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EAB100 **CAS: 55620-97-8** **HR: D**
E 785

mf: $C_{19}H_{26}O_3$ mw: 302.45

SYN: α,α -DIMETHYL-6-METHOXY- β -PROPYL-3,4-DIHYDRO-2-NAPHTHALENEPROPIONIC ACID

TOXICITY DATA with REFERENCE:

orl-rat TDLo:70 μ g/kg (female 1-7D post):REP IJEBA6 13,79,75

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

EAB200 **HR: 3**
EASTERN COTTONMOUTH VENOM

SYNS: AGKISTRODON PISCIVORUS PISCIVORUS VENOM \square VENOM, SNAKE, AGKISTRODON PISCIVORUS PISCIVORUS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:4844 μ g/kg TOXIA6 9,131,71

scu-mus LD50:11 mg/kg TOXIA6 17,237,79

ivn-mus LD50:2044 μ g/kg TOXIA6 9,131,71

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

EAB225 **HR: 3**
EASTERN DIAMOND-BACK RATTLESNAKE VENOM

SYNS: C. ADAMANTEUS VENOM \square CROTALUS ADAMANTEUS VENOM \square VENOM, SNAKE, CROTALUS ADAMANTEUS

TOXICITY DATA with REFERENCE:

ims-rat LDLo:25 mg/kg AJMSA9 236,204,58

scu-mus LD50:7700 μ g/kg TOXIA6 17,661,79

ivn-mus LD50:1333 μ g/kg TOXIA6 9,131,71

ims-mus LD50:28 mg/kg AJMSA9 239,1,60

scu-dog LDLo:5 mg/kg SURGAZ 47,975,60

ivn-dog LDLo:500 μ g/kg 19DDA6 1,269,67

ims-dog LDLo:640 μ g/kg AJMSA9 236,204,58

ims-mky LDLo:640 μ g/kg AJMSA9 236,204,58

ivn-cat LDLo:80 μ g/kg TOXIA6 1,99,63

ivn-rbt LDLo:125 μ g/kg SCIEAS 117,47,53

ims-rbt LDLo:940 μ g/kg AJMSA9 236,204,58

ims-pgn LDLo:1400 μ g/kg AJMSA9 236,204,58

ims-ckn LDLo:1400 μ g/kg AJMSA9 236,204,58

ipr-frg LDLo:190 mg/kg ANREAK 139,305,61

SAFETY PROFILE: A deadly poison by subcutaneous, intramuscular, intravenous, and intraperitoneal routes.

EAB500 **HR: 1**
EAU de BROUTS ABSOLUTE

PROP: Extracted from mixture of orange-flower water and petigrain-bigarde water (FCTXAV 14,659,76).

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,659,76

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

EAB550 **CAS: 84593-14-6** **HR: 1**
EBECRYL 605A

TOXICITY DATA with REFERENCE:

skn-rbt 500 μ L/24H MLD NTIS** OTS0572434

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

EAB560 **CAS: 86408-72-2** **HR: 2**
ECABET SODIUM

mf: $C_{20}H_{27}O_5S \cdot Na$ mw: 402.52

SYNS: 1-PHENANTHRENECARBOXYLIC ACID, 1,2,3,4,4A-, 9,10,10A-OCTAHYDRO-1,4A-DIMETHYL-7-(1-METHYLETHYL)-6-SULFO-, (1R-(1- α ,4A- β ,10A- α))-, MONOSODIUM SALT \square SULFODEHYDROABIETIC ACID MONOSODIUM SALT \square 12-SULFODEHYDROABIETIC ACID MONOSODIUM SALT \square TA-2711

TOXICITY DATA with REFERENCE:

orl-rat LD50:>2 g/kg USXXAM #4529602

scu-rat LD50:>2 g/kg YAKUD5 36,667,1994

orl-dog LD50:>2 g/kg YAKUD5 36,667,1994

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of SO_x .

EAB600 **CAS: 3604-87-3** **HR: 2**
 α -ECDYSONE

mf: $C_{27}H_{44}O_6$ mw: 464.71

SYNS: CHOLEST-7-EN-6-ONE, 2,3,14,22,25-PENTAHYDROXY-, (2- β ,3- β ,5- β ,22R)-(9CI) \square ECDYSONE \square 5- β -CHOLEST-7-EN-6-ONE, 2- β ,3- β ,14,22,25-PENTAHYDROXY-, (20S,22R)-

TOXICITY DATA with REFERENCE:

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

cyt-par-uns 200 ppm EXPEAM 30,279,74

orl-tod TDLo: 50 mg/kg/17W-I:ETA NUCADQ 9,103,87

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

EAC500 **CAS: 520-68-3** **HR: 3**
ECHIMIDINE

mf: $C_{20}H_{31}NO_7$ mw: 397.52

PROP: Glass or gum.

TOXICITY DATA with REFERENCE:

sln-dmg-par 20 μ mol/L ZEVBAS 91,74,60

ipr-rat LDLo:200 mg/kg CBINA8 12,299,76

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

**EAD500 CAS: 512-64-1 HR: 3
ECHINOMYCIN**

mf: C₅₁H₆₄N₁₂O₁₂S₂ mw: 1101.39

PROP: Crystals. Mp: 221–223°.

