-(4-(2-METHOXYPHENYL)PIPERAZINYL)-3-(1-NAPHTHYLOXY)-PROPAN-2-OL □ NAFTOPIDIL □ 1-PIPERAZINEETHANOL, 4-(2-METHOXYPHENYL)-α-((1-NAPHTHALENYLOXY)METHYL)-

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

MFG520 CAS: 58955-83-2 HR: 2 4-(4-METHOXYPHENYL)-6H-1,3,5-OXATHIAZINE

mf: C₁₀H₁₁NO₂S mw: 209.28**SYNS:** DIRI 2657 □ 6H-1,3,5-OXATHIAZINE, 4-(4-METHOXYPHENYL)-**TOXICITY DATA with REFERENCE:**

orl-rat LD50:900 mg/kg USXXAM #4035496

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**MFG525 CAS: 6732-77-0 HR: D**
2-(p-(p-METHOXY-α-PHENYLPHENETHYL)-PHENOXY)TRIETHYLAMINEmf: C₂₇H₃₃NO₂ mw: 403.61**SYNS:** N,N-DIETHYL-2-(4-(2-(4-METHOXYPHENYL)-1-PHENYLETHYL)PHENOXY)-ETHANAMINE (9CI) □ MRL-37**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**MFG530 CAS: 3063-72-7 HR: D**
2-(p-(p-METHOXY-α-PHENYLPHENETHYL)-PHENOXY)TRIETHYLAMINE HYDROCHLORIDEmf: C₂₇H₃₃NO₂•ClH mw: 440.07**SYNS:** 1-(p-(β-DIETHYLAMINOETHOXY)PHENYL)-1-PHENYL-2-(p-METHOXYPHENYL)-ETHANE HYDROCHLORIDE □ MRL-37 HYDROCHLORIDE**SAFETY PROFILE:** An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**MFG600 CAS: 21140-85-2 HR: 3**
trans-3-(o-METHOXYPHENYL)-2-PHENYL-ACRYLIC ACIDmf: C₁₆H₁₄O₃ mw: 254.30**PROP:** Needles from EtOH. Mp: 186–187°.**SYNS:** ACIDE-α-PHENYL-o-METHOXYCINNAMIQUE (FRENCH) □ (E)-o-METHOXY-α-PHENYL-CINNAMIC ACID □ SUBSTANCE H 20**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1100 mg/kg AIPTAK 119,443,59

ipr-mus LD50:400 mg/kg AIPTAK 119,443,59

scu-mus LD50:440 mg/kg AIPTAK 119,443,59

orl-gpg LD50:1000 mg/kg AIPTAK 119,443,59

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits acrid smoke and irritating fumes.**MFH000 CAS: 69103-91-9 HR: 2**
2-((3-o-METHOXYPHENYLPIPERAZINO)-PROPYL)-3-METHYL-7-METHOXY-CHROMONEmf: C₂₅H₃₀N₂O₄ mw: 422.57**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:500 mg/kg EJMCA5 13,387,78

scu-mus LD50:600 mg/kg EJMCA5 13,387,78

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x.**MFH750 CAS: 61785-72-6 HR: D**
7-(4-(3-METHOXYPHENYL)-1-PIPERAZINYL)-4-NITROBENZOFURAZAN-1-OXIDEmf: C₁₇H₁₇N₅O₅ mw: 371.39**SYN:** B2772**TOXICITY DATA with REFERENCE:**

mmo-sat 100 µg/plate MUREAV 48,145,77

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**MFH760 CAS: 17766-68-6 HR: 3**
4-(o-METHOXYPHENYL)PIPERAZINYL 3,4,5-TRIMETHOXYPHENYL KETONEmf: C₂₁H₂₆N₂O₅ mw: 386.49**SYNS:** KETONE, 4-(o-METHOXYPHENYL)PIPERAZINYL 3,4,5-TRIMETHOXYPHENYL □ 1-(o-METHOXYPHENYL)-4-(3,4,5-TRIMETHOXYBENZOYL)PIPERAZINE □ PIPERAZINE, 1-(o-METHOXYPHENYL)-4-(3,4,5-TRIMETHOXYBENZOYL)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:75 mg/kg JMCMA 11,332,68

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.**MFH770 CAS: 17766-70-0 HR: 3**
4-(p-METHOXYPHENYL)PIPERAZINYL 3,4,5-TRIMETHOXYPHENYL KETONEmf: C₂₁H₂₆N₂O₅ mw: 386.49**SYNS:** KETONE, 4-(p-METHOXYPHENYL)PIPERAZINYL 3,4,5-TRIMETHOXYPHENYL □ 1-(p-METHOXYPHENYL)-4-(3,4,5-TRIMETHOXYBENZOYL)PIPERAZINE □ PIPERAZINE, 1-(p-METHOXYPHENYL)-4-(3,4,5-TRIMETHOXYBENZOYL)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:300 mg/kg JMCMA 11,332,68

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.**MFH800 CAS: 61001-40-9 HR: D**
2-(m-METHOXYPHENYL)-PYRAZOLO(5,1-a)ISOQUINOLINEmf: C₁₈H₁₄N₂O mw: 274.34**SYN:** 2-(3-METHOXYPHENYL)PYRAZOLO(5,1-a)ISOQUINOLINE**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**MFH900 CAS: 6305-18-6 HR: 2**
p-METHOXYPHENYL 2-PYRIDYL KETONEmf: C₁₃H₁₁NO₂ mw: 213.25**SYN:** KETONE, p-METHOXYPHENYL 2-PYRIDYL**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:>1 g/kg JMCMA 14,551,71

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

MFH930 CAS: 14548-47-1 HR: 3
p-METHOXYPHENYL 4-PYRIDYL KETONEmf: C₁₃H₁₁NO₂ mw: 213.25**SYNS:** p-ANISYL 4-PYRIDYL KETONE □ KETONE, p-ANISYL 4-PYRIDYL □ KETONE, (p-METHOXYPHENYL) 4-PYRIDYL □ 4-(4-METHOXYBENZOYL)PYRIDINE □ PYRIDINE, 4-(4-METHOXYBENZOYL)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:750 mg/kg JMCAR 14,551,71

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.**MFH945 CAS: 119033-92-0 HR: 2**
4-(m-METHOXYPHENYL)SEMICARBAZONE 1-METHYL-1H-PYRROLE-2-CARBOX-ALDEHYDEmf: C₁₄H₁₆N₄O₂ mw: 272.34**SYNS:** HYDRAZINECARBOXAMIDE, N-(3-METHOXYPHENYL)-2-((1-METHYL-1H-PYRROL-2-YL)METHYLENE)- (9CI) □ SEMICARBAZIDE, 4-(m-METHOXYPHENYL)-1-((1-METHYL-2-PYRROLYL)METHYLENE)-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1002 mg/kg YHHPAL 24,822,1989

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**MFH950 CAS: 119034-01-4 HR: 3**
4-(p-METHOXYPHENYL)SEMICARBAZONE 1-METHYL-1H-PYRROLE-2-CARBOX-ALDEHYDEmf: C₁₄H₁₆N₄O₂ mw: 272.34**SYNS:** HYDRAZINECARBOXAMIDE, N-(4-METHOXYPHENYL)-2-((1-METHYL-1H-PYRROL-2-YL)METHYLENE)- (9CI) □ SEMICARBAZIDE, 4-(p-METHOXYPHENYL)-1-((1-METHYL-2-PYRROLYL)METHYLENE)-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:852 µg/kg YHHPAL 24,822,1989

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**MFH955 CAS: 119033-91-9 HR: 2**
4-(m-METHOXYPHENYL)SEMICARBAZONE-1H-PYRROLE-2-CARBOXALDEHYDEmf: C₁₃H₁₄N₄O₂ mw: 258.31**SYNS:** HYDRAZINECARBOXAMIDE, N-(3-METHOXYPHENYL)-2-(1H-PYRROL-2-YL)METHYLENE)- (9CI) □ SEMICARBAZIDE, 4-(m-METHOXYPHENYL)-1-(2-PYRROLYLMETHYLENE)-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1002 mg/kg YHHPAL 24,822,1989

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**MFH960 CAS: 119034-00-3 HR: 3**
4-(p-METHOXYPHENYL)SEMICARBAZONE-1H-PYRROLE-2-CARBOXALDEHYDEmf: C₁₃H₁₄N₄O₂ mw: 258.31**SYNS:** HYDRAZINECARBOXAMIDE, N-(4-METHOXYPHENYL)-2-(1H-PYRROL-2-YL)METHYLENE)- (9CI) □ SEMICARBAZIDE, 4-(p-METHOXYPHENYL)-1-(2-PYRROLYLMETHYLENE)-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:8050 µg/kg YHHPAL 24,822,1989

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**MFJ000 CAS: 70145-82-3 HR: 3**
(2-(p-METHOXYPHENYLTHIO)ETHYL)HYDRAZINE MALEATEmf: C₉H₁₄N₂OS•C₄H₄O₄ mw: 314.39**TOXICITY DATA with REFERENCE:**

orl-mus LD50:250 mg/kg JMCAR 6,63,63

ipr-mus LD50:250 mg/kg JMCAR 6,63,63

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.**MFJ010 CAS: 126956-10-3 HR: 2**
4-(m-METHOXYPHENYL)THIOSEMICARBAZONE 1-METHYL-1H-PYRROLE-2-CARBOX-ALDEHYDEmf: C₁₄H₁₆N₄OS mw: 288.40**SYNS:** HYDRAZINECARBOTHIOAMIDE, N-(3-METHOXYPHENYL)-2-((1-METHYL-1H-PYRROL-2-YL)METHYLENE)- (9CI) □ SEMICARBAZIDE, 4-(m-METHOXYPHENYL)-1-((1-METHYL-2-PYRROLYL)METHYLENE)-3-THIO-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1052 mg/kg YHHPAL 24,822,1989

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**MFJ020 CAS: 119033-87-3 HR: 1**
4-(p-METHOXYPHENYL)THIOSEMICARBAZONE 1-METHYL-1H-PYRROLE-2-CARBOXALDEHYDEmf: C₁₄H₁₆N₄OS mw: 288.40**SYNS:** HYDRAZINECARBOTHIOAMIDE, N-(4-METHOXYPHENYL)-2-((1-METHYL-1H-PYRROL-2-YL)METHYLENE)- (9CI) □ SEMICARBAZIDE, 4-(p-METHOXYPHENYL)-1-((1-METHYL-2-PYRROLYL)METHYLENE)-3-THIO-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:10 g/kg YHHPAL 24,822,1989

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**MFJ030 CAS: 126936-19-4 HR: 3**
4-(m-METHOXYPHENYL)THIOSEMICARBAZONE-1H-PYRROLE-2-CARBOXALDEHYDEmf: C₁₃H₁₄N₄OS mw: 274.37**SYNS:** HYDRAZINECARBOTHIOAMIDE, N-(3-METHOXYPHENYL)-2-(1H-PYRROL-2-YL)METHYLENE)- (9CI) □ SEMICARBAZIDE, 4-(m-METHOXYPHENYL)-1-(2-PYRROLYLMETHYLENE)-3-THIO-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1010 µg/kg YHHPAL 24,822,1989

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

MFJ040 CAS: 19015-11-3 HR: 1
4-(p-METHOXYPHENYL)THIOSEMICARBA-
ZONE-1H-PYRROLE-2-CARBOXALDEHYDE

mf: $C_{13}H_{14}N_4OS$ mw: 274.37

SYNS: HYDRAZINECARBOTHIOAMIDE, N-(4-METHOXY-PHENYL)-2-(1H-PYRROL-2-YLMETHYLENE)- (9CI) □ SEMICARBAZIDE, 4-(p-METHOXYPHENYL)-1-(2-PYRROLYL-METHYLENE)-3-THIO-

TOXICITY DATA with REFERENCE:

orl-mus LD50:15 g/kg YHHPAL 24,822,1989

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

MFJ100 CAS: 69095-72-3 HR: D
5-(m-METHOXYPHENYL-3-(o-TOLYL))-s-
TRIAZOLE

mf: $C_{16}H_{15}N_3O$ mw: 265.34

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

MFJ105 CAS: 57170-08-8 HR: D
2-(3-METHOXYPHENYL)-5H-s-TRIAZOLO(5,1-
a)ISOINDOLE

mf: $C_{16}H_{13}N_3O$ mw: 263.32

SYN: L-10492

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

MFJ110 CAS: 55309-14-3 HR: D
2-(m-METHOXYPHENYL)-s-TRIAZOLO(5,1-
a)ISOQUINOLINE

mf: $C_{17}H_{13}N_3O$ mw: 275.33

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

MFJ115 CAS: 85303-91-9 HR: D
5-(m-METHOXYPHENYL)-3-(2,4-XYLYL)-s-
TRIAZOLE

mf: $C_{17}H_{17}N_3O$ mw: 279.37

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

MFJ200 CAS: 31817-29-5 HR: 3
10-(3-(4-METHOXYPIPERIDINO)PROPYL)-
PHENOTHIAZIN-2-YL METHYL KETONE

mf: $C_{23}H_{28}N_2O_2S$ mw: 396.59

SYNS: ETHANONE, 1-(10-(3-(4-METHOXY-1-PIPERIDINYL)-PROPYL)-10H-PHENOTHIAZIN-2-YL)- □ KETONE, 10-(3-(4-METHOXYPIPERIDINO)PROPYL)PHENOTHIAZIN-2-YL METHYL

TOXICITY DATA with REFERENCE:

scu-mus LD50:2000 mg/kg AIPTAK 149,374,64

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by subcutaneous route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x and SO_x .

MFJ750 CAS: 9004-74-4 HR: 1
METHOXY POLYETHYLENE GLYCOL 350

mf: $(C_2H_4O)_n \cdot CH_4O$

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 7/8/71

orl-rat LD50:22 g/kg UCDS** 7/8/71

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 fumes.

MFK000 CAS: 9004-74-4 HR: 1
METHOXY POLYETHYLENE GLYCOL 550

mf: $(C_2H_4O)_n \cdot CH_4O$

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 4/17/67

orl-rat LD50:40 g/kg UCDS** 4/17/67

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 fumes.

MFK250 CAS: 9004-74-4 HR: 1
METHOXY POLYETHYLENE GLYCOL 750

mf: $(C_2H_4O)_n \cdot CH_4O$

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 4/25/58

orl-rat LD50:39,800 mg/kg 34ZLAG -,747,69

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 fumes.

MFK500 CAS: 61-01-8 HR: 3
2-METHOXYPROMAZINE

mf: $C_{18}H_{22}N_2OS$ mw: 314.48

PROP: Crystals. Mp: 44–48°.

SYNS: 10-(3-DIMETHYLAMINOPROPYL)-2-METHOXY-PHENOTHIAZINE □ 2-METHOXY-10-(3'-DIMETHYL-AMINOPROPYL)PHENOTHIAZINE □ MOPAZIN □ MOPAZINE □ NEOPROMA □ RP 4632 □ TENTON □ TENTONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:730 mg/kg AIPTAK 125,101,60

ipr-rat LD50:95 mg/kg AIPTAK 125,101,60

orl-mus LD50:408 mg/kg AIPTAK 125,101,60

ipr-mus LD50:112 mg/kg AIPTAK 125,101,60

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

MFK750 CAS: 3403-42-7 HR: 3
METHOXYPROMAZINE MALEATE

mf: $C_{18}H_{22}N_2OS \cdot C_4H_4O_4$ mw: 430.56

PROP: Crystals. Mp: 141–145°. Sol in acids.

SYNS: 10-(3-(DIMETHYLAMINO)PROPYL)-2-METHOXY)PHENOTHIAZINE, MALEATE □ METHOPROMAZINE MALEATE □ TENTONE MALEATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:730 mg/kg 27ZQAG -,32,72
 ipr-rat LD50:130 mg/kg AIPTAK 125,101,60
 orl-mus LD50:420 mg/kg 27ZQAG -,32,72
 ipr-mus LD50:120 mg/kg 27ZQAG -,32,72
 ivn-mus LD50:50 mg/kg 27ZQAG -,32,72

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

MFK800 CAS: 1589-47-5 HR: D
2-METHOXY-1-PROPANOL

mf: C₄H₁₀O₂ mw: 90.14

SYNS: 2-METHOXYPROPANOL □ 2-METHOXYPROPANOL-1 □ 1-PROPANOL, 2-METHOXY-

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

OSHA PEL: OSHA Analytical method #99

MFL000 CAS: 1589-49-7 HR: 1
3-METHOXY-1-PROPANOL

mf: C₄H₁₀O₂ mw: 90.14

PROP: Bp: 153.15–153.2°.

SYN: β-PROPYLENE GLYCOL MONOMETHYL ETHER

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62

orl-rat LD50:5710 mg/kg JIHTAB 23,259,41

skn-rbt LD50:5660 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.

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

MFL100 CAS: 5878-19-3 HR: 3
1-METHOXY-2-PROPANONE

mf: C₄H₈O₂ mw: 88.12

SYNS: METHOXYACETONE □ 1-METHOXYACETONE □ METHOXYMETHYL METHYL KETONE □ METHOXY-2-PROPANONE □ 2-PROPANONE, 1-METHOXY-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,704,86

eye-rbt 500 mg/24H MLD 85JCAE -,704,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

MFL250 CAS: 1610-18-0 HR: 2
METHOXYPROPAZINE

mf: C₁₀H₁₉N₅O mw: 225.34

PROP: A solid. Mp: 91–92°. Sltly sol in H₂O.

SYNS: 2,4-BIS(ISOPROPYLAMINO)-6-METHOXY-s-TRIAZINE □ 2,6-DIISOPROPYLAMINO-4-METHOXYTRIAZINE □ N,N'-DIISOPROPYL-6-METHOXY-1,3,5-TRIAZINE-2,4-DIYLDIAMINE

□ G-31435 □ GESAFRAM □ GESAFRAM 50 □ GESAGRAM □ 2-METHOXY-4,6-BIS(ISOPROPYLAMINO)-s-TRIAZINE □ 2-METHOXY-4,6-BIS(ISOPROPYLAMINO)-1,3,5-TRIAZINE □ ONTRACIC 800 □ ONTRACK □ ONTRACK-WE-2 □ PRAMITOL □ PRIMATOL □ PRIMATOL 25E □ PROMETON □ PROMETONE

TOXICITY DATA with REFERENCE:

skn-rbt 105 mg open MLD CIGET* -,77

eye-rbt 21 mg MOD CIGET* -,77

orl-rat LD50:503 mg/kg FAATDF 7,299,86

ihl-rat LC50:36 g/m³/4H FMCHA2 -,C246,91

orl-mus LD50:2160 mg/kg PCOC** -,931,66

skn-rbt LD50:2200 mg/kg GUCHAZ 6,425,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MFL300 CAS: 116-11-0 HR: 2
2-METHOXYPROPENE

mf: C₄H₈O mw: 72.12

SYN: 1-PROPENE, 2-METHOXY-

TOXICITY DATA with REFERENCE:

orl-rat LD50:1870 mg/kg AIHAAP 30,470,69

ihl-rat LCLo:64,000 ppm/4H AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Slightly toxic by inhalation.

MFL400 CAS: 3852-09-3 HR: 2
3-METHOXYPROPIONIC ACID METHYL ESTER

mf: C₅H₁₀O₃ mw: 118.15

SYNS: β-METHOXYPROPIONIC ACID, METHYL ESTER □ METHYLESTER KYSELINY 3-METHOXYPROPIONOVE □ PROPIONIC ACID, 3-METHOXY-, METHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LDLo:1700 mg/kg EPASR* 8EHQ-0486-0599

ihl-rat LCLo:3656 ppm/6H EPASR* 8EHQ-0486-0599

ihl-mus LC50:40 g/m³ GTPZAB 18(3),48,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MFL750 CAS: 110-67-8 HR: 3
3-METHOXYPROPIONITRILE

mf: C₄H₇NO mw: 85.12

PROP: Liquid. Mp: –63°, bp: 160°, flash p: 149°F (OC), vap d: 2.94.

SYNS: AI3-25449 □ 1-CYANO-2-METHOXYETHANE □ 3-METHOXYPROPANENITRILE □ 3-METHOXYPROPANNITRIL □ 3-METHOXYPROPIONITRILE □ METHYL β-CYANOETHYL ETHER □ PROPIONITRILE, 3-METHOXY-

TOXICITY DATA with REFERENCE:

orl-rat LD50:4390 mg/kg AIHAAP 30,470,69

orl-mus LD50:3200 mg/kg 85JCAE -,916,86

ipr-mus LD50:2900 mg/kg ZAARAM 19,225,69

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

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Flammable liquid when exposed to heat, flame, or oxidizers. Reacts with water, steam, or acids to produce toxic and flammable vapors. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits highly toxic fumes of CN⁻. See also NITRILES.

MFL800 CAS: 70657-70-4 HR: D
2-METHOXY-1-PROPYL ACETATE

mf: C₆H₁₂O₃ mw: 132.18

SYN: ACETIC ACID, 2-METHOXYPROPYL ESTER

TOXICITY DATA with REFERENCE:

DFG MAK: 20 ppm

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

MFM000 CAS: 5332-73-0 HR: 3
3-METHOXYPROPYLAMINE

mf: C₄H₁₁NO mw: 89.16

PROP: Colorless liquid. Mp: -75.7°, bp: 116°, flash p: 90°F (TOC), d: 0.8615 @ 30°, vap press: 20 mm @ 30°, vap d: 3.07.

SYN: 3-MPA

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#03063

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Irritating to skin, eyes, and mucous membranes.

Dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

MFM100 CAS: 3818-70-0 HR: 3
6-METHOXY-8-(5-PROPYLAMINOAMYLAMINO)-QUINOLINE PHOSPHATE

mf: C₁₈H₂₇N₃O•xH₃O₄P mw: 987.48

SYNS: 6-METHOXY-8-((5-(PROPYLAMINO)PENTYL)AMINO)QUINOLINE PHOSPHATE □ 1,5-PENTANEDIAMINE, N-(6-METHOXY-8-QUINOLINYL)-N'-PROPYL-, PHOSPHATE □ QUINOLINE, 6-METHOXY-8-((5-(PROPYLAMINO)PENTYL)AMINO)-, PHOSPHATE □ WIN 5037

TOXICITY DATA with REFERENCE:

orl-mus LD50:310 mg/kg ANTCAO 12,103,1962

ivn-mus LD50:16,166 µg/kg ANTCAO 12,103,1962

orl-mky LDLo:48 mg/kg ANTCAO 12,103,1962

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

MFM750 CAS: 2785-87-7 HR: 3
2-METHOXY-4-PROPYLPHENOL

mf: C₁₀H₁₄O₂ mw: 166.24

PROP: A liquid. Bp: 240-241°.

SYNS: CERULIGNOL □ DIHYDROEUGENOL □ GUAIACYL-PROPANE □ 4-HYDROXY-3-METHOXYPROPYLBENZENE □ p-PROPYLGUAIACOL □ p-n-PROPYLGUAIACOL □ 4-PROPYL-GUAIACOL □ 1-PROPYL-3-METHOXY-4-HYDROXYBENZENE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTOD7 20(Suppl),671,82

orl-rat LD50:2600 mg/kg FCTOD7 20(Suppl),671,82

orl-mus LD50:2 g/kg FCTOD7 20(Suppl),671,82

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

skn-rbt LD50:310 mg/kg FCTOD7 20(Suppl),671,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MFN000 CAS: 69242-96-2 HR: 3
9-(2-METHOXY-4-(PROPYLSULFONAMIDO)-ANILINO)-4-ACRIDINECARBOXAMIDE HYDROCHLORIDE

mf: C₂₄H₂₄N₄O₄S•ClH mw: 501.04

SYNS: 4-ACRIDINECARBOXAMIDE, 9-((2-METHOXY-4-((PROPYLSULFONYL)AMINO)PHENYL)AMINO)-, HYDROCHLORIDE □ 4'-(4-CARBAMOYL-9-ACRIDINYLAMINO)-3'-METHOXY-1-PROPANESULFONANILIDE HYDROCHLORIDE □ 1-PROPANESULFONANILIDE, 4'-(4-CARBAMOYL-9-ACRIDINYLAMINO)-3'-METHOXY-, HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

mma-sat 642 µmol/L JMC MAR 22,251,79

ipr-mus LD10:35 mg/kg JMC MAR 22,251,79

SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, SO_x and HCl.

MFN250 CAS: 627-41-8 HR: 3
3-METHOXYPROPYNE

mf: C₄H₆O mw: 70.09

PROP: Bp: 61°, d: 0.83 @ 13°.

SYN: METHYL PROPARGYL ETHER

SAFETY PROFILE: Explodes when heated to its boiling point. Ignites spontaneously in air. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS and ACETYLENE COMPOUNDS.

MFN275 CAS: 484-20-8 HR: 2
5-METHOXY PSORALEN

mf: C₁₂H₈O₄ mw: 216.20

PROP: Needles from EtOH. Mp: 188°. Naturally occurring analog of psoralen and isomer of methoxsalen. Found in a wide variety of plants. Needles from alc. Mp: 188° (subl). Practically insol in boiling water; sltly sol in glacial acetic acid, chloroform, benzene, warm phenol. Sol in abs alc: 1 part in 60.

SYNS: BERGAPTEN □ 4-METHOXY-7H-FURO(3,2-g)(1)BENZOPYRAN-7-ONE □ PSORADERM

TOXICITY DATA with REFERENCE:

dnd-esc 20 µmol/L CBINA8 21,103,78

dnd-omi 20 µmol/L CBINA8 21,103,78

dnd-sal:spr 20 µmol/L CBINA8 21,103,78

dnd-mam:lym 20 µmol/L CBINA8 21,103,78

CONSENSUS REPORTS: IARC Cancer Review: Group 2A IMEMDT 7,242,87; Animal Inadequate Evidence IMEMDT 40,327,86; Human Inadequate Evidence IMEMDT 40,327,86.

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

MFN285 CAS: 3149-28-8 HR: 1
2-METHOXYPYRAZINE

mf: C₅H₆N₂O mw: 110.12

PROP: Colorless to yellow liquid; nutty, coallike odor. D: 1.110–1.140 @ 20°, bp: 60–61° @ 29 mm, refr index: 1.508. Sol in alc; insol in water @ 61°.

SYN: FEMA No. 3302

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

MFN500 CAS: 152-47-6 HR: 2
N¹-(3-METHOXY-2-PYRAZINYL)SULFANIL-AMIDE

mf: C₁₁H₁₂N₄O₃S mw: 280.33

PROP: Yellowish-white powder from EtOH. Mp: 176°.

SYNS: 2-(p-AMINO BENZENESULFANAMIDE)-3-METHOXY-PYRAZINE □ DALYSEP □ FARMITALIA 204/122 □ KELFIZIN □ LONGUM □ 3-METHOXYPYRAZINE SULFANILAMIDE □ 3-METHOXY-2-SULFAPYRAZINE □ POLYCIDAL □ SULFALENE □ SULFAMETHOPYRAZINE □ SULFAMETHOXYPYRAZINE □ SULFAMETOPYRAZINE □ SULFAMETOSSIPRIDAZINA (ITALIAN) □ SULFAMETOXYPYRIDAZIN (GERMAN) □ 2-SULFANILAMIDO-3-METHOXYPYRAZINE □ SULFAPYRAZINEMETHOXINE □ SULFAPYRAZINEMETHOXYNE

TOXICITY DATA with REFERENCE:

sln-asn 1 g/L MUREAV 26,159,74
 orl-rat LD50:2739 mg/kg ARZNAD 11,459,61
 scu-rat LD50:2120 mg/kg NIIRDN 6,390,82
 ivn-rat LD50:1790 mg/kg NIIRDN 6,390,82
 orl-mus LD50:1292 mg/kg AIPTAK 127,58,60
 scu-mus LD50:1590 mg/kg NIIRDN 6,390,82
 ivn-mus LD50:893 mg/kg AIPTAK 127,58,60

SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous, and intravenous routes. An experimental teratogen. Experimental reproductive effects. Mutation data reported. An antibacterial agent. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFONATES.

MFN550 CAS: 126983-60-6 HR: D
3-METHOXY-1H-PYRIDO(3',4':4,5)PYRROLO-(3,2-C)QUINOLINE-1,4(11H)-DIONE

mf: C₁₅H₉N₃O₃ mw: 279.27

SYNS: GH32 □ 1H-PYRIDO(3',4':4,5)PYRROLO(3,2-C)QUINOLINE-1,4(11H)-DIONE, 3-METHOXY-

TOXICITY DATA with REFERENCE:

mic-bac-sat 250 ng/plate MUREAV 311,149,94

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

MFN600 CAS: 1464-33-1 HR: 3
4-METHOXYPYRIDOXINE

mf: C₉H₁₃NO₃ mw: 183.23

PROP: A solid. Mp: 181° (as hydrochloride).

SYNS: 5-HYDROXY-4-(METHOXYMETHYL)-6-METHYL-3-PYRIDINEMETHANOL □ α⁴-O-METHYLPYRIDOXOL

TOXICITY DATA with REFERENCE:

ipr-rat LD50:540 mg/kg PSDTAP 4,179,64
 orl-mus LD50:32 mg/kg PSDTAP 4,179,64
 ipr-mus LD50:23 mg/kg PSDTAP 4,179,64
 ivn-mus LD50:20 mg/kg PSDTAP 4,179,64
 ipr-dog LD50:8 mg/kg PSDTAP 4,179,64
 ipr-cat LD50:9 mg/kg PSDTAP 4,179,64
 ipr-rbt LD50:17 mg/kg PSDTAP 4,179,64

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

MFN700 CAS: 55042-51-8 HR: 2
5-METHOXY-α-(3-PYRIDYL)-3-INDOLEMETHANOL

mf: C₁₅H₁₄N₂O₂ mw: 254.31

SYNS: ICI 779 □ 1H-INDOLE-METHANOL, 5-METHOXY-α-3-PYRIDINYL- □ 3-INDOLEMETHANOL, 5-METHOXY-α-(3-PYRIDYL)- □ (5'-METHOXY-3'-INDOLYL)-β-PYRIDYLMETHANOL

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1200 mg/kg BIMDB3 21,101,74

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

MFO000 CAS: 18179-67-4 HR: 2
N¹-(5-METHOXY-2-PYRIMIDINYL)SULFANIL-AMIDE, SODIUM SALT

mf: C₁₁H₁₁N₄O₃S•Na mw: 302.31

SYNS: 2-(p-AMINO BENZENESULFONAMIDO)-5-METHOXY-PYRIMIDINE SODIUM SALT □ 4-AMINO-N-(5-METHOXY-2-PYRIMIDINYL)BENZENESULFONAMIDE SODIUM SALT □ METHOXYPYRIMAL SODIUM □ 5-METHOXY-SULFADIAZINE SODIUM □ SULFAMETER SODIUM □ SULFAMETHOXYDI-AZINE SODIUM □ SULFA-5-METHOXYPYRIMIDINE SODIUM SALT □ SULFAMETORINE SODIUM □ 2-SULFANILAMIDO-5-METHOXYPYRIMIDINE SODIUM SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:1000 mg/kg ARZNAD 11,695,61
 ipr-rat LD50:1100 mg/kg ARZNAD 11,695,61
 ivn-rat LD50:1200 mg/kg ARZNAD 11,695,61
 orl-mus LD50:3000 mg/kg ARZNAD 11,695,61
 ipr-mus LD50:1500 mg/kg ARZNAD 11,695,61
 ivn-mus LD50:1100 mg/kg ARZNAD 11,695,61
 ivn-rbt LD50:1000 mg/kg ARZNAD 11,695,61

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and intravenous routes. An antibacterial agent. When heated to decomposition it emits very toxic fumes of NO_x, Na₂O, and SO_x. See also SULFONATES.

MFO250 CAS: 3949-14-2 HR: 3
5-METHOXY-3-(2-PYRROLIDINOETHYL)INDOLE

mf: C₁₅H₂₀N₂O mw: 244.37

SYNS: CT 4436 □ METHOXY-5-PYRROLIDINO-2'-ETHYL-3-INDOLE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:4 mg/kg BSCFAS 5,1411,65
 ipr-mus LD50:77 mg/kg BSCFAS 5,1411,65

ivn-mus LD50:32 mg/kg BSCFAS 5,1411,65

ivn-rbt LD50:300 µg/kg BSCFAS 5,1411,65

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

MFO500 CAS: 42840-17-5 HR: 3
3-METHOXY-4-PYRROLIDINYLMETHYLDI-BENZOFURAN

mf: C₁₈H₁₉NO₂ mw: 281.38

TOXICITY DATA with REFERENCE:

orl-mus LD50:838 mg/kg TAKHAA 31,247,72

ipr-mus LD50:90 mg/kg CHTPBA 8,57,73

orl-mky LD50:1000 µg/kg ANYAA9 320,151,78

orl-gpg LD50:10 µg/kg ANYAA9 320,151,78

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

MFP000 CAS: 5263-87-6 HR: 3
6-METHOXYQUINOLINE

mf: C₁₀H₉NO mw: 159.20

PROP: Liquid. D: 1.154 @ 20°, mp: 26–28°, bp: 254° @ 310 mm, sol in alc.

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:256 mg/kg CBCCT* 3,55,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MFP500 CAS: 73928-02-6 HR: 2
3-METHOXY-4-STILBENAMINE

mf: C₁₅H₁₅NO mw: 225.31

SYN: 3-METHOXY-4-AMINOSTILBENE

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

MFQ250 CAS: 19155-52-3 HR: 3
5-METHOXY-1,2,3,4-THIATRIAZOLE

mf: C₂H₃N₃OS mw: 117.13

SAFETY PROFILE: Explodes at room temperature. Upon decomposition it emits toxic fumes of SO_x and NO_x.

MFQ300 CAS: 7217-59-6 HR: 2
2-METHOXYTHIOPHENOL

mf: C₇H₈OS mw: 140.21

SYNS: BENZENETHIOL, 2-METHOXY-(9CI) □ BENZENETHIOL, o-METHOXY- □ o-METHOXYBENZENETHIOL □ 2-METHOXYBENZENETHIOL □ THIOGUAIACOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1740 mg/kg FCTXAV 19,753,81

orl-mus LD50:1560 mg/kg FCTXAV 19,753,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MFQ500 CAS: 136-90-3 HR: 2
4-METHOXY-m-TOLUIDINE

mf: C₈H₁₁NO mw: 137.20

PROP: Crystals from EtOH (aq). Mp: 59–59.5°, bp: 100–105° @ 0.5 mm.

SYN: 3-AMINO-4-METHOXYTOLUEN (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,118,72

eye-rbt 100 mg/24H SEV 28ZPAK -,118,72

orl-rat LD50:2210 mg/kg 28ZPAK -,118,72

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

MFQ750 CAS: 313-96-2 HR: 2
2-METHOXYTRICYCLOQUINAZOLINE

mf: C₂₂H₁₄N₄O mw: 350.40

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

MFR000 CAS: 2642-50-4 HR: 2
3-METHOXYTRICYCLOQUINAZOLINE

mf: C₂₂H₁₄N₄O mw: 350.40

TOXICITY DATA with REFERENCE:

skn-mus TDLo:1200 mg/kg/50W-I:NEO BCPCA6 14,323,65

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

MFR250 CAS: 66967-60-0 HR: 1
METHOXY TRIETHYLENE GLYCOL VINYL ETHER

mf: C₉H₁₆O₅ mw: 204.25

TOXICITY DATA with REFERENCE:

orl-rat LD50:11,300 mg/kg AIHAAP 30,470,69

skn-rbt LD50:10 g/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Glycol ethers are on the Community Right-To-Know List.

SAFETY PROFILE: Mildly toxic by ingestion and skin contact. Many glycol ether compounds have dangerous reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

MFR500 CAS: 431-46-9 HR: 2
1-METHOXY-2,2,2-TRIFLUOROETHANOL

mf: C₃H₅F₃O₂ mw: 130.08

TOXICITY DATA with REFERENCE:

orl-mus LD50:750 mg/kg JMCMA 13,1212,70

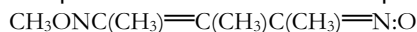
ipr-mus LD50:550 mg/kg JMCMA 13,1212,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MFR775 CAS: 39753-42-9 HR: 3
1-METHOXY-3,4,5-TRIMETHYL PYRAZOLE-N-OXIDE

mf: C₇H₁₂N₂O₂ mw: 156.18



SAFETY PROFILE: May explode when heated. Upon decomposition it emits toxic fumes of NO_x.

MFS400 CAS: 608-07-1 HR: 3
5-METHOXYTRYPTAMINE

mf: C₁₁H₁₄N₂O mw: 190.27

PROP: A solid. Mp: 120–121°.

SYNS: 3-(2-AMINOETHYL)-5-METHOXYINDOLE □ INDOLE, 3-(2-AMINOETHYL)-5-METHOXY- □ METHOXYTRYPTAMINE □ 5-MOT

TOXICITY DATA with REFERENCE:

otr-mus-scu 3 g/kg EKSODD 7(4),26,85
 ipr-mus LD50:176 mg/kg JTEHD6 1,515,76
 ivn-mus LD50:106 mg/kg FATOAO 27,681,64

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

MFS500 CAS: 2736-21-2 HR: 3
6-METHOXYTRYPTAMINE

mf: C₁₁H₁₄N₂O•HCl mw: 226.73

SYN: 3-(2-AMINOETHYL)-6-METHOXYINDOLE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

scu-mus LD50:645 mg/kg RPTOAN 35(1),2,72
 ivn-mus LD50:118 mg/kg FATOAO 35,16,72

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

MFT000 CAS: 66-83-1 HR: 3
5-METHOXYTRYPTAMINE HYDROCHLORIDE

mf: C₁₁H₁₄N₂O•ClH mw: 226.73

PROP: Crystals. Decomp @ 248°.

SYNS: 3-(2-AMINOETHYL)-5-METHOXYINDOLE HYDROCHLORIDE □ MEXAMINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:6 mg/kg RPTOAN 33,246,70
 orl-mus LD50:580 mg/kg FEPA7 23,5125,64
 ipr-mus LD50:227 mg/kg YKKZAJ 94,1620,74
 scu-mus LD50:620 mg/kg RPTOAN 35(1),2,72
 ivn-mus LD50:103 mg/kg FEPA7 23,T125,64

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

MFT250 CAS: 35764-54-6 HR: 3
6-METHOXYTRYPTOLINE HYDROCHLORIDE

mf: C₁₂H₁₄N₂O•ClH mw: 238.75

SYNS: 6-METHOXY-1,2,3,4-TETRAHYDRO-β-CARBOLINE HYDROCHLORIDE □ 6-METHOXY-1,2,3,4-TETRAHYDRO-9H-PYRIDO(3,4-B)INDOLE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:595 mg/kg ARZNAD 28,42,78
 ipr-mus LD50:235 mg/kg ARZNAD 28,42,78
 ivn-mus LD50:112 mg/kg ARZNAD 28,42,78

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

MFT300 CAS: 712-09-4 HR: D
5-METHOXYTRYPTOPHOL

mf: C₁₁H₁₃NO₂ mw: 191.25

SYNS: 5-METHOXY-1H-INDOLE-3-ETHANOL (9CI) □ 5-METHOXYINDOLE-3-ETHANOL

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

MFT500 CAS: 127-25-3 HR: 2
METHYL ABIETATE

mf: C₂₁H₃₂O₂ mw: 316.47

PROP: Colorless to yellow thick liquid; almost odorless. Flash p: 356°F (OC), vap d: 10.9, d: 1.040 @ 20°/20°, bp: 360–365° with decomp. Insol in water, misc in alc and ether, the usual org solvs, and with aliphatic hydrocarbons. From the esterification of the resinous residue of turpentine (FCTXAV 12,807,74).

SYNS: ABIETIC ACID, METHYL ESTER □ METHYL ESTER of WOOD ROSIN □ METHYL ESTER of WOOD ROSIN, partially hydrogenated (FCC)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,807,74
 orl-rat LD50:>5 g/kg FCTXAV 12,931,74
 skn-rbt LD50:>5 g/kg FCTXAV 12,931,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. Probably slightly toxic. Combustible liquid when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

MFT750 CAS: 79-16-3 HR: 2
METHYLACETAMIDE

mf: C₃H₇NO mw: 73.11

PROP: Needles. Mp: 30.55°, bp: 206°. Sol in H₂O, EtOH, and C₆H₆; insol in ligroin.