SYNS: ECHINOMYCIN A □ LEVOMYCIN □ NSC-526417 □ QUINOMYCIN A □ S-426-S (LEPETIT)

TOXICITY DATA with REFERENCE:

pic-esc 600 ng/plate CNREA8 43,2819,83
dnd-mam:lym 400 nmol/L NATUAS 252,653,74
dni-mam:lym 27 μmol/L HXPHAU 38(Pt 2),623,75
ipr-mus LD50:280 μg/kg JANTAJ 31,465,68
scu-mus LD50:3800 μg/kg 85ERAY 1,311,78
ivn-mus LD50:629 μg/kg NTIS** PB83-114298
ivn-dog LDLo:89 μg/kg NTIS** PB82-114298

SAFETY PROFILE: A deadly poison by intraperitoneal, intravenous, and subcutaneous routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

**EAD600 HR: 3
ECHIS CARINATUS VENOM**

SYNS: E. CARINATUS VENOM □ VENOM, SNAKE, ECHIS CARINATUS

TOXICITY DATA with REFERENCE:

scu-rat LD50:5130 μg/kg AIPTAK 137,299,62
ipr-mus LD50:196 μg/kg TOXIA6 18,384,80
ivn-mus LD50:120 μg/kg TOXIA6 22,373,84
ivn-dog LDLo:100 μg/kg TOXIA6 6,51,68
ivn-rbt LDLo:100 μg/kg TOXIA6 2,5,64
ivn-mam LD50:2300 μg/kg CLPTAT 8,849,67

SAFETY PROFILE: A deadly poison by subcutaneous, intravenous, and intraperitoneal routes.

**EAD650 HR: 3
ECHIS COLORATA VENOM**

SYNS: ECHIS COLORATUS VENOM □ VENOM, SNAKE, ECHIS COLORATUS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1550 μg/kg AJTHAB 9,391,60
scu-mus LD50:5167 μg/kg AJTHAB 9,391,60
ivn-mus LD50:425 μg/kg TOXIA6 14,146,76

SAFETY PROFILE: A deadly poison by subcutaneous, intravenous, and intraperitoneal routes.

**EAE000 CAS: 28558-28-3 HR: 3
ECONAZOLE NITRATE**

mf: C₁₈H₁₅Cl₃N₂O•HNO₃ mw: 444.72

PROP: Cream For fungal infection.

SYNS: 1-2-((4-CHLOROPHENYL)METHOXY)-2-(2,4-DICHLOROPHENYL)ETHYL-1H-IMIDAZOLE NITRATE □ 1-(2,4-DICHLORO-β-((p-CHLOROBENZYL)OXY)-PHENETHYL)-IMIDAZOLE NITRATE □ ECOSTATIN □ EPI-PEVARYL □ GYNO-PEVARYL □ IFENEC □ PALAVALLE □ PEVARYL □ R 14,827 □ SPECTAZOLE

TOXICITY DATA with REFERENCE:

eye-rbt 1% MLD IYKEDH 10,16,79
scu-mus TDLo:160 mg/kg (female 7-14D post):TER IYKEDH 9,955,78

orl-rat LD50:668 mg/kg ARZNAD 25,224,75
ipr-rat LD50:240 mg/kg IYKEDH 9,643,78
scu-rat LD50:1360 mg/kg IYKEDH 9,643,78
ivn-rat LD50:50 mg/kg IYKEDH 9,643,78
orl-mus LD50:463 mg/kg ARZNAD 25,224,75
ipr-mus LD50:180 mg/kg IYKEDH 9,643,78
scu-mus LD50:750 mg/kg IYKEDH 9,643,78
ivn-mus LD50:38 mg/kg IYKEDH 9,643,78
orl-rbt LD50:431 mg/kg YAKUD5 23,1253,81
scu-rbt LD50:650 mg/kg IYKEDH 9,643,78
ivn-rbt LD50:85 mg/kg IYKEDH 9,643,78
orl-gpg LD50:272 mg/kg ARZNAD 25,224,75

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by subcutaneous route. Experimental teratogenic and reproductive effects. An eye irritant. An antimycotic drug. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also NITRATES.

**EAE050 CAS: 114899-77-3 HR: 3
ECTEINASCIDIN 743**

mf: C₃₉H₄₃N₃O₁₁S mw: 761.91

SYNS: ECT 743 □ ECTEINASCIDINE 743 □ ET 743 □ NSC 648766 □ SPIRO(6,16)-(EPITHIOPROPANOXYMETHANO)-7,13-IMINO-12H-1,3-DIOXOLO(7,8)ISOQUINO(3,2-B)(3) BENZAZO-CINE-20,1'(2'H)-ISOQUINOLIN)-19-ONE, 3',4',6,6A,7,13,14,16-OCTAHYDRO-5-(ACETYOXY)-6',8,14-TRIHYDROXY-7',9-DIMETHOXY-4,10,23-TRIMETHYL-, (6R-(6-α,6A-β,7-β,13-β,14-β,16-α,20R*))-

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:75 μg/kg TOXID9 42,51,1998

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

**EAE100 CAS: 25952-53-8 HR: 3
EDC (REAGENT)**

mf: C₈H₁₇N₃•ClH mw: 191.74

PROP: An antibiotic.

SYNS: 1-(3-DIMETHYLAMINOPROPYL)-3-ETHYLCARBODIIMIDE HYDROCHLORIDE □ CARBODIIMIDE, (3-DIMETHYLAMINOPROPYL)ETHYL-, MONOHYDROCHLORIDE □ EDAP □ 1,3-PROPANEDIAMINE, N'-(ETHYLCARBONIMIDOYL)-N,N-DIMETHYL-, MONOHYDROCHLORIDE □ WSC

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#03375

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, HCl, and Cl⁻.

**EAE400 CAS: 11006-90-9 HR: D
EDEINE**

TOXICITY DATA with REFERENCE:

mno-esc 400 μg/L AMIGB9 3,29,71
mrc-nsc 150 mg/L MGGEAE 136,309,75
mmo-eug 4 mg/L NEOLA4 19,579,72

SAFETY PROFILE: Mutation data reported.

**EAE500 CAS: 5036-03-3 HR: 2
EDROFURADENE**

mf: $C_{10}H_{12}N_4O_5$ mw: 268.26**PROP:** A solid. Mp: 199.5–201.5°.**SYNS:** 1-(2-HYDROXYETHYL)-3-((5-NITROFURFURYLIDENE)-AMINO)-2-IMIDAZOLIDINONE □ NF 1010 □ NIFURDAZIL**TOXICITY DATA with REFERENCE:**

mma-sat 100 ng/plate MUREAV 48,295,77

orl-rat TDLo:27 g/kg/46W-C:CAR JNCIAM 51,403,73

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .**EAE600 CAS: 116-38-1 HR: 3
EDROPHONIUM CHLORIDE**mf: $C_{10}H_{16}NO \cdot Cl$ mw: 201.72**PROP:** A solid. Mp: 162–163°.**SYNS:** ANTIREX □ DIMETHYLETHYL(m-HYDROXYPHENYL)-AMMONIUM CHLORIDE □ N-ETHYL-3-HYDROXY-N,N-DIMETHYLBENZENAMINIUM CHLORIDE (9CI) □ ETHYL(m-HYDROXYPHENYL)DIMETHYLAMMONIUM CHLORIDE □ TENSILON □ TENSILON CHLORIDE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:30 mg/kg PCJOAU 10,327,76

scu-mus LD50:52 mg/kg JPETAB 123,121,58

ivn-mus LD50:15 mg/kg NIIRDN 6,133,82

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of Cl^- , NH_3 , and NO_x . See also CHLORIDES.**EAE675 CAS: 55294-15-0 HR: 3
EDRUL**mf: $C_{11}H_{11}Cl_2N_3O$ mw: 272.15**PROP:** Crystals from methanol. Mp: 127–129°.**SYNS:** 3-AMINO-1-(3,4-DICHLORO- α -METHYLBENZYL)-2-PYRAZOLIN-5-ONE □ 5-AMINO-2-(1-(3,4-DICHLOROPHENYL)-ETHYL)-2,4-DIHYDRO-3H-PYRAZOL-3-ONE □ BAY G 2821 □ 2,4-DIHYDRO-5-AMINO-2-(1-(3,4-DICHLOROPHENYL)ETHYL)-3H-PYRAZOL-3-ONE □ LUTROL □ MUZOLIMINE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1559 mg/kg CMROCX 4,716,77

ivn-rat LD50:221 mg/kg CLNHBI 19(Suppl 1),20,83

orl-mus LD50:1794 mg/kg CMROCX 4,716,77

ivn-mus LD50:310 mg/kg CLNHBI 19(Suppl 1),20,83

orl-dog LD50:2000 mg/kg CMROCX 4,716,77

orl-rbt LD50:1250 mg/kg CMROCX 4,716,77

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl^- and NO_x .**EAE700 CAS: 124149-19-5 HR: 1
EFK 1 (flotation agent)****SYN:** EFK 1**TOXICITY DATA with REFERENCE:**

orl-rat LD50:7469 mg/kg GISAAA 56(12),29,91

orl-mus LD50:8718 mg/kg GISAAA 56(12),29,91

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**EAE775 CAS: 68278-23-9 HR: 1
EFLORNITHINE HYDROCHLORIDE**mf: $C_6H_{12}F_2N_2O_2 \cdot ClH$ mw: 218.66**PROP:** Crystals from EtOH (aq). Mp: 183°.**SYNS:** α -DIFLUOROMETHYLORNITHINE HYDROCHLORIDE □ 2-(DIFLUOROMETHYL)-dl-ORNITHINE HYDROCHLORIDE □ dl-ORNITHINE, 2-(DIFLUOROMETHYL)-, MONOHYDRO-CHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg DRFUD4 6,142,81