SYNS: N-METHYLACETAMIDE □ MONOMETHYL-ACETAMIDE

TOXICITY DATA with REFERENCE:

mno-esc 10 g/L CRSUBM 3,69,55
 orl-rat LD50:5000 mg/kg JRPFA4 4,219,62
 ipr-rat LD50:2750 mg/kg JRPFA4 4,219,62
 scu-rat LD50:3600 mg/kg COREAF 251,1937,60
 ipr-mus LD50:4380 mg/kg JPPMAB 16,472,64
 ivn-mus LD50:4015 mg/kg JPPMAB 16,472,64
 ivn-rbt LDLo:16,940 mg/kg ARZNAD 20,1242,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MFU000 CAS: 102585-60-4 HR: 2
2-(2-(3-(N-METHYLACETAMIDO)-2,4,6-TRIIODOPHENOXY)ETHOXY)ACETIC ACID SODIUM SALT

mf: $\text{C}_{13}\text{H}_{14}\text{I}_3\text{NO}_5 \cdot \text{Na}$ mw: 667.97

TOXICITY DATA with REFERENCE:

orl-mus LD50:1200 mg/kg FRPSAX 31,349,76

ivn-mus LD50:670 mg/kg FRPSAX 31,349,76

SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of I^- , Na_2O , and NO_x . See also IODIDES.

MFU250 CAS: 100700-34-3 HR: 3
2-(2-(3-(N-METHYLACETAMIDO)-2,4,6-TRIIODOPHENOXY)ETHOXY)BUTYRIC ACID SODIUM SALT

mf: $\text{C}_{15}\text{H}_{18}\text{I}_3\text{NO}_5 \cdot \text{Na}$ mw: 696.03

TOXICITY DATA with REFERENCE:

orl-mus LD50:1850 mg/kg FRPSAX 31,349,76

ivn-mus LD50:340 mg/kg FRPSAX 31,349,76

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of I^- , Na_2O , and NO_x . See also IODIDES.

MFU500 CAS: 102585-59-1 HR: 2
2-(2-(3-(N-METHYLACETAMIDO)-2,4,6-TRIIODOPHENOXY)ETHOXY)-2-PHENYLACETIC ACID SODIUM SALT

mf: $\text{C}_{19}\text{H}_{18}\text{I}_3\text{NO}_5 \cdot \text{Na}$ mw: 744.07

TOXICITY DATA with REFERENCE:

orl-mus LD50:1660 mg/kg FRPSAX 31,349,76

ivn-mus LD50:525 mg/kg FRPSAX 31,349,76

SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of I^- , Na_2O , and NO_x . See also IODIDES.

MFW000 CAS: 579-10-2 HR: 3
N-METHYLACETANILIDE

mf: $\text{C}_9\text{H}_{11}\text{NO}$ mw: 149.21

PROP: Leaflets from ligroin; needles from Et_2O . Mp: $101-102^\circ$, bp: 253° .

SYNS: ACETOMETHYLANILIDE □ N-ACETYL-METHYLANILINE □ METHYLANITIFEBRIN □ PHENYLMETHYLACETAMIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:155 mg/kg TXAPA9 19,20,71

ipr-mus LDLo:125 mg/kg CBCCT* 6,213,54

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 .

MFW100 CAS: 79-20-9 HR: 3
METHYL ACETATE

DOT: UN 1231

mf: $\text{C}_3\text{H}_6\text{O}_2$ mw: 74.09

PROP: Pleasant smelling, colorless, volatile liquid. Mp: -98.7° , lel: 3.1%, uel: 16%, bp: 57.8° , ULC: 85–90, flash p: 14°F , d: 0.92438, autoign temp: 935°F , vap press: 100 mm @ 9.4° , vap d: 2.55. Moderately sol in water; misc in alc, ether. IDLH 3100 ppm [10%LEL].

SYNS: ACETATE de METHYLE (FRENCH) □ ACETIC ACID METHYL ESTER □ DEVOTON □ ETHYL ESTER of MONOACETIC ACID □ METHYLACETAAT (DUTCH) □ METHYLACETAT (GERMAN) □ METHYLE (ACETATE de) (FRENCH) □ METHYLESTER KISELINY OCTOVE (CZECH) □ METHYL ETHANOATE □ METILE (ACETATO di) (ITALIAN) □ OCTAN METYLU (POLISH) □ TERETON

TOXICITY DATA with REFERENCE:

sln-smc 33,800 ppm MUREAV 149,339,85

skn-rbt 500 mg/24H MLD FCTXAV 17,859,79

skn-rbt 20 mg/24H MOD 85JCAE -,353,86

eye-rbt 100 mg/24H MOD 85JCAE -,353,86

ihl-hmn TCLo:15,000 mg/ m^3 :IRR AGGHAR 5,1,33

scu-rat LDLo:8000 mg/kg BSIBAC 18,45,43

ihl-cat LCLo:67,000 mg/ m^3 /1H AGGHAR 5,1,33

scu-cat LDLo:3000 mg/kg AGGHAR 5,1,33

orl-rbt LD50:3705 mg/kg IMSUAI 41,31,72

scu-gpg LDLo:3000 mg/kg AGGHAR 5,1,33

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 200 ppm; STEL 250 ppm

ACGIH TLV: TWA 200 ppm; STEL 250 ppm

DFG MAK: 200 ppm (610 mg/ m^3)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by several routes. A human systemic irritant by inhalation. A moderate skin and eye irritant. Mutation data reported. Dangerous fire hazard when exposed to heat, flame, or oxidizers. Moderate explosion hazard when exposed to heat or flame. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Methyl Acetate S42.

MFW250 CAS: 122-00-9 HR: 3
4'-METHYL ACETOPHENONE

mf: $\text{C}_9\text{H}_{10}\text{O}$ mw: 134.19

PROP: Colorless liquid or needles; fruity, actophenone odor. D: 0.996–1.004, refr index: 1.530–1.535, mp: 28° , bp: 225° @ 736 mm, flash p: 198°F . Sol in fixed oils, propylene glycol; insol in glycerin.

SYNS: p-ACETYL-TOLUENE □ ETHANONE, 1-(4-METHYL-PHENYL)-(9CI) □ FEMA No. 2677 □ MELILOTAL □ p-METHYL ACETOPHENONE □ 1-METHYL-4-ACETYL-BENZENE □ METHYL-p-TOLYL KETONE

TOXICITY DATA with REFERENCE:

skn-hmn 100% FCTXAV 12,933,74

skn-rbt 500 mg/24H MLD FCTXAV 12,807,74

orl-rat LD50:1400 mg/kg FCTXAV 12,807,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion. A human skin irritant. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

**MFW500 CAS: 520-45-6 HR: 3
METHYLACETOPYRONONE**

mf: $C_8H_8O_4$ mw: 168.16

PROP: White crystals or crystalline powder. Mp: 109°, bp: 269.0°, vap press: 1 mm @ 91.7°, vap d: 5.8.

Moderately sol in water and org solvs.

SYNS: 2-ACETYL-5-HYDROXY-3-OXO-4-HEXENOIC ACID Δ -LACTONE \square 3-ACETYL-6-METHYL-2,4-PYRANDIONE \square 3-ACETYL-6-METHYLPYRANDIONE-2,4 \square 3-ACETYL-6-METHYL-2H-PYRAN-2,4(3H)-DIONE \square DEHYDRACETIC ACID \square DEHYDROACETIC ACID (FCO) \square DHA \square DHS

TOXICITY DATA with REFERENCE:

orl-rat LD50:500 mg/kg WRPCA2 9,119,70

orl-mus LD50:1330 mg/kg SKEZAP 12,520,71

ipr-mus LD50:922 mg/kg JPETAB 99,98,50

orl-dog LDLo:400 mg/kg HBTXAC 5,62,59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental tumorigenic data. Combustible when exposed to heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes.

**MFW750 CAS: 36375-30-1 HR: 3
METHYL- β -ACETOXYETHYL- β -CHLOROETHYL-AMINE**

mf: $C_7H_{14}ClNO_2$ mw: 179.67

SYNS: 2-ACETOXY-2'-CHLORO-N-METHYL-DIETHYLAMINE \square N-ACETOXYETHYL-N-CHLOROETHYLMETHYLAMINE \square 2-((2-CHLOROETHYL)METHYLAMINO)ETHANOL ACETATE \square TL 1428

TOXICITY DATA with REFERENCE:

ihl-mus LCLo:500 mg/m³/10M NDRC** 30101,5,45

scu-mus LD50:20 mg/kg NTIS** PB158-507

ivn-mus LD50:36 mg/kg JPETAB 91,224,47

SAFETY PROFILE: Poison by intravenous and subcutaneous routes. Moderately toxic by inhalation. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x .

**MFX000 CAS: 7790-01-4 HR: 3
METHYLACETOXYMALONONITRILE**

mf: $C_6H_6N_2O_2$ mw: 138.14

PROP: A solid. Mp: 69°, bp: 210°.

SYN: 2-ACETOXYISOSUCCINODINITRILE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:120 mg/kg AIHAAP 23,95,62

ihl-rat LC50:597 mg/m³/4H AMIHBC 4,573,61

orl-rbt LDLo:18 mg/kg AMIHBC 4,573,51

ihl-rbt LCLo:108 ppm/4H AMIHBC 4,573,51

skn-rbt LD50:110 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by ingestion and skin contact. Moderately toxic by inhalation. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

**MFX250 CAS: 105-45-3 HR: 2
METHYL ACETYLACETATE**

mf: $C_5H_8O_3$ mw: 116.13

PROP: Colorless liquid. Mp: 27.5°, bp: 170°, flash p: 170°F, autoign temp: 536°F, d: 1.077, vap d: 4.00. Misc in water.

SYNS: ACETOACETIC METHYL ESTER \square METHYLACETO-ACETATE \square METHYL ACETYLACETONATE \square METHYL-3-OXOBUTYRATE \square 3-OXOBUTANOIC ACID METHYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H JIHTAB 30,63,48

skn-rbt 500 mg/24H MLD FCTXAV 16,637,78

eye-rbt 2 mg SEV AJOPAA 29,1363,46

orl-rat LD50:3228 mg/kg JIHTAB 30,63,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. A skin and severe eye irritant. Combustible when exposed to heat or flame. To fight fire, use foam, CO_2 , dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

**MFX500 CAS: 59665-11-1 HR: D
N-METHYL-N-ACETYLAMINOMETHYLNITROS-AMINE**

mf: $C_4H_9N_3O_2$ mw: 131.16

TOXICITY DATA with REFERENCE:

cyt-ham:fbr 4 g/L/48H MUREAV 48,337,77

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x . See also NITROSAMINES.

**MFX550 CAS: 6813-91-8 HR: 3
O-METHYL-1-ACETYLBENZOCYCLOBUTENE OXIME**

mf: $C_{11}H_{13}NO$ mw: 175.25

SYNS: BICYCLO(4.2.0)OCTA-1,3,5-TRIEN-7-YL METHYL KETONE O-METHYLOXIME \square KETONE, BICYCLO(4.2.0)OCTA-1,3,5-TRIEN-7-YL METHYL, O-METHYLOXIME

TOXICITY DATA with REFERENCE:

ipr-mus LD50:550 mg/kg JMCMAR 9,656,66

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

**MFX560 CAS: 55-92-5 HR: 3
 β -METHYLACETYLCHOLINE**

mf: $C_8H_{18}NO_2$ mw: 160.27

SYNS: ACETYLMETHYLCHOLINE \square ACETYL- β -METHYLCHOLINE \square AMMONIUM, (2-HYDROXYPROPYL)-TRIMETHYL-, ACETATE(ESTER) \square CHOLINE, ACETYL- β -METHYL- \square MCH \square MECHOLIN \square MECHOLINE \square METHACHOLIN \square METHA-

CHOLINE □ 1-PROPANAMINIUM, 2-(ACETYLOXY)-N,N,N-TRIMETHYL-

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:55 mg/kg TXAPA9 1,156,1959
ipr-mus LD50:44 mg/kg AIPTAK 192,88,1971
scu-dog LDLo:4800 µg/kg JPETAB 51,237,1934

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

MF590 CAS: 74-99-7 HR: 3
METHYL ACETYLENE
mf: C₃H₄ mw: 40.07



PROP: Gas. Mp: -104°, lel: 1.7%, bp: -23.3°, vap press: 3876 mm @ 20°, d: 1.787 g/L @ 0°, vap d: 1.38. Mod sol in H₂O; sol in EtOH and Et₂O. IDLH 1700 ppm [10%LEL].

SYNS: ACETYLENE, METHYL- □ ALLYLENE □ PROPINE □ PROPYNE (OSHA)

TOXICITY DATA with REFERENCE:

mmo-esc 10 pph MUREAV 307,335,94
mmo-esc 25 pph MUREAV 307,335,94
ihl-rat LC:>42,000 ppm/6H AMIHAB 15,20,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 1000 ppm

ACGIH TLV: TWA 1000 ppm

DFG MAK: 1000 ppm (1700 mg/m³)

SAFETY PROFILE: This compound is a simple anesthetic and in high concentration is an asphyxiant. Mutation data reported. Dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. Localized heating of liquid-containing cylinders to 95°C may cause an explosion. Product of reaction with silver nitrate ignites at 150°C. A commercial mixture containing 30% propyne in MAPP gas is similar to ethylene in potential hazards and handling requirements. To fight fire, stop flow of gas. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.

MF600 CAS: 59355-75-8 HR: 3
METHYL ACETYLENE-PROPADIENE MIXTURE
DOT: UN 1060

PROP: IDLH 3400 ppm [10%LEL].

SYNS: MAPP (OSHA) □ METHYL ACETYLENE and PROPADIENE MIXTURES, stabilized (DOT)

OSHA PEL: TWA 1000 ppm; STEL 1250 ppm

ACGIH TLV: TWA 1000 ppm; STEL 1250 ppm

DFG MAK: 1000 ppm (1650 mg/m³)

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: A flammable gas mixture. To fight fire, stop flow of gas. When heated to decomposition it emits acrid smoke and irritating fumes.

MF650 CAS: 99834-93-2 HR: 2
METHYL 4-((5-ACETYL-2-FURANYLOXY)-α-ETHYLBENZENEACETATE
mf: C₁₇H₁₈O₅ mw: 302.35

SYN: BENZENEACETIC ACID, 4-((5-ACETYL-2-FURANYLOXY)-α-ETHYL-, METHYL ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1 g/kg IJOCAP 28,993,89

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

MF725 CAS: 72586-67-5 HR: 2
N-METHYL-N'-(p-ACETYLPHENYL)-N-NITROSOUREA

mf: C₁₀H₁₁N₃O₃ mw: 221.24

SYN: 1-(p-ACETYLPHENYL)-3-METHYL-3-NITROSOUREA

TOXICITY DATA with REFERENCE:

mno-sat 33,500 pmol/plate CNREA8 39,5147,79

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

MF750 CAS: 140-03-4 HR: 2
METHYL ACETYL RICINOLEATE

mf: C₂₁H₃₈NO₄ mw: 1306.59

PROP: Crystals. Vap d: 11.9.

SYNS: METHYL-12-ACETOXY-9-OCTADECENOATE □ METHYL-12-ACETOXYOLEATE

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg AJOPAA 29,1363,46

eye-rbt 500 mg/24H MLD 85JCAE -,362,86

orl-mus LD50:34,900 mg/kg IPSTB3 3,93,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. An irritant to the eye and probably the skin and mucous membranes. Combustible when exposed to heat or flame; can react with oxidizing materials. When heated to decomposition it emits toxic fumes of NO_x.

MFY000 CAS: 623-59-6 HR: D
N-METHYL-N'-ACETYLUREA

mf: C₄H₈N₂O₂ mw: 116.14

PROP: Monoclinic crystals from water or prisms from water. Mp: 180°. Very sol in hot water; very sltly sol in hot ether.

TOXICITY DATA with REFERENCE:

cyt-ham:fbr 8 g/L/48H MUREAV 48,337,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MFY750 CAS: 53222-10-9 HR: D
4'-(2-METHYL-9-ACRIDINYLAMINO)METHANE-SULFONANILIDE

mf: C₂₁H₁₉N₃O₂S mw: 377.49

TOXICITY DATA with REFERENCE:

mno-sat 49 µmol/L JMCMA 23,269,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFONATES.

MFZ000 CAS: 53478-39-0 HR: D
4'-(3-METHYL-9-ACRIDINYLAMINO)METHANE-SULFONANILIDEmf: C₂₁H₁₉N₃O₂S mw: 377.49**TOXICITY DATA with REFERENCE:**

mmo-sat 22 µmol/L JMC MAR 23,269,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFONATES.**MGA000 CAS: 53221-79-7 HR: D**
4'-(4-METHYL-9-ACRIDINYLAMINO)METHANE-SULFONANILIDEmf: C₂₁H₁₉N₃O₂S mw: 377.49**TOXICITY DATA with REFERENCE:**

mmo-sat 25 µmol/L JMC MAR 23,269,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFONATES.**MGA250 CAS: 78-85-3 HR: 3**
METHYLACRYLALDEHYDE**DOT:** UN 2396mf: C₄H₆O mw: 70.10**PROP:** Colorless liquid or lachrymatory oil. Mp: -81°C, bp: 68-70°, flash p: 35°F (OC), d: 0.830 @ 20°/4°, vap press: 120 mm @ 20°, vap d: 2.42. Sol in water.**SYNS:** ACROLEIN, 2-METHYL- □ ISOBUTENAL □ METHACRYLALDEHYDE (DOT) □ METHACROLEIN □ METHACRYLIC ALDEHYDE □ METHAKRYLALDEHYD □ α-METHYLACROLEIN □ 2-METHYLACROLEIN □ METHYLACRYLALDEHYDE □ 2-METHYLPROPENAL (CZECH) □ NSC-8260 □ 2-PROPENAL, 2-METHYL-**TOXICITY DATA with REFERENCE:**

skn-rbt 2 mg/24H SEV 85JCAE -,271,86

eye-rbt 50 µg/24H SEV 85JCAE -,271,86

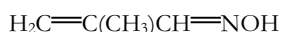
mmo-sat 500 nmol/L MUREAV 148,25,85

mma-sat 500 µmol/L MUREAV 93,305,82

orl-rat LD50:111 mg/kg 28ZPAK -,224,72

ihl-rat LCLo:125 ppm/4H JIHTAB 31,343,49

skn-rbt LD50:364 mg/kg JIHTAB 31,60,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid, Poison**SAFETY PROFILE:** Poison by ingestion and skin contact. Moderately toxic by inhalation. Severe eye and skin irritant. Mutation data reported. Dangerously flammable liquid when exposed to heat, flame, or oxidizers. Can react vigorously with oxidizing materials. To fight fire, use CO₂, alcohol foam, foam, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.**MGA275 CAS: 28051-68-5 HR: 3**
2-METHYL ACRYLALDEHYDE OXIMEmf: C₄H₇NO mw: 85.11**SAFETY PROFILE:** Can form heat-sensitive explosive polymeric peroxides. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES.**MGA300 CAS: 1187-59-3 HR: 2**
N-METHYLACRYLAMIDEmf: C₄H₇NO mw: 85.12**SYNS:** ACRYLAMIDE, N-METHYL- □ 2-PROPENAMIDE, N-METHYL- (9CI)**TOXICITY DATA with REFERENCE:**

spm-mus-orl 596 mg/kg/5W-C ARTODN 59,201,86

orl-rat LD50:476 mg/kg NEZAAQ 34,183,79

orl-mus LD50:477 mg/kg ARTODN 47,179,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**MGA400 CAS: 77402-03-0 HR: 3**
METHYL ACRYLAMIDOGLYCOLATE METHYL ETHERmf: C₇H₁₁NO₄ mw: 173.19**SYNS:** ACETIC ACID, METHOXY((1-OXO-2-PROPENYL)AMINO)-, METHYL ESTER □ 2-METHOXY-2-((1-OXO-2-PROPENYL)AMINO)ACETIC ACID, METHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2091 mg/kg JACTDZ 1,46,90

ihl-rat LC50:>186 mg/m³/4H JACTDZ 1,46,90

skn-rbt LD50:>2 g/kg JACTDZ 1,46,90

SAFETY PROFILE: A poison by inhalation. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**MGA500 CAS: 96-33-3 HR: 3**
METHYL ACRYLATE**DOT:** UN 1919mf: C₄H₆O₂ mw: 86.10**PROP:** Colorless liquid; acrid odor. D: 0.9561 @ 20°/4°, mp: -76.5°, bp: 85° @ 608 mm, lel: 2.8%, uel: 25%, fp: -75°, flash p: 27°F (OC), vap press: 100 mm @ 28°, vap d: 2.97. Sol in alc and ether. IDLH 250 ppm.**SYNS:** ACRYLATE de METHYLE (FRENCH) □ ACRYLIC ACID METHYL ESTER (MAK) □ ACRYLSAEUREMETHYLESTER (GERMAN) □ CURITHANE 103 □ METHOXYCARBONYLETHYLENE □ METHYLACRYLAAT (DUTCH) □ METHYLACRYLAT (GERMAN) □ METHYL ACRYLATE, INHIBITED (DOT) □ METHYL PROPENATE □ METHYL PROPENOATE □ METHYL-2-PROPENOATE □ METILACRILATO (ITALIAN) □ PROPENOIC ACID METHYL ESTER □ 2-PROPENOIC ACID METHYL ESTER**TOXICITY DATA with REFERENCE:**

eye-rat 578 ppm/49H-I JIHTAB 31,317,49

skn-rbt 100%/1M imm JIHTAB 31,317,49

skn-rbt 10 mg/24H JIHTAB 30,63,48

eye-rbt 19 mg AJOPAA 29,1363,46

mma-mus:lym 22 mg/L ENMUDM 8(Suppl 6),4,86

cyt-mus:lym 22 mg/L ENMUDM 8(Suppl 6),4,86

ihl-hmn TCLo:75 ppm:NOSE,EYE,PUL 34ZLAG -,75,69

orl-rat LD50:300 mg/kg JIHTAB 30,63,48

ihl-rat LC50:1350 ppm/4H JTEHD6 16,811,85

ipr-rat LD50:325 mg/kg AMPMAR 36,58,75

orl-mus LD50:827 mg/kg TOLED5 11,125,82

ihl-mus LCLo:9300 mg/m³ GISAAA 20(8),19,55

ipr-mus LD50:254 mg/kg JDREAF 51,526,72
 orl-rbt LDLo:280 mg/kg JIHTAB 31,317,49
 ihl-rbt LCLo:2522 ppm/1H JIHTAB 31,317,49
 skn-rbt LD50:1243 mg/kg JIHTAB 30,63,48
 orl-rat TDLo:109 g/kg/2Y-C TXAPA9 6,29,64
 ihl-rat TCLo:100 µg/m³/24H/14W-C GISAAA
 32(10),3,67
 ihl-rat TCLo:71 mg/m³/3H/17W-I GISAAA 45(1),34,80
 orl-dog TDLo:1825 mg/kg/2Y-C TXAPA9 6,29,64

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 39,99,86; Human Inadequate Evidence IMEMDT 19,47,79. Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 10 ppm (skin)

ACGIH TLV: TWA 2 ppm (skin, sensitizer); Not Classifiable as a Human Carcinogen

DFG MAK: 5 ppm (18 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. Mildly toxic by inhalation. Human systemic effects by inhalation: olfaction effects, eye effects, and respiratory effects. A skin and eye irritant. Mutation data reported. Chronic exposure has produced injury to lungs, liver, and kidneys in experimental animals. Questionable carcinogen. Dangerously flammable when exposed to heat, flame, or oxidizers. Dangerous explosion hazard in the form of vapor when exposed to heat, sparks, or flame. Can react vigorously with oxidizing materials. A storage hazard; it forms peroxides, which may initiate exothermic polymerization. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Methyl Acrylate S38.

MGA750 CAS: 126-98-7 HR: 3
METHYLACRYLONITRILE

mf: C₄H₅N mw: 67.10

PROP: Colorless liquid. Mp: -36°, bp: 90.3°, d: 0.805, vap press: 40 mm @ 12.8°, flash p: 55°F. Insol in water.

SYNS: 2-CYANOPROPENE-1 □ ISOPROPENE CYANIDE □ ISOPROPENYLNITRILE □ METHACRYLONITRILE, inhibited □ α-METHYLACRYLONITRILE □ 2-METHYLPROPENENITRILE □ RCRA WASTE NUMBER U152 □ USAF ST-40

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 85JCAE -,901,86
 orl-rat LD50:120 mg/kg GTPZAB 29(5),37,85
 orl-rbt LD50:16 mg/kg GTPZAB 29(5),37,85
 ihl-rat LC50:328 ppm/4H AIHAAP 29,202,68
 orl-mus LDLo:15 mg/kg SCCUR* -,6,61
 ihl-mus LC50:36 ppm/4H AIHAAP 29,202,68
 ipr-mus LDLo:15 mg/kg JIHTAB 31,113,49
 ihl-rbt LC50:37 ppm/4H AIHAAP 29,202,68
 skn-rbt LD50:320 mg/kg AIHAAP 29,202,68
 skn-rat LD50:2080 mg/kg GTPZAB 29(5),37,85
 ihl-gpg LC50:88 ppm/4H AIHAAP 29,202,68

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

OSHA PEL: TWA 1 ppm (skin)

ACGIH TLV: TWA 1 ppm (skin)

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison

SAFETY PROFILE: Poison by ingestion, inhalation, skin contact, and intraperitoneal routes. An eye irritant. A dangerous fire hazard when exposed to heat, flame, or sparks. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

MGA850 CAS: 109-87-5 HR: 3
METHYLAL

DOT: UN 1234

mf: C₃H₈O₂ mw: 76.11

PROP: Colorless volatile liquid; pungent odor. Mp: -104.8°, bp: 42.3°, d: 0.864 @ 20°/4°, vap press: 330 mm @ 20°, vap d: 2.63, autoign temp: 459°F, flash p: -0.4°F. IDLH 2200 ppm [10%LEL].

SYNS: ANESTHENYL □ DIMETHOXYMETHANE □ DIMETHYL FORMAL □ FORMAL □ FORMALDEHYDE □ DIMETHYLACETAL □ METHYLENE DIMETHYL ETHER □ METYLAL (POLISH)

TOXICITY DATA with REFERENCE:

ihl-mus LC50:57 g/m³/7H 85JCAE -,259,86
 ihl-rat LC50:15,000 ppm NPRI* 1,73,74
 orl-rbt LD50:5708 mg/kg PSEBAA 29,730,32
 scu-gpg LDLo:3013 mg/kg BJIMAG 8,279,51

OSHA PEL: TWA 1000 ppm

ACGIH TLV: TWA 1000 ppm

DFG MAK: 1000 ppm (3200 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by subcutaneous route. Mildly toxic by ingestion and inhalation. Can cause injury to lungs, liver, kidneys, and the heart. A narcotic and anesthetic in high concentrations. A very dangerous fire hazard when exposed to heat, flame, or oxidizers. Moderately explosive when exposed to heat or flame. May ignite or explode when heated with oxygen. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Methylal, 1611.

MGB000 CAS: 62-57-7 HR: 2
2-METHYLALANINE

mf: C₄H₉NO₂ mw: 103.14

PROP: Sltly sol in EtOH; insol in Et₂O.

SYNS: AIB □ α-AMINOISOBUTANOIC ACID □ α-AMINOISOBUTYRIC ACID □ 2-AMINOISOBUTYRIC ACID □ 2-AMINO-2-METHYLPROPANOIC ACID □ α,α-DIMETHYLGLYCINE □ α-METHYLALANINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:750 mg/kg NTIS** AD691-490

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.

MGB150 CAS: 67-56-1 HR: 3

METHYL ALCOHOL**DOT:** UN 1230mf: CH₄O mw: 32.05

PROP: Clear, colorless, very mobile liquid; slt alcoholic odor when pure; crude material may have a repulsive pungent odor. Bp: 64.8°, lel: 6.0%, uel: 36.5%, ULC: 70, fp: -97.8°, d: 0.7915 @ 20°/4°, flash p: 54°F, autoign temp: 878°F, vap press: 100 mm @ 21.2°, vap d: 1.11. Misc in water, ethanol, ether, benzene, ketones, and most other org solvs. Part misc in pet ether. IDLH 6000 ppm.

SYNS: ALCOOL METHYLIQUE (FRENCH) □ ALCOOL METILICO (ITALIAN) □ CARBINOL □ COLONIAL SPIRIT □ COLUMBIAN SPIRITS (DOT) □ METANOLO (ITALIAN) □ METHANOL □ METHYLALKOHOL (GERMAN) □ METHYL HYDROXIDE □ METHYLOL □ METYLOWY ALKOHOL (POLISH) □ MONOHYDROXYMETHANE □ PYROXYLIC SPIRIT □ RCRA WASTE NUMBER U154 □ WOOD ALCOHOL (DOT) □ WOOD NAPHTHA □ WOOD SPIRIT

TOXICITY DATA with REFERENCE:

skn-rbt 20 mg/24H MOD 85JCAE -,187,86
 eye-rbt 100 mg/24H MOD 85JCAE -,187,86
 dni-hmn:lym 300 mmol/L PNASA6 79,1171,82
 mma-mus:lym 7900 mg/L ENMUDM 7(Suppl 3),10,85
 orl-man LDLo:6422 mg/kg:CNS,PUL,GIT CMAJAX 128,14,83
 orl-man TDLo:3429 mg/kg:EYE AMSVAZ 212,5,82
 orl-hmn LDLo:428 mg/kg:CNS,PUL NPRI* 1,74,74
 orl-hmn LDLo:143 mg/kg:EYE,PUL,GIT 34ZIAG -,382,69
 orl-wmn TDLo:4 g/kg:EYE,PUL,GIT AMSVAZ 212,5,82
 ihl-hmn TCLo:86,000 mg/m³:EYE,PUL AGGHAR 5,1,33
 ihl-hmn TCLo:300 ppm:EYE,CNS,PUL NPRI* 1,74,74
 orl-wmn TDLo:4 g/kg AMSVAZ 212,5,82
 orl-rat LD50:5628 mg/kg GTPZAB 19(11),27,75
 ihl-rat LC50:64,000 ppm/4H NPRI* 1,74,74
 ipr-rat LD50:7529 mg/kg EVHPAZ 61,321,85
 ivn-rat LD50:2131 mg/kg EVHPAZ 61,321,85
 orl-mus LD50:7300 mg/kg TXCYAC 25,271,82
 ipr-mus LD50:10,765 mg/kg EVHPAZ 61,321,85
 scu-mus LD50:9800 mg/kg TXAPA9 18,185,71
 ivn-mus LD50:4710 mg/kg EVHPAZ 61,321,85
 orl-mky LDLo:7000 mg/kg TXAPA9 3,202,61
 ihl-mky LCLo:1000 ppm IECHAD 23,931,31
 skn-mky LDLo:393 mg/kg IECHAD 23,931,31

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 200 ppm; STEL 250 ppm (skin)

ACGIH TLV: TWA 200 ppm; STEL 250 ppm (skin); BEI: 15 mg/L of methanol in urine at end of shift

DFG MAK: 200 ppm (270 mg/m³); BAT: 30 mg/L in urine at end of shift

NIOSH REL: TWA 200 ppm; CL 800 ppm/15M

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison

SAFETY PROFILE: A human poison by ingestion. Poison experimentally by skin contact. Moderately toxic experimentally by intravenous and intraperitoneal routes. Mildly toxic by inhalation. Human systemic effects: changes in circulation, cough, dyspnea, headache, lachrymation, nausea or vomiting, optic nerve neuropathy, respiratory effects, visual field changes. An experimental

teratogen. Experimental reproductive effects. An eye and skin irritant. Human mutation data reported. A narcotic.

Its main toxic effect is exerted upon the nervous system, particularly the optic nerves and possibly the retinae. The condition can progress to permanent blindness. Once absorbed, methanol is only very slowly eliminated. Coma resulting from massive exposures may last as long as 2–4 days. In the body, the products formed by its oxidation are formaldehyde and formic acid, both of which are toxic. Because of the slow elimination, methanol should be regarded as a cumulative poison. Though single exposures to fumes may cause no harmful effect, daily exposure may result in the accumulation of sufficient methanol in the body to cause illness. Death from ingestion of less than 30 mL has been reported. A common air contaminant.

Flammable liquid. Dangerous fire hazard when exposed to heat, flame, or oxidizers. Explosive in the form of vapor when exposed to heat or flame. Explosive reaction with chloroform + sodium methoxide, diethyl zinc. Violent reaction with alkyl aluminum salts, acetyl bromide, chloroform + sodium hydroxide, CrO₃, cyanuric chloride, (I + ethanol + HgO), Pb(ClO₄)₂, HClO₄, P₂O₅, (KOH + CHCl₃), nitric acid. Incompatible with beryllium dihydride, metals (e.g., potassium, magnesium), oxidants (e.g., barium perchlorate, bromine, sodium hypochlorite, chlorine, hydrogen peroxide), potassium tert-butoxide, carbon tetrachloride + metals (e.g., aluminum, magnesium, zinc), dichloromethane. Dangerous; can react vigorously with oxidizing materials. To fight fire, use alcohol foam. When heated to decomposition it emits acid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Methanol, 2000.

MGC200**HR: 2****(±)-2-(p-((2-METHYLALLYL)AMINO)PHENYL)-PROPIONIC ACID**mf: C₁₃H₁₇NO₂ mw: 219.31

SYNS: (±)-ALMINOPROFEN □ BENZENEACETIC ACID, α-METHYL-4-((2-METHYL-2-PROPENYL)AMINO)-, (±)- □ EB-382

TOXICITY DATA with REFERENCE:

orl-rat LD50:550 mg/kg YACHDS 14,2093,86
 ipr-rat LD50:700 mg/kg YACHDS 14,2093,86
 scu-rat LD50:660 mg/kg YACHDS 14,2093,86
 orl-mus LD50:1520 mg/kg YACHDS 14,2093,86
 ipr-mus LD50:705 mg/kg YACHDS 14,2093,86

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

MGC225**CAS: 12263-85-3****HR: 3****METHYL ALUMINUM SESQUIBROMIDE**mf: C₃H₉Al₂Br₃ mw: 338.81

PROP: Colorless liquid. Bp: 100–120° @ 50 mm.

SYNS: ALUMINUM, TRIBROMOTRIMETHYLDI- □ METHYL ALUMINIUM SESQUIBROMIDE □ METHYL ALUMINUM SESQUIBROMIDE □ TRIBROMOTRIMETHYLDIALUMINUM

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 2 mg(Al)/m³

SAFETY PROFILE: A flammable solid. Danger from spontaneous combustion. When heated to decomposition it emits toxic fumes of Br^- .

MGC230 CAS: 12542-85-7 HR: 3
METHYL ALUMINUM SESQUICHLORIDE

mf: $\text{C}_3\text{H}_9\text{Al}_2\text{Cl}_3$ mw: 205.43

PROP: Clear liquid. D: 0.877, flash p: 1°F , bp: $120\text{--}140^\circ$.

SYNS: ALUMINUM, TRICHLOROTRIMETHYLDI- □ METHYL ALUMINIUM SESQUICHLORIDE □ TRICHLOROTRIMETHYLDIALUMINUM

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 2 mg(Al)/ m^3

SAFETY PROFILE: A flammable liquid. Danger from spontaneous combustion. When heated to decomposition it emits toxic fumes of Cl^- .

MGC250 CAS: 74-89-5 HR: 3
METHYLAMINE

DOT: UN 1061/UN 1235

mf: CH_5N mw: 31.07

PROP: Colorless, flammable gas or liquid; powerful ammonia-like odor. Frequently encountered as strong aq soln. Bp: 6.3° , lel: 4.95%, uel: 20.75%, mp: -93.5° , flash p: 32°F (CC), d: 0.662 @ $20^\circ/4^\circ$, autoign temp: 806°F , vap d: 1.07. Fuming liquid when liquefied: d: 0.699 @ $-10.8^\circ/4^\circ$. Sol in alc; misc with ether. IDLH 100 ppm.

SYNS: AMINOMETHANE □ CARBINAMINE □ MERCURIALIN □ METHANAMINE (9CI) □ METHYLAMINE (ACGIH, OSHA) □ METHYLAMINE, anhydrous (UN 1061) (DOT) □ METHYLAMINE, aqueous solution (UN 1235) (DOT) □ METHYLAMINEN (DUTCH) □ METILAMINE (ITALIAN) □ METYLOAMINA (POLISH) □ MONOMETHYLAMINE

TOXICITY DATA with REFERENCE:

skn-gpg 100 mg open SEV CODEDG 6,140,80
dlt-rat-ihl 10 $\mu\text{g}/\text{m}^3$ GISAAA 46(5),7,81
scu-rat LDLo:200 mg/kg HBAMAK 4,1289,35
ihl-mus LC50:2400 mg/ $\text{m}^3/2\text{H}$ 85GMAT -,80,82
scu-mus LDLo:2500 mg/kg MEIEDD 11,949,89
scu-gpg LDLo:200 mg/kg HBAMAK 4,1289,35
scu-frg LDLo:2000 mg/kg 27ZWAY 1,250,23
ihl-mam LC50:2400 mg/ m^3 TPKVAL 14,80,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 10 ppm

ACGIH TLV: TWA 5 ppm; STEL 15 ppm

DFG MAK: 10 ppm (13 mg/ m^3)

DOT CLASSIFICATION: 2.3; Label: Poison Gas, Flammable Gas (UN 1061); DOT Class: 3; Label: Flammable Liquid, Corrosive (UN 1235)

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by inhalation. A severe skin irritant. Mutation data reported. A strong base. Flammable gas at ordinary temperature and pressure. Very dangerous fire hazard when exposed to heat, flame, or sparks. Explosive when exposed to heat or flame. To fight fire, stop flow of gas. Forms an explosive mixture with nitromethane. When heated to decomposition it emits toxic fumes of NO_x . See also AMINES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #40.

MGC300 CAS: 14147-71-8 HR: 3
METHYLAMINE, compd. with
TRINITROMETHANE

mf: $\text{CH}_5\text{N}\cdot\text{CHN}_3\text{O}_6$ mw: 182.12

SYNS: METHANAMINE, compd. with TRINITROMETHANE (1:1) □ METHYLAMINE NITROFORM (DOT)

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: A reactive substance forbidden for transport. When heated to decomposition it emits toxic vapors of NO_x .

MGC350 CAS: 99-45-6 HR: 3
4-METHYLAMINOACETOCATECHOL

mf: $\text{C}_9\text{H}_{11}\text{NO}_3$ mw: 181.21

PROP: Needles. Decomp at $235\text{--}236^\circ$. Sparingly sol in water, alc, ether.

SYNS: ADRENALONE □ ADRENON □ ADRENONE □ CHEMOSAN □ 3,4-DIHYDROXY- α -METHYLAMINOACETOPHENONE □ 3,4'-DIHYDROXY-2-(METHYLAMINO)ACETOPHENONE □ 1-(3,4-DIHYDROXYPHENYL)-2-(METHYLAMINO)-ETHANONE (9CI) □ HAEMODAN □ KEPHRINE □ KETOGAZE □ METHAMINOACETOCATECHOL □ 4-METHYLAMINO-ACETOPYROCATECHOL □ REMESTYP □ STRYPHNON □ STRYPHNONE □ STYPHNONE □ STYPNION □ U 2134

TOXICITY DATA with REFERENCE:

dnd-omi 250 $\mu\text{mol}/\text{L}$ ABCHA6 42,1019,78
dnd-rat:lng 250 $\mu\text{mol}/\text{L}$ ABCHA6 42,1019,78
ivn-mus LD50:275 mg/kg AEPPAE 226,493,55

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

MGD000 CAS: 37045-40-2 HR: 3
9-(p-(METHYLAMINO)ANILINO)ACRIDINE
HYDROBROMIDE

mf: $\text{C}_{20}\text{H}_{17}\text{N}_3\cdot\text{BrH}$ mw: 380.32

TOXICITY DATA with REFERENCE:

mma-sat 82 $\mu\text{mol}/\text{L}$ JMCMAR 22,251,79
ipr-mus LD10:70 mg/kg JMCMAR 22,251,79

SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HBr . See also BROMIDES.