ipr-rat LD50:>3 g/kg DRFUD4 6,142,81

SAFETY PROFILE: Low toxicity by ingestion and intraperitoneal routes. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and F^- .**EAE875 CAS: 1765-48-6 HR: 3
EICOSAFLUORUNDECANOIC ACID**mf: $C_{11}H_2F_{20}O_2$ mw: 546.13**PROP:** Crystals from toluene. Mp: 100–101°.**SYNS:** 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-EICOSAFLUORO-UNDECANOIC ACID □ 11-H-EICOSAFLUORUNDEKANSAEURE (GERMAN) □ ω -H-EICOSAFLUORUNDEKANSAEURE (GERMAN)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:518 mg/kg ZHYGAM 26,9,80

ipr-mus LD50:181 mg/kg ZHYGAM 26,9,80

orl-rbt LD50:470 mg/kg ZHYGAM 26,9,80

orl-gpg LD50:470 mg/kg ZHYGAM 26,9,80

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of F^- .**EAF000 CAS: 506-30-9 HR: 2
EICOSANOIC ACID**mf: $C_{20}H_{40}O_2$ mw: 312.60**PROP:** White leaflets or crystals from alc. Mp: 77°, bp: 203–205° @ 1 mm°. Slt decomp in water; very sol in hot absolute alc and ether.**SYNS:** ARACHIC ACID □ ARACHIDIC ACID**TOXICITY DATA with REFERENCE:**

imp-mus TDLo:1000 mg/kg;NEO CNREA8 26,105,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Questionable carcinogen with experimental neoplastigenic data by implant route. When heated to decomposition it emits acrid smoke and fumes.**EAF050 CAS: 7771-44-0 HR: 3
5,8,11,14-EICOSATETRAENOIC ACID**mf: $C_{20}H_{32}O_2$ mw: 304.52**TOXICITY DATA with REFERENCE:**dni-hmn-lym 20 μ mol/L CNREA8 49,1138,1989

ipr-mus LD50:75 mg/kg NTIS** AD691-490

SAFETY PROFILE: A poison by Intraperitoneal Route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**EAF100 CAS: 21708-94-1 HR: D
EIPW 111 CITRATE**

mf: $C_{26}H_{28}N_2O_3 \cdot C_6H_8O_7$ mw: 608.70

SYNS: 1-(p-(β-DIETHYLAMINOETHOXY)PHENYL)-2-NITRO-1,2-DIPHENYLETHYLENE CITRATE □ N,N-DIETHYL-2-(4-(2-NITRO-1,2-DIPHENYLETHENYL)PHENOXY)ETHANAMINE CITRATE □ 2-(p-(2-NITRO-1,2-DIPHENYLVINYL)PHENOXY)-TRIETHYLAMINE CITRATE

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

EAF500 CAS: 112-79-8 HR: 3
ELAIDIC ACID

mf: $C_{18}H_{34}O_2$ mw: 282.52

PROP: (A) Leaflets from ethyl alcohol. Mp: 48–49°, bp: 235° @ 12 mm. (B) Needles from ethyl alcohol. Mp: 72°, bp: slt decomp CS_2 . Sol in hot acetic acid.

SYNS: trans-Δ⁹-OCTADECENOIC ACID □ trans-OCTADEC-9-ENOIC ACID □ trans-9-OCTADECENOIC ACID

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:512 mg/kg CBCCT* 2,188,50

ivn-mus LD50:100 mg/kg CSLNX* NX#00371

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

EAG000 CAS: 23315-05-1 HR: 3
ELAIOMYCIN

mf: $C_{13}H_{26}N_2O_3$ mw: 258.41

PROP: Neutral yellow oil. Metabolite of *Streptomyces hepaticus* (NATUAS 221,765,69).

SYN: d-threo-METHOXY-3-(1-OCTENYL-O,N,N-AZOXY)-2-BUTANOL

TOXICITY DATA with REFERENCE:

scu-mus LD50:63 mg/kg ANTCAO 4,338,54

ivn-mus LD50:44 mg/kg ANTCAO 4,338,54

SAFETY PROFILE: Poison by intravenous and subcutaneous routes. Questionable carcinogen with experimental tumorigenic data. Causes tumors of the brain. When heated to decomposition it emits toxic fumes of NO_x .

EAG100 CAS: 2169-75-7 HR: 3
ELARGIN

mf: $C_{23}H_{27}NO \cdot C_6H_8O_7$ mw: 525.65

SYNS: 1-α-H,5-α-H-TROPANE, 3-α-((10,11-DIHYDRO-5H-DIBENZO(AD)CYCLOHEPTEN-5-YL)OXY)-, CITRATE (1:1) □ BRONTIN □ BRONTINA □ BRONTINE □ BRONTISOL □ BS 6987 □ DEPTRIN □ DEPTROPINE CITRATE □ DIBENZ-HEPTROPINE □ DIBENZHEPTROPINE CITRATE □ 3-α-((10,11-DIHYDRO-5H-DIBENZO(A,D)CYCLOHEPTEN-5-YLOXY)-TROPANE CITRATE □ 3-α-((10,11-DIHYDRO-5H-DIBENZO(A,D)CYCLOHEPTEN-5-YL)OXY)TROPAN DIHYDROGEN CITRATE □ ELAMOL □ ELARGYL □ SU-BRONTINE □ TROPANE, 3-α-((10,11-DIHYDRO-5H-DIBENZO(A,D)CYCLOHEPTEN-5-YL)OXY)-, CITRATE (1:1)

TOXICITY DATA with REFERENCE:

orl-rat LD50:445 mg/kg AIPTAK 148,135,1964

orl-mus LD50:300 mg/kg ARZNAD 23,854,1973

ipr-mus LD50:66 mg/kg ARZNAD 23,854,1973

ivn-mus LD50:32 mg/kg APPNAH 11,104,1962

orl-dog LD50:75 mg/kg AIPTAK 148,135,1964

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

EAG500 CAS: 50814-62-5 HR: 2
ELASIOMYCIN

TOXICITY DATA with REFERENCE:

ivn-rat TDLo:50 mg/kg (18D preg):ETA,TER IARCCD 4,100,73

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

EAG875 CAS: 9004-06-2 HR: 3
ELASTASE

PROP: White, lyophilized powder with a sltly yellowish shade.

SYNS: E.C. 3.4.4.7 □ E.C. 3.4.2.1.11 □ ELASZYM □ PANC-REATOPEPTIDASE E

TOXICITY DATA with REFERENCE:

ipr-rat LD50:78 mg/kg IYKEDH 7,108,76

ivn-rat LD50:85 mg/kg IYKEDH 7,108,76

ipr-mus LD50:37 mg/kg IYKEDH 7,108,76

ivn-mus LD50:57 mg/kg IYKEDH 7,108,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EAH100 CAS: 3877-86-9 HR: 3
ELATERICIN A

mf: $C_{30}H_{44}O_7$ mw: 516.74

PROP: Crystals from alc. Mp: 151–152°.

SYN: CUCURBITACINE (D)

TOXICITY DATA with REFERENCE:

orl-rat LD50:8200 µg/kg AIPTAK 130,315,61

ipr-rat LD50:1300 µg/kg AIPTAK 130,315,61

scu-rat LD50:3400 µg/kg AIPTAK 130,315,61

orl-mus LD50:5 mg/kg CHTPBA 4,459,69

ipr-mus LD50:1750 µg/kg AIPTAK 130,315,61

scu-mus LD50:4600 µg/kg AIPTAK 130,315,61

ivn-mus LD50:960 µg/kg AIPTAK 130,315,61

ivn-dog LD50:1000 µg/kg AIPTAK 130,315,61

ivn-cat LD50:900 µg/kg AIPTAK 130,315,61

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

EAH500 CAS: 50-48-6 HR: 3
ELAVIL

mf: $C_{20}H_{23}N$ mw: 277.44

SYNS: AMITRIPTILINE □ AMITRIPTYLIN (GERMAN) □ AMITRIPTYLINE □ DAMILAN □ 3,10-DIHYDRO-5H-DIBENZO(a,d)CYCLOHEPTEN-5-YLIDENE-N,N-DIMETHYL-1-PROPANAMINE □ 10,11-DIHYDRO-5-(γ-DIMETHYLAMINOPROPYLIDENE)-5H-DIBENZO(a,d)CYCLOHEPTENE □ 10,11-DIHYDRO-N,N-DIMETHYL-5H-DIBENZO(a,d)HEPTALENE-Δ⁵-γ-PROPYLAMINE □ 5-(3'-DIMETHYLAMINOPROPYLIDENE)-DIBENZO-(a,d)(1,4)-CYCLOHEPTADIENE □ 5-(γ-DIMETHYLAMINOPROPYLIDENE)-5H-DIBENZO(a,d)-10,11-DIHYDROCY-

CLOHEPTENE □ 5-(γ-DIMETHYLAMINOPROPYLIDENE)-10,11-DIHYDRO-5H-DIBENZO(A,D)CYCLOHEPTENE □ 5-(3-DIMETHYLAMINOPROPYLIDENE)-10,11-DIHYDRO-5H-DIBENZO(A,D)CYCLOHEPTENE □ 5-(3-DIMETHYLPROPYLIDENE)DIBENZO(A,D)(1,4)CYCLOHEPTADIENE □ ELANIL □ LAROXIL □ LARXYL □ PROHEPTADIENE □ TRYPTIZOL

TOXICITY DATA with REFERENCE:

orl-chd TDLo:4500 µg/kg:CNS BMJOAE 3,663,67
orl-wmn TDLo:16,800 µg/kg/2W-I:PNS,CNS LANCAO 1,426,68
orl-hmn TDLo:14 mg/kg:CVS PSDTAP 6,171,65
orl-inf TDLo:50 mg/kg:CNS,CVS AJDCAI 130,507,76
orl-wmn TDLo:13,500 µg/kg/3D-C:CNS LANCAO 1,390,68
ims-wmn TDLo:240 µg/kg/36H-C:CNS LANCAO 1,390,68
unr-man TDLo:45 mg/kg/21D:CVS,CNS LANCAO 2,1202,72
orl-rat LD50:320 mg/kg ARZNAD 15,863,65
ipr-rat LD50:72 mg/kg PJPPAA 27,503,75
orl-mus LD50:140 mg/kg THERAP 26,459,71
ipr-mus LD50:56 mg/kg ARZNAD 15,863,65
scu-mus LD50:140 mg/kg ARZNAD 19,458,69
ivn-mus LD50:16 mg/kg JMCMA 17,65,74
scu-dog LDLo:50 mg/kg PHMCAA 11,283,69
ivn-rbt LD50:8600 µg/kg ARZNAD 15,863,65

SAFETY PROFILE: Human poison by an unspecified route. Poison experimentally by ingestion, intraperitoneal, subcutaneous, intramuscular, and intravenous routes. Human systemic effects by ingestion and intramuscular routes: changes in sleep, headache, paresthesia, convulsions, excitement, somnolence, muscle contractions, change in heart rate, and other cardiac changes. An experimental teratogen. Other experimental reproductive effects. An antidepressant. When heated to decomposition it emits toxic fumes of NO_x.