MGD100 CAS: 87425-02-3 HR: 3
4-METHYLAMINO BENZENE-1,3-BIS(SULFONYL
AZIDE)

mf: $\text{C}_7\text{H}_7\text{N}_7\text{O}_4\text{S}_2$ mw: 317.30
 $\text{CH}_3\text{NHC}_6\text{H}_3(\text{SO}_2\text{N}_3)_2$

SAFETY PROFILE: Explodes when heated. Upon decomposition it emits toxic fumes of SO_x and NO_x . See also AZIDES.

MGD200 CAS: 700-07-2 HR: 3
3-(METHYLAMINO)-2,1-BENZISOTHIAZOLE

mf: $\text{C}_8\text{H}_8\text{N}_2\text{S}$ mw: 166.24

SYN: CI 624

TOXICITY DATA with REFERENCE:

orl-rat LD50:400 mg/kg JPETAB 153,292,66
 ipr-rat LD50:336 mg/kg JPETAB 153,292,66
 scu-rat LD50:1445 mg/kg JPETAB 153,292,66

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

MGD210 CAS: 7765-88-0 HR: 3
3-(METHYLAMINO)-2,1-BENZISOTHIAZOLE
HYDROCHLORIDE

mf: C₈H₈N₂S•ClH mw: 200.70

SYN: CI 624 HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:576 mg/kg JPETAB 153,292,66
 ipr-rat LD50:346 mg/kg JPETAB 153,292,66
 scu-rat LD50:599 mg/kg JPETAB 153,292,66

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

MGD500 CAS: 2536-91-6 HR: 3
6-METHYL-2-AMINO BENZOTHIAZOLE

mf: C₈H₈N₂S mw: 164.24

SYNS: 2-AMINO-6-METHYLBENZOTHIAZOLE □ SKF 1045

TOXICITY DATA with REFERENCE:

ivn-mus LD50:84 mg/kg JPETAB 105,486,52

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.

MGD750 CAS: 64036-72-2 HR: 2
4-METHYL-2-AMINO BENZOTHIAZOLE
HYDROCHLORIDE

mf: C₈H₈N₂S•ClH mw: 200.70

SYN: 2-AMINO-4-METHYL-BENZOTHIAZOLE, HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:500 mg/kg JPETAB 90,260,47

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MGE000 CAS: 63019-98-7 HR: 2
3-METHYL-4-AMINO BIPHENYL

mf: C₁₃H₁₃N mw: 183.27

PROP: A solid. Mp: 43°, bp: 190–191° @ 15 mm.

SYN: 3-METHYL-4-AMINODIPHENYL

TOXICITY DATA with REFERENCE:

scu-rat TDLo:1200 mg/kg/W-I:ETA BMBUAQ 14,141,58

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

MGE100 CAS: 2275-61-8 HR: 3
METHYLAMINO-BIS(1-AZIRIDINYL)PHOSPHINE

OXIDE

mf: C₅H₁₂N₃OP mw: 161.17

PROP: A solid. Mp: 105.5–106.5°.

SYNS: AI 3-51254 □ P,P-BIS(1-AZIRIDINYL)-N-METHYLPHOSPHINIC AMIDE □ ENT 51,254 □ PHOSPHINIC AMIDE, P,P-BIS(1-AZIRIDINYL)-N-METHYL- □ PHOSPHINE OXIDE, BIS(1-AZIRIDINYL)METHYLAMINO-

TOXICITY DATA with REFERENCE:

cyt-mus-par 6 mmol/kg FOBLAN 20,1,74

dlt-mus-ipr 500 µg/kg FOBLAN 20,1,74

ipr-mus TDLo:500 µg/kg (male 1D pre):REP FOBLAN 20,1,74

ipr-mus LDLo:18 mg/kg FATOAO 28,70,65

orl-qal LD50:237 mg/kg JRPFA4 48,371,76

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and PO_x.

MGE200 CAS: 62232-46-6 HR: 3
2-(4-METHYLAMINO BUTOXY)DIPHENYL-
METHANE HYDROCHLORIDE

mf: C₁₈H₂₃NO•ClH mw: 305.88

SYNS: ALNERT □ 2-BENZYL-1-(4-(METHYLAMINO)BUTOXY)BENZENE HYDROCHLORIDE □ 4-(o-BENZYLPHENOXY)-N-METHYLBUTYLAMINE HYDROCHLORIDE □ BIFEMELANE HYDROCHLORIDE □ 1-BUTANAMINE, N-METHYL-4-(2-(PHENYLMETHYL)PHENOXY)-, HYDROCHLORIDE □ BUTYLAMINE, N-METHYL-4-(o-BENZYLPHENOXY)-, HYDROCHLORIDE □ CELEPORT □ E-0687 □ MCI-2016 □ N-METHYL-4-(2-(PHENYLMETHYL)PHENOXY)-1-BUTANAMINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1080 mg/kg ARZNAD 31,1278,1981

ipr-rat LD50:130 mg/kg ARZNAD 31,1278,1981

scu-rat LD50:513 mg/kg OYYAA2 31,587,1986

ivn-rat LD50:40,400 µg/kg OYYAA2 31,587,1986

orl-mus LD50:400 mg/kg CCCCAK 53,1307,1988

ipr-mus LD50:105 mg/kg YACHDS 16,1181,1988

scu-mus LD50:313 mg/kg OYYAA2 31,587,1986

ivn-mus LD50:35,300 µg/kg OYYAA2 31,587,1986

orl-dog LD50:151 mg/kg SHNSAS 23,43,1986

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⁻.

MGF000 CAS: 63917-71-5 HR: 3
METHYLAMINOCOLCHICIDE

mf: C₂₂H₂₆N₂O₅ mw: 398.50

SYN: METHYLCOLCHAMINONE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:400 mg/kg COREAF 241,1889,55

ivn-mus LD50:20 mg/kg COREAF 241,1889,55

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

MGF250 CAS: 35271-57-9 HR: 3
4-METHYLAMINO CRESOL-2-SULFATE

mf: C₁₆H₂₂N₂O₂•H₂O₄S mw: 372.48

SYN: 4-(METHYLAMINO)-o-CRESOL, HYDROGEN SULFATE (2:1)

TOXICITY DATA with REFERENCE:

orl-rat LDLo:400 mg/kg KODAK* -,71

ipr-rat LDLo:25 mg/kg KODAK* -,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MGF500 CAS: 63019-97-6 HR: 2

2-METHYL-4-AMINODIPHENYL

mf: C₁₃H₁₃N mw: 183.27

PROP: Bp: 178° @ 12 mm.

SYN: 2-METHYL-4-PHENYLANILINE

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

MGF750 CAS: 1204-78-0 HR: 2

4'-METHYL-4-AMINODIPHENYL

mf: C₁₃H₁₃N mw: 183.27

PROP: Crystals from pet ether. Mp: 99°, bp: 190° @ 18 mm.

SYN: 4'-METHYLBIPHENYLAMINE

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

MGG000 CAS: 109-83-1 HR: 3

2-METHYLAMINOETHANOL

mf: C₃H₉NO mw: 75.11

PROP: Viscous liquid; fishy odor. Corrosive to skin, cork, and metals. A strong base. D: 0.9, vap d: 2.9, bp: 156°, flash p: 165°F (OC). Misc with water, alc, and ether.

SYNS: β -(METHYLAMINO)ETHANOL \square N-METHYLAMINOETHANOL \square N-METHYLETHANOLAMINE \square METHYLETHYLOLAMINE \square METHYL(β -HYDROXYETHYL)AMINE \square MONOMETHYL-AMINOETHANOL (GERMAN) \square MONOMETHYLAMINOETHANOL \square N-MONOMETHYL-AMINOETHANOL \square USAF DO-50

TOXICITY DATA with REFERENCE:

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

skn-rbt 470 mg open MLD UCDS** 1/20/72

eye-rbt 250 μ g open SEV AMIHBC 10,61,54

orl-rat LD50:2340 mg/kg AMIHBC 10,61,54

ipr-rat LD50:1330 mg/kg TXAPA9 12,486,68

ipr-mus LD50:125 mg/kg NTIS** AD277-689

scu-mus LD50:1802 mg/kg AEPPAE 225,428,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. A corrosive irritant to skin, eyes, and mucous membranes. Flammable when exposed to heat, flame, or oxidizers. To fight fire, use alcohol foam. When heated to decomposition it emits toxic fumes such as NO_x. See also AMINES and ALCOHOLS.

MGG250 CAS: 2475-46-9 HR: 2

1-METHYLAMINO-4-ETHANOLAMINO-**ANTHRAQUINONE**

mf: C₁₇H₁₆N₂O₃ mw: 296.35

SYNS: ACETATE BRILLIANT BLUE 4B \square ACETOQUINONE LIGHT PURE BLUE R \square ALTOCYL BRILLIANT BLUE B \square AMACEL BLUE BNN \square AMACEL BRILLIANT BLUE B \square ARTISIL BLUE BSG \square CALCOSYN SAPPHIRE BLUE R \square CELANTHRENE BRILLIANT BLUE \square CELLITON BLUE FFR \square CELUTATE BLUE BLT \square C.I. 61505 \square CIBACET BRILLIANT BLUE BG NEW \square C.I. DISPERSE BLUE 3 \square CILLA FAST BLUE FFR \square DIACELLITON FAST BRILLIANT BLUE B \square DISPERSE BLUE K \square DURANOL BRILLIANT BLUE B \square EASTMAN BLUE BNN \square FENACET AST BLUE FF \square 4-HYDROXYETHYLAMINO-1-METHYLAMINOANTHRAQUINONE \square INTERCHEM ACETATE BLUE B \square KAYALON FAST BLUE FN \square LURAFIX BLUE FFR \square 1-MA-40EAA (RUSSIAN) \square 1-METHYLAMINO-4-(β -HYDROXYETHYLAMINO)ANTHRAQUINONE \square 1-METHYL-AMINO-4-OXYETHYLAMINOANTHRAQUINONE (RUSSIAN) \square MICROSETILE BLUE FF \square MIKETON BRILLIANT BLUE B \square MODR OSTACETOVA P3R (CZECH) \square NACELAN BLUE KLT \square NYLOQUINONE PURE BLUE \square PERLITON BLUE FFR \square SERINYL HOSIERY BLUE \square SERISOL BRILLIANT BLUE BG \square SETACYL BLUE BN \square SUPRACET BRILLIANT BLUE BG \square TRANSETILE BLUE P-FER

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,245,72

orl-rat LD50:3000 mg/kg 28ZPAK -,245,72

ipr-rat LD50:700 mg/kg GTPZAB 21(12),27,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MGG300 CAS: 73-66-5 HR: 3

2-METHYL-4-AMINO-5-ETHOXYMETHYL-PYRIMIDINE

mf: C₈H₁₃N₃O mw: 167.24

SYNS: 4-AMINO-5-(ETHOXYMETHYL)-2-METHYLPYRIMIDINE \square PYRIMIDINE, 4-AMINO-5-(ETHOXYMETHYL)-2-METHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:1450 mg/kg 85GMAT -,81,82

orl-mus LD50:239 mg/kg 85GMAT -,81,82

SAFETY PROFILE: A poison by ingestion.

Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

MGH250 CAS: 63991-26-4 HR: 3

 α -(1-METHYLAMINOETHYL)BENZYL ALCOHOL HYDROCHLORIDE

mf: C₁₀H₁₅NO \cdot ClH mw: 201.72

SYN: EPHEDRINHYDROCHLORID (GERMAN)

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:46 mg/kg:CVS,CNS KLWOAZ 17,1580,38

unr-mus LD50:96 mg/kg JPETAB 92,283,48

SAFETY PROFILE: Poison by an unspecified route. Human systemic effects by ingestion: altered sleep time, anorexia, change in cardiac rate. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

MGH750 CAS: 28089-05-6 HR: 3

2-METHYL-3-(β -AMINOETHYL)-5-METHOXY-

BENZOFURANmf: C₁₂H₁₄NO₂•ClH mw: 240.73**SYN:** 3-(2-AMINOETHYL)-5-METHOXY-2-METHYLBENZO-FURAN, HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

ivn-rat LDLo:39 mg/kg RPTOAN 33,246,70

ivn-mus LD50:50 mg/kg RPTOAN 33,246,70

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of HCl and NO_x.**MGH800 CAS: 1668-54-8 HR: 2
2-METHYL-4-AMINO-6-METHOXY-S-TRIAZINE**mf: C₅H₈N₄O mw: 140.17**SYNS:** CV 399 □ 4-METHOXY-6-METHYL-1,3,5-TRIAZIN-2-AMINE □ s-TRIAZINE, 2-AMINO-4-METHOXY-6-METHYL- □ 1,3,5-TRIAZINE-2-AMINE, 4-METHOXY-6-METHYL-(9Cl)**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1010 mg/kg NYKZAU 66,64,70

ipr-mus LD50:880 mg/kg NYKZAU 66,64,70

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 NO_x.**MGJ600 HR: 3
N-(α-METHYLAMINOPHENETHYL)PHENOL
HYDROCHLORIDE**mf: C₁₅H₁₇NO•ClH mw: 263.79**SYNS:** 3-(α-METHYLAMINOPHENETHYL)PHENOL HYDROCHLORIDE □ N-METHYL-1-(3-HYDROXYPHENYL)-2-PHENYLETHYLAMINE HYDROCHLORIDE □ WIN 6703**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1830 mg/kg AIPTAK 88,482,52

ivn-rat LD50:54 mg/kg AIPTAK 88,482,52

orl-mus LD50:460 mg/kg AIPTAK 88,482,52

scu-mus LDLo:443 mg/kg JAPMA8 39,354,50

ivn-mus LD50:46 mg/kg AIPTAK 88,482,52

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.**MGJ750 CAS: 55-55-0 HR: 3
p-METHYLAMINOPHENOLSULFATE**mf: C₁₄H₂₀N₂O₆S mw: 344.38**PROP:** Crystals. Needles from water. Discolors in air. Mp: approx 260° (decomp). Sltly sol in cold water and alc; insol in ether; mod sol in boiling H₂O. Keep well closed and protected from light.**SYNS:** ELON □ GENOL □ GRAPHOL □ METATYL □ METHYL-p-AMINOPHENOL SULFATE □ p-(METHYLAMINO)-PHENOL SULFATE (2:1) (SALT) □ PHOTOL □ RHODOL □ VEROL**TOXICITY DATA with REFERENCE:**

mma-sat 333 µg/plate NTPTB* JAN 82

orl-rat LDLo:200 mg/kg KODAK* -,71

ipr-rat LDLo:50 mg/kg KODAK* -,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Poison by ingestion and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.**MGJ775 CAS: 96525-23-4 HR: 2
(+)-5-(METHYLAMINO)-2-PHENYL-4-(3-
(TRIFLUOROMETHYL)PHENYL)-3(2H)-
FURANONE**mf: C₁₈H₁₄F₃NO₂ mw: 333.33**SYNS:** BENCHMARK □ FLURTAMONE □ 3(2H)-FURANONE, 5-(METHYLAMINO)-2-PHENYL-4-(3-(TRIFLUOROMETHYL)-PHENYL)-, (+)- □ RE 40885**TOXICITY DATA with REFERENCE:**

orl-mus TDLo:229 g/kg/78W-C:NEO EPASR* 8EHQ-1290-1144

orl-rat LD50:>500 mg/kg FMCHA2 -,C40,91

skn-rat LD50:>500 mg/kg FMCHA2 -,C40,91

SAFETY PROFILE: Moderately toxic by ingestion and skin contact routes. Questionable carcinogen with neoplastigenic data reported. When heated to decomposition it emits toxic vapors of NO_x and F⁻.**MGJ800 CAS: 10017-37-5 HR: 2
2-METHYL-2-AMINOPROPANE
HYDROCHLORIDE**mf: C₄H₁₁N•ClH mw: 109.62**SYNS:** tert-BUTYLAMMONIUM CHLORIDE □ tert-BUTYL-AMINE, HYDROCHLORIDE □ 2-PROPANAMINE, 2-METHYL-, HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1750 mg/kg AITEAT 10,905,62

ipr-mus LD50:700 mg/kg AITEAT 10,905,62

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 NO_x and HCl.**MGK750 CAS: 52777-39-6 HR: 3
1-(3-METHYLAMINOPROPYL)-2-ADAMANTAN-
OL HYDROCHLORIDE**mf: C₁₄H₂₅NO•ClH mw: 259.86**SYNS:** 3-(2-HYDROXY-1-ADAMANTYL)-N-METHYLPROPYLAMINE HYDROCHLORIDE □ 2-HYDROXY-N-METHYL-1-ADAMANTANEPROPANAMINE HYDROCHLORIDE □ 2-HYDROXY-1-(3-METHYLAMINOPROPYL)ADAMANTANE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:300 mg/kg JMCMA 17,602,74

ipr-mus LD50:150 mg/kg JMCMA 17,602,74

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl.**MGL500 CAS: 10083-53-1 HR: 3
4-(3'-METHYLAMINOPROPYLIDENE)-9,10-
DIHYDRO-4H-BENZO(4,5)CYCLOHEPTA(1,2-
b)THIOPHEN**mf: C₁₇H₁₉NS mw: 269.43**SYN:** IBD 78**TOXICITY DATA with REFERENCE:**

orl-rat LD50:500 mg/kg 27ZQAG -,321,72
 ivn-rat LD50:28 mg/kg 27ZQAG -,321,72
 orl-mus LD50:420 mg/kg 27ZQAG -,321,72
 ivn-mus LD50:34 mg/kg 27ZQAG -,321,72
 orl-rbt LD50:2000 mg/kg 27ZQAG -,321,72
 ivn-rbt LD50:14 mg/kg 27ZQAG -,321,72

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.

MGL600 CAS: 7698-91-1 HR: 3
N-METHYL-4-AMINO-1,2,5-SELENADIAZOLE-3-CARBOXAMIDE

mf: C₄H₆N₄OSe mw: 205.10

SYNS: 4-AMINO-N-METHYL-1,2,5-SELENADIAZOLE-3-CARBOXAMIDE □ NSC-93169 □ 1,2,5-SELENADIAZOLE-3-CARBOXAMIDE, 4-AMINO-N-METHYL-

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:4 mg/kg AACHAX -,551,66

OSHA PEL: TWA 0.2 mg(Se)/m³

ACGIH TLV: TWA 0.2 mg(Se)/m³

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

MGN000 HR: 3
METHYLAMMONIUM CHLORITE

mf: CH₆ClNO₂ mw: 99.52

SAFETY PROFILE: Concentrated solutions of the chlorite are explosively unstable. When heated to decomposition it emits toxic fumes of Cl⁻, NH₃, and NO_x. See also CHLORITES.

MGN150 CAS: 1941-24-8 HR: 3
METHYLAMMONIUM NITRATE

mf: CH₆N₂O₃ mw: 94.07

SYN: METHANAMINIUM NITRATE

SAFETY PROFILE: May explode on contact with rust or copper powder. Rail tanks of 86% aqueous solutions or slurries have exploded during pumping operations. Upon decomposition it emits toxic fumes of NO_x and NH₃. See also NITRATES.

MGN250 HR: 3
METHYLAMMONIUM PERCHLORATE

mf: CH₆ClNO₄ mw: 131.52

SAFETY PROFILE: Concentrated solutions are unstable explosives. Incompatible with ammonium; dimethylammonium; piperidinium perchlorates. Upon decomposition it emits toxic fumes of NO_x, Cl⁻ and NH₃. See also PERCHLORATES.

MGN300 CAS: 7789-99-3 HR: 1
2-METHYLAMYL ACETATE

mf: C₈H₁₆O₂ mw: 144.24

SYNS: ACETIC ACID, 2-METHYLAMYL ESTER □ ACETIC ACID, 2-METHYLPENTYL ESTER □ 2-METHYLAMYLESTER KYSELINY OCTOVE □ 2-METHYLPENTYL ACETATE

TOXICITY DATA with REFERENCE:

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

eye-rbt 500 mg/24H MLD 85JCAE -,359,86

orl-rat LD50:7400 mg/kg AMIHBC 10,61,54

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.

MGN500 CAS: 110-43-0 HR: 3
METHYL n-AMYL KETONE
DOT: UN 1110

mf: C₇H₁₄O mw: 114.21

PROP: Colorless, mobile liquid; penetrating, fruity odor; or light yellow oil. Bp: 151.5°, flash p: 120°F (OC), autoign temp: 991°F, vap d: 3.94, d: 0.8197 @ 15°/4°. Very sltly sol in water; sol in alc and ether. IDLH 800 ppm.

SYNS: AMYL-METHYL-CETONE (FRENCH) □ n-AMYL METHYL KETONE □ AMYL METHYL KETONE (DOT) □ FEMA No. 2544 □ 2-HEPTANONE □ METHYL-AMYL-CETONE (FRENCH) □ METHYL AMYL KETONE (DOT) □ METHYL PENTYL KETONE

TOXICITY DATA with REFERENCE:

skn-rbt 14 mg/24H open MLD AIHAAP 23,95,62

ipr-rat LD50:800 mg/kg 38MKAJ 2C,4757,82

orl-rat TDLo:45,500 mg/kg/13W-I FCTXAV 10,625,72

ihl-rat LCLo:4000 ppm/4H AIHAAP 23,95,62

orl-mus LD50:730 mg/kg APJUA8 12,79,62

skn-rbt LD50:12,600 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 100 ppm

ACGIH TLV: TWA 50 ppm

NIOSH REL: (Ketones) TWA 465 mg/m³

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ketones II (Desorption in 99:1 CS₂:methanol) 1301.

MGN600 CAS: 3275-64-7 HR: 3
17-METHYL-5-α-ANDROST-2-EN-17-β-OL

mf: C₂₀H₃₂O mw: 288.52

SYNS: 5-α-ANDROST-2-EN-17-β-OL, 17-METHYL- □ ANDROST-2-EN-17-OL, 17-METHYL-, (5-α,17-β)- □ BA 2665 □ 17-α-METHYL-(5-α)-Δ²-ANDROSTENE-17-β-OL □ SC 11977

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

MGN750 CAS: 100-61-8 HR: 3
METHYLANILINE

DOT: UN 2294

mf: C₇H₉N mw: 107.17

PROP: Colorless or sltly yellow liquid; becomes brown on exposure to air. Mp: -57°, d: 0.989 @ 20°/4°, bp:

194–197°. Sol in alc, ether; sltly sol in water. IDLH 100 ppm.

SYNS: ANILINOMETHANE □ BENZENAMINE, N-METHYL-(9CI) □ (METHYLAMINO)BENZENE □ N-METHYLAMINO-BENZENE □ N-METHYLANILINE □ N-METHYLANILINE (ACGIH, DOT) □ N-METHYLBENZENAMINE □ METHYL-PHENYLAMINE □ N-METHYLPHENYLAMINE □ MONO-METHYLANILINE □ N-MONOMETHYLANILINE □ MONOMETHYL ANILINE (OSHA) □ N-PHENYLMETHYL-AMINE

TOXICITY DATA with REFERENCE:

ivn-cat LDLo:24 mg/kg JIHTAB 31,1,49
 orl-rbt LDLo:280 mg/kg JIHTAB 31,1,49
 ivn-rbt LDLo:24 mg/kg JIHTAB 31,1,49
 orl-gpg LDLo:1200 mg/kg XPHBAO 271,16,41
 scu-gpg LDLo:1200 mg/kg XPHBAO 271,16,41
 ihl-rat TCLo:300 µg/m³/24H/14W-C GISAAA 34(3),7,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.5 ppm (skin)

ACGIH TLV: TWA 0.5 ppm (skin)

DFG MAK: 0.5 ppm (2.2 mg/m³)

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Monomethylamine S153.

MGO000 METHYLANILINE and SODIUM NITRITE (1.2:1)

SYN: SODIUM NITRITE and METHYLANILINE (1:1.2)

TOXICITY DATA with REFERENCE:

orl-mus TDLo:81 g/kg/28W-C:CAR JNCIAM 46,1029,71

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x. See also SODIUM NITRITE.

MGO250 N-METHYLANILINE mixed with SODIUM NITRITE (1:35)

SYNS: N-METHYLANILIN UND NATRIUMNITRIT (GERMAN) □ NATRIUMNITRAT UND N-METHYLANILIN (GERMAN) □ SODIUM NITRITE mixed with N-METHYLANILINE (35:1)

TOXICITY DATA with REFERENCE:

orl-rat TDLo:124 g/kg/16W-C:CAR ARZNAD 21,1572,71

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x. See also SODIUM NITRITE and METHYLANILINE.

MGO500 CAS: 102-50-1 HR: 3 2-METHYL-p-ANISIDINE

mf: C₈H₁₁NO mw: 137.20

PROP: Crystals from ligroin. Mp: 29–30°, bp: 146–147° @ 23 mm.

SYNS: m-CRESIDINE □ 4-METHOXY-2-METHYLANILINE □ 4-METHOXY-2-METHYLBENZENAMINE □ 2-METHYL-4-METHOXYANILINE □ NCI-C02993

TOXICITY DATA with REFERENCE:

otr-rat:emb 51,500 ng/plate JJATDK 1,190,81

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 27,91,82. NCI Carcinogenesis Bioassay (gavage); Clear Evidence: rat NCITR* NCI-CG-TR-105,78; (gavage); Inadequate Studies: mouse NCITR* NCI-CG-TR-105,78. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

MGO750 CAS: 120-71-8 HR: 3 5-METHYL-o-ANISIDINE

mf: C₈H₁₁NO mw: 137.20

PROP: Needles from pet ether. Mp: 51–52°, bp: 235°.

SYNS: m-AMINO-p-CRESOL, METHYL ESTER □ 3-AMINO-p-CRESOL METHYL ESTER □ 1-AMINO-2-METHOXY-5-METHYLBENZENE □ 3-AMINO-4-METHOXYTOLUENE □ 2-AMINO-4-METHYLANISOLE □ AZOIC RED 36 □ C.I. AZOIC RED 83 □ CRESIDINE □ p-CRESIDINE □ KRESIDIN □ KREZIDINE □ 2-METHOXY-5-METHYLANILINE □ 2-METHOXY-5-METHYL-BENZENAMINE (9CI) □ 4-METHOXY-m-TOLUIDINE □ 4-METHYL-2-AMINOANISOLE □ NCI-C02982

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,721,86
 eye-rbt 100 mg/24H MOD 85JCAE -,721,86
 mmo-sat 62,500 ng/plate ENMUDM 7(Suppl 5),1,85
 mma-sat 3330 ng/plate ENMUDM 7(Suppl 5),1,85
 mma-esc 2 mg/plate ENMUDM 7(Suppl 5),1,85
 otr-rat:emb 31 µg/plate JJATDK 1,190,81
 orl-rat LD50:1450 mg/kg HURC** -,72

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Human Limited Evidence IMEMDT 27,91,82; Animal Sufficient Evidence IMEMDT 27,91,82. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-142,79. Reported in EPA TSCA Inventory. Community Right-To-Know List.

DFG MAK: Confirmed Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and neoplastigenic data. Moderately toxic by ingestion. A skin and eye irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS.

MGP000 CAS: 104-93-8 HR: 3 p-METHYL ANISOLE

mf: C₈H₁₀O mw: 122.18

PROP: Liquid, found in oil of ylang-ylang, Cananga, and others (FCTXAV 12,385,74). Colorless liquid; ylang-ylang odor. D: 0.996–0.970, refr index: 1.510–1.513, bp: 175–176°, flash p: 144°F. Sol in fixed oils; insol in glycerin, propylene glycol.

SYNS: p-CRESOL METHYL ETHER □ p-CRESYL METHYL ETHER □ FEMA No. 2681 □ p-METHOXYTOLUENE □ 4-

METHOXYTOLUENE □ 4-METHYL-1-METHOXYBENZENE □
4-METHYLPHENOL METHYL ETHER □ METHYL-p-TOLYL
ETHER □ p-TOLYL METHYL ETHER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H closed MOD FCTXAV 12,385,74
orl-rat LD50:1920 mg/kg FCTXAV 12,385,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MGP250 CAS: 31927-64-7 HR: 2
6-METHYLANTHRANILIC ACID

mf: C₂₃H₁₄ mw: 290.37

SYN: 12-METHYL DIBENZO(def,mno)CHRYSENE

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

MGP500 CAS: 613-12-7 HR: D
2-METHYLANTHRACENE

mf: C₁₅H₁₂ mw: 192.27

PROP: Plates by subl with greenish-blue fluorescence. Mp: 207°.

TOXICITY DATA with REFERENCE:

mma-sat 80 µmol/L/2H CNREA8 39,4152,79

msc-hmn:lym 60 µmol/L DTESD7 10,277,82

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

MGP750 CAS: 779-02-2 HR: 2
9-METHYLANTHRACENE

mf: C₁₅H₁₂ mw: 192.27

PROP: Needles from EtOH. Mp: 81.5°, bp: 196–197° @ 12 mm.

TOXICITY DATA with REFERENCE:

mma-sat 5 µg/plate MUREAV 156,61,85

dnd-esc 10 µmol/L PNCCA2 5,39,65

msc-hmn:lym 9 µmol/L DTESD7 10,277,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MGQ000 CAS: 119-68-6 HR: 1
N-METHYLANTHRANILIC ACID

mf: C₈H₉NO₂ mw: 151.18

PROP: Plates from EtOH or ligroin. Mp: 178–179°, bp: 80° @ 0.01 mm.

SYNS: KYSELINA N-METHYLANTHRANILOVA (CZECH) □ o-(METHYLAMINO)BENZOIC ACID □ 2-(METHYLAMINO)-BENZOIC ACID □ N-METHYL-o-AMINOBENZOIC ACID □ N-METHYL-2-AMINOBENZOIC ACID

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H MOD 28ZPAK -,129,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MGQ100 CAS: 52479-65-9 HR: 3
N-METHYLANTHRANILIC ACID HYDRAZIDE

mf: C₈H₁₁N₃O mw: 165.22

SYN: ANTHRANILIC ACID, N-METHYL-, HYDRAZIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#07005

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

MGQ250 CAS: 85-91-6 HR: 3
N-METHYLANTHRANILIC ACID, METHYL ESTER

mf: C₉H₁₁NO₂ mw: 165.21

PROP: Pale-yellow liquid; grape-like odor; or crystals from pet ether. D: 1.126–1.132, mp: 19°, bp: 256°, refr index: 1.578–1.581, flash p: 196°F. Sol in fixed oils; sltly sol in propylene glycol; insol in water, glycerin.

SYNS: DIMETHYL ANTHRANILATE (FCC) □ FEMA No. 2718 □ 2-METHYLAMINO METHYL BENZOATE □ METHYL METHYLAMINOBENZOATE □ METHYL-N-METHYL ANTHRANILATE □ MMA

TOXICITY DATA with REFERENCE:

orl-rat LDLo:3380 mg/kg FCTXAV 8,359,70

ivn-mus LD50:180 mg/kg CSLNX* NX#07000

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. Combustible liquid. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS.

MGQ525 CAS: 35142-06-4 HR: D
METHYL ARISTOLATE

mf: C₁₈H₁₄O₅ mw: 310.32

PROP: A solid. Mp: 172°.

SYNS: ARISTOLIC ACID METHYL ESTER □ 8-METHOXY-PHENANTHRO(3,4-d)-1,3-DIOXOLE-5-CARBOXYLIC ACID METHYL ESTER

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

MGQ530 CAS: 124-58-3 HR: 2
METHYLARSENIC ACID

mf: CH₃AsO₃ mw: 139.98

PROP: Plates from EtOH or Me₂CO. Mp: 159.8°. Sol in H₂O and EtOH.

SYNS: KYSELINA METHYLARSONOVA □ MAA □ METHANEARSONIC ACID □ METHYLARSINIC ACID □ METHYLARSONIC ACID □ MONOMETHYLARSINIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:961 mg/kg FAATDF 7,299,86

scu-mus LD50:794 mg/kg 85JCAE -,1265,86

OSHA PEL: TWA 0.5 mg(As)/m³

ACGIH TLV: BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Arsenic, Organo-, 5022.

MGQ750 CAS: 2533-82-6 HR: 3
METHYLARSENIC SULFIDE

mf: CH₃AsS mw: 122.02

PROP: Crystals from EtOH. Mp: 109–111°.

SYNS: ASOZIN □ BAY 4934 □ MAS □ METHYLARSINE SULFIDE □ METHYLARSINIC SULFIDE □ METHYLARSINIC SULPHIDE □ METHYLTHIOXOARSINE □ MONKIL WP □ RHIZOCTOL □ (THIOARSENOSO)METHANE □ URBASULF

TOXICITY DATA with REFERENCE:

mrc-bcs 1 µg/disc/24H MUREAV 40,19,76

orl-rat LD50:100 mg/kg FMCHA2 -,C206,83

skn-rbt LD50:1400 mg/kg GUCHAZ 6,341,73

orl-mam LD50:100 mg/kg 28ZEAL 4,276,69

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

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. Mutation data reported. When heated to decomposition it emits very toxic fumes of As and SO_x. See also ARSENIC COMPOUNDS and SULFIDES.

MGQ775 CAS: 7207-97-8 HR: 3
METHYLARSINE DIIODIDE

mf: CH₃AsI₂ mw: 343.76

PROP: Crystals or needles from EtOH. Mp: 28°, bp: 125° @ 16 mm. Sltly sol in water.

SYNS: ARSINE, DIIODOMETHYL- □ ARSONOUS DIIODIDE, METHYL-(9CI) □ DIIODOMETHYLARSINE □ METHYLDIIODOARSINE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:18 mg/kg CSLNX* NX#03795

OSHA PEL: TWA 0.5 mg(As)/m³

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of As and I₂.

MGR250 CAS: 2870-71-5 HR: 3
8-METHYLATROPINIUM BROMIDE

mf: C₁₈H₂₆NO₃•Br mw: 384.36

SYNS: ATROPINE METHOBROMIDE □ ATROPINE METHYLBROMIDE □ 3-α-HYDROXY-8-METHYL-1-α,5-α-H-TROPANIUM BROMIDE (±)TROPATE □ HYOSCYAMINE METHYLBROMIDE □ METHYLATROPINE BROMIDE □ METHYLATROPINIUM BROMIDE □ MINTUSSIN □ MYDRIASIN □ TROPIN

TOXICITY DATA with REFERENCE:

orl-rat LD50:1050 mg/kg AIPTAK 180,155,69

scu-rat LD50:1800 mg/kg AIPTAK 180,155,69

idu-rat LD50:312 mg/kg AIPTAK 180,155,69

orl-mus LD50:1640 mg/kg NIIRDN 6,358,82

ipr-mus LD50:75 mg/kg ARZNAD 21,1727,71

scu-mus LD50:242 mg/kg ARZNAD 18,1132,68

ivn-mus LD50:9950 µg/kg NYKZAU 53,1125,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MGR500 CAS: 52-88-0 HR: 3
8-METHYLATROPINIUM NITRATE

mf: C₁₈H₂₆NO₃•NO₃ mw: 366.46

PROP: A solid. Mp: 166–168°.

SYNS: ATROPINE METHONITRATE □ ATROPINE METHYL NITRATE □ EKOMINE □ EUMIDRINA □ EUMYDRIN □ EUROPEN □ HARVATRATE □ 3-α-HYDROXY-8-METHYL-1-α-H,5-α-H-TROPANIUM NITRATE (±)-TROPATE (ESTER) □ dl-HYOSCYAMINE METHYLNITRATE □ dl-HYOSYAMINE METHYLNITRATE □ METANITE □ METHYL ATROPINE NITRATE □ N-METHYLATROPINE NITRATE □ N-METHYLATROPINIUM NITRATE □ METROPINE □ PYLOSTROPIN

TOXICITY DATA with REFERENCE:

ims-hmn TDLo:2 µg/kg:EYE 85IVAW 1,L1,82

orl-rat LD50:1902 mg/kg TXAPA9 1,42,59

orl-mus LD50:1320 mg/kg PSEBAA 120,511,65

ipr-mus LD50:9 mg/kg ATXKA8 29,39,72

ivn-mus LD50:9300 µg/kg JPETAB 110,282,54

scu-gpg LD50:95 mg/kg AIPTAK 137,375,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal, intravenous, and subcutaneous routes. Moderately toxic by ingestion. Human systemic effects: mydriasis. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also ATROPINE and NITRATES.

MGR600 CAS: 4524-95-2 HR: 3
2-METHYL-2-AZABICYCLO(2.2.1)HEPTANE

mf: C₇H₁₃N mw: 111.21

SYNS: 2-AZABICYCLO(2.2.1)HEPTANE, 2-METHYL- □ THANCAT AN 10

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#04644

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

MGR750 CAS: 624-90-8 HR: 3
METHYL AZIDE

mf: CH₃N₃ mw: 57.05

PROP: Liquid or gas. D: 0.869 @ 8°/15°, bp: 20–21°.

SAFETY PROFILE: May explode when heated. Presence of mercury increases the sensitivity to shock and spark. Incompatible with (dimethyl malonate + sodium methylate); Hg; methanol; sodium azide; dimethyl sulfate; sodium hydroxide; hydrogen azide. When heated to decomposition it emits toxic fumes of NO_x. See also AZIDES.

MGR800 CAS: 16714-23-1 HR: 3

METHYL-2-AZIDOBENZOATE

mf: $C_8H_7N_3O_2$ mw: 177.16
 $CH_3OCO \cdot C_6H_4N_3$

SYN: 1-PHENYL-2-METHOXYDIAZENE

SAFETY PROFILE: May explode during distillation. When heated to decomposition it emits toxic fumes of NO_x . See also AZIDES.

MGR900 CAS: 14745-52-9 HR: 3
METHYL 1-AZIRIDINEACETATE

mf: $C_5H_9NO_2$ mw: 115.15

SYNS: ACETIC ACID, 2-(1-AZIRIDINYL)-, METHYL ESTER □ 1-AZIRIDINEACETIC ACID, METHYL ESTER □ 2-(1-AZIRIDINYL)ACETIC ACID METHYL ESTER □ N-(CARBOMETHOXYMETHYL)AZIRIDINE □ 1-(CARBOMETHOXYMETHYL)-AZIRIDINE □ 1-(METHOXYCARBONYL)AZIRIDINE □ SK 4119

TOXICITY DATA with REFERENCE:

ivn-mus LD50:75 mg/kg CSLNX* NX#08267

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

MGS500 CAS: 11069-34-4 HR: 3
METHYL-AZOXY-BUTANE

mf: $C_5H_{12}N_2O$ mw: 116.19

TOXICITY DATA with REFERENCE:

unr-rat LD50:285 mg/kg 23HZAR -,267,70

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

MGS700 CAS: 71856-48-9 HR: 2
METHYLAZOXYMETHANOL-β-D-GLUCOSID-URONIC ACID

mf: $C_8H_{14}N_2O_8$ mw: 266.24

SYNS: β-D-GLUCOPYRANOSIDURONIC ACID, (METHYL-ONN-AZOXY)METHYL- □ (METHYL-ONN-AZOXY)METHYL-β-D-GLUCOPYRANOSIDURONIC ACID

TOXICITY DATA with REFERENCE:

mma-sat 20 nmol/plate CNREA8 39,3780,79

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

MGS750 CAS: 592-62-1 HR: 3
METHYLAZOXYMETHYL ACETATE

mf: $C_4H_8N_2O_3$ mw: 132.14

PROP: Bp: 191°.