EAI000 CAS: 549-18-8 HR: 3
ELAVIL HYDROCHLORIDE

mf: C₂₀H₂₃N•ClH mw: 313.90

PROP: Minute crystals. Mp: 196–197°. Very sol in H₂O.

SYNS: AMITID □ AMITRIL □ AMITRIPTYLINE CHLORIDE □ AMITRIPTYLINE HYDROCHLORIDE □ DAMILEN HYDROCHLORIDE □ DEPREX □ 10,11-DIHYDRO-N,N-DIMETHYL-5H-DIBENZO(A,D)-CYCLOHEPTENE-Δ^{5,7}-PROPYL-AMINE HCL □ 3-(3-DIMETHYLAMINOPROPYLIDENE)-1:2:4:5-DIBENZOCYCLOHEPTA-1:4-DIENE □ 5-(3-DIMETHYL-AMINOPROPYLIDENE)-DIBENZO(A,D)(1,4)CYCLOHEPTADIENE HYDROCHLORIDE □ DOMICAL □ ELAVIL □ ENDEP □ LENTIZOL □ MIKETORIN □ PROHEPTADIEN MONOHYDROCHLORIDE □ SAROTEN □ SAROTENE □ SK-AMITRIPTYLINE □ TRYPTIZOL □ TRYPTIZOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

sln-dmg-orl 2 mg/2D SOGEBZ 11,718,75
orl-wmn TDLo:10 mg/kg CMAJAX 129,1203,83
orl-chd LDLo:62,500 µg/kg:CNS,CVS,PUL NEJMAG 267,1031,62
orl-chd TDLo:4167 µg/kg:CNS NEJMAG 267,1031,62
orl-hmn TDLo:200 mg/kg:CNS JAMAAP 230,1405,74
orl-chd LDLo:62,500 µg/kg:CNS,PUL AJDCAI 106,501,63
orl-wmn LDLo:19 mg/kg:CNS,PUL LANCAO 2,543,63
orl-man TDLo:14,286 µg/kg:CNS,PUL LANCAO 2,543,63

orl-rat LD50:240 mg/kg OYYAA2 6,889,72
ipr-rat LD50:72 mg/kg 27ZQAG -,61,72
scu-rat LD50:1290 mg/kg 27ZQAG -,61,72
ivn-rat LD50:14 mg/kg 27ZQAG -,61,72
orl-mus LD50:140 mg/kg WMWOA4 111,256,61
ipr-mus LD50:65 mg/kg JDGRAX 16,7,85
scu-mus LD50:80 mg/kg OYYAA2 6,889,72
ivn-mus LD50:21 mg/kg ARZNAD 21,808,71
ivn-mky LDLo:20,300 µg/kg IJEBAA 22,539,84
ivn-rbt LD50:9900 µg/kg 27ZQAG -,61,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. Human systemic effects by ingestion: convulsions, respiratory depression, changes in sleep, hallucinations, muscle contractions, somnolence, blood pressure decrease, coma, cyanosis, dyspnea, and ataxia. An experimental teratogen. Other experimental reproductive effects. Mutation data reported. Used in the treatment of depression. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also ELAVIL.

EAI050 CAS: 6836-11-9 HR: 3
ELDELINE

mf: C₂₇H₄₁NO₈ mw: 507.69

PROP: Mp: 185–187°. Sol in chloroform, methanol, less sol in acetone, ethanol

SYNS: ACONITANE-6,10-DIOL, 20-ETHYL-4-METHYL-7,8-(METHYLENEBIS(OXY))-, 1,14,16-TRIMETHOXY-, 6-ACETATE, (1-α-6-β,14-α-16-β)- □ DELPHELATINE □ DELTALINE □ DELTAMINE 6-ACETATE □ ELDELIN

TOXICITY DATA with REFERENCE:

scu-mus LD50:720 mg/kg JAFCAU 41,96,93
ivn-mus LD50:132 mg/kg JAFCAU 41,96,93

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

EAI100 HR: 2
ELDERBERRY

PROP: A shrub which may grow to 12 feet. The compound leaves have about 7 serrated, oval leaflets. It bears clusters of small, white flowers and purple-black berries. Both flowers and berries may be on the plant simultaneously. Various species are found in every state in the United States, most of Canada, and the Greater Antilles.