SYNS: ACETIC ACID, (METHYL-ONN-AZOXY)METHYL ESTER □ CYCASIN ACETATE □ MAM AC □ MAM ACETATE □ METHYLAZOXYMETHANOL ACETATE □ METHYLAZOXY-METHYLESTER KYSELINY OCTOVE (CZECH) □ (METHYL-ONN-AZOXY)METHANOL, ACETATE (ester)

TOXICITY DATA with REFERENCE:

mma-esc 100 µg/plate ENMUDM 6(Suppl 2),1,84
otr-hmn:fbr 7 µmol/L PNASA6 80,7219,83
dnd-hmn:oth 1500 µmol/L/4H PAACA3 21,69,80
scu-rat TDLo:40 mg/kg (female 13D post):TER
ESKHA5 (104),73,86
orl-mus LDLo:35 mg/kg CNREA8 30,801,70

ipr-mus LD50:105 mg/kg JJIND8 62,911,79
ivn-mus LD50:10 mg/kg CSLNX* NX#04566

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 10,121,76. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. Poison by ingestion, intraperitoneal, and intravenous routes. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also ESTERS.

MGS925 CAS: 3527-05-7 HR: 2
METHYLAZOXYMETHYL BENZOATE

mf: $C_9H_{10}N_2O_3$ mw: 194.21

SYN: METHANOL, (METHYL-ONN-AZOXY)-, BENZOATE (ester) (9CI)

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

MGT000 CAS: 54405-61-7 HR: 2
METHYLAZOXYOCTANE

mf: $C_9H_{20}N_2O$ mw: 172.31

SYNS: METHYLOCTYLDIAZENE 1-OXIDE □ OCTANE-1-NNO-AZOXYMETHANE

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

MGT250 CAS: 28390-42-3 HR: 2
METHYL-AZULENO(5,6,7-c,d)PHENALENE

mf: $C_{21}H_{14}$ mw: 266.35

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

MGT400 HR: 2
3-METHYLBENZ(e)ACEPHENANTHRYLENE

mf: $C_{21}H_{14}$ mw: 266.35

SYN: 3-METHYLBENZO(b)FLUORANTHENE

TOXICITY DATA with REFERENCE:

mma-sat 125 nmol/plate CRNGDP 6,1023,85

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

MGT410 HR: 2
7-METHYLBENZ(e)ACEPHENANTHRYLENE

mf: $C_{21}H_{14}$ mw: 266.35

SYN: 7-METHYLBENZO(b)FLUORANTHENE

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

MGT415 HR: 2
8-METHYLBENZ(e)ACEPHENANTHRYLENE

mf: $C_{21}H_{14}$ mw: 266.35

SYN: 8-METHYLBENZO(b)FLUORANTHENE

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

MGT420 **HR: 2**
12-METHYLBENZ(e)ACEPHENANTHRYLENE

mf: C₂₁H₁₄ mw: 266.35

SYN: 12-METHYLBENZO(b)FLUORANTHENE

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

MGT500 **CAS: 3340-94-1** **HR: 2**
7-METHYLBENZ(c)ACRIDINE

mf: C₁₈H₁₃N mw: 243.32

PROP: Crystals from C₆H₆. Mp: 126°.

SYNS: 9-METHYL-3,4-BENZACRIDINE □ 10-METHYL-7,8-BENZACRIDINE (FRENCH) □ 7-METHYLBENZO(c)ACRIDINE

TOXICITY DATA with REFERENCE:

mma-sat 100 µg/plate MUREAV 66,307,79

mma-ham:lng 1 µmol/L CRNGDP 7,23,86

sce-ham:lng 5 µmol/L CRNGDP 7,23,86

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

MGU500 **CAS: 3340-93-0** **HR: 2**
12-METHYLBENZ(a)ACRIDINE

mf: C₁₈H₁₃N mw: 243.32

PROP: Prisms from MeOH. Mp: 144–145°.

SYNS: 9-METHYL-1,2-BENZACRIDINE □ 10-METHYL-5,6-BENZACRIDINE

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

MGU550 **CAS: 92145-26-1** **HR: 2**
7-METHYLBENZ(c)ACRIDINE 3,4-DIHYDRODIOL

mf: C₁₈H₁₅NO₂ mw: 277.34

SYNS: trans-3,4-DIHYDRO-3,4-DIHYDROXY-7-METHYLBENZ-(c)ACRIDINE □ trans-3,4-DIHYDROXY-3,4-DIHYDRO-7-METHYLBENZ(c)ACRIDINE

TOXICITY DATA with REFERENCE:

mma-sat nmol/plate CRNGDP 7,23,86

sce-ham:lng 5 µmol/L CRNGDP 7,23,86

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

MGU750 **CAS: 2498-77-3** **HR: 2**
1-METHYLBENZ(a)ANTHRACENE

mf: C₁₉H₁₄ mw: 242.33

PROP: Crystals from Me₂CO or C₆H₆. Mp: 139°.

SYN: 1'-METHYL-1,2-BENZANTHRACENE

TOXICITY DATA with REFERENCE:

mma-sat 20 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MGV000 **CAS: 2498-76-2** **HR: 2**
2-METHYLBENZ(a)ANTHRACENE

mf: C₁₉H₁₄ mw: 242.33

PROP: Crystals from EtOH. Mp: 150°.

SYN: 2'-METHYL-1,2-BENZANTHRACENE

TOXICITY DATA with REFERENCE:

mma-sat 10 µg/plate CNREA8 36,4525,76

dnd-omi 1800 µmol/L ZKKOBW 90,37,77

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

MGV250 **CAS: 2498-75-1** **HR: 2**
3-METHYLBENZ(a)ANTHRACENE

mf: C₁₉H₁₄ mw: 242.33

PROP: Crystals from EtOH. Mp: 164°.

TOXICITY DATA with REFERENCE:

mma-sat 5 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MGV500 **CAS: 316-49-4** **HR: 2**
4-METHYLBENZ(a)ANTHRACENE

mf: C₁₉H₁₄ mw: 242.33

PROP: Plates from EtOH. Mp: 198°.

SYN: 4'-METHYL-1:2-BENZANTHRACENE

TOXICITY DATA with REFERENCE:

mma-sat 20 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MGV750 **CAS: 2319-96-2** **HR: 2**
5-METHYLBENZ(a)ANTHRACENE

mf: C₁₉H₁₄ mw: 242.33

PROP: Plates from C₆H₆/pet ether. Mp: 160°.

SYN: 3-METHYL-1,2-BENZANTHRACENE

TOXICITY DATA with REFERENCE:

mma-sat 10 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MGW000 **CAS: 316-14-3** **HR: 2**

6-METHYLBENZ(a)ANTHRACENEmf: C₁₉H₁₄ mw: 242.33**PROP:** Needles from EtOH. Mp: 127°.**SYN:** 4-METHYL-1,2-BENZANTHRACENE**TOXICITY DATA with REFERENCE:**

mma-sat 10 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MGW250 CAS: 2381-31-9 HR: 2****8-METHYLBENZ(a)ANTHRACENE**mf: C₁₉H₁₄ mw: 242.33**PROP:** A solid. Mp: 161°.**SYN:** 5-METHYL-1,2-BENZANTHRACENE**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MGW500 CAS: 2381-16-0 HR: 2****9-METHYLBENZ(a)ANTHRACENE**mf: C₁₉H₁₄ mw: 242.33**PROP:** Plates from EtOH. Mp: 152°.**SYN:** 6-METHYL-1,2-BENZANTHRACENE**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MGW740 CAS: 2381-15-9 HR: 2****10-METHYLBENZ(a)ANTHRACENE**mf: C₁₉H₁₄ mw: 242.33**PROP:** Yellow plates from EtOH. Mp: 184°.**SYN:** 7-METHYL-1,2-BENZANTHRACENE**TOXICITY DATA with REFERENCE:**

mma-sat 10 µg/plate CNREA8 36,4525,76

otr-ham:emb 10 mg/L JNCIAM 35,641,65

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MGW750 CAS: 2541-69-7 HR: 2****10-METHYL-1,2-BENZANTHRACENE**mf: C₁₉H₁₄ mw: 242.33**PROP:** A solid. Mp: 140°.**SYNS:** 7-MBA □ 10-METHYL-1,2-BENZANTHRACENE

(GERMAN) □ 7-METHYLBENZ(a)ANTHRACENE

TOXICITY DATA with REFERENCE:

dnd-mus-skn 40 µmol/kg IJCNAW 23,201,69

sce-ham:ovr 8 mg/L MUREAV 50,367,78

msc-ham:fbr 1 mg/L DTESD7 8,121,80

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MGX250 CAS: 6111-78-0 HR: 2****11-METHYLBENZ(a)ANTHRACENE**mf: C₁₉H₁₄ mw: 242.33**PROP:** A solid. Mp: 118°.**SYN:** 8-METHYL-1,2-BENZANTHRACENE**TOXICITY DATA with REFERENCE:**

mma-sat 50 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MGX500 CAS: 2422-79-9 HR: 2****12-METHYLBENZ(a)ANTHRACENE**mf: C₁₉H₁₄ mw: 242.33**PROP:** Yellow plates. Mp: 140°.**SYN:** 9-METHYL-1,2-BENZANTHRACENE**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MGX750 CAS: 64082-43-5 HR: 2****10-METHYL-1,2-BENZANTHRACENE-5-CARBONAMIDE**mf: C₂₀H₁₅NO mw: 285.36**SYN:** 7-METHYLBENZ(a)ANTHRACENE-8-YL CARBAMIDE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**MGY000 CAS: 63018-70-2 HR: 2****7-METHYLBENZ(a)ANTHRACENE-8-CARBONITRILE**mf: NC₂₀H₁₃ mw: 267.34**SYNS:** 5-CYANO-10-METHYL-1,2-BENZANTHRACENE □ 8-CYANO-7-METHYLBENZ(a)ANTHRACENE**CONSENSUS REPORTS:** Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to

decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

MGY250 CAS: 6366-23-0 HR: 2
7-METHYLBENZ(a)ANTHRACENE-10-CARBONITRILE

mf: C₂₀H₁₃N mw: 267.34

SYN: 7-CYANO-10-METHYL-1,2-BENZANTHRACENE

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

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

MGY500 CAS: 17513-40-5 HR: 2
7-METHYLBENZ(a)ANTHRACENE-12-CARBOXALDEHYDE

mf: C₂₀H₁₄O mw: 270.34

SYN: 12-FORMYL-7-METHYLBENZ(a)ANTHRACENE

TOXICITY DATA with REFERENCE:

dni-omi 200 µg/L PNASA6 74,1378,77

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

MGZ000 CAS: 1155-38-0 HR: 2
7-METHYLBENZ(a)ANTHRACENE-5,6-OXIDE

mf: C₁₉H₁₄O mw: 258.33

SYN: 5,6-EPOXY-5,6-DIHYDRO-7-METHYLBENZ(A)ANTHRACENE

TOXICITY DATA with REFERENCE:

mma-sat 500 ng/plate CNREA8 45,2600,85

dns-esc 1 mmol/L ZKKOBW 92,157,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MHA000 CAS: 66964-37-2 HR: 2
S-(12-METHYL-7-BENZ(a)ANTHRYLMETHYL)-HOMOCYSTEINE

mf: C₂₄H₂₃NO₂S mw: 389.54

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

MHA250 CAS: 613-93-4 HR: 2
N-METHYLBENZENAMIDE

mf: C₈H₉NO mw: 135.18

PROP: Plates from EtOH. Mp: 82°, bp: 291°.

SYN: N-METHYLBENZAMIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:840 mg/kg TXAPA9 19,20,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MHA500 CAS: 101-41-7 HR: 2
METHYL BENZENEACETATE

mf: C₉H₁₀O₂ mw: 150.19

PROP: Colorless liquid; honey, jasmine odor. D: 1.062, refr index: 1.503–1.509, bp: 215°, vap d: 5.18, flash p: 192°F. Sol in alc, fixed oils; insol in glycerin, propylene glycol, water @ 215°.

SYNS: BENZENEACETIC ACID, METHYL ESTER □ FEMA No. 2733 □ METHYL PHENYLACETATE (FCC) □ METHYL-α-TOLUATE □ PHENYLACETIC ACID, METHYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H FCTXAV 12,807,74

orl-rat LD50:2550 mg/kg FCTXAV 12,807,74

skn-rbt LD50:2400 mg/kg FCTXAV 12,807,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

MHA750 CAS: 93-58-3 HR: 2
METHYL BENZENECARBOXYLATE

DOT: UN 2938

mf: C₈H₈O₂ mw: 136.16

PROP: Colorless liquid; fragrant odor. Mp: -12.5°, bp: 199.6°, flash p: 181°F, d: 1.082–1.088, refr index: 1.515, vap press: 1 mm @ 39.0°, vap d: 4.69. Sol in alc, fixed oils, propylene glycol, water @ 30°; misc in ether; insol in glycerin.

SYNS: ESSENCE OF NIOBE □ FEMA No. 2683 □ METHYL BENZOATE (FCC, DOT) □ METHYLESTER KYSELIN Y BENZOOVE □ NIOBE OIL □ OIL OF NIOBE □ OXIDATE LE

TOXICITY DATA with REFERENCE:

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

skn-rbt 500 mg/24H MLD 85JCAE -,380,86

eye-rbt 500 mg AMIHBC 10,61,54

orl-rat LD50:1177 mg/kg FAVUAI 18,69,86

orl-mus LD50:3330 mg/kg FCTXAV 2,327,64

skn-cat LDLo:10 g/kg JPETAB 84,358,45

orl-rbt LD50:2170 mg/kg JPETAB 84,358,45

orl-gpg LD50:4100 mg/kg FCTXAV 12,937,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

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

MHB000 CAS: 66217-76-3 HR: 3
METHYL BENZENEDIAZOATE

mf: C₇H₈N₂O mw: 136.16

C₆H₅N=NOCH₃

SYN: 1-PHENYL-2-METHOXYDIAZENE

SAFETY PROFILE: Explodes on heating or after storage. When heated to decomposition it emits toxic fumes of NO_x.

MHB250 CAS: 589-18-4 HR: 3
4-METHYL-BENZENEMETHANOL

mf: C₈H₁₀O mw: 122.18

PROP: Needles from heptane. Mp: 61–62°, bp: 217°.

SYNS: p-METHYLBENZYLALCOHOL □ 4-METHYLBENZYLALCOHOL □ p-METHYLBENZYLALKOHOL (GERMAN) □ p-TOLYLCARBINOL □ 4-TOLYLCARBINOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV FCTOD7 20(Suppl),839,82

orl-rat LD50:3900 mg/kg FCTOD7 20,839,82

orl-mus LD50:1400 mg/kg ARZNAD 12,347,62

ipr-mus LD50:324 mg/kg YKKZAJ 104,793,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. A severe skin irritant. Used as a fragrance and flavor. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.

MHB300 CAS: 80-18-2 HR: 3
METHYL BENZENESULFONATE

mf: C₇H₈O₃S mw: 172.21

SYNS: BENZENESULFONIC ACID, METHYL ESTER □ 20ND3-5

TOXICITY DATA with REFERENCE:

orl-rat LD50:740 mg/kg GISAAA 51(1),82,86

orl-mus LD50:250 mg/kg GISAAA 51(1),82,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MHB500 CAS: 25155-18-4 HR: 2
METHYL BENZETHONIUM CHLORIDE MONOHYDRATE

mf: C₂₈H₄₄NO₂•Cl•H₂O mw: 480.20

PROP: Crystals; bitter taste. Mp: 161–163°. Very sol in water, alc, cellusolve, chloroform, hot benzene.

SYNS: AMMONIUM, BENZYLDMETHYL(2-(2-(4-(1,1,3,3-TETRAMETHYLBUTYL)TOLYLOXY)ETHOXY)ETHYL)-, CHLORIDE, MONOHYDRATE □ DELAVAN □ DIAPARENE □ DIAPARENE CHLORIDE □ p-DIISOBUTYLCRESOXYETHYL-DIMETHYLBENZYLAMMONIUM CHLORIDE MONOHYDRATE □ HYAMINE 10X □ METHYLBENZETHONIUM CHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:800 mg/kg PCOC** -,590,66

orl-mus LD50:750 mg/kg PCOC** -,590,66

SAFETY PROFILE: Moderately toxic by ingestion. An FDA over-the-counter drug. When heated to decomposition it emits very toxic fumes of NO_x and Cl⁻.

MHC000 CAS: 5504-68-7 HR: 1
10-METHYL-7H-BENZIMIDAZOL(2,1-a)BENZ(de)ISOQUINOLIN-7-ONE

mf: C₁₉H₁₂N₂O mw: 284.33

SYN: 5-METHYLNAFTOYLBENZIMIDAZOL (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,146,72

orl-rat LD50:9490 mg/kg 28ZPAK -,146,72

SAFETY PROFILE: Mildly toxic by ingestion.

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

MHC250 CAS: 615-15-6 HR: 3
METHYL-2-BENZIMIDAZOLE

mf: C₈H₈N₂ mw: 132.18

PROP: Needles from water. Mp: 175–176°. Sol in hot water, NaOH; sltly sol in alc and ether.

SYN: 2-METHYLBENZIMIDAZOLE

TOXICITY DATA with REFERENCE:

mmo-sat 250 µg/plate CHIMAD 27,68,73

mma-sat 500 nmol/plate JMCMAR 22,981,79

orl-rat LDLo:500 mg/kg NCNSA6 5,22,53

ivn-mus LD50:200 mg/kg JPETAB 105,486,52

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

MHC500 CAS: 614-97-1 HR: 2
5-METHYLBENZIMIDAZOLE

mf: C₈H₈N₂ mw: 132.18

PROP: Crystals from water. Mp: 114°. Sol in water.

TOXICITY DATA with REFERENCE:

orl-rat LDLo:500 mg/kg NCNSA6 5,22,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MHC750 CAS: 10605-21-7 HR: 2
METHYL BENZIMIDAZOLE-2-YL CARBAMATE

mf: C₉H₉N₃O₂ mw: 191.21

PROP: Light-gray powder. Mp: 302–307° (decomp). Sol in DMF; sltly sol in most solvs.

SYNS: BAS-3460 □ BAS 67054 □ BAVISTIN □ BCM □ BENZIMIDAZOLE-2-CARBAMIC ACID, METHYL ESTER □ N-2-(BENZIMIDAZOLYL) CARBAMATE □ 1H-BENZIMIDAZOL-2-YLCARBAMIC ACID METHYL ESTER □ BMC □ CARBENDAZIM □ CARBENDAZIME □ CARBENDAZOL □ CARBENDAZOLE □ CARBENDAZYM □ CEKUDAZIM □ CTR 6669 □ CUSTOS □ DELSENE □ DEROSAL □ EQUITDAZIN □ HOE 17411 □ KEMDAZIN □ MBC □ 2-(METHOXY-CARBONYLAMINO)-BENZIMIDAZOL □ 2-(METHOXYCARBONYLAMINO)-BENZIMIDAZOLE □ METHYL 1H-BENZEMEDAZOL-2-YLCARBAMATE □ METHYL 2-BENZIMIDAZOLECARBAMATE □ PILLARSTIN □ STEMPOR □ TRITICOL □ U-32.104

TOXICITY DATA with REFERENCE:

mnt-hmn:lym 1 µmol/L MUREAV 156,199,85

cyt-ham-orl 100 mg/kg TRENAP 36,396,85

orl-rat LD50:6400 mg/kg 85ARAE 4,131,76/77

skn-rat LD50:2000 mg/kg 85DPAN -,71/76

orl-mus LD50:11 g/kg MGONAD 20,163,76

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

SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. An agricultural chemical and pesticide. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

MHD000 CAS: 21064-50-6 HR: 2
6-METHYL-3,4-BENZOCARBAZOLE

mf: C₁₇H₁₃N mw: 231.31

SYN: 10-METHYL-7H-BENZO(c)CARBAZOLE

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

MHD250 CAS: 13127-50-9 HR: 2
9-METHYL-1:2-BENZOCARBAZOLE

mf: C₁₇H₁₃N mw: 231.31

SYN: 11-METHYL-11H-BENZO(a)CARBAZOLE

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

MHD300 CAS: 102128-78-9 HR: 3
N-(2-METHYLBENZODIOXAN)-N'-ETHYL-β-ALANINAMIDE

mf: C₁₃H₁₈N₂O₃ mw: 250.33

SYNS: 3-((1,4-BENZODIOXAN-2-YL)METHYL)AMINO)-N-METHYLPROPIONAMIDE □ 1205 I.S. □ N-(2-METHYL-1,4-BENZODIOXAN)-N'-METHYL-β-ALANINAMIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:350 mg/kg AIPTAK 105,317,56

scu-mus LD50:600 mg/kg AIPTAK 105,317,56

ivn-mus LD50:75 mg/kg AIPTAK 105,317,56

ivn-rbt LD50:90 mg/kg AIPTAK 105,317,56

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

MHD750 CAS: 52400-66-5 HR: 3
4-(2-(2-METHYL-1,3-BENZODIOXOL-2-YL)-ETHYL)PIPERAZIN-1-YL-2-ETHANOL DIHYDROCHLORIDE

mf: C₁₆H₂₄N₂O₃•2ClH mw: 365.34

TOXICITY DATA with REFERENCE:

ivn-rat LD50:18,500 µg/kg EJMCA5 12,413,77

ipr-mus LD50:90 mg/kg EJMCA5 12,413,77

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

MHE000 CAS: 3524-62-7 HR: 3
METHYL BENZOIN

mf: C₁₅H₁₄O₂ mw: 226.29

SYNS: BENZOIN METHYL ETHER □ 2-METHOXY-2-PHENYLACETOPHENONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:300 mg/kg TeiD## 16JUN75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS and KETONES.

MHE250 CAS: 33942-88-0 HR: 2
5-METHYLBENZO(rat)PENTAPHENE

mf: C₂₅H₁₆ mw: 316.41

SYN: 5-METHYL-3,4,9,10-DIBENZOPYRENE (FRENCH)

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

MHE500 CAS: 41699-09-6 HR: 2
METHYL-1,12-BENZOPERYLENE

mf: C₂₃H₁₄ mw: 290.37

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

MHE750 CAS: 1492-55-3 HR: 2
7-METHYLBENZO(a)PHENALENO(1,9-hi)ACRIDINE

mf: C₂₈H₁₇N mw: 367.46

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

MHF000 CAS: 1492-54-2 HR: 2
7-METHYLBENZO(h)PHENALENO(1,9-bc)ACRIDINE

mf: C₂₈H₁₇N mw: 367.46

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

MHF250 CAS: 652-04-0 HR: 2
5-METHYLBENZO(c)PHENANTHRENE

mf: C₁₉H₁₄ mw: 242.33

PROP: Crystals from EtOH or Me₂CO/EtOH. Mp: 71–72°.

SYN: 2-METHYL-3,4-BENZPHENANTHRENE

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

MHF500 CAS: 2381-34-2 HR: 2
6-METHYLBENZO(c)PHENANTHRENE

mf: C₁₉H₁₄ mw: 242.33

PROP: Crystals from EtOH. Mp: 81–82.5°, bp: 210° @ 0.4 mm.

SYN: 1-METHYL-3,4-BENZPHENANTHRENE

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

MHF750 CAS: 134-84-9 HR: 3
4-METHYL BENZOPHENONE

mf: C₁₄H₁₂O mw: 196.26

PROP: Crystals from pet ether in two forms. Mp: 59–60° (stable form), bp: 326°.

SYNS: p-BENZOPHENONE, METHYL- □ PHENYL p-TOLYL KETONE □ USAF DO-54

TOXICITY DATA with REFERENCE:

ipr-mus LD50:250 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

MHG250 CAS: 40568-90-9 HR: 2
1-METHYLBENZO(a)PYRENE

mf: C₂₁H₁₄ mw: 266.35

PROP: A solid. Mp: 190–190.8°.

SYN: 1-METHYL-BP

TOXICITY DATA with REFERENCE:

mmo-sat 25 µg/plate CNREA8 47,1509,87

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

MHG500 CAS: 16757-82-7 HR: 2
2-METHYLBENZO(a)PYRENE

mf: C₂₁H₁₄ mw: 266.35

PROP: Pale-yellow needles from MeOH. Mp: 138–139°.

SYN: 9-METHYL-3,4-BENZPYRENE

TOXICITY DATA with REFERENCE:

mmo-sat 6250 ng/plate CNREA8 47,1509,87

scu-mus TDLo:72 mg/kg/13W-I:ETA IJCNaw 3,238,68

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

MHG750 CAS: 16757-83-8 HR: 2
4-METHYLBENZO(a)PYRENE

mf: C₂₁H₁₄ mw: 266.35

PROP: Yellow plates. Mp: 217.5–218°.

TOXICITY DATA with REFERENCE:

mmo-sat 6250 ng/plate CNREA8 47,1509,87

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

MHH000 CAS: 63041-77-0 HR: 2
4'-METHYLBENZO(a)PYRENE

mf: C₂₁H₁₄ mw: 266.35

SYNS: 7-METHYLBENZO(a)PYRENE □ 4'-METHYL-3,4-BENZPYRENE

TOXICITY DATA with REFERENCE:

mmo-sat 25 µg/plate CNREA8 47,1509,87

msc-ham:lng 500 nmol/L CRNGDP 4,321,83

ims-rat TDLo:4 mg/kg:NEO NATUAS 273,566,78

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data.

Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

MHH200 CAS: 31647-36-6 HR: 2
5-METHYLBENZO(a)PYRENE

mf: C₂₁H₁₄ mw: 266.35

PROP: Yellow plates from EtOH/Et₂O. Mp: 215.7–216.2°.

SYN: 5-METHYL-BP

TOXICITY DATA with REFERENCE:

mma-sat 25 µg/plate CNREA8 47,1509,87

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

MHH500 CAS: 63104-32-5 HR: 2
10-METHYLBENZO(a)PYRENE

mf: C₂₁H₁₄ mw: 266.35

PROP: Yellow needles from EtOH. Mp: 178–178.5°.

SYN: 10-MONOMETHYLBENZO(a)PYRENE

TOXICITY DATA with REFERENCE:

mma-sat 2900 pmol/plate BBRCa9 85,351,78

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

MHH750 CAS: 16757-80-5 HR: 2
11-METHYLBENZO(a)PYRENE

mf: C₂₁H₁₄ mw: 266.35

PROP: A solid. Mp: 155–156.5°.

SYN: 6-METHYL-3,4-BENZPYRENE

TOXICITY DATA with REFERENCE:

mmo-sat 25 µg/plate CNREA8 47,1509,87

msc-ham:lng 500 nmol/L CRNGDP 4,321,83

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

MHI000 CAS: 4514-19-6 HR: 2
12-METHYLBENZO(a)PYRENE

mf: C₂₁H₁₄ mw: 266.35

TOXICITY DATA with REFERENCE:

mmo-sat 25 µg/plate CNREA8 47,1509,87

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

MHI250 CAS: 553-97-9 HR: 3
2-METHYL-p-BENZOQUINONE

mf: C₇H₆O₂ mw: 122.13

PROP: Yellow plates or needles. Mp: 69°.

SYNS: METHYL-p-BENZOQUINONE □ METHYL-1,4-BENZOQUINONE □ 2-METHYLBENZOQUINONE-1,4 □ 2-METHYL-1,4-QUINONE □ p-TOLUQUINONE □ 1,4-TOLUQUINONE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:250 mg/kg NCNSA6 5,39,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MHI300 CAS: 1123-91-7 HR: 3
5-METHYL-2,1,3-BENZOSELENADIAZOLE

mf: C₇H₆N₂Se mw: 197.11

SYN: 2,1,3-BENZOSELENADIAZOLE, 5-METHYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#02914

OSHA PEL: TWA 0.2 mg(Se)/m³

ACGIH TLV: TWA 0.2 mg(Se)/m³

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

MHI500 CAS: 2818-88-4 HR: 3
2-METHYLBENZOSELENAZOLE

mf: C₈H₇NSe mw: 196.12

SYN: 2-METHYLBENZSELENAZOL (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,222,72

eye-rbt 500 mg/24H MLD 28ZPAK -,222,72

orl-rat LD50:471 mg/kg 28ZPAK -,222,72

ivn-mus LD50:140 mg/kg CSLNX* NX#05958

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

OSHA PEL: TWA 0.2 mg(Se)/m³

ACGIH TLV: TWA 0.2 mg(Se)/m³

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. An eye and skin irritant. When heated to decomposition it emits very toxic fumes of NO_x and Se. See also SELENIUM COMPOUNDS.

MHI600 CAS: 33082-92-7 HR: D
METHYLBENZOTHIADIAZINE CARBAMATE

mf: C₉H₉N₃O₂S mw: 223.27

SYNS: 1H-2,1,4-BENZOTHIADIAZIN-3-YL-CARBAMIC ACID METHYL ESTER (9CI) □ PP010

TOXICITY DATA with REFERENCE:

cyt-hmn:lvf 100 μmol/L MUREAV 26,177,74

cyt-ham:lng 100 μmol/L JRIHDC 11(4),84,76

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also CARBAMATES and ESTERS.

MHI750 CAS: 120-75-2 HR: 3
2-METHYLBENZOTHIAZOLE

mf: C₈H₇NS mw: 149.22

PROP: A liquid. Mp: 14°, bp: 238°.

SYN: USAF EK-1853

TOXICITY DATA with REFERENCE:

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

ivn-mus LD50:105 mg/kg JPETAB 105,486,52

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MHJ000 CAS: 6112-39-6 HR: 2
3-METHYLBENZOTHIAZOLIUM-p-TOLUENE SULFONATE

SYN: 3-METHYL-BENZOTHIAZOLIUM SALT with 4-METHYLBENZENESULFONIC ACID (1:1)

TOXICITY DATA with REFERENCE:

orl-rat LDLo:1600 mg/kg KODAK* -,71

ipr-rat LDLo:800 mg/kg KODAK* -,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MHJ250 CAS: 1128-67-2 HR: 3
3-METHYL-2-BENZOTHIAZOLONE HYDRAZONE

mf: C₈H₉N₃S mw: 179.26

PROP: Yellow crystals from EtOH. Mp: 144°. Sol in dil acids, EtOH, Me₂CO, and C₆H₆.

SYN: MBTH

TOXICITY DATA with REFERENCE:

ipr-rat LD50:135 mg/kg TXAPA9 36,201,76

ipr-mus LD50:119 mg/kg TXAPA9 36,201,76

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.

MHJ275 CAS: 14448-67-0 HR: 3
3-METHYL-2(3H)-BENZOTHIAZOLONE HYDRAZONE HYDROCHLORIDE

mf: C₈H₉N₃S•ClH mw: 215.72

SYNS: 2-BENZOTHIAZOLINONE, 3-METHYL-, HYDRAZONE, HYDROCHLORIDE □ 2(3H)-BENZOTHIAZOLONE, 3-METHYL-, HYDRAZONE, HYDROCHLORIDE □ BESTHORN'S HYDRAZONE HYDROCHLORIDE □ MBTH HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

mno-sat 1 mg/plate TXCYAC 4,23,88

orl-rat LD50:179 mg/kg TXCYAC 4,23,88

skn-rat LD50:>16 g/kg TXCYAC 4,23,88

orl-rbt LD50:213 mg/kg TXCYAC 4,23,88

skn-rbt LD50:12,300 mg/kg TXCYAC 4,23,88

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

MHJ300 CAS: 92-36-4 HR: 2
p-(6-METHYLBENZOTHIAZOL-2-YL)ANILINE

mf: C₁₄H₁₂N₂S mw: 240.34

SYNS: 2-(p-AMINOPHENYL)-6-METHYLBENZOTHIAZOLE □ BENZENAMINE, 4-(6-METHYL-2-BENZOTHIAZOLYL)-(9CI) □ BENZOTHIAZOLE, 2-(p-AMINOPHENYL)-6-METHYL- □ DEHYDRO-p-TOLUIDINE □ DHPT □ 4-(6-METHYL-2-BENZOTHIAZOLYL)BENZENAMINE

TOXICITY DATA with REFERENCE:ihl-rat LCLo:3 g/m³/4H FCTOD7 22,289,84**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by inhalation. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**MHJ500 CAS: 5090-37-9 HR: 3
2-((2-METHYLBENZO(b)THIEN-3-YL)METHYL)-
2-IMIDAZOLINE HYDROCHLORIDE**mf: C₁₃H₁₄N₂S•ClH mw: 266.81**PROP:** A solid. Mp: 244–246°. Sltly sol in H₂O; insol in CHCl₃.**SYNS:** 4,5-DIHYDRO-2-((2-METHYLBENZO(b)THIEN-3-YL)METHYL)-1H-IMIDAZOLE HYDROCHLORIDE □ ELLSYL □ ELSYL □ EX 10-781 □ H 1032 □ 2-METHYL-3-(Δ²-IMIDAZO-LINYL)METHYL)BENZO(b)THIOPHENE HYDROCHLORIDE □ α-METIL-β-(2-METILENE-4,5-DIHDROIMIDAZOLIL)-BENZOTIOFANE CLORIDRATO (ITALIAN) □ METIZOLINE HYDROCHLORIDE □ RMI 10,482A**TOXICITY DATA with REFERENCE:**

orl-rat LD50:74 mg/kg FRPPAO 21,204,66

orl-mus LD50:155 mg/kg FRPPAO 21,204,66

ipr-mus LD50:49 mg/kg FRPPAO 21,204,66

ivn-mus LD50:9100 µg/kg FRPPAO 21,204,66

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and HCl.**MHJ750 CAS: 1541-60-2 HR: 2
7-METHYL-6H-(1)BENZOTHIOPYRANO(4,3-
b)QUINOLINE**mf: C₁₇H₁₃NS mw: 263.37**TOXICITY DATA with REFERENCE:**

mma-sat 30 µg/plate MUREAV 66,307,79

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.**MHK000 CAS: 29385-43-1 HR: 2
METHYL-1H-BENZOTRIAZOLE**mf: C₇H₇N₃ mw: 133.17**SYN:** COBRATEC TT 100**TOXICITY DATA with REFERENCE:**

mmo-sat 3333 µg/plate EMMUEG 11(Suppl 12),1,88

orl-rat LD50:675 mg/kg HURC* -,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**MHK250 CAS: 136-85-6 HR: 2
5-METHYLBENZOTRIAZOLE**mf: C₇H₇N₃ mw: 133.17**PROP:** A solid. Mp: 83–84°.**SYN:** 5-METHYL-1,2,3-BENZOTRIAZOLE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1600 mg/kg KODAK* -,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.**MHK500 CAS: 95-21-6 HR: 3
2-METHYLBENZOXAZOLE**mf: C₈H₇NO mw: 133.16**PROP:** Bp: 200–201°. Very sol in EtOH.**SYNS:** 2-METHYLBENZOXAZOL (CZECH) □ USAF EK-982**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H SEV 28ZPAK -,157,72

eye-rbt 250 µg/24H SEV 28ZPAK -,157,72

orl-mus LD40:1100 mg/kg JACSAT 67,905,45

ipr-mus LD50:400 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. Moderately toxic by ingestion. A severe skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x.**MHL000 CAS: 31431-39-7 HR: 2
METHYL-5-BENZOYL BENZIMIDAZOLE-2-
CARBAMATE**mf: C₁₆H₁₃N₃O₃ mw: 295.32**PROP:** Crystals from AcOH/MeOH. Mp: 288.5°.**SYNS:** BANTENOL □ 2-BENZIMIDAZOLECARBAMIC ACID, 5-BENZOYL-, METHYL ESTER □ N-2 (5-BENZOYL-BENZIMIDAZOLE) CARBAMATE de METHYLE □ 5-BENZOYL-2-BENZIMIDAZOLECARBAMIC ACID METHYL ESTER □ N-(BENZOYL-5, BENZIMIDAZOLYL)-2, CARBAMATE de METHYLE □ (5-BENZOYL-1H-BENZIMIDAZOL-2-YL)-CARBAMIC ACID METHYL ESTER □ BESANTIN □ LOMPER □ MBDZ □ MEBENDAZOLE (USDA) □ MEBENVET □ METHYL 5-BENZOYL BENZIMIDAZOLE-2-CARBAMATE □ METHYL 5-BENZOYL-2-BENZIMIDAZOLECARBAMATE □ NOVERME □ OVITELMIN □ PANTELMIN □ R 17635 □ TELMIN □ VERMICIDIN □ VERMIRAX □ VERMOX □ VERPANYL**TOXICITY DATA with REFERENCE:**

mma-sat 600 nmol/plate CNREA8 38,4478,78

oms-hmn:leu 1 mg/L THERAP 31,505,76

orl-rat TDLo:78,400 µg/kg (8-15D preg):TER THERAP 31,505,76

orl-rat TDLo:78,400 µg/kg (female 8-15D post):REP BSVMA8 76,147,74

orl-rat LD50:714 mg/kg IYKEDH 19,735,88

orl-mus LD50:620 mg/kg MPPBAB 47,48,78

ipr-mus LD50:712 mg/kg MPPBAB 48,29,79

orl-gpg LDLo:1260 mg/kg TXAPA9 24,371,73

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Moderately toxic by ingestion and intraperitoneal routes. Human mutation data reported. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.**MHL250 CAS: 2606-85-1 HR: 2
6-METHYL-3:4-BENZPHENANTHRENE**mf: C₁₉H₁₄ mw: 242.33

PROP: Crystals from EtOH. Mp: 81–82.5°, bp: 206–208° @ 2 mm.

TOXICITY DATA with REFERENCE:

scu-mus TDLo:4400 mg/kg/67W-I:ETA,REP PRLBA4 129,439,40

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

MHL500 CAS: 2381-19-3 HR: 2
7-METHYL-3,4-BENZPHENANTHRENE

mf: C₁₉H₁₄ mw: 242.33

PROP: A solid. Mp: 53–54°.

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

MHL750 CAS: 4076-40-8 HR: 2
8-METHYL-3:4-BENZPHENANTHRENE

mf: C₁₉H₁₄ mw: 242.33

PROP: A solid. Mp: 65–66°.

SYN: 4-METHYLBENZO(c)PHENANTHRENE

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

MHM000 CAS: 2381-39-7 HR: 2
5-METHYL-3,4-BENZPYRENE

mf: C₂₁H₁₄ mw: 266.35

PROP: Crystals from C₆H₆/ligroin. Mp: 171–171.5°.

SYNS: 6-METHYLBENZO(a)PYRENE □ 5-METHYL-3,4-BENZOPYRENE

TOXICITY DATA with REFERENCE:

mma-sat 6250 ng/plate CNREA8 47,1509,87
dnd-mus-skn 8 μmol/kg CBINA8 47,111,83
mma-ham:lng 3800 nmol/L PNASA6 73,607,76
dnd-uns:lyms 30 μmol/L CBINA8 47,87,83
skn-mus TDLo:43 mg/kg/20W-I:CAR CBINA8 22,53,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MHM100 HR: D
METHYLBENZYL ACETATE

mf: C₁₀H₁₂O₂ mw: 164.20

PROP: Colorless liquid; sweet, nutty odor. D: 1.030–1.035, refr index: 1.501. Sol in fixed oils; sltly sol in propylene glycol; insol in glycerin.

SYN: TOLYL ACETATE

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

MHM250 CAS: 16757-81-6 HR: 2
8-METHYL-3,4-BENZPYRENE

mf: C₂₁H₁₄ mw: 266.35

PROP: Greenish-yellow needles from EtOH/Et₂O. Mp: 146.7–148.1°.

SYN: 3-METHYLBENZO(a)PYRENE

TOXICITY DATA with REFERENCE:

sln-dmg-par 5 mmol/L CNREA8 33,302,73

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MHM500 CAS: 1929-88-0 HR: 2
1-METHYL-3-(2-BENZTHIAZOLYL)UREA

mf: C₉H₉N₃OS mw: 207.27

PROP: Powder. Mp: 287° (decomp). Very sltly sol in H₂O, Me₂CO, and xylene.

SYNS: N-(2-BENZO'THIAZOLYL)-N'-METHYLUREA □ N-(2-BENZTHIAZOLYL)-N'-METHYLHARNSTOFF (GERMAN) □ BENZTHIAZURON □ GATINON

TOXICITY DATA with REFERENCE:

orl-rat LD50:1280 mg/kg FMCHA2 -,D150,80

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MHM510 CAS: 89-93-0 HR: 3
2-METHYLBENZYLAMINE

mf: C₈H₁₁N mw: 121.20

SYN: BENZYLAMINE, o-METHYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#05187

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MHN000 HR: 2
N-METHYLBENZYLAMINE mixed with SODIUM NITRITE (1:1)

SYN: SODIUM NITRITE mixed with N-METHYLBENZYLAMINE (1:1)

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and Na₂O. See also SODIUM NITRITE.

MHN250 HR: 2
METHYLBENZYLAMINE mixed with SODIUM NITRITE (2:3)

SYNS: N-METHYLBENZYLAMINE mixed with SODIUM NITRITE (2:3) □ SODIUM NITRITE mixed with METHYLBENZYLAMINE (3:2)

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and Na₂O. See also SODIUM NITRITE.

MHN300 CAS: 104-82-5 HR: 3**4-METHYLBENZYL CHLORIDE**mf: C₈H₉Cl mw: 140.61CH₃C₆H₄CH₂Cl**PROP:** Fuming liquid. Bp: 200–202°.**SYNS:** BENZENE, 1-(CHLOROMETHYL)-4-METHYL-(9CI) □ p-(CHLOROMETHYL)TOLUENE □ 4-(CHLOROMETHYL)-TOLUENE □ α-CHLORO-p-XYLENE □ p-METHYLBENZYL CHLORIDE □ (4-METHYLPHENYL)METHYL CHLORIDE □ p-TOLYLMETHYL CHLORIDE □ p-XYLYL CHLORIDE**TOXICITY DATA with REFERENCE:**

orl-uns LD50:1100 mg/kg GISAAA 39(4),86,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by an unspecified route. Exothermic decomposition at 55°C is catalyzed by traces of iron. When heated to decomposition it emits toxic fumes of Cl⁻. See also CHLORINATED HYDROCARBONS, AROMATIC.**MHN350 CAS: 699-10-5 HR: 2****METHYL BENZYL DISULFIDE**mf: C₈H₁₀S₂ mw: 170.30**SYN:** DISULFIDE, BENZYL METHYL**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1080 mg/kg DCTODJ 3,249,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of SO_x.**MHN500 CAS: 93-96-9 HR: 2****α-METHYL BENZYL ETHER**mf: C₁₆H₁₈O mw: 226.34**PROP:** Liquid. Mp: -30°, bp: 286.3°, flash p: 275°F (OC), d: 1.0017 @ 20°/20°, vap press: <0.01 mm @ 20°, vap. d: 7.82.**SYN:** ETHER-BIS(α-METHYLBENZYL)**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 7/3/67

orl-rat LD50:9800 mg/kg UCDS** 7/3/67

SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. See also ETHERS.**MHN750 CAS: 10309-79-2 HR: 3****1-METHYL-2-BENZYLHYDRAZINE**mf: C₈H₁₂N₂ mw: 136.22**PROP:** Bp: 117° @ 20 mm.**SYN:** 1-BENZYL-2-METHYLHYDRAZINE**TOXICITY DATA with REFERENCE:**

scu-rat LD50:270 mg/kg IARCCD 4,45,73

SAFETY PROFILE: Poison by subcutaneous route. Questionable carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**MHO000 CAS: 3979-76-8 HR: 3****(α-METHYLBENZYL)HYDRAZINE SULFATE**mf: C₈H₁₂N₂•H₂O₄S mw: 234.30**SYN:** MEBANAZINE SULPHATE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:271 mg/kg IJNEAQ 5,125,66

scu-mus LD50:175 mg/kg IJNEAQ 5,125,66

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.**MHO100 CAS: 103-79-7 HR: 3****METHYL BENZYL KETONE**mf: C₉H₁₀O mw: 134.19**SYNS:** BENZYL METHYL KETONE □ PHENYLACETONE □ α-PHENYLACETONE □ PHENYLMETHYL METHYL KETONE □ 1-PHENYL-2-PROPANONE □ 2-PROPANONE, 1-PHENYL-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:540 mg/kg JPMSAE 60,799,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**MHO200 CAS: 14417-88-0 HR: 2****dl-N-(α-METHYLBENZYL)LINOLEAMIDE**mf: C₂₆H₄₁NO mw: 383.68**SYNS:** ARTES □ AC-223 □ LINOLEAMIDE, N-(α-METHYLBENZYL)- □ MELINAMIDE □ N-(α-METHYLBENZYL)-LINOLEAMIDE □ N-(dl-α-METHYLBENZYL)LINOLEAMIDE □ 9,12-OCTADECADIENAMIDE, N-(1-PHENYLETHYL)-, (9Z,12Z)- □ (Z,Z)-N-(1-PHENYLETHYL)-9,12-OCTADECADIENAMIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>40 g/kg OYYAA2 4,327,1970

ipr-rat LD50:>20 g/kg OYYAA2 4,327,1970

scu-rat LD50:>40 g/kg OYYAA2 4,327,1970

orl-mus LD50:>50 g/kg OYYAA2 4,327,1970

ipr-mus LD50:2914 mg/kg YKYUA6 35,1343,1984

scu-mus LD50:>20 g/kg OYYAA2 4,327,1970

orl-dog LD50:>10 g/kg YKYUA6 35,1343,1984

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Low toxicity by ingestion and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x.**MHP250 CAS: 937-40-6 HR: 3****N-METHYL-N-BENZYLNITROSAMINE**mf: C₈H₁₀N₂O mw: 150.20**SYNS:** METHYL-BENZYL-NITROSOAMIN (GERMAN) □ N-METHYL-N-NITROSOBENZYLAMINE □ N-NITROSOBENZYL-METHYLAMINE □ N-NITROSOMETHYLBENZYLAMINE**TOXICITY DATA with REFERENCE:**

mma-sat 50 µg/plate JMCMA 29,40,86

mma-esc 5 µmol/plate GANNA2 75,8,84

mma-ham:lng 200 µmol/L CRNGDP 6,1731,85

sce-ham:lng 1 mmol/L CRNGDP 6,1731,85

orl-rat LD50:18 mg/kg NATWAY 50,100,63

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also NITROSAMINES.

MHP400 CAS: 1674-62-0 HR: 3
1-METHYLBIGUANIDE HYDROCHLORIDE

mf: $\text{C}_3\text{H}_9\text{N}_5 \cdot \text{ClH}$ mw: 151.63

SYNS: N-METHYLIMIDODICARBONIMIDIC DIAMIDE MONOHYDROCHLORIDE □ 1-METILBIGUANIDE CLORIDRATO (ITALIAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1754 mg/kg FRPSAX 15,521,60

ipr-rat LD50:325 mg/kg FRPSAX 15,521,60

orl-mus LD50:1750 mg/kg ARZNAD 12,314,62

ipr-mus LD50:562 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.

MHP500 CAS: 92-91-1 HR: 3
METHYL 4-BIPHENYLYL KETONE

mf: $\text{C}_{14}\text{H}_{12}\text{O}$ mw: 196.26

SYNS: ACETOPHENONE, 4'-PHENYL- □ p-ACETYLBIPHENYL □ 4-ACETYLBIPHENYL □ 4-BIPHENYLYL METHYL KETONE □ 1-(1,1'-BIPHENYL)-4-YLETHANONE □ ETHANONE, 1-(1,1'-BIPHENYL)-4-YL-(9CI) □ p-PHENYLACETOPHENONE □ 4'-PHENYLACETOPHENONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:>2 g/kg MEXPAG 11,137,64

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

MHQ500 CAS: 63915-54-8 HR: 3
METHYL-BIS(2-CHLOROETHYLMERCAPTO-ETHYL)AMINE HYDROCHLORIDE

mf: $\text{C}_9\text{H}_{19}\text{Cl}_2\text{NS}_2 \cdot \text{ClH}$ mw: 312.77

SYNS: 2,2'-BIS(2-CHLOROETHYLMERCAPTO)-N-METHYLDI-ETHYLAMINE HYDROCHLORIDE □ METHYLBIS(β-CHLORO-ETHYLTHIOETHYL)AMINE HYDROCHLORIDE □ TL 1002

TOXICITY DATA with REFERENCE:

ihl-mus LCLo:220 mg/m³/10M NDRC** No. 9-4-1-19,44

ipr-mus LD50:8 mg/kg CANCAR 2,1055,49

scu-mus LDLo:25 mg/kg NTIS** PB158-507

SAFETY PROFILE: Poison by inhalation, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Cl^- , NO_x , and SO_x .

MHQ750 CAS: 1555-58-4 HR: 2
METHYL BIS(β-CYANOETHYL)AMINE

mf: $\text{C}_7\text{H}_{11}\text{N}_3$ mw: 137.21

SYNS: DI(2-CIANOETIL)METILAMMINA □ 2466 I.S. □ METHYL BIS(β-CYANOETHYL)AMINE □ N-METHYL-BIS-(2-KYANETHYL)AMIN □ N-METHYL-3,3'-IMINODIPROPIO-NITRILE □ PROPANENITRILE, 3,3'-(METHYLIMINO)BIS-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,924,86

eye-rbt 500 mg open AMIHBC 10,61,54

eye-rbt 500 mg/24H MLD 85JCAE -,924,86
 orl-rat LD50:890 mg/kg AMIHBC 10,61,54
 ipr-mus LD50:500 mg/kg FRPSAX 17,753,62
 skn-rbt LD50:800 mg/kg AMIHBC 10,61,54

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

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and intraperitoneal routes. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

MHQ775 CAS: 36148-80-8 HR: 3
N-METHYL-N,N-BIS(3-METHYLSULFONYLOXY PROPYL)AMINE 4,4'-BIPHENYL-DISULFONATE

mf: $\text{C}_9\text{H}_{21}\text{NO}_6\text{S}_2 \cdot \text{C}_{12}\text{H}_{10}\text{O}_6\text{S}_2$ mw: 617.77

SYNS: 838-D □ 3,3'-(METHYLIMINO)BIS-1-PROPANOL DIMETHANESULFONATE (ESTER), (1,1'-BIPHENYL)-4,4'-DISULFOANTE (1:1) (SALT)

TOXICITY DATA with REFERENCE:

orl-mus LD50:230 mg/kg YKKZAJ 93,47,73

ipr-mus LD50:190 mg/kg YKKZAJ 93,47,73

scu-mus LD50:205 mg/kg YKKZAJ 93,47,73

ivn-mus LD50:190 mg/kg YKKZAJ 93,47,73

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

MHR000 HR: 3
METHYLBISMUTH OXIDE

mf: CH_3BiO mw: 240.01

SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of Bi. See also BISMUTH COMPOUNDS.

MHR025 CAS: 110553-27-0 HR: D
2-METHYL-4,6-BIS((OCTYLTHIO)METHYL)-PHENOL

mf: $\text{C}_{25}\text{H}_{44}\text{OS}_2$ mw: 424.81

SYNS: O 4 (RUSSIAN STABILIZER) □ IRGANOX 1520 □ PHENOL, 2-METHYL-4,6-BIS((OCTYLTHIO)METHYL)-

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of SO_x .

MHR050 CAS: 1817-68-1 HR: 1
4-METHYL-2,6-BIS(1-PHENYLETHYL)PHENOL

mf: $\text{C}_{23}\text{H}_{24}\text{O}$ mw: 316.47

SYNS: ALKOFEN MBP □ 2,6-BIS(1-PHENYLETHYL)-4-METHYLPHENOL □ p-CRESOL, 2,6-BIS(α-METHYLBENZYL)- □ IONOL 6 □ PHENOL, 4-METHYL-2,6-BIS(1-PHENYLETHYL)-(9CI)

TOXICITY DATA with REFERENCE:

orl-mus LD50:4300 mg/kg 85JCAE -,232,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MHR100 CAS: 81910-05-6 HR: D**METHYL BOTRYODIPLODIN****SYNS:** 2-METHOXY-3-METHYL-4-

ACETYL-TETRAHYDROFURAN □ TETRAHYDRO-2-ACETYL-4-METHOXY-3-METHYLFURAN

TOXICITY DATA with REFERENCE:

dnd-hmn:oth 10 µmol/L CRNGDP 3,211,82

dnd-rat:oth 10 µmol/L CRNGDP 3,211,82

SAFETY PROFILE: Human mutation data reported.When heated to decomposition it emits toxic fumes of NO_x.**MHR150 CAS: 13104-21-7 HR: 3****METHYLBROMFENVINPHOS**mf: C₁₀H₁₀BrCl₂O₄P mw: 375.98**SYNS:** BROMFENVINPHOS-METHYL □ O-1-(2,4-DICHLOROPHENYL)-2-BROMOVINYL-O,O-DIMETHYL PHOSPHATE □ O,O-DWUMETYLO-O-1-(2,4-DWUCHLOROPHENYL)-2-BROMOVINYLOFOSFORAN □ ENT 27,043 □ IPO 63 □ METHYLBROMPHENVINPHOS □ PHOSPHORIC ACID, 2-BROMO-1-(2,4-DICHLOROPHENYL)ETHENYL DIMETHYL ESTER (9CI) □ PHOSPHORIC ACID, 2-BROMO-1-(2,4-DICHLOROPHENYL)VINYL DIMETHYL ESTER □ POLFOS □ POLPHOS □ SD 8988 □ SD 8988 (SHELL) □ SHELL SD-8988**TOXICITY DATA with REFERENCE:**

orl-rat LD50:225 mg/kg BCTKAG 9,283,76

skn-rat LD50:>2 g/kg APYPAY 32,507,81

scu-rat LD50:405 mg/kg APYPAY 31,575,80

SAFETY PROFILE: A poison by ingestion and subcutaneous routes. Moderately toxic by skin contact. When heated to decomposition it emits toxic vapors of PO_x, Br⁻, and Cl⁻.**MHR200 CAS: 74-83-9 HR: 3****METHYL BROMIDE**mf: CH₃Br mw: 94.95**PROP:** Colorless, transparent, volatile liquid or gas; burning taste, chloroform-like odor. Bp: 3.56°, lel: 13.5%, uel: 14.5%, fp: -93°, flash p: none, d: 1.732 @ 0°/0°, autoign temp: 998°F, vap d: 3.27, vap press: 1824 mm @ 25°. Sltly sol in water. IDLH 250 ppm.**SYNS:** BROM-METHAN (GERMAN) □ BROMOMETANO (ITALIAN) □ BROMOMETHANE □ BROMO-O-GAS □ BROMURE de METHYLE (FRENCH) □ BROMURO di METILE (ITALIAN) □ BROOMMETHAAN (DUTCH) □ DAWSON 100 □ DOWFUME □ DOWFUME MC-2 SOIL FUMIGANT □ EDCO □ EMBAFUME □ FUMIGANT-1 (OBS.) □ HALON 1001 □ ISCO-BROME □ KAYAFUME □ MB □ MBX □ MEBR □ META-FUME □ METHOGAS □ METHYLBROMID (GERMAN) □ METYLU BROMEK (POLISH) □ MONOBROMOMETHANE □ PEST-MASTER (OBS.) □ PROFUME (OBS.) □ R 40B1 □ RCRA WASTE NUMBER U029 □ ROTOX □ TERABOL □ TERR-O-GAS 100 □ ZYTOX**TOXICITY DATA with REFERENCE:**mma-sat 5 g/m³ MUREAV 116,185,83mmo-klp 4750 mg/m³ MUREAV 155,41,85

orl-rat TDLo:3250 mg/kg/13W-I:CAR TXAPA9 72,262,84

ihl-man LCLo:60,000 ppm/2H BJIMAG 2,24,45

ihl-chd LCLo:1 mg/m³/2H NHOZAX 23,241,69

ihl-hmn TCLo:35 ppm:GIT INMEAF 11,575,42

orl-rat LD50:214 mg/kg TXAPA9 72,262,84

ihl-rat LC50:302 ppm/8H TXAPA9 81,183,85

ihl-mus LC50:1540 mg/m³/2H 85GMAT -,81,82
ihl-rbt LCLo:2000 mg/m³/11H JIHTAB 22,218,40
ihl-gpg LCLo:300 ppm/9H XPHBAO 185,1,29**CONSENSUS REPORTS:** IARC Cancer Review:

Group 3 IMEMDT 7,245,87; Human Inadequate Evidence IMEMDT 41,187,86; Animal Limited Evidence IMEMDT 41,187,86. Reported in EPA TSCA Inventory. Community Right-To-Know List. EPA Extremely Hazardous Substances List.

OSHA PEL: TWA 5 ppm (skin)**ACGIH TLV:** TWA 1 ppm (skin); Not Classifiable as a Human Carcinogen**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (Monohalomethanes) Reduce to lowest level**SAFETY PROFILE:** Suspected carcinogen with experimental carcinogenic data. A human poison by inhalation. Human systemic effects by inhalation: anorexia, nausea or vomiting. Corrosive to skin; can produce severe burns. Human mutation data reported. A powerful fumigant gas that is one of the most toxic of the common organic halides. It is hemotoxic and narcotic with delayed action. The effects are cumulative and damaging to nervous system, kidneys, and lung. Central nervous system effects include blurred vision, mental confusion, numbness, tremors, and speech defects.

Methyl bromide is reported to be eight times more toxic on inhalation than ethyl bromide. Moreover, because of its greater volatility, it is a much more frequent cause of poisoning. Death following acute poisoning is usually caused by its irritant effect on the lungs. In chronic poisoning, death is due to injury to the central nervous system. Fatal poisoning has always resulted from exposure to relatively high concentrations of methyl bromide vapors (from 8600 to 60,000 ppm). Nonfatal poisoning has resulted from exposure to concentrations as low as 100–500 ppm. In addition to injury to the lung and central nervous system, the kidneys may be damaged, with development of albuminuria and, in fatal cases, cloudy swelling and/or tubular degeneration. The liver may be enlarged. There are no characteristic blood changes.

Mixtures of 10–15 percent with air may be ignited with difficulty. Moderately explosive when exposed to sparks or flame. Forms explosive mixtures with air within narrow limits at atmospheric pressure, with wider limits at higher pressure. The explosive sensitivity of mixtures with air may be increased by the presence of aluminum, magnesium, zinc, or their alloys. Incompatible with metals, dimethyl sulfoxide, ethylene oxide. To fight fire, use foam, water, CO₂, dry chemical. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Methyl Bromide, 2520.**MHR250 CAS: 96-32-2 HR: 3****METHYL BROMOACETATE****DOT:** UN 2643mf: C₃H₅BrO₂ mw: 152.99**PROP:** Liquid. Bp: 51–52° @ 15 mm.

SYNS: BROMOACETIC ACID METHYL ESTER □ METHYL α-BROMOACETATE □ METHYLESTER KYSELINY
BROMOCTOVE □ METHYL MONOBROMOACETATE

TOXICITY DATA with REFERENCE:

ivn-mus LDLo:16 mg/kg CBCCT* 6,138,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by intravenous route.

When heated to decomposition it emits toxic fumes of Br⁻. See also ESTERS.

MHR500 CAS: 583-75-5 HR: D
2-METHYL-4-BROMOANILINE

mf: C₇H₈BrN mw: 186.07

PROP: Crystals from EtOH. Mp: 55°.

TOXICITY DATA with REFERENCE:

mma-sat 1 μmol/plate MUREAV 77,317,80

dnd-ham:lng 3 mmol/L/4H MUREAV 77,317,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and Br⁻. See also BROMIDES.

MHR750 CAS: 67880-26-6 HR: 3
METHYL-4-BROMOBENZENEDIAZOATE

mf: C₇H₇BrN₂O mw: 215.05

BrC₆H₄N=NOCH₃

SAFETY PROFILE: Explodes on heating. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.

MHR790 CAS: 1117-71-1 HR: 3
METHYL 4-BROMOCROTONATE

mf: C₅H₇BrO₂ mw: 179.03

SYNS: 2-BUTENOIC ACID, 4-BROMO-, METHYL ESTER (9CI) □ CROTONIC ACID, 4-BROMO-, METHYL ESTER □ METHYL 4-BROMO-2-BUTENOATE □ METHYL BROMOCROTONATE □ METHYL γ-BROMOCROTONATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#00811

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route.

When heated to decomposition it emits toxic vapors of Br⁻.

MHS250 CAS: 23471-23-0 HR: 3
METHYL-(BROMOMERCURI)FORMATE

mf: C₂H₃BrHgO₂ mw: 339.55

PROP: IDLH 10 mg/m³ (as Hg).

SYN: BROMO(METHOXYCARBONYL) MERCURY

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#05824

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

SAFETY PROFILE: Poison by intravenous route.

When heated to decomposition it emits very toxic fumes of Hg and Br⁻. See also MERCURY COMPOUNDS and BROMIDES.

MHS300 CAS: 4224-69-5 HR: 2
METHYL 2-(BROMOMETHYL)ACRYLATE

mf: C₅H₇BrO₂ mw: 179.03

SYNS: ACRYLIC ACID, 2-(BROMOMETHYL)-, METHYL ESTER

□ METHYL α-(BROMOMETHYL)ACRYLATE □ METHYL 2-(BROMOMETHYL)-2-PROPENOATE □ 2-PROPENOIC ACID, 2-(BROMOMETHYL)-, METHYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV EPASR* 8EHQ-1090-1048S

SAFETY PROFILE: A severe skin irritant. When heated to decomposition it emits toxic vapors of Br⁻.

MHS375 CAS: 20680-07-3 HR: 2
1-METHYL-3-(p-BROMOPHENYL)UREA

mf: C₈H₉BrN₂O mw: 229.10

SYNS: BROMDEFENURON □ 1-(p-BROMOPHENYL)-3-METHYLUREA □ 1-METHYL-3-(p-BROMOPHENYL)HARNSTOFF □ UREA, N-(4-BROMOPHENYL)-N'-METHYL- (9CI)

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

MHS400 CAS: 61203-01-8 HR: 3
METHYL 1-BROMOVINYL KETONE

mf: C₄H₅BrO mw: 149.00

SYNS: 3-BROMO-3-BUTEN-2-ONE □ 3-BUTEN-2-ONE, 3-BROMO-

TOXICITY DATA with REFERENCE:

mmo-sat 5 μmol/plate MUTAEX 2,287,87

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mutation data reported. A flammable liquid. When heated to decomposition it emits toxic vapors of Br⁻.

MHS500 CAS: 2938-98-9 HR: 2
2-METHYL-1,4-BUTANEDIOL

mf: C₅H₁₂O₂ mw: 104.17

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:5460 mg/kg AMIHBC 4,119,51

skn-rbt LD50:2620 mg/kg AMIHBC 4,119,51

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

MHS550 CAS: 1679-09-0 HR: 3
2-METHYL-2-BUTANETHIOL

mf: C₅H₁₂S mw: 104.23

SYNS: tert-AMYL MERCAPTAN □ tert-AMYLTHIOL □ 2-BUTANETHIOL, 2-METHYL- □ tert-PENTYL MERCAPTAN

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL/24H MLD NTIS** OTS0571997

orl-rat LDLo:5 g/kg NTIS** OTS0571997

ihl-rat LC :>20 g/m³/1H NTIS** OTS0571997

skn-rat LD :>2 g/kg NTIS** OTS0571997

SAFETY PROFILE: A poison by ingestion, inhalation, and skin contact. A mild eye irritant. When heated to decomposition it emits toxic vapors of SO_x.

MHS600 CAS: 116-53-0 HR: 2
2-METHYLBUTANOIC ACID

mf: C₅H₁₀O₂ mw: 102.15

SYNS: ACTIVE VALERIC ACID □ BUTANOIC ACID, 2-METHYL- □ BUTYRIC ACID, 2-METHYL-(6Cl,8Cl) □ ETHYLMETHYLACETIC ACID □ α-METHYLBUTYRIC ACID □ 2-METHYLBUTYRIC ACID □ METHYLETHYLACETIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:1870 µL/kg JACTDZ 1,171,92

skn-rbt LD50:1460 µL/kg JACTDZ 1,171,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MHS750 CAS: 137-32-6 HR: 3
2-METHYL BUTANOL-1

mf: C₅H₁₂O mw: 88.15

PROP: Colorless liquid. D: 0.81–0.82 @ 20°, fp: <–70°, bp: 128°, flash p: 122°F (OC), vap d: 3.0, lel: 1.4%, uel: 9.0%. Sltly sol in water; misc with alc and ether.

SYNS: dl-sec-BUTYLCARBINOL □ 2-METHYLBUTANOL

TOXICITY DATA with REFERENCE:

skn-rbt 8193 µg/24H open MLD AIHAAP 23,95,62

orl-rat LD50:1 g/kg SCIEAS 116,663,52

ipr-rat LDLo:1900 mg/kg JIHTAB 27,1,45

skn-rbt LDLo:3540 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by skin contact and intraperitoneal routes. Mildly toxic by ingestion. An eye, skin, and mucous membrane irritant. Can cause deafness, delirium, headache, nausea, and vomiting. Flammable liquid when exposed to heat, flame, or oxidizers. Explosive in the form of vapor when exposed to heat or flame. Incompatible with H₂S₃. To fight fire, use alcohol foam, spray, mist, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.

MHT000 CAS: 563-46-2 HR: 3
2-METHYL-1-BUTENE

mf: C₅H₁₀ mw: 70.14

PROP: Colorless, extremely volatile liquid or gas. D: 0.7, vap d: 2.4, bp: 31.05°, flash p: –4°F. Insol in water.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A simple asphyxiant. Very dangerous fire hazard when exposed to heat, flame, or oxidizers. To fight fire, use dry chemical, CO₂, foam. When heated to decomposition it emits acrid smoke and irritating fumes.

MHT250 CAS: 563-45-1 HR: 3

3-METHYL-1-BUTENE

mf: C₅H₁₀ mw: 70.14

PROP: Colorless, very volatile liquid or gas; disagreeable odor. Bp: 20.1°, d: 0.65 @ 20°/20°, fp: –137.5°, flash p: 19.4°F, vap d: 2.4, lel: 1.5%, uel: 9.1%. Insol in water; sol in alc.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Very dangerous fire hazard when exposed to heat, flame, or oxidizers. Explosive in the form of vapor when exposed to heat or flame. To fight fire, use alcohol foam, mist, spray, dry chemical, CO₂. When heated to decomposition it emits acrid smoke and irritating fumes. See also 2-METHYL-1-BUTENE.

MHT500 CAS: 541-47-9 HR: 2
3-METHYL-2-BUTENOIC ACID

mf: C₅H₈O₂ mw: 100.13

PROP: Prisms from H₂O. Mp: 70°, bp: 199°.

SYNS: β,β-DIMETHYLACRYLIC ACID □ 3,3-DIMETHYL-ACRYLIC ACID □ β-METHYLCROTONIC ACID □ 3-METHYLCROTONIC ACID □ SENEIOIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 8/23/67

skn-rbt 100 mg/24H MOD 85JCAE -,309,86

eye-rbt 1 mg SEV UCDS** 8/23/67

eye-rbt 250 µg/24H SEV 85JCAE -,309,86

orl-rat LD50:3560 mg/kg TXAPA9 28,313,74

orl-mus LD50:2580 mg/kg GTPZAB 29(4),52,85

orl-gpg LD50:3 g/kg GTPZAB 29(4),52,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MHU100 CAS: 115-18-4 HR: 2
3-METHYL-1-BUTEN-3-OL

mf: C₅H₁₀O mw: 86.15

PROP: Oil. Bp: 98–99°.

SYNS: METHYLBUTENOL □ 2-METHYL-3-BUTEN-2-OL □ 3-METHYL-BUTEN-(1)-OL-(3) (GERMAN)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1315 mg/kg PLMEAA 48,120,83

ipr-mus LD50:800 mg/kg IJOCAP 14,449,76

scu-mus LD50:1680 mg/kg ARZNAD 5,161,55

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

MHU110 CAS: 556-82-1 HR: 2
3-METHYL-2-BUTEN-1-OL

mf: C₅H₁₀O mw: 86.15

PROP: Oil. Bp: 137–138°.

SYNS: DIMETHYLALLYL ALCOHOL □ γ,γ-DIMETHYLALLYL ALCOHOL □ 3,3-DIMETHYLALLYL ALCOHOL □ PRENOL □ PRENYL ALCOHOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,895,79

orl-rat LD50:810 mg/kg FCTXAV 17,895,79

skn-rbt LD50:3900 mg/kg FCTXAV 17,895,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by skin contact and ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALLYL COMPOUNDS and ALCOHOLS.

MHU150 CAS: 5205-11-8 HR: 2
3-METHYL-2-BUTENYL BENZOATE

mf: C₁₂H₁₄O₂ mw: 190.26

SYNS: BENZOIC ACID, 3-METHYL-2-BUTENYL ESTER □ 2-BUTEN-1-OL, 3-METHYL-, BENZOATE □ PRENYL BENZOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 20,819,82

orl-rat LD50:4700 mg/kg FCTOD7 20,819,82

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.

MHU200 CAS: 6966-40-1 HR: 3
5-(1-METHYL-1-BUTENYL)-5-PROPYL-BARBITURIC ACID

mf: C₁₂H₁₈N₂O₃ mw: 238.32

TOXICITY DATA with REFERENCE:

orl-mus LD50:320 mg/kg JACSAT 61,776,39

ipr-mus LD50:270 mg/kg JACSAT 61,776,39

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

MHU250 CAS: 78-80-8 HR: 3
2-METHYL-1-BUTEN-3-YNE

mf: C₅H₆ mw: 66.11

PROP: A liquid. Flash p: <19.4°F, bp: 34°. Sol in Me₂CO.

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD SCCUR* -,6,61

orl-rat LDLo:639 mg/kg SCCUR* -,6,61

orl-mus LDLo:350 mg/kg SCCUR* -,6,61

ihl-mus LC50:14 pph/6M SCCUR* -,6,61

SAFETY PROFILE: Poison by ingestion. Mildly toxic by inhalation. A skin irritant. A very dangerous fire hazard when exposed to heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.

MHU500 HR: 3
3-METHYL-3-BUTEN-1-YNYLTRIETHYLLEAD

mf: C₁₁H₂₀Pb mw: 359.47

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

SAFETY PROFILE: Explodes on rapid heating. When heated to decomposition it emits toxic fumes of Pb. See also LEAD COMPOUNDS.

MHU750 CAS: 97-88-1 HR: 3
2-METHYL BUTYLACRYLATE

DOT: UN 2227

mf: C₈H₁₄O₂ mw: 142.22

PROP: Colorless liquid; ester odor. Bp: 163°, flash p: 126°F (TOC), lel: 2%, uel: 8%, autoign temp: 562°F, vap press: 4.9 mm @ 20°, d: 0.895 @ 20°/4°, vap d: 4.8.

SYNS: BUTIL METACRILATO (ITALIAN) □ BUTYLMETH-ACRYLAAT (DUTCH) □ N-BUTYL METHACRYLATE □ BUTYL-2-METHACRYLATE □ BUTYL-2-METHYL-2-PROPENOATE □ METHACRYLATE de BUTYLE (FRENCH) □ METHACRYL-SAEUREBUTYLESTER (GERMAN) □ 2-METHYL-BUTYL-ACRYLAAT (DUTCH) □ 2-METHYL-BUTYLACRYLAT (GERMAN)

TOXICITY DATA with REFERENCE:

skn-rbt 10 g/kg open JIHTAB 23,343,41

orl-rat LD50:22,600 mg/kg AIHAAP 30,470,69

ihl-rat LC50:4910 ppm/4H JTEHD6 16,811,85

ipr-rat LD50:2304 mg/kg JDREAF 51,1632,72

orl-mus LD50:12,900 mg/kg GISAAA 41(4),6,76

ipr-mus LD50:1490 mg/kg JPMSE 62,778,73

orl-rbt LDLo:6270 mg/kg JIHTAB 23,343,41

skn-rbt LD50:11,300 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion, inhalation, and skin contact. An experimental teratogen.

Experimental reproductive effects. A skin irritant.

Flammable liquid when exposed to heat or flame.

Explosive in the form of vapor when exposed to heat or flame. Violent polymerization can be caused by heat, moisture, oxidizers. To fight fire, use foam, dry chemical, CO₂. When heated to decomposition it emits acrid smoke and irritating fumes.

MHV000 CAS: 110-68-9 HR: 3
N-METHYL-n-BUTYLAMINE

DOT: UN 2945

mf: C₅H₁₃N mw: 87.19

PROP: Liquid. D: 0.7335, bp: 91.1°, vap d: 3.0, flash p: 35.6°F. Sol in water.

SYNS: METHYLBUTYLAMINE □ N-(METHYL) BUTYL AMINE

TOXICITY DATA with REFERENCE:

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

eye-rbt 74 mg SEV UCDS** 7/6/70

orl-rat LD50:420 mg/kg UCDS** 7/6/70

ihl-rat LCLo:2000 ppm/4H UCDS** 7/6/70

ipr-mus LD50:471 mg/kg JPETAB 88,82,46

ivn-mus LD50:122 mg/kg JPETAB 88,82,46

skn-rbt LD50:1260 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intravenous route.

Moderately toxic by ingestion, skin contact, and intraperitoneal routes. Mildly toxic by inhalation. A skin and severe eye irritant. Flammable liquid when exposed to heat, sparks, or flame. To fight fire, use alcohol foam. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

MHV750 CAS: 4435-53-4 HR: 3

METHYL-1,3-BUTYLENE GLYCOL ACETATE**DOT:** UN 2708mf: C₇H₁₄O₃ mw: 146.21**PROP:** Liquid; bitter taste and acrid odor. Bp: 135°, flash p: 170°F, d: 0.952–0.958 @ 20°/20°, vap d: 5.05.**SYNS:** ACETIC ACID-3-METHOXYBUTYL ESTER □ BUTOXYL □ 3-METHOXYBUTYL ACETATE □ 3-METHOXYBUTYLESTER KYSELINY OCTOVE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD 85JCAE -,712,86

eye-rbt 100 mg/24H MOD 85JCAE -,712,86

eye-rbt 20 mg open AMIHBC 10,61,54

orl-rat LD50:4210 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Mildly toxic by ingestion. A skin and eye irritant. A flammable liquid. Flammable 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 irritating fumes.**MHV859 CAS: 1634-04-4 HR: 3****METHYL tert-BUTYL ETHER****DOT:** UN 2398mf: C₅H₁₂O mw: 88.17**PROP:** Bp: 54°, d: 0.741 @ 20°/4°. Sltly sol in water.**SYNS:** 2-METHOXY-2-METHYLPROPANE □ METHYL 1,1-DIMETHYLETHYL ETHER □ METHYL tert-BUTYL ETHER (DOT) □ MTBE □ PROPANE, 2-METHOXY-2-METHYL- (9CI)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4 g/kg NTIS** PB87-174603

ihl-rat LC50:23,576 ppm/4H NTIS** PB87-174603

ipr-rat LD:>148 mg/kg JSGRA2 53,572,92

ivn-rat LDLo:148 mg/kg JSGRA2 53,572,92

ihl-mus LC50:141 g/m³/15M ANESAV 11,455,50**CONSENSUS REPORTS:** Community Right-To-Know List. Reported in EPA TSCA Inventory.**ACGIH TLV:** TWA 50 ppm; Confirmed Animal Carcinogen with Unknown Revelance to Humans**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Poison by intravenous route. Slightly toxic by ingestion and inhalation. Flammable when exposed to heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Methyl tert-Butyl Ether (MTBE) 1615.**MHW000 CAS: 20240-62-4 HR: 2****METHYLBUTYL HYDRAZINE**mf: C₅H₁₄N₂ mw: 102.21**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also HYDRAZINE.**MHW250 CAS: 73454-79-2 HR: 2**
1-METHYL-2-BUTYL-HYDRAZINE DIHYDRO-**CHLORIDE**mf: C₅H₁₄N₂•2ClH mw: 175.13**SYN:** 1-BUTYL-2-METHYL-HYDRAZINE DIHYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

unr-rat LD50:600 mg/kg 23HZAR -,267,70

SAFETY PROFILE: Moderately toxic by an unspecified route. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.**MHW260 HR: D****2-METHYLBUTYL ISOVALERATE**mf: C₁₀H₂₀O₂ mw: 172.27**PROP:** Colorless liquid; herbaceous, fruity odor. D: 0.852, refr index: 1.413. Sol in alc, fixed oils; insol in water.**SYNS:** FEMA No. 2753 □ 2-METHYLBUTYL-3-METHYLBUTANOATE**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**MHW350 CAS: 71016-15-4 HR: 3**
N-3-METHYLBUTYL-N-1-METHYL ACETONYL-NITROSAMINEmf: C₉H₁₈N₂O₂ mw: 186.29**PROP:** Pale-yellow oil.**SYNS:** 3-(ISOPENTYL)NITROSOAMINO)-2-BUTANONE □ MAMBNA**TOXICITY DATA with REFERENCE:**

mma-sat 2 g/L CRNGDP 1,867,80

otr-ham:lng 500 mg/L SSBSEF 25,738,82

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.**MHW500 CAS: 7068-83-9 HR: 3**
METHYLBUTYLNITROSAMINEmf: C₅H₁₂N₂O mw: 116.19**PROP:** A liquid. Bp: 107.1–107.7° @ 40 mm.**SYNS:** MBNA □ METHYL-BUTYL-NITROSAMIN (GERMAN) □ METHYL-N-BUTYLNITROSAMINE □ N-METHYL-N-NITROSOBUTYLAMINE □ N-NITROSO-N-BUTYLMETHYLAMINE □ N-NITROSOMETHYL-N-BUTYLAMINE □ NMBA**TOXICITY DATA with REFERENCE:**

mmo-sat 1 mg/plate TCMUD8 1,295,80

mma-sat 10 μmol/plate TCMUE9 1,13,84

mma-esc 100 μmol/L MUREAV 26,361,74

pic-esc 100 mg/L TCMUE9 1,91,84

orl-rat LD50:130 mg/kg BJIMAG 19,276,62

ihl-rat LD50:90 mg/kg ZEKBAI 71,135,68

ipr-rat LD50:120 mg/kg BIJOAK 85,72,62

scu-rat LD50:90 mg/kg ZEKBAI 71,135,68

orl-mus LD50:25 mg/kg 85DUA4 -,129,70

scu-mus LD50:10 mg/kg 85DUA4 -,129,70

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Poison by ingestion, inhalation, intraperitoneal, and subcutaneous routes. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to

decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #38.

MHW750 CAS: 2504-18-9 HR: 2
METHYL-*tert*-BUTYLNITROSAMINE

mf: C₅H₁₂N₂O mw: 116.19

TOXICITY DATA with REFERENCE:

ipr-rat LD50:700 mg/kg BJIMAG 19,276,62
 scu-rat LD50:630 mg/kg ZKKOBW 80,17,73

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

MXH000 CAS: 38285-49-3 HR: 1
5-METHYL-3-BUTYLTETRAHYDROPYRAN-4-YL ACETATE

mf: C₁₂H₂₂O₃ mw: 214.34

SYNS: ACETIC ACID, 3-BUTYL-5-METHYL-TETRAHYDRO-2H-PYRAN-4-YL ESTER □ 3-BUTYL-5-METHYL-TETRAHYDRO-2H-PYRAN-4-YL ACETATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,601,76
 orl-rat LD50:>5 g/kg FCTXAV 14,601,76
 skn-rbt LD50:>5 g/kg FCTXAV 14,601,76

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.

MXH100 CAS: 76858-53-2 HR: 3
2-((o-(N-METHYL-N-(*tert*-BUTYLTHIOSULFENYL)CARBAMOYL)OXIMINO))-1,3-DITHIOLANE

mf: C₉H₁₆N₂O₂S₄ mw: 312.51

SYN: 1,3-DITHIOLAN-2-ONE, o-(((1,1-DIMETHYLETHYL)-DITHIO)METHYLAMINO)CARBONYL)OXIME

TOXICITY DATA with REFERENCE:

orl-rat LD50:5600 µg/kg USXXAM #4232035

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

MXH200 CAS: 2978-58-7 HR: 2
2-METHYL-3-BUTYN-2-AMINE

mf: C₅H₉N mw: 83.15

SYNS: 3-AMINO-3-METHYL-1-BUTYNE □ 3-BUTYN-2-AMINE, 2-METHYL- □ 30-D-11 □ 1,1-DIMETHYLPROPARGYLAMINE □ 1,1-DIMETHYLPROPYNYLAMINE □ 2-PROPYNYLAMINE, 1,1-DIMETHYL-

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL MOD NTIS** OTS0537061
 orl-rat LD50:1470 mg/kg NTIS** OTS0537061

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

MXH250 CAS: 115-19-5 HR: 3
2-METHYL-3-BUTYN-2-OL

mf: C₅H₈O mw: 84.13

PROP: Colorless liquid. Mp: 2.6°, bp: 104–105°, vap d: 2.49, d: 0.8672 @ 20°/20°, flash p: < 69.8°F. Misc with water, acetone, benzene, carbon tetrachloride, cellosolve, etc.