SYNS: AMERICAN ELDER □ FLEUR SUREAU (CANADA, HAITI) □ SAMBUCUS CAERULEA □ SAMBUCUS CANADENSIS □ SAMBUCUS MELANOCARPA □ SAMBUCUS MEXICANA □ SAMBUCUS RACEMOSA □ SAUCO (MEXICO, PUERTO RICO) □ SAUCO BLANCO (CUBA) □ SUREAU (CANADA, HAITI)

SAFETY PROFILE: The whole plant contains poisonous cyanogenetic glycosides. Ingestion of small amounts of the raw or cooked fruit is harmless. Ingestion of the leaves, roots, bark or unripe berries may cause prolonged, severe diarrhea. Juice from the pressed berries may cause nausea, vomiting, abdominal cramps, dizziness, numbness and stupor. See also CYANIDE.

EAI200 CAS: 476-66-4 HR: D**ELEAGIC ACID**mf: $C_{14}H_6O_8$ mw: 302.20

SYNS: ALIZARINE YELLOW □ BENZOARIC ACID □ C.I. 55005 □ C.I. 75270 □ ELAGOSTASINE □ (1)BENZOPYRANO(5,4,3-CDE)(1)BENZOPYRAN-5,10-DIONE,2,3,7,8-TETRAHYDROXY- □ ELLAGIC ACID □ GALLOGEN (ASTRINGENT) □ LAGISTASE □ 2,3,7,8-TETRAHYDROXY(1)BENZOPYRANO(5,4,3-CDE)(1)BENZOPYRAN-5,10-DIONE

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

EAI500 CAS: 8023-89-0 HR: 2**ELEMI OIL**

PROP: Distilled from the crude resin of *Canarium commune* or *Canarium luzonicum* (FCTXAV 14,659,76).

SYN: ELEMI**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H FCTXAV 14,755,76
 orl-rat LD50:3370 mg/kg FCTXAV 14,755,76
 skn-rbt LD50:5 g/kg FCTXAV 14,755,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EAI600 HR: 1**ELEPHANT'S EAR**

PROP: Popular ornamental houseplant which has large, heart-shaped leaves and edible roots. They are grown indoors and outdoors in southern Florida, southern California, Hawaii, Guam, and the West Indies. One species, *A. macrorrhiza*, is grown for food.

SYNS: AHE POI (HAWAII) □ ALOCASIA (VARIOUS SPECIES) □ 'APE (HAWAII) □ CABEZA de BURRO □ CARAIBE (HAITI) □ CHINE APE □ COLOCASIA ESCULENTA □ COLOCASIA GIGANTEA □ DASHEEN □ EDDO □ KALO □ MALANGA CARA de CHIVO (CUBA) □ MALANGA de JARDIN (CUBA) □ MALANGA DEUX PALLS (HAITI) □ MALANGA ISLENA (CUBA) □ PAPAO-APAKA (GUAM) □ PAPAO-ATOLONG (GUAM) □ TARO □ TAYO BAMBOU (HAITI) □ YAUTIA MALANGA (PUERTO RICO)

SAFETY PROFILE: The leaves and stems contain calcium oxalate raphides. Chewing of these plant parts results in immediate burning pain in the lips, mouth and throat followed by inflammation and blistering. Systemic effects are usually not seen because the immediate pain prevents ingestion and the low solubility of calcium oxalate reduces its absorption. See also OXALATES and OXALIC ACID.

EAI800 CAS: 79818-59-0 HR: 1**ELEX 334****TOXICITY DATA with REFERENCE:**

orl-rat LD50:9150 mg/kg OYYAA2 11,901,76
 orl-mus LD50:8910 mg/kg OYYAA2 11,901,76

SAFETY PROFILE: Mildly toxic by ingestion. Experimental reproductive effects.

EAI850 CAS: 519-23-3 HR: 3**ELLIPTISINE**mf: $C_{17}H_{14}N_2$ mw: 246.33

PROP: Bright yellow needles, orange rods or rosettes, from ethyl acetate. Mp: 311–315° (decomp).

SYNS: 5,11-DIMETHYL-6H-PYRIDO(4,3-b)CARBAZOLE □ ELLIPTICINE □ ICIG 770 □ NSC-71795

TOXICITY DATA with REFERENCE:

mno-sat 1 µg/plate BICMBE 60,1011,78
 pic-esc 500 ng/plate CNREA8 43,2819,83
 sce-ham:ovr 100 µg/L CNREA8 43,577,83
 orl-mus LD50:178 mg/kg MEIEDD 10,512,83
 ipr-mus LD50:150 mg/kg BIMDB3 21,101,74
 ivn-mus LD50:19,500 µg/kg MEIEDD 10,512,83

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

EAI875 CAS: 3818-88-0 HR: 3**ELORINE CHLORIDE**mf: $C_{20}H_{32}NO \cdot Cl$ mw: 337.98

PROP: Crystals from nitroethane. Mp: 159–164°.