SYNS: 1-BUTYN-3-OL, 3-METHYL- □ DIMETHYLACETYLENE-CARBINOL □ DIMETHYLACETYLENYLCARBINOL □ DIMETHYLETHYNYLCARBINOL □ DIMETHYLETHYNYL-METHANOL □ α-α-DIMETHYLPROPARGYL ALCOHOL □ 1,1-DIMETHYLPROPARGYL ALCOHOL □ 1,1-DIMETHYLPROPYN-OL □ ETHYNYLDIMETHYLCARBINOL □ 2-HYDROXY-2-METHYL-3-BUTYNE □ MBY □ 3-METHYL-BUTIN-(1)-OL-(3) (GERMAN) □ 2-METHYLBUTYN-3-OL-2 □ 3-METHYL-1-BUTYN-3-OL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1950 mg/kg JPETAB 115,230,55
 orl-mus LD50:500 mg/kg GTPZAB 31(4),55,87
 ihl-mus LC50:2 g/m³ GTPZAB 31(4),55,87
 scu-mus LD50:1161 mg/kg YKKZAJ 76,181,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. A very dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials, heat, flames. To fight fire, use alcohol foam, mist, spray, CO₂. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.

MXH500 CAS: 590-86-3 HR: 3
3-METHYLBUTYRALDEHYDE

mf: C₅H₁₀O mw: 86.15

PROP: Colorless liquid, pungent apple-like odor. Mp: -51°, bp: 92.5°, d: 0.803 @ 17°/4°, vap d: 2.96, flash p: 23°F. Misc in EtOH, Et₂O. Sltly sol in water; sol in alc and ether.

SYNS: ALDEHYDE ISOVALERIANIQUE □ 1-BUTANAL, 3-METHYL- □ ISOAMYL ALDEHYDE □ ISOPENTALDEHYDE □ ISOVALERAL □ ISOVALERALDEHYDE □ ISOVALERIC ALDEHYDE □ 2-METHYLBUTANAL-4 □ 3-METHYLBUTANAL □ 3-METHYLBUTYRALDEHYDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,271,86
 eye-rbt 100 mg/24H MOD 85JCAE -,271,86
 orl-rat LD50:5600 mg/kg GTPZAB 31(12),53,87
 ihl-rat LC50:90,860 mg/m³ GTPZAB 27(5),60,83
 orl-mus LD50:4750 mg/kg GTPZAB 27(5),60,83
 ihl-mus LC50:50,770 mg/m³ GTPZAB 27(5),60,83
 scu-mus LDLo:2 g/kg APFRAD 14,710,56
 skn-rbt LD50:3180 mg/kg TXAPA9 28,313,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion, subcutaneous, and inhalation routes. A very dangerous fire hazard when exposed to heat or flame. Avoid sparks, heat, open flame. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

MHY000 CAS: 623-42-7 HR: 3

METHYL-n-BUTYRATE**DOT:** UN 1237mf: C₅H₁₀O₂ mw: 102.13**PROP:** Colorless liquid. Mp: <−97°, bp: 102.3°, flash p: 57°F (CC), d: 0.919 @ 0°/4°, vap press: 40 mm @ 29.6°, vap d: 3.53. Sltly sol in water; misc in alc and ether.**SYNS:** METHYL n-BUTANOATE □ METHYL BUTYRATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTOD7 20(Suppl),741,82

ihl-mus LC50:18 g/m³/2H 85GMAT -,81,82

orl-rbt LD50:3380 mg/kg IMSUAI 41,31,72

skn-rbt LD50:3560 mg/kg TXAPA9 42,417,77

ihl-uns LC50:20 g/m³ GISAAA 51(5),61,86**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by ingestion and skin contact. A skin irritant. A very dangerous fire hazard when exposed to heat, flame, or oxidizers. Can react vigorously with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.**MHY550 CAS: 7568-37-8 HR: 3****METHYL CADMIUM AZIDE**mf: CH₃CdN₃ mw: 97.13**PROP:** Hygroscopic crystals; stable to 3°. Insol in nonpolar solvs.**CONSENSUS REPORTS:** Cadmium and its compounds are on the Community Right-To-Know List.**OSHA PEL:** TWA 5 µg(Cd)/m³**ACGIH TLV:** TWA 0.002 mg(Cd)/m³ (respirable dust), Suspected Human Carcinogen); BEI: 5 µg/g creatinine in urine; 5 µg/L in blood**DFG MAK:** DFG BAT: Blood 1.5 µg/dL; Urine 15 µg/dL, Suspected Carcinogen**NIOSH REL:** (Cadmium) Reduce to lowest feasible level**SAFETY PROFILE:** Confirmed human carcinogen. Hydrolysis reaction in the presence of moisture forms the explosive hydrogen azide gas. When heated to decomposition it emits toxic fumes of Cd and NO_x. See also CADMIUM COMPOUNDS and AZIDES.**MHY600 CAS: 52557-97-8 HR: 3****METHYLCAMPHENOATE**mf: C₁₁H₁₈O₂ mw: 182.29**SYNS:** 2,2-DIMETHYLBICYCLO(2.2.1)HEPTANE-3-CARBOXYLIC ACID, METHYL ESTER □ METHYL-2,2-DIMETHYLBICYCLO(2.2.1)HEPTANE-3-CARBOXYLATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD PESTC* 9(45),4,81

eye-rbt 100 mg MLD PESTC* 9(45),4,81

orl-mam LD50:5 mg/kg PESTC* 9(45),4,81

SAFETY PROFILE: Poison by ingestion. An eye and skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.**MHY650 CAS: 110-42-9 HR: 3****METHYL CAPRATE**mf: C₁₁H₂₂O₂ mw: 186.33**SYNS:** CAPRIC ACID METHYL ESTER □ DECANOIC ACID, METHYL ESTER □ METHYLENE 2095 □ METHYL n-CAPRATE □ METHYL CAPRINATE □ METHYL DECANOATE □ METHYL n-DECANOATE □ UNIPHAT A30**TOXICITY DATA with REFERENCE:**

ivn-mus LDLo:48 mg/kg RESJAS 3,250,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.**MHY700 CAS: 106-70-7 HR: 3****METHYL CAPROATE**mf: C₇H₁₄O₂ mw: 130.21**SYNS:** HEXANOIC ACID, METHYL ESTER □ METHYL CAPRONATE □ METHYL HEXANOATE □ METHYL n-HEXANOATE □ METHYL HEXOATE □ METHYL HEXYLATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FCTOD7 20,745,82

ihl-mus LC50:14 g/m³/2H 85GMAT -,82,82

ivn-mus LDLo:48 mg/kg RESJAS 3,250,66

skn-gpg LD50:>5 g/kg FCTOD7 20,745,82

ihl-uns LC50:11,500 mg/m³ GISAAA 51(5),61,86**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Slightly toxic by ingestion, inhalation, and skin contact routes. When heated to decomposition it emits acrid smoke and irritating vapors.**MHY750 CAS: 2556-73-2 HR: 2****N-METHYL-ε-CAPROLACTAM**mf: C₇H₁₃NO mw: 127.21**PROP:** Bp: 105° @ 10 mm.**SYN:** HEXAHYDRO-1-METHYL-2H-AZEPIN-2-ONE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1620 mg/kg AIHAAP 30,470,69

skn-rbt LD50:1410 mg/kg AIHAAP 30,470,69

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic fumes of NO_x.**MHY800 CAS: 111-11-5 HR: 3****METHYL CAPRYLATE**mf: C₉H₁₈O₂ mw: 158.27**SYNS:** CAPRYLIC ACID, METHYL ESTER □ METHYL OCTANOATE □ OCTANOIC ACID, METHYL ESTER □ UNIPHAT A20**TOXICITY DATA with REFERENCE:**

ivn-mus LDLo:48 mg/kg RESJAS 3,250,66

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.**MHZ000 CAS: 598-55-0 HR: 3****METHYL CARBAMATE**mf: C₂H₅NO₂ mw: 75.07**PROP:** Needles. Bp: 177°, mp: 52–54°. Very sol in water, alc.

SYNS: BENDIOCARB □ METHYLURETHAN □ METHYLURETHANE □ NCI-C55594 □ URETHYLANE

TOXICITY DATA with REFERENCE:

mmo-esc 50 g/L/3H CRSUBM 3,69,55
otr-rat:emb 120 µg/L JJIND8 67,1303,81
oms-mus-par 375 mg/kg ZKKOBW 76,69,71
orl-rat LD50:2500 mg/kg NTPTR* NTP-TR-328,87
orl-mus LD50:6200 mg/kg NTPTR* NTP-TR-328,87
ipr-mus LDLo:200 mg/kg TXAPA9 23,288,72
scu-mus LD50:4450 mg/kg AJEBAK 45,507,67
orl-qal LD50:21 mg/kg EESADV 8,551,84

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 12,151,76. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

**MIA000 CAS: 15942-48-0 HR: 3
METHYLCARBAMIC ACID-2-CHLORO-5-*tert*-PENTYLPHENYL ESTER**

mf: C₁₃H₁₈ClNO₂ mw: 255.77

SYN: RE 5454

TOXICITY DATA with REFERENCE:

orl-rat LD50:75 mg/kg TXAPA9 21,315,72
orl-mus LDLo:42 mg/kg AECTCV 14,111,85
orl-bwd LD50:9 mg/kg TXAPA9 21,315,72

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also CARBAMATES.

**MIA250 CAS: 2631-40-5 HR: 3
METHYLCARBAMIC ACID-*o*-CUMENYL ESTER**

mf: C₁₁H₁₅NO₂ mw: 193.27

PROP: Crystals. Mp: 88–93°.

SYNS: BAY 39731 □ BAY 105807 □ BAYER 39731 □ CARBAMIC ACID, METHYL-, *o*-ISOPROPYLPHENYL ESTER □ CARBAMIC ACID, METHYL-, 2-(1-METHYLETHYL)PHENYL ESTER □ *o*-CUMENYL METHYLCARBAMATE □ ENT 25,670 □ ETROFOLAN □ HYTOX □ ISOPROCARB □ ISOPROCARBE □ *o*-ISOPROPYLPHENOL METHYLCARBAMATE □ *o*-ISOPROPYLPHENYL N-METHYLCARBAMATE □ 2-ISOPROPYLPHENYL N-METHYLCARBAMATE □ KHE 0145 □ 2-(1-METHYLETHYL)-PHENYL METHYLCARBAMATE □ MIPC □ MIPCIN □ MIPCINE □ MIPSIN □ OMS-32 □ PHENOL, *O*-ISOPROPYL-, METHYLCARBAMATE □ PHENOL, 2-(1-METHYLETHYL)-, METHYLCARBAMATE (9CI) □ PPC 3 □ RO 7-5050

TOXICITY DATA with REFERENCE:

orl-rat LD50:450 mg/kg FMCHA2 -,C206,91
ihl-rat LC50:>500 mg/m³/4H PEMNDP 9,504,91
skn-rat LD50:>500 mg/kg PEMNDP 9,504,91
ipr-rat LD50:142 mg/kg BWHOA6 44(1-3),241,71
ivn-rat LD50:66,000 µg/kg BWHOA6 44(1-3),241,71
orl-mus LD50:94 mg/kg OYYAA2 1,78,67
skn-mus LD50:1620 mg/kg OYYAA2 1,78,67
orl-bwd LD50:56,200 µg/kg AECTCV 12,355,83

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

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by skin contact. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES. Used for controlling leafhoppers, planthoppers, and bugs in rice and cacao.

**MIA500 CAS: 672-06-0 HR: 3
METHYLCARBAMIC ACID-2,4-DICHLORO-5-ETHYL-*m*-TOLYL ESTER**

mf: C₁₁H₁₃Cl₂NO₂ mw: 262.15

SYN: U 17556

TOXICITY DATA with REFERENCE:

orl-mus LDLo:94 mg/kg AECTCV 14,111,85
orl-bwd LD50:13 mg/kg TXAPA9 21,315,72

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also CARBAMATES and ESTERS.

**MIA775 CAS: 63982-49-0 HR: 3
METHYLCARBAMIC ACID-5-DIMETHYLAMINO-2,4-XYLYL ESTER, HYDROCHLORIDE**

mf: C₁₂H₁₈N₂O₂•ClH mw: 258.78

SYNS: N-METHYL-CARBAMIC ACID 2,4-DIMETHYL-5-DIMETHYLAMINOPHENYL ESTER, HYDROCHLORIDE □ N-METHYLURETHANE HYDROCHLORIDE of 6-DIMETHYLAMINO-*o*-4-XYLENOL □ T-1770

TOXICITY DATA with REFERENCE:

orl-mus LD50:50 mg/kg JCSOA9 -,182,47
scu-mus LD50:10 mg/kg JCSOA9 -,182,47

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also CARBAMATES and ESTERS.

**MIA800 CAS: 17710-64-4 HR: 3
METHYLCARBAMIC ACID 4-HYDROXY-3,5-DIISOPROPYLPHENYL ESTER**

mf: C₁₄H₂₁NO₃ mw: 251.36

SYNS: 1,4-BENZENEDIOL, 2,6-BIS(1-METHYLEETHYL)-, 4-(METHYLCARBAMATE) □ CARBAMIC ACID, METHYL-, 4-HYDROXY-3,5-DIISOPROPYLPHENYL ESTER □ 3,5-DIISOPROPYL-4-HYDROXYPHENYL METHYLCARBAMATE □ HYDROQUINONE, 2,6-DIISOPROPYL-, 4-(METHYLCARBAMATE)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:11 mg/kg JAFCAU 16,561,1968

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

**MIB000 CAS: 14285-43-9 HR: 3
METHYLCARBAMIC ACID-4-METHYLTHIO-*m*-CUMENYL ESTER**

mf: C₁₂H₁₇NO₂S mw: 239.36

SYN: ACD 7029

TOXICITY DATA with REFERENCE:

orl-pgn LD50:13 mg/kg TXAPA9 21,315,72
orl-dck LD50:7500 µg/kg TXAPA9 21,315,72
orl-brd LD50:1800 µg/kg TXAPA9 21,315,72

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and SO_x . See also CARBAMATES.

MIB250 CAS: 3566-00-5 HR: 3
METHYLCARBAMIC ACID-4-METHYLTHIO-m-TOLYL ESTER

mf: $\text{C}_{10}\text{H}_{13}\text{NO}_2\text{S}$ mw: 211.30

SYNS: BAY S 2758 □ BAY 32651 □ ENT 25,777

TOXICITY DATA with REFERENCE:

orl-rat LD50:50 mg/kg TXAPA9 21,315,72

orl-bwd LD50:40 mg/kg JAFCAU 15,287,67

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of SO_x and NO_x . See also CARBAMATES.

MIB500 CAS: 3279-46-7 HR: 3
METHYLCARBAMIC ACID-o-(2-PROPYNYLOXY)PHENYL ESTER

mf: $\text{C}_{11}\text{H}_{11}\text{NO}_3$ mw: 205.23

SYNS: ENT 25,810 □ HERCULES 9699 □ 2-(2-PROPYNYLOXY)PHENYL METHYLCARBAMATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:80 mg/kg TXAPA9 21,315,72

orl-bwd LD50:45 mg/kg JAFCAU 15,287,67

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of NO_x . See also CARBAMATES.

MIB750 CAS: 1129-41-5 HR: 3
METHYLCARBAMIC ACID m-TOLYL ESTER

mf: $\text{C}_9\text{H}_{11}\text{NO}_2$ mw: 165.21

SYNS: CARBAMIC ACID, METHYL-, 3-METHYLPHENYL ESTER (9CI) □ CARBAMIC ACID, METHYL-, 3-TOLYL ESTER □ m-CRESYL METHYLCARBAMATE □ DICRESYL □ DICRESYL N-METHYLCARBAMATE □ DRC 3341 □ KUMIAI □ METACRATE □ METHOLCARB □ m-METHYLPHENYL METHYLCARBAMATE □ 3-METHYLPHENYL N-METHYLCARBAMATE □ METOLCARB □ MTMC □ S 1065 □ m-TOLYLESTER KYSELINY METHYL-KARBAMINOVE □ m-TOLYL N-METHYLCARBAMATE □ 3-TOLYL-N-METHYLCARBAMATE □ TSUMACIDE □ TSUMAUNKA

TOXICITY DATA with REFERENCE:

cyt-ham:fbr 125 mg/L/48H MUREAV 48,337,77

cyt-ham:lng 47 mg/L GMCRDC 27,95,81

orl-rat LD50:268 mg/kg FMCHA2 -,C212,91

ihl-rat LC50:475 mg/m³ FMCHA2 -,C212,91

skn-rat LD50:896 mg/kg GISAAA 38(8),99,73

orl-mus LD50:109 mg/kg FMCHA2 -,C212,91

skn-mus LD50:6 mg/kg GUCHAZ 6,527,73

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion and skin contact. Moderately toxic by inhalation. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also CARBAMATES.

MIC250 CAS: 63982-32-1 HR: 3
METHYLCARBAMIC ESTER of α -3-HYDROXY-PHENYLETHYLDIMETHYLAMINE

HYDROCHLORIDE

mf: $\text{C}_{12}\text{H}_{18}\text{N}_2\text{O}_2 \cdot \text{ClH}$ mw: 258.78

SYNS: N-METHYLCARBAMIC ACID, m-(α -DIMETHYLAMINOETHYL)PHENYL ESTER, HYDROCHLORIDE □ MIOTINE □ T-1843

TOXICITY DATA with REFERENCE:

scu-rat LD50:1 mg/kg NTIS** PB158-508

orl-mus LDLo:2 mg/kg JPETAB 43,413,31

scu-mus LD50:1 mg/kg NTIS** PB158-508

ivn-mus LD50:500 $\mu\text{g}/\text{kg}$ NTIS** PB158-508

scu-rbt LD50:1 mg/kg NTIS** PB158-508

scu-gpg LD50:1 mg/kg NTIS** PB158-508

SAFETY PROFILE: Poison by ingestion, intravenous and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl . See also CARBAMATES and ESTERS.

MID000 CAS: 63982-40-1 HR: 3
METHYLCARBAMIC ESTER of 3-OXYPHENYL-DIMETHYLAMINE HYDROCHLORIDE

mf: $\text{C}_{10}\text{H}_{14}\text{N}_2\text{O}_2 \cdot \text{ClH}$ mw: 230.72

SYNS: AR-12 □ N-METHYL-CARBAMIC ACID-3-DIMETHYL-AMINOPHENYL ESTER, HYDROCHLORIDE □ N-METHYL-URETHANE of HYDROCHLORIDE of 3-DIMETHYLAMINOPHENOL

TOXICITY DATA with REFERENCE:

orl-mus LD50:100 mg/kg JCSOA9 -,182,47

scu-mus LD50:25 mg/kg JCSOA9 -,182,47

ivn-mus LD80:15 mg/kg NTIS** PB158-508

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

MID250 CAS: 60398-22-3 HR: 3
METHYLCARBAMIC ESTER of OXYPHENYL-METHYLDIETHYLAMMONIUM IODIDE

mf: $\text{C}_{13}\text{H}_{21}\text{N}_2\text{O}_2 \cdot \text{I}$ mw: 364.26

SYNS: METHIODIDE of N-METHYLURETHANE of 3-DIETHYLAMINOPHENOL □ N-METHYLCARBAMIC ACID-3-DIETHYLAMINOPHENYL ESTER, METHIODIDE □ N-METHYLCARBAMIC ACID-3-(DIETHYLMETHYLAMMONIO)-PHENYL ESTER, IODIDE □ (3-(N-METHYLCARBAMOYLOXY)-PHENYL)DIETHYLMETHYL-AMMONIUM IODIDE □ TL 1217

TOXICITY DATA with REFERENCE:

scu-rat LD50:400 $\mu\text{g}/\text{kg}$ NTIS** PB158-508

orl-mus LDLo:20 mg/kg JPETAB 43,413,31

scu-mus LD50:129 $\mu\text{g}/\text{kg}$ NTIS** PB158-508

ivn-mus LDLo:100 $\mu\text{g}/\text{kg}$ JPETAB 43,413,31

scu-dog LD50:75 $\mu\text{g}/\text{kg}$ NTIS** PB158-508

scu-mky LD50:200 $\mu\text{g}/\text{kg}$ NTIS** PB158-508

scu-cat LD50:75 $\mu\text{g}/\text{kg}$ NTIS** PB158-508

scu-rbt LD50:150 $\mu\text{g}/\text{kg}$ NTIS** PB158-508

scu-gpg LD50:97 $\mu\text{g}/\text{kg}$ NTIS** PB158-508

SAFETY PROFILE: A deadly poison by ingestion, intravenous, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x , NH_3 , and I^- . See also ESTERS and CARBAMATES.

MID500 CAS: 63680-78-4 HR: 3
METHYLCARBAMIC ESTER of 8-OXYQUINOLINE METHIODIDE

mf: C₁₂H₁₃N₂O₂•I mw: 344.17**SYNS:** 8-HYDROXY-1-METHYL QUINOLINIUM IODIDE, METHYLCARBAMATE □ N-METHYL CARBAMIC ACID-8-QUINOLINYL ESTER, METHIODIDE**TOXICITY DATA with REFERENCE:**

orl-mus LDLo:200 mg/kg JPETAB 43,413,31

ipr-mus LD50:89 mg/kg PHARAT 34,142,79

ivn-mus LDLo:100 µg/kg JPETAB 43,413,31

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and I⁻. See also ESTERS and CARBAMATES.**MID750 CAS: 59163-97-2 HR: 3
METHYLCARBAMOYLETHYL ACRYLATE**mf: C₇H₁₁NO₃ mw: 157.19**SYN:** ACRYLIC ACID METHYLCARBAMOYLETHYL ESTER**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 3/23/73

eye-rbt 5 mg SEV UCDS** 3/23/73

orl-rat LD50:840 mg/kg UCDS** 3/23/73

skn-rbt LD50:200 mg/kg TXAPA9 28,313,74

SAFETY PROFILE: Poison by skin contact. Moderately toxic by ingestion. A skin and severe eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS and CARBAMATES.**MID800 CAS: 69946-37-8 HR: 3
2-METHYL-4-CARBAMOYL-5-HYDROXY-
IMIDAZOLE**mf: C₅H₇N₃O₂ mw: 141.15**SYN:** 5-HYDROXY-2-METHYL-1H-IMIDAZOLE-4-CARBOXAMIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:2000 mg/kg GWXXBX #2825738

ipr-mus LD50:500 mg/kg GWXXBX #2825738

ivn-mus LD50:130 mg/kg GWXXBX #2825738

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.**MID850 CAS: 98565-18-5 HR: 2
METHYLCARBAMOYLMETHYLAMINOMETHYL
PHOSPHONIC ACID**mf: C₅H₁₃N₂O₆PS mw: 260.23**SYNS:**

MESYLCARBAMOYLMETHYLAMINOMETHYLPHOSPHONIC ACID □ (((2-METHYL(METHYLSULFONYL)AMINO)-2-OXOETHYL)AMINO)METHYLPHOSPHONIC ACID □ PHOSPHONIC ACID, (((2-METHYL(METHYLSULFONYL)AMINO)-2-OXOETHYL)AMINO)METHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 mg/kg PEMNDP 9,553,91

skn-rbt LD50:>4 g/kg PEMNDP 9,553,91

orl-qal LD50:>2150 mg/kg PEMNDP 9,553,91

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. When heated to decomposition it emits toxic vapors of NO_x, PO_x, and SO_x.**MID860 CAS: 66637-25-0 HR: 3****2-(o-(METHYLCARBAMOYL)OXIMINO)-3,3-DIMETHYLTETRAHYDRO-1,4-THIAZIN-5-ONE**mf: C₈H₁₃N₃O₃S mw: 231.30**SYNS:** 3,3-DIMETHYL-2,5-THIOMORPHOLINEDIONE 2-(o-((METHYLAMINO)CARBONYL)OXIME) □ 2,5-THIOMORPHOLINEDIONE, 3,3-DIMETHYL-, 2-(o-((METHYLAMINO)-CARBONYL)OXIME)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1110 µg/kg USXXAM #4071627

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**MID870 CAS: 55391-34-9 HR: 3
2-(o-(METHYLCARBAMOYL)OXIMINO)-1,4-DITHIANE**mf: C₆H₁₀N₂O₂S₂ mw: 206.30**SYNS:** 1,4-DITHIAN-2-ONE, o-

((METHYLAMINO)CARBONYL)OXIME □ ENT-29012 □ HYDROXYLAMINE, N-(p-DITHIAN-2-YLENE)-o-(METHYLCARBAMOYL)- □ UC 46207

TOXICITY DATA with REFERENCE:

orl-rat LD50:15 mg/kg USXXAM #3992549

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**MID900 CAS: 64049-00-9 HR: 3
(3-(N-METHYLCARBAMOYLOXY)PHENYL)-
TRIMETHYL-ARSONIUM IODIDE**mf: C₁₃H₂₁AsNO₂•I mw: 425.17**SYNS:** ARSONIUM, (3-HYDROXYPHENYL)DIETHYLMETHYL-, IODIDE, METHYLCARBAMATE □ CARBAMIC ACID, N-METHYL-, 3-DIETHYLARSINOPHENYL ESTER, METHIODIDE □ TL-1504**TOXICITY DATA with REFERENCE:**

scu-mus LD50:500 µg/kg NTIS** PB158-508

OSHA PEL: TWA 0.5 mg(As)/m³**SAFETY PROFILE:** Poison by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x, As, and I⁻.**MIE250 CAS: 33531-59-8 HR: 3
o-METHYLCARBANILIC ACID-N-ETHYL-3-
PIPERDINYL ESTER**mf: C₁₅H₂₂N₂O₂ mw: 262.39**SYN:** FUNGIFOS**TOXICITY DATA with REFERENCE:**

scu-mus LD50:277 mg/kg JMCMA 14,710,71

ivn-mus LD50:34 mg/kg JMCMA 14,710,71

orl-dog LD50:5000 mg/kg ARZNAD 26,769,76

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Mildly toxic by ingestion. An antifungal agent. When heated to decomposition it emits toxic fumes of NO_x.**MIE300 CAS: 1484-12-4 HR: D
9-METHYLCARBAZOLE**mf: C₁₃H₁₁N mw: 181.25**SYNS:** 9H-CARBAZOLE, 9-METHYL- □ CARBAZOLE, 9-METHYL- □ N-METHYLCARBAZOLE

TOXICITY DATA with REFERENCE:

mic-sat 10 µLg/plate MUREAV 389,247,1997

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**MIE600 CAS: 6700-56-7 HR: 3****1-METHYL-1-CARBETHOXY-4-PHENYL
HEXAMETHYLENIMINE CITRATE**mf: C₁₆H₂₃NO₂•7C₆H₈O₇ mw: 1606.38**SYNS:** ETHOHEPTAZINE CITRATE □ ZACTANE CITRATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:580 mg/kg JPETAB 134,332,61

ipr-rat LD50:156 mg/kg PLRCAT 2,39,70

ipr-mus LD50:217 mg/kg PLRCAT 2,39,70

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.**MIE750 CAS: 629-38-9 HR: 2****METHYL CARBITOL ACETATE**mf: C₇H₁₄O₄ mw: 162.21**PROP:** Colorless liquid. Bp: 209.1°, flash p: 180°F (OC), d: 1.0396 @ 20°/20°, vap press: 0.12 mm @ 20°.**SYNS:** ACETIC ACID, 2-(2-METHOXYETHOXY)ETHYL ESTER □ DIETHYLENE GLYCOL MONOMETHYL ETHER ACETATE □ 2-(2-METHOXYETHOXY)ETHANOL ACETATE □ 2-(2-METHOXYETHOXY)ETHYL ACETATE □ 2-(2-METHOXY-ETHOXY)ETHYLESTER KYSELINY OCTOVE □ METHYLKARBITOLACETAT**TOXICITY DATA with REFERENCE:**

eye-rbt 100 mg SEV AJOPAA 29,1363,46

eye-rbt 100 mg/24H MOD 85JCAE -,712,86

orl-rat LD50:11,960 mg/kg JIDHAN 23,259,41

orl-gpg LD50:3460 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Moderately toxic by ingestion. A severe eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical, mist, spray. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.**MIF000 CAS: 616-38-6 HR: 3****METHYL CARBONATE****DOT:** UN 1161mf: C₃H₆O₃ mw: 90.09**PROP:** Colorless liquid; pleasant odor. Mp: 0.5°, d: 1.065 @ 17°/4°, flash p: 66°F (OC), bp: 90.91°. Misc with acids and alkalies; sol in most org solvs; insol in water.**SYN:** DIMETHYL CARBONATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:13 g/kg FCTXAV 17,357,79

ipr-rat LD50:1600 mg/kg FCTXAV 17,357,79

orl-mus LD50:6 g/kg FCTXAV 17,357,79

ipr-mus LD50:800 mg/kg FCTXAV 17,357,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. An irritant.

Violent reaction or ignition on contact with potassium-tert-butoxide. A very dangerous fire hazard when exposed to heat, open flames (sparks), or oxidizers. To fight fire, use alcohol foam. When heated to decomposition it emits acrid smoke and irritating fumes.

MIF250 CAS: 61445-55-4 HR: 2
N-METHYL-N-(3-CARBOXYPROPYL)NITROS-AMINEmf: C₅H₁₀N₂O₃ mw: 146.17**SYNS:** 4-(METHYLNITROSOAMINO)BUTYRIC ACID □ N-NITROSOMETHYL-3-CARBOXYPROPYLAMINE**TOXICITY DATA with REFERENCE:**

mma-sat 48 µmol/plate CNREA8 37,399,77

mmo-smc 16,260 mg/L IAPUDO 57,721,84

orl-rat TDLo:6800 mg/kg/57W-I:ETA JJIND8 70,959,83

par-rat TDLo:4500 mg/kg/30W-I:NEO JJCREP 79,309,88

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.**MIF500 CAS: 140-05-6 HR: 2**
METHYL CELLOSOLVE ACETYLRICINOLEATEmf: C₂₃H₄₂O₅ mw: 398.65**PROP:** Light, straw-colored liquid. Mp: -60° (gels), bp: 200-260° @ 4 mm, flash p: 446°F, d: 0.966 @ 20°/20°, vap press: <0.01 mm @ 150°, vap d: 13.8.**SYNS:** ETHYLENE GLYCOL MONOMETHYL ETHER ACETYLRICINOLEATE □ GLYCOL MONOMETHYL ETHER ACETYLRICINOLEATE □ 2-METHOXYETHYL-12-ACETOXY-9-OCTADECENOATE □ 2-METHOXYETHYL ACETYLRICINOLEATE**TOXICITY DATA with REFERENCE:**

eye-rbt 500 mg AJOPAA 29,1363,46

orl-rat LD50:20 g/kg JIHTAB 30,63,48

orl-gpg LD50:12 g/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Very mildly toxic by ingestion. An eye irritant. Combustible when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.**MIF750 CAS: 3121-61-7 HR: 3****METHYL CELLOSOLVE ACRYLATE**mf: C₆H₁₀O₃ mw: 130.16**PROP:** Liquid. Bp: 61° @ 17 mm, flash p: 180°F (OC), d: 1.0134 @ 20°, vap d: 4.49.**SYNS:** ACRYLIC ACID-2-METHOXYETHYL ESTER □ ETHYLENE GLYCOL MONOMETHYL ETHER ACRYLATE □ GLYCOL MONOMETHYL ETHER ACRYLATE □ 2-METHOXYETHANOL, ACRYLATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 9/17/69

orl-mus TDLo:5200 mg/kg (female 6-13D post):REP TCMUD8 7,29,87

orl-rat LD50:810 mg/kg UCDS** 9/17/69

ihl-rat LC50:500 ppm/4H UCDS** 9/17/69

skn-rbt LD50:250 mg/kg UCDS** 9/17/69

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by skin contact. Moderately toxic by ingestion and inhalation. Experimental reproductive effects. A skin irritant. Flammable when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

MIF760 CAS: 9004-67-5 HR: 3
METHYL CELLULOSE

PROP: White, fibrous powders. Sol in water, some org solvs.

SYNS: ADULSIN □ BAGOLAX □ BUFAPTO METHALOSE □ BULKALOID □ CELACOL M □ CELACOL M20 □ CELACOL M450 □ CELACOL MM □ CELACOL MM 10P □ CELACOL M 20P □ CELLAPRET □ CELLOGRAN □ CELLOTHYL □ CELLULOSE METHYL □ CELLULOSE METHYLATE □ CELLUMETH □ CETHYLOSE □ CETHYTIN □ CULMINAL K 42 □ EDISOL M □ HYDROLOSE □ MAPOLOSE M25 □ MAPOLOSE 60SH50 □ MCO 8000 □ MC 4000 cP □ MC 20000S □ MELLOSE □ METHOCEL 10 □ METHOCEL 15 □ METHOCEL 181 □ METHOCEL 400 □ METHOCEL 4000 □ METHOCEL A □ METHOCEL CHG □ METHOCEL 400CPS □ METHOCEL 4000CPS □ METHOCEL MC □ METHOCEL MC 25 □ METHOCEL MC4000 □ METHOCEL MC 8000 □ METHOCEL SM 100 □ METHULOSE □ METHYL CELLULOSE-A □ METHYL CELLULOSE ETHER □ METOLOSE MC 8000 □ METOLOSE 60SH □ METOLOSE 60SH400 □ METOLOSE SM 15 □ METOLOSE SM 100 □ METOLOSE SM 4000 □ MMTs-BTR □ MTs □ NAPOLONE □ NICEL □ RHOMELLOSE □ SYNCELOSE □ TYLOSE 444 □ TYLOSE A4S □ TYLOSE MF □ TYLOSE MH □ TYLOSE MH20 □ TYLOSE MH50 □ TYLOSE MH300 □ TYLOSE MH1000 □ TYLOSE MH2000 □ TYLOSE MH300P □ TYLOSE MH4000 □ TYLOSE SAP □ TYLOSE SL □ TYLOSE SL 100 □ TYLOSE SL 400 □ TYLOSE SL 600 □ TYLOSE TWA □ USP METHYLCELLULOSE □ VISCOL □ VISCONTRAN L52 □ VISCOSOL □ WALSDOR MC 20000S

TOXICITY DATA with REFERENCE:

ipr-mus LD50:275 g/kg NTIS** AD628-313

ivn-mus LDLo:1 g/kg JAPMA8 45,685,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MIF762 CAS: 4224-87-7 HR: 3
4-METHYLCHALCONE

mf: C₁₆H₁₄O mw: 222.30

SYNS: CHALCONE, 4-METHYL-(6CI,7CI,8CI) □ (4-METHYL-BENZYLIDENE)ACETOPHENONE □ p-METHYLCHALCONE □ 3-(4-METHYLPHENYL)-1-PHENYL-2-PROPEN-1-ONE □ PHENYL p-METHYLSTYRYL KETONE □ 2-PROPEN-1-ONE, 3-(4-METHYLPHENYL)-1-PHENYL-

TOXICITY DATA with REFERENCE:

orl-mus LD:>1 g/kg PHARAT 46,542,91

ipr-mus LD50:>75 mg/kg PHARAT 46,542,91

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. A flammable liquid. When

heated to decomposition it emits acrid smoke and irritating vapors.

MIF763 CAS: 4413-31-4 HR: 2
p,p-METHYLCHLOR

mf: C₁₆H₁₃Cl₃ mw: 313.66

SYNS: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS(4-METHYL- (9CI) □ DTT □ ETHANE, 1,1-BIS(p-TOLYL)-2,2-TRICHLORO- □ ETHANE, 1,1,1-TRICHLORO-2,2-BIS(p-TOLYL)- □ METHYLCHLOR □ METHYL-DDT □ METILCHLOR

TOXICITY DATA with REFERENCE:

orl-mus LD50:3350 mg/kg AIPTAK 73,128,1946

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MIF765 CAS: 74-87-3 HR: 3
METHYL CHLORIDE

DOT: UN 1063

mf: CH₃Cl mw: 50.49

PROP: Colorless gas; ethereal odor and sweet taste. D: 0.918 @ 20°/4°, mp: -97°, bp: -23.7°, flash p: <32°F, lel: 8.1%, uel: 17%, autoign temp: 1170°F, vap d: 1.78. Sltly sol in water; misc with chloroform, ether, glacial acetic acid; sol in alc. IDLH 2000 ppm.

SYNS: ARTIC □ CHLOOR-METHAAN (DUTCH) □ CHLOR-METHAN (GERMAN) □ CHLOROMETHANE □ CHLORURE de METHYLE (FRENCH) □ CLOROMETANO (ITALIAN) □ CLORURO di METILE (ITALIAN) □ METHYLCHLORID (GERMAN) □ METYLU CHLOREK (POLISH) □ MONOCHLOROMETHANE □ R 40 □ RCRA WASTE NUMBER U045

TOXICITY DATA with REFERENCE:

oms-hmn:lym 3 pph MUREAV 155,75,85

sce-hmn:lym 3 pph MUREAV 155,75,85

ihl-mus TCLo:750 ppm/6H (female 6-17D post):TER TJADAB 27,197,83

ihl-hmn LCLo:20,000 ppm/2H:EYE,CNS,GIT 34ZIAG -,386,69

orl-rat LD50:1800 mg/kg 85JCAE -,86,86

ihl-rat LC50:5300 mg/m³/4H 85GMAT -,82,82

ihl-mus LC50:2200 ppm/6H TXAPA9 86,93,86

ihl-dog LCLo:14,661 ppm/6H NIHBAZ 191,1,49

ihl-gpg LCLo:20,000 ppm/2H FLCRAP 1,197,67

ihl-rat TCLo:41 mg/m³/4H/26W-I GTPZAB 10(10),20,66

ihl-mus TCLo:150 ppm/22H/11D-C FAATDF 5,87,85

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,246,87; Human Inadequate Evidence IMEMDT 41,161,86; Animal Inadequate Evidence IMEMDT 41,161,86. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 50 ppm; STEL 100 ppm

ACGIH TLV: TWA 50 ppm; STEL 100 ppm; Not Classifiable as a Human Carcinogen

DFG MAK: 50 ppm (100 mg/m³); Suspected Carcinogen

NIOSH REL: (Monohalomethanes) TWA Reduce to lowest level

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: Suspected carcinogen. Very mildly toxic by inhalation. An experimental teratogen. Other

experimental reproductive effects. Human mutation data reported. Human systemic effects by inhalation: convulsions, nausea or vomiting, and unspecified effects on the eye.

Methyl chloride has slight irritant properties and may be inhaled without noticeable discomfort. It has some narcotic action, but this effect is weaker than that of chloroform. Acute poisoning, characterized by the narcotic effect, is rare in industry. In exposures to high concentrations, dizziness, drowsiness, incoordination, confusion, nausea and vomiting, abdominal pains, hiccoughs, diplopia, and dimness of vision are followed by delirium, convulsions, and coma. Death may be immediate; however, if the exposure is not fatal, recovery is usually slow. Degenerative changes in the central nervous system are not uncommon. The liver, kidneys, and bone marrow may be affected, with resulting acute nephritis and anemia. Death resulting from degenerative changes in the heart, liver, and especially the kidneys may occur several days after exposure. Repeated exposure to low concentrations causes damage to the central nervous system and, less frequently, to the liver, kidneys, bone marrow, and cardiovascular system. Hemorrhages into the lungs, intestinal tract, and dura have been reported. Sprayed on the skin, chloromethane produces anesthesia through freezing of the tissues as it evaporates.

Flammable gas. Very dangerous fire hazard when exposed to heat, flame, or powerful oxidizers. Moderate explosion hazard when exposed to flame and sparks. Explodes on contact with interhalogens (e.g., bromine trifluoride, bromine pentafluoride), magnesium and alloys, potassium and alloys, sodium and alloys, zinc. Potentially explosive reaction with aluminum when heated to 152° in a sealed container. Mixtures with aluminum chloride + ethylene react exothermically and then explode when pressurized to above 30 bar. May ignite on contact with aluminum chloride or powdered aluminum. To fight fire, stop flow of gas and use CO₂, dry chemical, or water spray. When heated to decomposition it emits highly toxic fumes of Cl⁻. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Methyl Chloride, 1001.

MIF775 CAS: 96-34-4 HR: 3

METHYL CHLOROACETATE

DOT: UN 2295

mf: C₃H₅ClO₂ mw: 108.53

PROP: Colorless liquid. D: 1.238, mp: -33°, bp: 130-132°. Insol in water; misc with alc, ether.

SYNS: CHLOROACETIC ACID METHYL ESTER □ METHYL CHLOROACETATE (DOT) □ METHYLESTER KYSELINY CHLOROCTOVE □ METHYL MONOCHLOROACETATE □ METHYL MONOCHLOROACETATE □ MONOCHLOROACETIC ACID METHYL ESTER

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:250 ppm/7H TXAPA9 19,1,71
scu-rat LD16:560 mg/kg 85GMAT -,82,82
orl-mus LD50:240 mg/kg 85GMAT -,82,82
ihl-mus LC50:1 g/m³/2H 85GMAT -,82,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: 1 ppm

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion. Moderately toxic by inhalation and subcutaneous routes. Flammable when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits toxic fumes of Cl⁻.

MIF800 CAS: 80-63-7 HR: 2

METHYL-2-CHLOROACRYLATE

mf: C₄H₅ClO₂ mw: 120.54

PROP: Bp: 51-52°.

SYNS: 2-CHLOROACRYLIC ACID, METHYL ESTER □ 2-CHLORO-2-PROPENOIC ACID METHYL ESTER (9CI) □ METHYL-α-CHLOROACRYLATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg SEV SCCUR* -,6,61
mmo-sat 1 nmol/plate MUREAV 78,113,80
mma-sat 1 nmol/plate MUREAV 78,113,80
ihl-hmn TCLo:5 ppm:EYE 29ZWAE -,90,68
ihl-rat LC50:500 mg/m³/2H FATOAO 19,60,56
ihl-mus LC50:500 mg/m³/2H FATOAO 19,60,56
ihl-cat LC50:500 mg/m³/2H FATOAO 19,60,56
ihl-rbt LC50:500 mg/m³/2H FATOAO 19,60,56
ihl-gpg LC50:500 mg/m³/2H FATOAO 19,60,56

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by inhalation. Human systemic effects by inhalation: conjunctiva irritation. A severe skin irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻. See also ESTERS.

MIG000 CAS: 79-22-1 HR: 3

METHYL CHLOROCARBONATE

DOT: UN 1238

mf: C₂H₃ClO₂ mw: 94.50

PROP: Colorless liquid. Bp: 71.4°, d: 1.223 @ 20°/4°, vap d: 3.26, flash p: 54°F, autoign temp: 940°F. Sltly sol in water with gradual decomp; misc with alc, benzene, chloroform, and ether.

SYNS: CHLORAMEISENSAEURE METHYLESTER (GERMAN) □ CHLOROCARBONATE de METHYLE (FRENCH) □ CHLOROCARBONIC ACID METHYL ESTER □ CHLOROFORMIC ACID METHYL ESTER □ MCF □ METHOXYCARBONYL CHLORIDE □ METHYLCHLOORFORMAT (DUTCH) □ METHYL CHLOROFORMATE (DOT) □ METILCHLOROFORMATO (ITALIAN) □ RCRA WASTE NUMBER U156

TOXICITY DATA with REFERENCE:

ihl-man TCLo:5 mg/m³:EYE,PUL GISAAA 42(5),97,77
orl-rat LD50:60 mg/kg GISAAA 42(5),97,77
ihl-rat LC50:88 ppm/1H TXAPA9 42,417,77
orl-mus LD50:67 mg/kg GISAAA 42(5),97,77
ihl-mus LC50:185 mg/m³/2H GISAAA 42(5),97,77
skn-mus LD50:1750 mg/kg GISAAA 42(5),97,77
ipr-mus LD50:40 mg/kg NTIS** AD691-490
ihl-cat LCLo:1500 mg/m³/30M GISAAA 42(5),97,77
skn-rbt LD50:7120 mg/kg TXAPA9 42,417,77
orl-gpg LD50:140 mg/kg GISAAA 42(5),97,77
ipr-mus LD50:40 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: Poison, Flammable Liquid, Corrosive

SAFETY PROFILE: Poison by ingestion, inhalation, and intraperitoneal routes. Moderately toxic by skin contact. Human systemic effects by inhalation: conjunctiva irritation and respiratory effects. Corrosive to skin, eyes, and mucous membranes. Very dangerous fire hazard when exposed to heat sources, sparks, flame, or oxidizers. Reacts with water or steam to produce toxic and corrosive fumes. When heated to decomposition it emits toxic fumes of Cl^- , methyl chloroformate, and phosgene.

MIG100 CAS: 173903-15-6 HR: 2
METHYL (CHLOROCARBONYL)(4-(TRIFLUORO-METHOXY)PHENYL)CARBAMATE

mf: $\text{C}_{10}\text{H}_7\text{ClF}_3\text{NO}_4$ mw: 297.63

SYNS: CARBAMIC ACID, (CHLOROCARBONYL)(4-(TRIFLUOROMETHOXY)PHENYL)-, METHYL ESTER □ 4-TRIFLUORMETHOXY-N-CHLOROCARBOXY-PHENYLURETHAN

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H MOD NTIS** OTS0559583

orl-rat LDLo:2 g/kg NTIS** OTS0559584

SAFETY PROFILE: Moderately toxic by ingestion. A moderate eye irritant. When heated to decomposition it emits toxic vapors of NO_x , F^- , and Cl^- .

MIG250 CAS: 4535-90-4 HR: 3
METHYL- β -CHLOROETHYLAMINE HYDROCHLORIDE

mf: $\text{C}_3\text{H}_8\text{ClN}\cdot\text{ClH}$ mw: 130.03

SYN: 2-CHLORO-N-METHYL-ETHYLAMINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2301 mg/kg JPETAB 94,249,48

ivn-mus LD50:100 mg/kg JPETAB 91,224,47

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x . See also AMINES.

MIG500 CAS: 62037-49-4 HR: D
N'-METHYL-N'- β -CHLOROETHYLBENZ-ALDEHYDE HYDRAZONE

mf: $\text{C}_{10}\text{H}_{13}\text{ClN}_2$ mw: 196.70

SYN: 2-(2-CHLOROETHYL)-2-METHYLHYDRAZONE BENZALDEHYDE

TOXICITY DATA with REFERENCE:

mmo-sat 100 $\mu\text{g}/\text{plate}$ ARTODN 42,179,79

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x . See also ALDEHYDES.

MIG750 CAS: 62258-26-8 HR: D
N'-METHYL-N'- β -CHLOROETHYL-(p-DIMETHYL-AMINO)-BENZALDEHYDE HYDRAZONE

mf: $\text{C}_{12}\text{H}_{18}\text{ClN}_3$ mw: 239.78

SYN: p-DIMETHYLAMINO BENZALDEHYDE(2-(2-CHLOROETHYL)-2-METHYL)HYDRAZONE

TOXICITY DATA with REFERENCE:

mmo-sat 100 $\mu\text{g}/\text{plate}$ ARTODN 42,179,79

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x . See also ALDEHYDES.

MIG800 CAS: 57-54-5 HR: 3
1-METHYL-1-(β -CHLOROETHYL)ETHYL-ENIMONIUM

mf: $\text{C}_5\text{H}_{11}\text{ClN}$ mw: 120.62

SYNS: AZIRIDIUM, 1-(2-CHLOROETHYL)-1-METHYL- □ CHLORIMINE MUSTARD □ 1-(2-CHLOROETHYL)-1-METHYL-AZIRIDIUM

TOXICITY DATA with REFERENCE:

ivn-dog LD50:500 $\mu\text{g}/\text{kg}$ NTIS** PB158-507

iat-dog LD50:250 $\mu\text{g}/\text{kg}$ NTIS** PB158-507

scu-rbt LD50:1 mg/kg NTIS** PB158-507

ivn-rbt LD50:1 mg/kg NTIS** PB158-507

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraarterial routes. When heated to decomposition it emits toxic fumes of Cl^- and NO_x . See also CHLORINATED HYDROCARBONS, ALIPHATIC.

MIG850 CAS: 547-95-5 HR: 3
METHYL- β -CHLOROETHYL-ETHYLENIMONIUM PICRYLSULFONATE

mf: $\text{C}_5\text{H}_{11}\text{ClN}\cdot\text{C}_6\text{H}_2\text{N}_3\text{O}_9\text{S}$ mw: 412.79

SYNS: CPS □ 1-METHYL-1-(β -CHLOROETHYL)ETHYLENIMONIUM PICRYLSULFONATE

TOXICITY DATA with REFERENCE:

ivn-hmn TDLo:800 $\mu\text{g}/\text{kg}$:GIT,BLD CLPTAT 6,50,65

ivn-rat LDLo:2 mg/kg CLPTAT 6,50,65

scu-mus LD50:2400 $\mu\text{g}/\text{kg}$ JPETAB 91,224,47

ivn-mus LD50:1500 $\mu\text{g}/\text{kg}$ JPETAB 91,224,47

ivn-rbt LDLo:2 mg/kg CLPTAT 6,50,65

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Human systemic effects by intravenous route: nausea or vomiting, leukopenia and thrombocytopenia. When heated to decomposition it emits toxic fumes of Cl^- , SO_x , and NO_x . See also SULFONATES.

MIH000 CAS: 63905-05-5 HR: 3
METHYL- β -CHLOROETHYL- β -HYDROXY-ETHYLAMINE HYDROCHLORIDE

mf: $\text{C}_5\text{H}_{12}\text{ClNO}\cdot\text{ClH}$ mw: 174.09

TOXICITY DATA with REFERENCE:

orl-rat LD50:80 mg/kg NTIS** PB158-507

scu-rat LD50:20 mg/kg NTIS** PB158-507

orl-mus LD50:25 mg/kg NTIS** PB158-507

ipr-mus LD50:34 mg/kg JPETAB 91,224,47

scu-mus LD50:10 mg/kg JPETAB 91,224,47

ivn-mus LD50:2250 $\mu\text{g}/\text{kg}$ JPETAB 91,224,47

scu-rbt LD50:10 mg/kg NTIS** PB158-507

ivn-rbt LD50:12 mg/kg JPETAB 91,224,47

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

MIH250 CAS: 13589-15-6 HR: 3
METHYL-N-(β -CHLOROETHYL)-N-NITROSO-CARBAMATE

mf: $C_4H_7ClN_2O_3$ mw: 166.58

SYNS: N-2-CHLOROETHYL-N-NITROSO-CARBAMIC ACID METHYLESTER ☐ KB-16 ☐ TL 186

TOXICITY DATA with REFERENCE:

skn-hmn 200 μ g NTIS** PB158-508
 eye-mam 500 μ g SEV NTIS** PB158-508
 orl-rat LD50:20 mg/kg NTIS** PB158-508
 ihl-rat LC50:35 mg/ m^3 /10M NTIS** PB158-508
 scu-rat LD50:8 mg/kg NTIS** PB158-508
 ivn-rat LD50:1100 μ g/kg NTIS** PB158-508
 ihl-mus LC50:36 mg/ m^3 /10M NTIS** PB158-508
 skn-mus LD50:62 mg/kg NTIS** PB158-508
 scu-mus LD50:9 mg/kg NTIS** PB158-508
 ivn-mus LD50:450 μ g/kg NTIS** PB158-508
 ihl-dog LC50:100 mg/ m^3 /10M NTIS** PB158-508
 ihl-mky LC50:200 mg/ m^3 /10M NTIS** PB158-508

SAFETY PROFILE: Poison by ingestion, skin contact, inhalation, subcutaneous, and intravenous routes. A human skin and severe eye irritant. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x . See also N-NITROSO COMPOUNDS and CARBAMATES.

MIH275 CAS: 71-55-6 HR: 3
METHYL CHLOROFORM
DOT: UN 2831

mf: $C_2H_3Cl_3$ mw: 133.40

PROP: Colorless, nonflammable liquid. Bp: 74.1°, fp: -32.5°, flash p: none, d: 1.3376 @ 20°/4°, vap press: 100 mm @ 20.0°. Insol in water; sol in acetone, benzene, carbon tetrachloride, methanol, ether. IDLH 700 ppm.

SYNS: AEROTHENE TT ☐ CHLOROETHENE ☐ CHLOROETHENE ☐ CHLOROTHANE NU ☐ CHLOROTHENE ☐ CHLOROTHENE (inhibited) ☐ CHLOROTHENE NU ☐ CHLOROTHENE VG ☐ CHLORTEN ☐ INHIBISOL ☐ METHYLTRICHLOROMETHANE ☐ NCI-C04626 ☐ RCRA WASTE NUMBER U226 ☐ SOLVENT 111 ☐ STROBANE ☐ α -T ☐ 1,1,1-TCE ☐ 1,1,1-TRICHOORETHAAN (DUTCH) ☐ 1,1,1-TRICHLORAETHAN (GERMAN) ☐ TRICHLORO-1,1,1-ETHANE (FRENCH) ☐ 1,1,1-TRICHLOROETHANE ☐ α -TRICHLOROETHANE ☐ 1,1,1-TRICLOROETANO (ITALIAN) ☐ TRI-ETHANE

TOXICITY DATA with REFERENCE:

eye-man 450 ppm/8H BJIMAG 28,286,71
 skn-rbt 5 g/12D-1 MLD AIHAAP 19,353,58
 skn-rbt 20 mg/24H MOD 85JCAE -,94,86
 eye-rbt 100 mg MLD AIHAAP 19,353,58
 eye-rbt 2 mg/24H SEV 85JCAE -,94,86
 dnr-esc 500 mg/L PMRSDJ 1,195,81
 otr-mus:emb 20 mg/L CALEDQ 28,85,85
 ihl-man LCLo:27 g/ m^3 /10M JOCMA7 8,358,66
 ihl-man TCLo:350 ppm:CNS WEHRBJ 10,82,73
 orl-hmn TDLo:670 mg/kg:GIT NTIS** PB257-185
 ihl-hmn TCLo:920 ppm/70M:EYE,CNS AIHAAP 19,353,58
 ihl-man TCLo:200 ppm/4H:CNS ATSUDG 5,96,82
 orl-rat LD50:9600 mg/kg GNAMAP 29,45,90
 ihl-rat LC50:18,000 ppm/4H 28ZPAK -,28,72

ipr-rat LD50:3593 mg/kg ENVRAL 40,411,86
 orl-mus LD50:6 g/kg GNAMAP 29,45,90
 orl-mus LD50:11,240 mg/kg NTIS** PB257-185
 ihl-mus LC50:3911 ppm/2H SAIGBL 13,226,71
 ipr-mus LD50:3636 mg/kg SAIGBL 13,290,71
 orl-dog LD50:750 mg/kg FMCHA2 -,C310,91
 ipr-dog LD50:3100 mg/kg TXAPA9 10,119,67
 ivn-dog LDLo:95 mg/kg HBTXAC 5,72,59

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 20,515,79. NCI Carcinogenesis Bioassay (gavage); Inadequate Studies: mouse, rat NCITR* NCI-CG-TR-3,77. Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 350 ppm; STEL 450 ppm

ACGIH TLV: TWA 350 ppm; STEL 450 ppm; BEI: 10 mg/L trichloroacetic acid in urine at end of workweek; Not Classifiable as a Human Carcinogen

DFG MAK: 200 ppm (1100 mg/ m^3); BAT: 55 μ g/dL in blood after several shifts

NIOSH REL: (1,1,1-Trichloroethane) CL 350 ppm/15M
DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion, inhalation, skin contact, subcutaneous, and intraperitoneal routes. An experimental teratogen. Human systemic effects by ingestion and inhalation: conjunctiva irritation, hallucinations or distorted perceptions, motor activity changes, irritability, aggression, hypermotility, diarrhea, nausea or vomiting and other gastrointestinal changes. Experimental reproductive effects. Questionable carcinogen. Mutation data reported. A human skin irritant. An experimental skin and severe eye irritant. Narcotic in high concentrations. Causes a proarrhythmic activity that sensitizes the heart to epinephrine-induced arrhythmias. This sometimes will cause cardiac arrest, particularly when this material is massively inhaled as in drug abuse for euphoria.

Under the proper conditions it can undergo hazardous reactions with aluminum oxide + heavy metals, dinitrogen tetraoxide, inhibitors, metals (e.g., magnesium, aluminum, potassium, potassium-sodium alloy), sodium hydroxide, N_2O_4 , oxygen. When heated to decomposition it emits toxic fumes of Cl^- . Used as a cleaning solvent, as a chemical intermediate to produce vinylidene chloride, and as a propellant in aerosol cans. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #14 or NIOSH: Hydrocarbons, Halogenated, 1003.

MIH300 CAS: 32179-45-6 HR: 3
1-METHYL-5-CHLOROINDOLINE METHYLBROMIDE

mf: $C_{10}H_{13}ClN \cdot Br$ mw: 262.60

SYNS: 5-CHLORO-2,3-DIHYDRO-1,1-DIMETHYL-1H-INDOLIUM BROMIDE (9CI) ☐ S6 (pharmaceutical) ☐ S-6

TOXICITY DATA with REFERENCE:

orl-rat LD50:447 mg/kg OYYAA2 7,991,73
 scu-rat LD50:213 mg/kg OYYAA2 7,991,73
 ivn-rat LD50:9100 μ g/kg OYYAA2 7,991,73

orl-mus LD50:536 mg/kg OYYAA2 7,991,73

scu-mus LD50:128 mg/kg OYYAA2 7,991,73

ivn-mus LD50:12 mg/kg OYYAA2 7,991,73

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. An experimental teratogen. Other experimental reproductive effects. A cholinergic agent which stimulates the parasympathetic nerves. When heated to decomposition it emits toxic fumes of Cl^- , Br^- , and NO_x . See also BROMIDES.

MIH500 CAS: 4274-06-0 HR: 2
4-METHYL-6-(((2-CHLORO-4-NITRO)PHENYL)-AZO)-m-ANISIDINE

mf: $\text{C}_{14}\text{H}_{13}\text{ClN}_4\text{O}_3$ mw: 320.76

SYNS: AZO DYE No. 6945 □ BROWN SALT NV □ 2-CHLORO-4-NITROBENZENE-AZO-2'-AMINO-4'-METHOXY-5'-

METHYLBENZENE □ C.I. 37200 □ C.I. AZOIC DIAZO

COMPONENT 21 □ FAST BROWN SALT RR

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

MIH600 CAS: 32807-28-6 HR: 3
METHYL 4-CHLORO-3-OXOBUTANOATE

mf: $\text{C}_5\text{H}_7\text{ClO}_3$ mw: 150.57

SYNS: ACETOACETIC ACID, 4-CHLORO-, METHYL ESTER □ BUTANOIC ACID, 4-CHLORO-3-OXO-, METHYL ESTER (9CI) □ METHYL γ -CHLOROACETOACETATE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:77 mg/kg OYYAA2 33,695,87

ipr-mus LD50:91 mg/kg OYYAA2 33,695,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MIH750 CAS: 20405-19-0 HR: 3
(2-METHYL-4-CHLOROPHENOXY)ACETIC ACID, DIETHANOLAMINE SALT

mf: $\text{C}_9\text{H}_9\text{ClO}_3 \cdot \text{C}_4\text{H}_{11}\text{NO}_2$ mw: 305.79

SYNS: ((4-CHLORO-O-TOLYL)OXY)-ACETIC ACID with 2,2'-IMINODIETHANOL (1:1) □ MCPA DIETHANOLAMINE SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:800 mg/kg FCTXAV 3,883,65

ipr-rat LD50:300 mg/kg FCTXAV 3,883,65

orl-mus LD50:550 mg/kg FCTXAV 3,883,65

ipr-mus LD50:350 mg/kg FCTXAV 3,883,65

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x .

MIH800 CAS: 5221-16-9 HR: 2
2-METHYL-4-CHLOROPHENOXYACETIC ACID POTASSIUM SALT

mf: $\text{C}_9\text{H}_8\text{ClO}_3 \cdot \text{K}$ mw: 238.72

SYNS: ACETIC ACID, (4-CHLORO-2-METHYLPHENOXY)-, POTASSIUM SALT □ ACETIC ACID, ((4-CHLORO-O-TOLYL)OXY)-, POTASSIUM SALT □ AGROXONE 4 □ (4-CHLORO-2-METHYLPHENOXY)ACETIC ACID POTASSIUM

SALT □ ((4-CHLORO-O-TOLYL)OXY)ACETIC ACID POTASSIUM SALT □ FERNIMINE 4 □ K MCPA □ MCPA POTASSIUM SALT

TOXICITY DATA with REFERENCE:

orl-man LDLo:440 mg/kg:CNS,BAH BMJOAE 1,677,64

SAFETY PROFILE: Human systemic effects: convulsions, coma. When heated to decomposition it emits toxic vapors of Cl^- .

MIH900 CAS: 1432-14-0 HR: 2
2-(2-METHYL-4-CHLOROPHENOXY)PROPIONIC ACID, DIETHANOLAMINE SALT

mf: $\text{C}_{10}\text{H}_{11}\text{ClO}_3 \cdot \text{C}_4\text{H}_{11}\text{NO}_2$ mw: 319.82

SYNS: ETHANOL, 2,2-IMINODI-, COMPD. WITH 2-((4-CHLORO-O-TOLYL)OXY)PROPIONIC ACID (1:1) □ MECOPROP DIETHANOLAMINE SALT □ PROPIONIC ACID, 2-((4-CHLORO-O-TOLYL)OXY)-, compounded with 2,2'-IMINODIETHANOL (1:1)

CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.

orl-rat LD50:1060 mg/kg FCTXAV 3,883,1965

ipr-rat LD50:350 mg/kg FCTXAV 3,883,1965

orl-mus LD50:600 mg/kg FCTXAV 3,883,1965

ipr-mus LD50:400 mg/kg FCTXAV 3,883,1965

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

MIH925 CAS: 340-57-8 HR: 3
2-METHYL-3-(2-CHLOROPHENYL)-CHINAZOLON-4

mf: $\text{C}_{15}\text{H}_{11}\text{ClN}_2\text{O}$ mw: 270.73

SYNS: B 208 □ CHI 8 □ 3-(O-CHLOROPHENYL)-2-METHYL-4(3H)-QUINAZOLINONE □ 3-(O-CHLOROPHENYL)-2-METHYL-4-QUINAZOLONE □ MECLOQUALONE □ NSC-142005 □ NUBARENE □ 2-METHYL-3-(O-CHLOROPHENYL)-4-QUINAZOLINONE □ 4(3H)-QUINAZOLINONE, 3-(2-CHLOROPHENYL)-2-METHYL- □ 4(3H)-QUINAZOLINONE, 3-(O-CHLOROPHENYL)-2-METHYL- □ W 4744

TOXICITY DATA with REFERENCE:

orl-mus LD50:470 mg/kg ARZNAD 13,688,1963

unr-dog LD50:100 mg/kg 27ZQAG-258,1972

SAFETY PROFILE: A poison by an unreported route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Cl^- .

MII250 CAS: 1788-93-8 HR: 3
2-METHYL-3-(4-CHLOROPHENYL)-4(3H)-QUINAZOLINONE

mf: $\text{C}_{15}\text{H}_{11}\text{ClN}_2\text{O}$ mw: 270.73

SYN: 2-METHYL-3-(4'-CHLOROPHENYL)CHINAZOLON-(4) (GERMAN)

TOXICITY DATA with REFERENCE:

orl-mus LD50:580 mg/kg ARZNAD 13,688,63

unr-mus LD50:400 mg/kg PCJOAO 7,626,73

SAFETY PROFILE: Poison by an unspecified route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x .

MII750 CAS: 7142-09-8 HR: 2
2-METHYL-6-CHLORO-4-QUINAZOLINONE

mf: $\text{C}_9\text{H}_7\text{ClN}_2\text{O}$ mw: 194.63

SYN: 6-CHLORO-2-METHYL-4-QUINAZOLINONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:751 mg/kg ARZNAD 12,1204,62

ipr-mus LD50:514 mg/kg ARZNAD 12,1204,62

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

MIJ000**HR: 3****METHYL CHLOROSULFONATE**

mf: $\text{CH}_3\text{SO}_3\text{Cl}$ mw: 130.55

PROP: Colorless liquid, pungent odor. Mp: -70° , bp: 135° (decomp), d: 1.492 @ 10° , vap d: 4.51.

SAFETY PROFILE: Poison irritant to skin, eyes and mucous membranes. Will react with water, steam or acids to produce toxic and corrosive fumes. When heated to decomposition it emits highly toxic fumes of Cl^- and SO_x .

MIJ250**CAS: 500-28-7****HR: 2****METHYLCHLOROTHION**

mf: $\text{C}_8\text{H}_9\text{ClNO}_5\text{PS}$ mw: 297.66

$(\text{CH}_3\text{O})_2\text{P}(\text{S})\text{C}_6\text{H}_3(\text{Cl})\text{NO}_2$

PROP: Yellow crystals (commercial product is yellow oil). Mp: 21° , d: 1.437 @ $20^\circ/4^\circ$, bp: 125° @ 0.1 mm. Misc in C_6H_6 ; insol in H_2O .

SYNS: O-(3-CHLOOR-4-NITRO-FENYL)-O,O-DIMETHYL-MONOTHIOFOSFAAT (DUTCH) □ CHLOORTHION (DUTCH) □ O-(3-CHLOR-4-NITRO-PHENYL)-O,O-DIMETHYL-MONOTHIO-
PHOSPHAT (GERMAN) □ O-(3-CHLORO-4-NITROPHENYL)
O,O-DIMETHYL PHOSPHOROTHIOATE □ CHLORTION
METHYL □ CHLORTION (CZECH) □ O-(3-COLOR-4-NITRO-
FENIL)-O,O-DIMETIL-MONOTIOFOSFATO (ITALIAN) □ O,O-
DIMETHYL-O-3-CHLOR-4-NITROFENYLTIOSFAT (CZECH)
□ O,O-DIMETHYL-O-(3-CHLOR-4-NITROPHENYL)MONO-
THIOPHOSPHAT (GERMAN) □ O,O-DIMETHYL-O-(3-CHLORO-
4-NITROPHENYL) PHOSPHOROTHIOATE □ DIMETHYL-3-
CHLORO-4-NITROPHENYL THIONOPHOSPHATE □ O,O-
DIMETHYL-O-(3-CHLORO-4-NITROPHENYL) THIOPHOS-
PHATE □ O,O-DIMETHYL-p-NITRO-m-CHLOROPHENYL
THIOPHOSPHATE □ O,O-DIMETHYL-O-4-NITRO-3-
CHLOROPHENYL THIOPHOSPHATE □ ENT 18,861 □ p-NITRO-
m-CHLOROPHENYL DIMETHYL THIONOPHOSPHATE □
THIOPHOSPHATE de O,O-DIMETHYLE et de O-3-CHLORO-4-
NITROPHENYLE (FRENCH)

TOXICITY DATA with REFERENCE:

orl-rat LD50:625 mg/kg 85GYAZ -19,71

skn-rat LD50:1500 mg/kg WRPCA2 9,119,70

ipr-rat LD50:750 mg/kg AMIHBC 8,350,53

orl-mus LD50:794 mg/kg ARTODN 41,111,78

orl-rbt LDLo:1 g/kg JEENAI 48,139,55

ipr-gpg LD50:525 mg/kg ARZNAD 5,626,55

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and intraperitoneal routes. An insecticide. Decomposes and then ignites when heated above 270°C . When heated to decomposition it emits very toxic fumes of Cl^- , SO_x , PO_x , and NO_x .

MIJ275**CAS: 116929-00-1****HR: D****METHYL-3-((5-(2-CHLORO-4-(TRIFLUORO-
METHYL)PHENOXY)-2-NITROPHENYL)-
AMINO)BUTYRATE**

mf: $\text{C}_{18}\text{H}_{16}\text{ClF}_3\text{N}_2\text{O}_5$ mw: 432.81

SYNS: BUTANOIC ACID, 3-((5-(2-CHLORO-4-(TRIFLUORO-
METHYL)PHENOXY)-2-NITROPHENYL)AMINO)-, METHYL
ESTER □ RH-53385

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

MIJ300**CAS: 362-02-7****HR: 3****N-METHYLCHLORPROMAZINE IODIDE**

mf: $\text{C}_{18}\text{H}_{22}\text{ClN}_2\text{S}\cdot\text{I}$ mw: 460.83

SYNS: AMMONIUM, (3-(2-CHLOROPHENOTHIAZIN-10-
YL)PROPYL)TRIMETHYL-, IODIDE □ (3-(2-CHLORO-
PHENOTHIAZIN-10-YL)PROPYL)TRIMETHYLAMMONIUM
IODIDE □ CHLORPROMAZINE METHIODIDE □ CHLORO-
PROMAZINE METHOIODIDE □ METHOCHLORPROMAZINE
IODIDE □ 10H-PHENOTHIAZINE-10-PROPANAMINIUM, 2-
CHLORO-N,N,N-TRIMETHYL-, IODIDE(9CI) □ SKF 2680J

TOXICITY DATA with REFERENCE:

ipr-mus LD50:50 mg/kg NEOLA4 29,215,1982

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

MIJ500**CAS: 127-33-3****HR: 3****METHYLCHLORTETRACYCLINE**

mf: $\text{C}_{21}\text{H}_{21}\text{ClN}_2\text{O}_8$ mw: 464.89

PROP: Sesquihydrate. Mp: $174-178^\circ$ (decomp).

SYNS: 7-CHLORO-6-DEMETHYLTETRACYCLINE □
CHLORTETRACYCLINE, 6-DEMETHYL- □ DECIOMYCIN □
DEMECLOCYCLINE □ DEMETHYLCHLOROTETRACYCLINE
□ 6-DEMETHYLCHLOROTETRACYCLINE □ 6-DEMETHYL-7-
CHLOROTETRACYCLINE □ DEMETHYLCHLORTETRACYCLIN
□ DEMETHYLCHLORTETRACYCLINE □ 6-DEMETHYL-
CHLORTETRACYCLINE □ 6-DEMETHYL-7-CHLORTETRA-
CYCLINE □ DEMETHYLCHLORTETRACYCLINE BASE □ 6-
DEMETHYL-7-CLOROTETRACICLINA □ DMCT □ LEDERMycin
□ MEXOCINE □ RP 10192 □ TETRACYCLINE, 7-CHLORO-6-
DEMETHYL-

TOXICITY DATA with REFERENCE:

dni-hmn:lym 3750 $\mu\text{g}/\text{L}$ BCPHBM 16,127,83

orl-hmn TDLo:420 mg/kg/6W:END,BIO AIMEAS
79,679,73

orl-hmn TDLo:10 mg/kg:IMM,SKN BMJOAE 2,96,77

orl-hmn TDLo:68 mg/kg/8D:KID CTCEA9 15,734,73

ipr-rat LD50:358 mg/kg NIIRDN 6,497,82

ipr-mus LD50:454 mg/kg NIIRDN 6,497,82

ivn-mus LD50:79 mg/kg RPOBAR 2,281,70

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Human systemic effects by ingestion: diabetes insipidus, urine volume increase, other changes in urine composition, dermatitis, changes in the nails, allergic rhinitis, serum sickness, effects on cyclic nucleotides. Human reproductive effects by an unspecified route: postnatal measures or effects on newborn. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x .

MIJ750**CAS: 56-49-5****HR: 3****3-METHYLCHOLANTHRENE**

mf: $\text{C}_{21}\text{H}_{16}$ mw: 268.37

PROP: Pale-yellow needles from benzene. Mp: 179–180°, bp: 280° @ 80 mm, d: 1.28 @ 20°. Sol in benzene, xylene, toluene; sltly sol in amyl alc; insol in water.

SYNS: 1,2-DIHYDRO-3-METHYL-BENZ(Ⓟ)ACEANTHRYLENE □ 3-MCA □ METHYLCHOLANTHRENE □ 20-METHYLCHOLANTHRENE □ RCRA WASTE NUMBER U157

TOXICITY DATA with REFERENCE:

otr-hmn:lng 500 µg/L/2W GANNA2 74,615,83
sce-hmn:fbr 1 mmol/L MUREAV 117,47,83
orl-rat TDLo:600 mg/kg (MGN):CAR,TER CNREA8 12,296,52
orl-rat TDLo:600 mg/kg (female 60D pre):CAR CNREA8 12,296,52
orl-rat TDLo:600 mg/kg (multi) :CAR CNREA8 12,296,52
orl-mus TDLo:21 mg/kg (15-17D post):CAR,TER TXAPA9 72,427,84
skn-mus TDLo:120 mg/kg (MGN):CAR,TER BEXBAN 71,677,71
ipr-mus TDLo:5 mg/kg (17D post):CAR,TER CRNGDP 6,1389,85
ipr-mus LDLo:100 mg/kg TXAPA9 23,288,72
irn-frg LDLo:9 mg/kg CNREA8 24,1969,64

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

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by intravenous and intraperitoneal routes. Experimental teratogenic and reproductive effects. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

MIK000 CAS: 63041-78-1 HR: 2
5-METHYLCHOLANTHRENE

mf: C₂₁H₁₆ mw: 268.37

PROP: Yellow needles from benzene. Mp: 176.5–177.5°.

SYN: BENZ(Ⓟ)ACEANTHRYLENE, 1,2-DIHYDRO-5-METHYL-

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

MIK250 CAS: 17012-89-4 HR: 2
22-METHYLCHOLANTHRENE

mf: C₂₁H₁₆ mw: 268.37

PROP: Pale-yellow crystals from C₆H₆/Et₂O. Mp: 154.5–155°.

SYN: 4-METHYLCHOLANTHRENE

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

MIK500 HR: 2
20-METHYLCHOLANTHRENE CHOLEIC ACID

mf: C₉₆H₁₆₀O₁₆•C₂₁H₁₆ mw: 1838.93

TOXICITY DATA with REFERENCE:

cyt-mus:fbr 1 mg/L AJCAA7 39,149,40

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

MIK750 CAS: 3342-99-2 HR: 2
cis-3-METHYLCHOLANTHRENE-1,2-DIOL

mf: C₂₁H₁₆O₂ mw: 300.37

SYN: cis-1,2-DIHYDROXY-3-METHYLCHOLANTHRENE

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

MIL250 CAS: 3343-08-6 HR: 2
3-METHYLCHOLANTHRENE-2-ONE

mf: C₂₁H₁₄O mw: 282.35

SYN: 3-METHYLCHOLANTHRENE-2-ONE

TOXICITY DATA with REFERENCE:

mma-sat 20 nmol/plate CNREA8 38,3398,78

mma-ham:lng 15 nmol/plate CNREA8 38,3398,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MIL500 CAS: 3416-21-5 HR: 2
3-METHYLCHOLANTHRENE-11,12-OXIDE

mf: C₂₁H₁₆O mw: 284.37

SYNS: 11,12-DIHYDRO-11,12-EPOXY-3-METHYLCHOLANTHRENE □ 11,12-EPOXY-11,12-DIHYDRO-3-METHYLCHOLANTHRENE

TOXICITY DATA with REFERENCE:

slt-dmg-par 5 mmol/L CNREA8 33,2354,73

sln-dmg-par 5 mmol/L CNREA8 33,2354,73

dnd-hmn:oth 10 µmol/L CNREA8 36,272,76

otr-mus:oth 750 µg/L PNASA6 68,1098,71

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

MIL750 CAS: 63041-80-5 HR: 2
20-METHYLCHOLANTHRENE PICRATE

mf: C₂₁H₁₆•C₆H₃N₃O₇ mw: 497.49

SYNS: 1,2-DIHYDRO-3-METHYLBENZ(Ⓟ)ACEANTHRYLENE COMPOUND with 2,4,6-TRINITROPHENOL (1:1) □ 3-METHYLCHOLANTHRENE COMPOUND with PICRIC ACID (1:1) □ 2,4,6-TRINITROPHENOL COMPOUND with 1,2-DIHYDRO-3-METHYLBENZ(Ⓟ)ACEANTHRYLENE

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

MIM000 CAS: 63040-09-5 HR: 2
20-METHYLCHOLANTHRENE-TRINITRO-BENZENE

SYN: 3-METHYLCHOLANTHRENE COMPOUND with 1,3,5-TRINITROBENZENE (1:1)

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

NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

MIM250 CAS: 3343-07-5 HR: 2
20-METHYLCHOLANTHREN-15-ONEmf: C₂₁H₁₄O mw: 282.35**SYNS:** 15-KETO-20-METHYLCHOLANTHRENE □ 3-METHYLCHOLANTHREN-1-ONE**TOXICITY DATA with REFERENCE:**

mma-sat 20 nmol/plate CNREA8 38,3398,78

mma-ham:lng 15 nmol/plate CNREA8 38,3398,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MIM300 CAS: 2382-43-6 HR: 2**
β-METHYLCHOLINE CHLORIDEmf: C₆H₁₆NO•Cl mw: 153.68**SYNS:** AMMONIUM, (2-HYDROXYPROPYL)TRIMETHYL-, CHLORIDE □ (2-HYDROXYPROPYL)TRIMETHYLAMMONIUM CHLORIDE □ 2-HYDROXY-N,N,N-TRIMETHYL-1-PROPANAMINIUM CHLORIDE □ 1-PROPANAMINIUM, 2-HYDROXY-N,N,N-TRIMETHYL-, CHLORIDE (9CI)**TOXICITY DATA with REFERENCE:**

scu-mus LDLo:630 mg/kg JPETAB 1,303,09

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**MIM500 CAS: 3351-28-8 HR: 2**
1-METHYLCHRYSENEmf: C₁₉H₁₄ mw: 242.33**PROP:** Leaflets from hexane, C₆H₆, or toluene. Mp: 247–249°.**TOXICITY DATA with REFERENCE:**

mma-sat 10 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 32,379,83. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also other methylchrysene entries.**MIM750 CAS: 3351-32-4 HR: 2**
2-METHYLCHRYSENEmf: C₁₉H₁₄ mw: 242.33**PROP:** Leaflets from C₆H₆/EtOH. Mp: 229–230°.**TOXICITY DATA with REFERENCE:**

mma-sat 10 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 32,379,83. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic and possible carcinogenic data. Mutation data reported. When heated to decomposition it

emits acrid smoke and irritating fumes. See also other methylchrysene entries.

MIN000 CAS: 3351-31-3 HR: 2
3-METHYLCHRYSENEmf: C₁₉H₁₄ mw: 242.33**PROP:** A solid. Mp: 173–174°.**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 32,379,83. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also other methylchrysene entries.**MIN250 CAS: 3351-30-2 HR: 2**
4-METHYLCHRYSENEmf: C₁₉H₁₄ mw: 242.33**PROP:** Plates from C₆H₆/EtOH. Mp: 151–152°.**TOXICITY DATA with REFERENCE:**

mma-sat 10 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 32,379,83. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also other methylchrysene entries.**MIN500 CAS: 3697-24-3 HR: 3**
5-METHYLCHRYSENEmf: C₁₉H₁₄ mw: 242.33**PROP:** Needles from C₆H₆/EtOH. Mp: 118–119°.**TOXICITY DATA with REFERENCE:**

mma-sat 3 µg/plate CRNGDP 7,673,86

dnd-mus-skn 467 µmol/L CRNGDP 4,843,83

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 32,379,83. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also other methylchrysene entries.**MIN750 CAS: 1705-85-7 HR: 2**
6-METHYLCHRYSENEmf: C₁₉H₁₄ mw: 242.33**PROP:** Fluorescent needles from EtOAc/EtOH. Mp: 161–162°.**TOXICITY DATA with REFERENCE:**

mma-sat 10 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 32,379,83. EPA Genetic Toxicology Program.

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

MIN800 CAS: 81851-68-5 HR: 2
anti-5-METHYLCHRYSENE-1,2-DIOL-3,4-EPOXIDE

mf: $C_{19}H_{16}O_3$ mw: 292.35

SYN: CHRYSENO(3,4-B)OXIRENE-1,2-DIOL, 1,2,2A,3A-TETRAHYDRO-4-METHYL-, (1- α ,2- β ,2A- α ,3A- α)-

TOXICITY DATA with REFERENCE:

mic-sat 60 nmol/plate CRNGDP 9,2305,88

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

MIO000 CAS: 101-39-3 HR: 2
 α -METHYLCINNAMALDEHYDE

mf: $C_{10}H_{10}O$ mw: 146.20

PROP: Yellow liquid; cinnamon odor. D: 1.035–1.039, refr index: 1.602–1.607, flash p: 174°F. Sol in fixed oils, propylene glycol; insol in glycerin.

SYNS: FEMA No. 2697 \square METHYL CINNAMIC ALDEHYDE \square α -METHYLCINNAMIC ALDEHYDE \square α -METHYLCINNAMAL \square 2-METHYL-3-PHENYL-2-PROPENAL

TOXICITY DATA with REFERENCE:

skn-gpg 5%/2W MLD ADVEA4 58,121,78

orl-rat LD50:2050 mg/kg FCTXAV 13,681,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

MIO500 CAS: 103-26-4 HR: 2
METHYL CINNAMATE

mf: $C_{10}H_{10}O_2$ mw: 162.20

PROP: White to sltly yellow crystals; fruity odor. D: 1.042 @ 36°/0°, mp: 33.4°, bp: 263°, flash p: 212°F. Very sol in alc, ether; sol in fixed oils, glycerin, propylene glycol; insol in water.

SYNS: FEMA No. 2698 \square METHYL CINNAMYLATE \square METHYL-3-PHENYLPROPENOATE \square 3-PHENYL-2-PROPENOIC ACID METHYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:2610 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 irritating fumes.

MIO750 CAS: 1504-55-8 HR: 2
METHYL CINNAMIC ALCOHOL

mf: $C_{10}H_{12}O$ mw: 148.22

SYNS: α -METHYLCINNAMYL ALCOHOL \square 3-PHENYL-2-METHYL-PROPEN-2-OL-1

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 13,681,75

orl-rat LD50:2400 mg/kg FCTXAV 13,681,75

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. See also ALCOHOLS.

MIO770 CAS: 14722-38-4 HR: 3
4-METHYL CINNOLINE

mf: $C_9H_8N_2$ mw: 144.19

SYN: CINNOLINE, 4-METHYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#07710

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 .

MIO800 CAS: 14722-38-4 HR: 3
4-METHYL CINNOLINE

mf: $C_9H_8N_2$ mw: 144.19

SYN: CINNOLINE, 4-METHYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#07710

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 .

MIO975 CAS: 21340-68-1 HR: 2
METHYL CLOFENAPATE

mf: $C_{17}H_{17}ClO_3$ mw: 304.79

SYNS: ICI 54856 METHYL ESTER \square METHYL-2-(4-(p-CHLOROPHENYL)PHENOXY)-2-METHYLPROPIONATE \square PROPANOIC ACID, 2-((4'-CHLORO(1,1'-BIPHENYL)-4-YL)OXY)-2-METHYL-, METHYL ESTER (9CI)

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Cl^- .

MIP250 CAS: 1184-53-8 HR: 3
METHYL COPPER

mf: CH_3Cu mw: 78.58

PROP: Air-sensitive amorphous yellow solid. Explodes at 30–33°. Mp: 20° (decomp).

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

SAFETY PROFILE: Explodes violently in air when dry. See also COPPER COMPOUNDS and ORGANOMETALS.

MIP500 CAS: 607-71-6 HR: 2
4-METHYLCOUMARIN

mf: $C_{10}H_8O_2$ mw: 160.18

PROP: Needles from water; prisms from benzene. Mp: 182°. Sol in alc and benzene; sltly sol in water.

TOXICITY DATA with REFERENCE:

orl-mus LD50:1691 mg/kg YKKZAJ 83,1124,63

scu-mus LD50:1088 mg/kg YKKZAJ 83,1124,63

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

MIP750 CAS: 92-48-8 HR: 3
6-METHYLCOUMARIN

mf: C₁₀H₈O₂ mw: 160.18

PROP: White needles from benzene; coconut odor. Needles from alc. Mp: 73–76°, flash p: 153°F, bp: 303° @ 725 mm. Very sol in EtOH, Et₂O, and C₆H₆; sltly sol in pet ether.

SYNS: FEMA No. 2690 □ 6-MC □ 6-METHYL-2H-1-BENZOPYRAN-2-ONE □ 6-METHYLBENZOPYRONE □ 6-METHYL-1,2-BENZOPYRONE □ 6-METHYLCOUMARINIC ANHYDRIDE □ NCI-C55812 □ TONCARINE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,605,76

mma-sat 3 μmol/plate FCTOD7 21,707,83

orl-rat LD50:1680 mg/kg FCTXAV 14,605,76

scu-mus LD50:253 mg/kg YKKZAJ 76,186,56

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

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by ingestion. A skin irritant. Mutation data reported. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

MIP775 CAS: 2445-83-2 HR: 3
7-METHYLCOUMARIN

mf: C₁₀H₈O₂ mw: 160.18

PROP: Needles or plates from EtOH (aq). Mp: 128°, bp: 171.5 @ 11 mm. Very sol in EtOH, AcOH; sltly sol in H₂O.

SYN: 7-METHYL-2H-1-BENZOPYRAN-2-ONE (9CI)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 20(Suppl),747,82

orl-rat LD50:3800 mg/kg FCTOD7 20(Suppl),747,82

scu-mus LD50:258 mg/kg YKKZAJ 76,168,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

MIP800 CAS: 638-10-8 HR: 2
3-METHYLCROTONIC ACID, ETHYL ESTER

mf: C₇H₁₂O₂ mw: 128.19

SYNS: ETHYL DIMETHYLACRYLATE □ ETHYL β,β-DIMETHYLACRYLATE □ ETHYL 3,3-DIMETHYLACRYLATE □ ETHYL ISOBUTENOATE □ ETHYL ISOPROPYLIDENE ACETATE □ ETHYL α-METHYLCROTONATE □ ETHYL 3-METHYLCROTONATE □ ETHYL SENEIOATE □ 3-METHYL-2-BUTENOIC ACID ETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:11,600 mg/kg GTPZAB 29(4),52,85

orl-mus LD50:2450 mg/kg GTPZAB 29(4),52,85

orl-gpg LD50:500 mg/kg GTPZAB 29(4),52,85

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

MIQ000 CAS: 105-34-0 HR: 3
METHYL CYANOACETATE

mf: C₄H₅NO₂ mw: 99.10

PROP: Liquid. Mp: –22.5°, bp: 203°, vap d: 3.41, d: 1.123 @ 15°/4°. Insol in water; misc in alc and ether.

SYNS: CYANOACETIC ACID METHYL ESTER □ METHYL 2-CYANOACETATE □ METHYL CYANOETHANOATE □ USAF KF-22

TOXICITY DATA with REFERENCE:

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

skn-gpg LDLo:400 mg/kg 85JCAE -,920,86

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

SAFETY PROFILE: Poison by skin contact and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and CN[–]. See also ESTERS.

MIQ075 CAS: 137-05-3 HR: 2
METHYL 2-CYANOACRYLATE

mf: C₉H₁₃NO₂ mw: 111.11

PROP: Thick, clear colorless liquid; sharp odor. Bp: 47–48° @ 2 mm.

SYNS: ADHERE □ COAPT □ α-CYANOACRYLIC ACID METHYL ESTER □ 2-CYANOACRYLIC ACID, METHYL ESTER □ CYANOLIT □ EASTMAN 910 □ EASTMAN 910 ADHESIVE □ EASTMAN 910 MONOMER □ MECRILAT □ MECRYLATE □ METHYL CYANOACRYLATE □ METHYL α-CYANOACRYLATE □ SUPER GLUE

TOXICITY DATA with REFERENCE:

eye-hmn TD50:4 ppm AIHAAP 29,558,68

mmo-sat 100 μg/plate ENMUDM 9(Suppl 9),1,87

mmo-sat 300 μg/plate MUREAV 188,97,87

orl-rat LD50:1600 mg/kg 85INA8 6,965,91

ihl-rat LC50:101 ppm/6H 85INA8 6,965,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2 ppm; STEL 4 ppm

ACGIH TLV: TWA 0.2 ppm

DFG MAK: 2 ppm (9.2 mg/m³)

SAFETY PROFILE: Moderately toxic by ingestion and inhalation routes. Experimental reproductive effects. A human eye irritant. Can bond the eyelids or skin surfaces instantly. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and CN[–].

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-55.

MIQ250 CAS: 63020-25-7 HR: 2
9-METHYL-10-CYANO-1,2-BENZANTHRACENE

mf: C₂₀H₁₄N mw: 268.35

SYN: 7-CYANO-12-METHYL-BENZ(a)ANTHRACENE

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

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x and CN[–]. See also NITRILES.

MIQ300 CAS: 109460-96-0 HR: D
METHYL 2-CYANO-3-(2-BROMOPHENYL)-

ACRYLATEmf: $C_{11}H_{10}BrNO_2$ mw: 268.13**SYN:** ACRYLIC ACID, 2-CYANO-3-(2-BROMOPHENYL)-, METHYLESTER**TOXICITY DATA with REFERENCE:**

mic-sat 1 mg/plate MUREAV 188,97,1987

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Br^- .**MIQ350****HR: 2****METHYL CYANOCARBAMATE DIMER**mf: $C_6H_8N_4O_4$ mw: 200.15**SYN:** CYANO-CARBAMIC ACID METHYL ESTER, DIMER**TOXICITY DATA with REFERENCE:**

unr-rat LD50:1600 mg/kg GISAAA 50(6),78,85

unr-mus LD50:500 mg/kg GISAAA 50(6),78,85

unr-gpg LD50:820 mg/kg GISAAA 50(6),78,85

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Moderately toxic by unspecified routes. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also CARBAMATES, NITRILES, and ESTERS.**MIQ400****CAS: 18051-18-8****HR: D****d-6-METHYL-8-CYANOMETHYLERGOLINE**mf: $C_{17}H_{19}N_2$ mw: 251.38**SYNS:** d-6-METHYLERGOLINE-8-ACETONITRILE □ 6605 VUFB**CONSENSUS REPORTS:** Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of CN^- and NO_x . See also NITRILES.**MIQ725****CAS: 24342-56-1****HR: 3****o-METHYLCYCLIZINE DIHYDROCHLORIDE**mf: $C_{19}H_{24}N_2 \cdot 2ClH$ mw: 353.37**SYNS:** 1-METHYL-4-(o-METHYL- α -PHENYLBENZYL)PIPERAZINE DIHYDROCHLORIDE □ 1-METHYL-4-((2-METHYL-PHENYL)PHENYLMETHYL)PIPERAZINE DIHYDROCHLORIDE (9CI) □ 1-METHYL-4-(α -o-TOLYLBENZYL)PIPERAZINE DIHYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:142 mg/kg AIPTAK 116,17,58

ipr-mus LD50:70 mg/kg AIPTAK 116,17,58

ims-mus LD50:90 mg/kg AIPTAK 116,17,58

SAFETY PROFILE: Poison by ingestion, intramuscular, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.**MIQ740****CAS: 108-87-2****HR: 3****METHYLCYCLOHEXANE****DOT:** UN 2296mf: C_7H_{14} mw: 98.21**PROP:** Colorless liquid. Mp: -126.4° , lel: 1.2%, uel: 6.7%, bp: 100.3° , flash p: $25^\circ F$ (CC), d: 0.7864 @ $0^\circ/4^\circ$, 0.769 @ $20^\circ/4^\circ$, vap press: 40 mm @ 22.0° , vap d: 3.39, autoign temp: $482^\circ F$. IDLH 1200 ppm [LEL].**SYNS:** CYCLOHEXYLMETHANE □ HEXAHYDROTOLUENE □ METYLOCYCLOHEKSAN (POLISH) □ SEXTONE B □ TOLUENE HEXAHYDRIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:2250 mg/kg 85GMAT -,82,82

ihl-mus LC50:41,500 mg/ m^3 /2H 85GMAT -,82,82

orl-rbt LDLo:4000 mg/kg JIHTAB 25,199,43

ihl-rbt LC50:15,227 ppm/1H JIDHAN 25,323,43

skn-rbt LD: $>86,700$ mg/kg JIDHAN 25,199,43

ihl-rbt TCLo:10,054 ppm/6H/2W-I JIDHAN 25,323,43

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 400 ppm**ACGIH TLV:** TWA 400 ppm**DFG MAK:** 500 ppm (2000 mg/ m^3)**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by ingestion.

Mildly toxic by inhalation and skin contact. This material does not cause irritation to the eyes and nose, and, even at the level of 500 ppm, exhibits only a very faint odor.

Therefore, it cannot be said to have any warning properties. It is believed to be about three times as toxic as hexane, and has caused death by tetanic spasm in animals. In sublethal concentrations, it causes narcosis and anesthesia. Dangerous fire hazard and moderate explosion hazard when exposed to heat, flame, or oxidizers. To fight fire, use foam, CO_2 , dry chemical. When heated to decomposition it emits acrid smoke and fumes.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Hydrocarbons, Bp $36-126^\circ C$, 1500.**MIQ745****CAS: 25639-42-3****HR: 3****METHYLCYCLOHEXANOL****DOT:** UN 2617mf: $C_7H_{14}O$ mw: 114.21**PROP:** Colorless, viscous liquid; aromatic, menthol-like odor. Bp: $155-180^\circ$, flash p: $154^\circ F$ (CC), autoign temp: $565^\circ F$, d: 0.924 @ $15.5^\circ/15.5^\circ$, vap d: 3.93. IDLH 500 ppm.**SYNS:** HEXAHYDROCRESOL □ HEXAHYDROMETHYL-PHENOL □ METHYLCYCLOHEXANOL (ACGIH, DOT, OSHA) □ METHYL CYCLOHEXANOLS, Fp not $>60.5^\circ C$ (DOT) □ METYLOCYCLOHEKSANOL (POLISH)**TOXICITY DATA with REFERENCE:**

ihl-hmn TCLo:500 ppm:CNS,LIV,KID TGNCDL 2,55,61

orl-rat LD50:1660 mg/kg JIHTAB 25,415,43

scu-rat LD50:2900 mg/kg JIHTAB 25,415,43

orl-rbt LDLo:1750 mg/kg HBTXAC 1,194,56

skn-rbt LDLo:6800 mg/kg HBTXAC 1,194,56

OSHA PEL: TWA 50 ppm**ACGIH TLV:** TWA 50 ppm**DFG MAK:** 50 ppm (235 mg/ m^3)**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by ingestion and subcutaneous routes. Mildly toxic by skin contact. Human system effects by inhalation: antipsychotic, unspecified liver and kidney effects. Combustible when exposed to heat, flame, or oxidizers. On heating it emits acrid fumes; can react with oxidizing materials. To fight fire, use alcohol foam, CO_2 , dry chemical.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Methylcyclohexanol S374.

MIQ750 CAS: 591-23-1 HR: 2**m-METHYLCYCLOHEXANOL**mf: C₇H₁₄O mw: 114.21**TOXICITY DATA with REFERENCE:**

ims-mus LD50:1000 mg/kg JSICAZ 21,342,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intramuscular route. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.**MIR000 CAS: 583-59-5 HR: 2****o-METHYLCYCLOHEXANOL**mf: C₇H₁₄O mw: 114.21**PROP:** Colorless liquid. D: 0.934 @ 20°/4°, mp: -9.5°, bp: 165°. Very sltly sol in water, misc in alc and ether.**TOXICITY DATA with REFERENCE:**

ims-mus LD50:1000 mg/kg JSICAZ 21,342,62

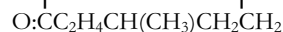
SAFETY PROFILE: Moderately toxic by intramuscular route. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.**MIR250 CAS: 1331-22-2 HR: 3****METHYLCYCLOHEXANONE****DOT:** UN 2297mf: C₇H₁₂O mw: 112.19**PROP:** Water-white to pale-yellow liquid; acetone-like odor. Mp: -14°C, bp: 160-170°, flash p: 118°F (CC), d: 0.925 @ 15°/5°, vap d: 3.86. Insol in water; sol in ether and alc.**SYN:** METYLOCYCLOHEKSANON (POLISH)**TOXICITY DATA with REFERENCE:**

orl-rbt LDLo:1000 mg/kg JIHTAB 25,199,43

skn-rbt LDLo:4900 mg/kg JIHTAB 25,199,43

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by ingestion. Mildly toxic by skin contact. A toxic compound that can damage the kidneys and the liver. It is similar to cyclohexanol in its toxic action, although it is somewhat less active. Harmful exposure in industry is rare. Experimental animals can withstand prolonged exposures of 0.02-0.05% by volume in air. Flammable liquid when exposed to heat, sparks, or flame. Can react violently with HNO₃ and other oxidizers. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Methylcyclohexanone, 2521.**MIR500 CAS: 583-60-8 HR: 3****2-METHYLCYCLOHEXANONE**mf: C₇H₁₂O mw: 112.19**PROP:** Liquid. D: 0.925 @ 20°/4°, mp: -14°, bp: 165.1°. Insol in water; sol in alc and ether. IDLH 600 ppm.**SYNS:** 2-METHYL-CYCLOHEXANON (GERMAN, DUTCH) □ o-METHYLCYCLOHEXANONE □ 1-METHYLCYCLOHEXAN-2-ONE □ 2-METILCICLOESANONE (ITALIAN)**TOXICITY DATA with REFERENCE:**orl-rat LD50:1980 mg/kg AIHAAP 30,470,69
ihl-rat LCLo:2800 ppm/4H AIHAAP 30,470,69
ipr-mus LD50:200 mg/kg NTIS** AD691-490
ivn-mus LDLo:270 mg/kg COREAF 236,633,53
orl-rbt LD50:1 g/kg DTLVS* 4,272,80
skn-rbt LD50:1635 mg/kg AIHAAP 30,470,69**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 50 ppm; STEL 75 ppm (skin)**ACGIH TLV:** TWA 50 ppm (skin)**DFG MAK:** 50 ppm (230 mg/m³)**SAFETY PROFILE:** Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES and other methylcyclohexanone entries.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Methylcyclohexanone, 2521.**MIR600 CAS: 591-24-2 HR: 3****3-METHYLCYCLOHEXANONE**mf: C₇H₁₂O mw: 112.17**SYN:** METHYL-3-CYCLO-HEXANONE-1 (FRENCH)**TOXICITY DATA with REFERENCE:**

ivn-dog LDLo:310 mg/kg COREAF 236,633,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Reaction with hydrogen peroxide + nitric acid forms an explosive peroxide. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES and other methylcyclohexanone entries.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Methylcyclohexanone, 2521.**MIR625 CAS: 589-92-4 HR: 3****4-METHYLCYCLOHEXANONE**mf: C₇H₁₂O mw: 112.17**PROP:** Bp: 170°, d: 0.914 @ 20°/4°.**SYN:** METHYL-4-CYCLO-HEXANONE-1 (FRENCH)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:800 mg/kg 38MKAJ 2C,4783,82

orl-mus LD50:1600 mg/kg 38MKAJ 2C,4783,82

ivn-dog LDLo:370 mg/kg COREAF 236,633,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Moderately toxic by ingestion. Mixture with nitric acid explodes when heated to 75°C. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES and other methylcyclohexanone entries.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Methylcyclohexanone, 2521.**MIR750 CAS: 591-47-9 HR: 2****4-METHYLCYCLOHEXENE**

mf: C₇H₁₂ mw: 96.174

PROP: A clear liquid. Bp: 102.5°, flash p: 30.2°F, d: 0.804 @ 15.5°/15.5°, vap press: 10.3 mm @ 38°, vap d: 3.34.

SAFETY PROFILE: Probably an irritant and narcotic in high concentration. Very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

MIS250 CAS: 2021-21-8 HR: D
**N-METHYL-4-CYCLOHEXENE-1,2-DICARB-
 OXIMIDE**

mf: C₉H₁₁NO₂ mw: 165.21**SYN:** N-METHYL-1,2,3,6-TETRAHYDROPHthalimide

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

MIS500 CAS: 72299-02-6 HR: 1
**1-((6-METHYL-3-CYCLOHEXEN-1-YL)CARBON-
 YL)PIPERIDINE**

mf: C₁₃H₂₁NO mw: 207.35**SYN:** AI3-36329-A**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD NTIS** AD-A075-205

eye-rbt 100 mg/24H MLD NTIS** AD-A075-205

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

MIS750 CAS: 17264-01-6 HR: 3
(METHYL-3-CYCLOHEXENYL)METHANOL

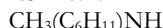
mf: C₈H₁₄O mw: 126.22**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1410 µg/kg AIHAAP 30,470,69

skn-rbt LD50:620 mg/kg AIHAAP 30,470,69

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

MIT000 CAS: 100-60-7 HR: 3
N-METHYLCYCLOHEXYLAMINE

mf: C₇H₁₅N mw: 113.2**PROP:** Bp: 145–147°.

SYNS: CYCLOHEXANAMINE, N-METHYL-(9CI) □ CYCLO-HEXYLMETHYLAMINE □ N-METHYLCYCLOHEXANAMINE □ METHYLCYCLOHEXYLAMINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:400 mg/kg 34ZIAG -,388,69

skn-rbt LDLo:2 g/kg 34ZIAG -,388,69

ihl-gpg LC50:7000 mg/m³/1H 34ZIAG -,388,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. Mildly toxic by inhalation. A corrosive irritant to skin, eyes and mucous membranes. Contact can cause severe eye damage. Can cause ptosis,

lachrymation, gasping, irregular respiration, nose-bleeding, prostration, convulsions. At a skin contact dose of 2 g/kg rabbits died in 24 hours and skin was badly burned. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

MIT250 CAS: 21209-02-9 HR: 3
**S-2-((4-(4-METHYLCYCLOHEXYL)BUTYL)-
 AMINO)ETHYL THIOSULFATE**

mf: C₁₃H₂₇NO₃S₂ mw: 309.53**TOXICITY DATA with REFERENCE:**

orl-mus LD50:900 mg/kg JMCAR 11,1190,68

ipr-mus LD50:7 mg/kg JMCAR 11,1190,68

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

MIT600 CAS: 329-99-7 HR: 3
**METHYL CYCLOHEXYLFLUOROPHOS-
 PHONATE**

mf: C₇H₁₄FO₂P mw: 180.18**SYNS:** CMPF □ CYCLOHEXYL METHYLPHOSPHONO-FLUORIDATE**TOXICITY DATA with REFERENCE:**

scu-rat LD50:225 µg/kg CJPPA3 44,745,66

scu-mus LD50:400 µg/kg SCJUAD 4,33,67

scu-rbt LD50:100 µg/kg SCJUAD 4,33,67

scu-gpg LD50:100 µg/kg CJPPA3 44,745,66

scu-ham LD50:130 µg/kg CJPPA3 46,109,68

SAFETY PROFILE: A deadly poison by subcutaneous route. When heated to decomposition it emits toxic fumes of PO_x and F⁻.

MIT610 CAS: 25756-29-0 HR: 3
N-METHYL-N-(CYCLOHEXYLMETHYL) AMINE

mf: C₈H₁₇N mw: 127.26**SYN:** CYCLOHEXANEMETHYLAMINE, N-METHYL-**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1410 mg/kg AIHAAP 30,470,69

skn-rbt LD50:630 µL/kg AIHAAP 30,470,69

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

MIT615 CAS: 34884-20-3 HR: 2
4-METHYLCYCLOHEXYLMETHYLCARBINOL

mf: C₉H₁₈O mw: 142.27**SYNS:** CP 80288 □ CYCLOHEXANEMETHANOL, α,4-

DIMETHYL-, □ 1-(cis/trans-4-METHYLCYCLOHEXYL)ETHANOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/24H SEV NTIS** OTS0546119

eye-rbt 100 µL/24H SEV NTIS** OTS0546119

orl-rat LD50:3700 mg/kg NTIS** OTS0546119

skn-rbt LDLo:3160 mg/kg NTIS** OTS0546119

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

MIT625 CAS: 541-91-3 HR: 3

3-METHYL-1-CYCLOPENTADECANONEmf: C₁₆H₃₀O mw: 238.46

SYNS: CYCLOPENTADECANONE, 3-METHYL- □ 3-METHYL-CYCLOPENTADECANONE □ MOSCHUS KETONE □ MUSCONE □ MUSKONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTOD7 20,749,82

orl-rat LD50:>5 g/kg FCTOD7 20,749,82

skn-rbt LD50:>5 g/kg FCTOD7 20,749,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Low oral and skin contact toxicity. A skin irritant. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.**MIT700 CAS: 3727-31-9 HR: 2
2-METHYL-1,3-CYCLOPENTADIENE**mf: C₆H₈ mw: 80.13

SYN: 1,3-CYCLOPENTADIENE, 2-METHYL-

TOXICITY DATA with REFERENCE:

orl-mus LD50:2700 mg/kg VCVGH*,92,1990

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**MIU500 CAS: 96-37-7 HR: 3
METHYLCYCLOPENTANE****DOT:** UN 2298mf: C₆H₁₂ mw: 84.18**PROP:** Colorless liquid or solid. Mp: -142.5°, bp: 71.8°, flash p: <20°F, d: 0.750 @ 20°/4°, vap press: 100 mm @ 17.9°, vap d: 2.9. Insol in water; sol in ether.

SYN: METHYL CYCLOPENTANE (DOT)

TOXICITY DATA with REFERENCE:ihl-mus LCLo:9500 mg/m³ AEPPAE 149,116,30**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Mildly toxic by inhalation. Probably irritating and narcotic in high concentration. Very dangerous fire hazard when exposed to heat, flame, or oxidizers. 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.**MIU750 CAS: 3353-08-0 HR: 2
17-METHYL-15H-CYCLOPENTA(a)PHEN-ANTHRENE**mf: C₁₈H₁₄ mw: 230.32**TOXICITY DATA with REFERENCE:**

mma-sat 50 µg/plate CNREA8 36,4525,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**MIV250 CAS: 63020-76-8 HR: 2
10-METHYL-1,2-CYCLOPENTENOPHEN-ANTHRENE**mf: C₁₈H₁₆ mw: 232.34

SYN: 16,17-DIHYDRO-7-METHYL-15H-CYCLOPENTA(a)-PHENANTHRENE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**MIV300 CAS: 63884-38-8 HR: 3
METHYLCYCLOPROPANECARBONYL-HYDRAZINE**mf: C₅H₁₀N₂O mw: 114.17

SYNS: CYCLOPROPANE, 1-(N-AMINO)CARBAMOYL-2-METHYL- □ HYDRAZINE, N-((2-METHYLCYCLOPROPYL)-CARBONYL)- □ KETONE, 2-METHYLCYCLOPROPYL HYDRAZINO □ USAF A-14980

TOXICITY DATA with REFERENCE:

ipr-mus LD50:25 mg/kg NTIS** AD430-559

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.**MIV500 CAS: 135-07-9 HR: 3
METHYLCYCLOTHIAZIDE**mf: C₉H₁₁Cl₂N₃O₄S₂ mw: 360.25

SYNS: AQUATENSEN □ ENDURON □ METHYCHLOTHIAZIDE □ METHYLCLOTHIAZIDE □ METHYCYCLOTHIAZIDE □ METHYLCHLOROTHIAZIDE □ METHYLCLOTHIAZIDE □ NSC-110431

TOXICITY DATA with REFERENCE:

cyt-ham:fbr 250 mg/L ESKHA5 96,55,78

cyt-ham:lng 140 mg/L GMCRCDC 27,95,81

ipr-rat LD50:2000 mg/kg 29ZVAB -,77,69

ipr-mus LD50:870 mg/kg 29ZVAB -,77,69

ivn-mus LD50:400 mg/kg 29ZVAB -,77,69

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. Mutation data reported. An FDA proprietary drug. When heated to decomposition it emits very toxic fumes of SO_x, NO_x, and Cl₂.**MJR775 CAS: 234-17-3 HR: 3
7,8-METHYLENEDIOXYISOQUINOLINE**mf: C₁₀H₇NO₂ mw: 173.17

SYN: 1,3-DIOXOLO(4,5-H)ISOQUINOLINE

TOXICITY DATA with REFERENCE:

orl-rat TDLo:22.7 mg/kg BIPBU* 24,1277,2001

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**MJR780 CAS: 475-80-9 HR: D
3,4-(METHYLENEDIOXY)-10-NITROPHEN-ANTHRENE-1-CARBOXYLIC ACID**mf: C₁₆H₉NO₆ mw: 311.26

SYNS: ARISTOLOCHIC ACID B □ ARISTOLOCHIC ACID II □ PHENANTHRO(3,4-D)-1,3-DIOXOLE-5-CARBOXYLIC ACID, 6-NITRO-

TOXICITY DATA with REFERENCE:

add-orl-rat 40 mg/kg/2W-I CRNGDP 15,1187,1994

msc-rat-fbr 20 mg/L EMMUEG 10,275,1987

msc-scu-rat 128 µg/kg EMMUEG 10,275,1987

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**MIW000 CAS: 19009-56-4 HR: 1**
2-METHYL-1-DECANALmf: C₁₁H₂₂O mw: 170.33**SYN:** METHYL OCTYL ACETALDEHYDE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 14,601,76

orl-rat LD50:>5 g/kg FCTXAV 14,609,76

skn-rbt LD50:>5 g/kg FCTXAV 14,609,76

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. See also ALDEHYDES.**MIW050 CAS: 7011-83-8 HR: 1**
4-METHYLDECANOLIDEmf: C₁₁H₂₀O₂ mw: 184.31**SYNS:** DECAHOIC ACID, 4-HYDROXY-4-METHYL-, γ-LACTONE □ α-METHYL DECALACTONE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 17,867,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**MIW060 CAS: 70851-61-5 HR: 1**
4-METHYL-cis-DECENE γ-LACTONEmf: C₁₁H₁₈O₂ mw: 182.29**SYNS:** (Z)-DIHYDRO-5-(3-HEXENYL)-5-METHYL-2(3H)-FURANONE □ 2(3H)-FURANONE, DIHYDRO-5-(3-HEXENYL)-5-METHYL-, (Z)- □ 4-HYDROXY-4-METHYL-7-cis-DECENOIC ACID LACTONE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FCTOD7 30,43S,92

skn-rbt LD50:>5 g/kg FCTOD7 30,43S,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.**MIW075 CAS: 7289-52-3 HR: 1**
METHYL n-DECYL ETHERmf: C₁₁H₂₄O mw: 172.35**SYNS:** DECANE, 1-METHOXY- □ DECYL METHYL ETHER □ ETHER, DECYL METHYL □ 1-METHOXYDECANE □ METHYL DECYL ETHER**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTOD7 20,667,82

orl-rat LD50:>5 g/kg FCTOD7 20,667,82

skn-rbt LD50:>5 g/kg FCTOD7 20,667,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**MIW100 CAS: 8022-00-2 HR: 3**
METHYL DEMETONmf: C₆H₁₅O₃PS₂ mw: 230.30**PROP:** An oily liquid. D: 1.20. Sltly sol in water.**SYNS:** BAY 15203 □ BAYER 21/116 □ DEMETHON-METHYL (MAK) □ DEMETON METHYL □ DURATOX □ ENT 18,862 □ S(and O)-2-(ETHYLTHIO)ETHYL-O,O-DIMETHYL PHOSPHOROTHIOATE □ METASYSTOX □ METHYL-MERCAPTOPHOS □ METHYL SYSTOX**TOXICITY DATA with REFERENCE:**

skn-rat LD50:300 mg/kg WRPCA2 9,119,70

orl-mus LD50:46 mg/kg 85GMAT -,85,82

orl-cat LDLo:30 mg/kg 85GMAT -,85,82

ihl-cat LC50:20 mg/m³/4H 85GMAT -,85,82

orl-rbt LDLo:150 mg/kg JEENAI 48,139,55

OSHA PEL: TWA 0.5 mg/m³ (skin)**ACGIH TLV:** TWA 0.5 mg/m³ (skin)**DFG MAK:** 0.5 ppm (4.8 mg/m³)**SAFETY PROFILE:** Deadly poison by ingestion, skin contact, and inhalation routes. A cholinesterase inhibitor. An insecticide and acaricide. See also PARATHION and various demeton entries.**MIW250 CAS: 2587-90-8 HR: 3**
METHYL DEMETON METHYLmf: C₅H₁₃O₃PS₂ mw: 216.27**PROP:** Pale-yellow oil or liquid. Bp: 89° @ 0.15 mm, d: 1.207 @ 20°/4°. Sol in water at room temp, sol in org solvs.**SYNS:** CEBETOX □ CYMETOX □ DEMEPHION □ ISONITOX □ 2-(METHYLTHIO)-ETHANETHIOL-O,O-DIMETHYL PHOSPHOROTHIOATE □ 2-(METHYLTHIO)-ETHANETHIOL-S-ESTER with O,O-DIMETHYL PHOSPHOROTHIOATE □ TINOX**TOXICITY DATA with REFERENCE:**

dnr-omi:50 µL/plate BIZNAT 95,463,76

orl-rat LD50:20 mg/kg PESTD5 16,273,75

skn-rat LD50:68 mg/kg WRPCA2 9,119,70

orl-mus LD50:23 mg/kg PESTD5 16,273,75

orl-dog LD50:37 mg/kg PESTD5 16,273,75

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.**SAFETY PROFILE:** Poison by ingestion and skin contact. Mutation data reported. *Caution:* It is a cholinesterase inhibitor. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also PARATHION and various demeton entries.**MIW500 CAS: 477-30-5 HR: 3**
N-METHYL-N-DESACETYL COLCHICINEmf: C₂₁H₂₅NO₅ mw: 371.47**PROP:** A solid. Mp: 186°.**SYNS:** ALKALOID H 3, from COLCHICUM ANTUMNALE □ BENZO(a)HEPTALEN-9(5H)-ONE, 6,7-DIHYDRO-1,2,3,10-TETRAMETHOXY-7-(METHYLAMINO)-, (S)- □ C-12669 □ CIBA 12669A □ COLCEMID □ COLCEMIDE □ COLCHAMIN □ COLCHAMINE □ COLCHICINE, 7-DEACETAMIDO-7-(METHYLAMINO)- □ COLCHICINE, DEACETYL-N-METHYL- □

COLEMID □ DEACETYLMETHYLCOLCHICINE □ DEACETYLN-METHYLCOLCHICINE □ N-DEACETYLN-METHYLCOLCHICINE □ DEMECOLCIN □ DEMECOLCINE □ DESACETYLMETHYLCOLCHICINE □ N-DESACETYLMETHYLCOLCHICINE □ N-DESACETYLN-METHYLCOLCHICINE □ DESMECOLCHINE □ DESMECOLCINE □ 6,7-DIHYDRO-1,2,3,10-TETRAMETHOXY-7-(METHYLAMINO)-BENZO(α)HEPTALEN-9 (5H)-ONE □ KOLCHAMIN □ KOLCHICIN □ KOLKAMIN □ METHYLCOLCHICINE □ N-METHYL-N-DEACETYLCOLCHICINE □ N-METHYLDMECOLCINE □ N-METHYL-N-DESACETYLCOLCHICINE □ NSC-3096 □ OMAIN □ OMAINE □ REICHSTEIN'S F □ SANTAVY'S SUBSTANCE F □ SUBSTANCE F

TOXICITY DATA with REFERENCE:

cyt-hmn:hla 100 nmol/L JJEMAG 40,409,70
 cyt-hmn:oth 10 µg/L TSITAQ 12,382,70
 sln-mus-ipr 37 mg/kg ENMUDM 6,422,84
 otr-ham:emb 10 µg/L CRNGDP 5,89,84
 scu-rat TDLo:3 mg/kg (7-9D preg):TER COREAF 247,152,58
 ipr-mus TDLo:1800 µg/kg (female 8D post):REP AMZOAF 6,551,66
 orl-hmn TDLo:200 µg/kg:SKN 34ZIAG -,184,69
 ivn-rat LD50:1700 µg/kg ARZNAD 20,1467,70
 par-rat LD50:1700 µg/kg RRCRBU 52,76,75
 orl-mus LD50:25,530 µg/kg NCISP* JAN86
 ipr-mus LD50:35 mg/kg AEPPAE 230,559,57
 ims-mus LD50:87 mg/kg JMCMAR 24,257,81

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, parenteral, intravenous, and intramuscular routes. Human systemic effects by ingestion: (skin and appendages) hair effects. Human mutation data reported. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

MIW750 CAS: 4619-66-3 HR: 2 METHYL DIACETOACETATE

mf: C₇H₁₀O₄ mw: 158.17

PROP: Colorless liquid. Vap d: 5.45.

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open JIHTAB 30,63,48
 eye-rbt 5 mg SEV AJOPAA 29,1363,46
 orl-rat LD50:1700 mg/kg JIHTAB 30,63,48

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

MIX000 CAS: 63991-70-8 HR: 2 2-METHYLDIACETYL BENZIDINE

mf: C₁₇H₁₈N₂O₂ mw: 282.37

SYN: 2-METHYL-N,N'-DIACETYL BENZIDINE

TOXICITY DATA with REFERENCE:

orl-rat TDLo:5600 mg/kg/35W-C:CAR CNREA8 16,525,56

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

MIX100 CAS: 84434-45-7 HR: D**2'-METHYL-2,4-DIAMINO-3-METHYL AZO-BENZENE**

mf: C₁₄H₁₆N₄ mw: 240.34

SYNS: 1,3-BENZENEDIAMINE, 2-METHYL-4-((2-METHYL-PHENYL)AZO)- 2-METHYL-4-((2-METHYLPHENYL)AZO)-1,3-BENZENEDIAMINE □ m-PHENYLENEDIAMINE, 2-METHYL-4-((2-METHYLPHENYL)AZO)-

TOXICITY DATA with REFERENCE:

mic-sat 10 µL/g/plate MUREAV 240,227,1990

dns-rat-lvr 2500 ng/well MUREAV 240,227,1990

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

MIX250 CAS: 26981-93-1 HR: 3 METHYLDIAZENE

mf: CH₄N₂ mw: 44.06

SYN: METHYL DIAZINE

SAFETY PROFILE: May explode on rapid heating (a mixture exploded when rapidly heated from -196°C to ambient temperature). Incompatible with oxygen. When heated to decomposition it emits toxic fumes of NO_x.

MIX500 CAS: 765-31-1 HR: 3 3-METHYLDIAZIRINE

mf: C₂H₄N₂ mw: 56.07

SAFETY PROFILE: The gas explodes when heated. When heated to decomposition it emits toxic fumes of NO_x.

MIX750 CAS: 6832-16-2 HR: 3 METHYL DIAZOACETATE

mf: C₃H₄N₂O₂ mw: 100.08

CH₃OCO•CHN₂

SAFETY PROFILE: Explodes violently when heated. Upon decomposition it emits toxic fumes of NO_x.

MIY000 CAS: 59652-21-0 HR: 2 7-METHYLDIBENZ(c,h)ACRIDINE

mf: C₂₂H₁₅N mw: 293.38

SYN: 9-METHYL-3,4,5,6-DIBENZACRIDINE

TOXICITY DATA with REFERENCE:

scu-mus TDLo:72 mg/kg/9W-I:ETA COREAF 251,1322,60

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

MIY200 CAS: 79543-29-6 HR: 2 14-METHYLDIBENZ(a,h)ACRIDINE

mf: C₂₂H₁₅N mw: 293.38

SYN: 10-METHYL-1,2,5,6-DIBENZACRIDINE

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

MIY250 CAS: 59652-20-9 HR: 2 14-METHYLDIBENZ(a,j)ACRIDINE

mf: C₂₂H₁₅N mw: 293.38

SYN: 10-METHYL-3,4,5,6-DIBENZACRIDINE