SYNS: COMPOUND 14045 METHOCHLORIDE □ (±)-N-((3-CYCLOHEXYL-3-HYDROXY-3-PHENYL)PROPYL)-N-METHYLPYRROLIDINIUM CHLORIDE □ 1-(3-CYCLOHEXYL-3-HYDROXY-3-PHENYLPROPYL)-1-METHYL-PYRROLIDINIUM CHLORIDE □ 1-CYCLOHEXYL-1-PHENYL-3-PYRROLIDINO-1-PROPANOL METHYL CHLORIDE □ LERGINE CHLORIDE □ TRICOLOID CHLORIDE □ TRICYCLAMOL CHLORIDE □ TRICYCLAMOL METHOCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:984 mg/kg 29ZVAB ,119,69
 orl-mus LD50:395 mg/kg JAPMA8 43,408,54
 ivn-mus LD50:11,700 µg/kg JAPMA8 43,408,54

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

EAJ000 CAS: 548-43-6 HR: 3**ELYMOCLAVINE**mf: $C_{16}H_{18}N_2O$ mw: 254.36

PROP: A solid. Mp: 250–252° (decomp). A close chemical relative of LSD found in ergot fungi and bindweeds of the genus *Ipomoea*, Fam. *convolvulaceae* (JANSAG 41,1700,75).

SYNS: ELIMOCLAVIN □ ELYMOCLAVIN**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:67 mg/kg JANSAG 41,1700,75
 ivn-mus LD50:45 mg/kg NYKZAU 58,386,62

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits acrid smoke and fumes. See also N,N-DIETHYLLYSERGAMIDE (LSD).

EAJ100 CAS: 79458-80-3 HR: 2**EM 255**mf: $C_{13}H_{14}N_2O_2$ mw: 230.29

SYN: 3-(1,3-DIHYDRO-1-OXO-2H-ISOINDOL-2-YL)-2-OXOPIPERIDINE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1200 mg/kg ARZNAD 31,941,81

ipr-mus LD50:494 mg/kg ARZNAD 31,941,81

SAFETY PROFILE: Moderately toxic by ingestion and other routes. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.

**EAJ150 CAS: 155569-91-8 HR: D
EMAMECTIN BENZOATE**

PROP: White powder.

SYNS: AVERMECTIN B', 4"-DEOXY-4"-(METHYLAMINO)-, (4"R)-, BENZOATE (SALT) □ MK 244 □ MK 0244

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

**EAJ500 CAS: 19526-81-9 HR: 2
EMAZOL RED B**

mf: C₁₈H₁₆N₂O₁₀S₃•2Na mw: 562.52

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x, Na₂O, and SO_x.

**EAJ600 CAS: 550-24-3 HR: 3
EMBELIC ACID**

mf: C₁₇H₂₆O₄ mw: 294.43

PROP: Glistening orange plates from alc, benzene, or acetic acid; orange crystals from MeOH or hexane/EtOH. Mp: 145–146°. Sol in the usual hot org solvs or in alkali hydroxide solns; very sltly sol in pet ether; practically insol in water.

SYNS: 2,5-DIHYDROXY-3-UNDECYL-1,4-BENZOQUINONE □ 2,5-DIHYDROXY-3-UNDECYL-2,5-CYCLOHEXADIENE-1,4-DIONE (9CI) □ EMBELIN □ EMBERLINE

TOXICITY DATA with REFERENCE:

ipr-uns LD50:44 mg/kg IJPPAZ 21,31,77

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

**EAK000 CAS: 10429-82-0 HR: 3
EMBITOL**

mf: C₁₁H₁₅Cl₂N•ClH mw: 268.63

SYNS: BENZYL-BIS(2-CHLOROETHYL)AMINE HYDROCHLORIDE □ N,N-BIS(2-CHLOROETHYL)BENZENE-METHANAMINE HYDROCHLORIDE □ N,N-BIS(2-CHLOROETHYL)BENZYLAMINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

mmo-asn 2500 μmol/L SOGEBZ 6,220,70

ipr-mus LD50:28 mg/kg CANCAR 2,1055,49

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

**EAK100 CAS: 3597-21-5 HR: D
p-EMBITOL**

mf: C₁₂H₁₇Cl₂N•ClH mw: 282.66

SYNS: BENZENEMETHANAMINE, N,N-BIS(2-CHLOROETHYL)-4-METHYL-, HYDROCHLORIDE □ BENZYLAMINE, N,N-BIS(2-CHLOROETHYL)-p-METHYL-, HYDROCHLORIDE □

p-METHYL-DI-(2-CHLOROETHYL)-BENZYLAMINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

mic-mld-asn 2500 μmol/L SOGEBZ 6,220,1970

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

**EAK500 CAS: 10433-59-7 HR: 3
EMBUTOX**

mf: C₁₀H₉Cl₂O₃•Na mw: 271.08

SYNS: BUTOXONE SB □ BUTYRAC □ 2,4-DB SODIUM SALT □ γ-(2,4-DICHLOROPHENOXY)BUTYRIC ACID, SODIUM SALT □ 2,4-DICHLOROPHENOXYBUTYRIC ACID, SODIUM SALT □ MB 2878

TOXICITY DATA with REFERENCE:

orl-rat LD50:700 mg/kg GUCHAZ 6,153,73

orl-mus LD50:400 mg/kg PCOC**-,367,66

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion. An herbicide. When heated to decomposition it emits toxic fumes of Cl⁻ and Na₂O.

**EAL000 CAS: 8034-17-1 HR: 3
EMCOL 888**

PROP: Polyalkyl naphthalene pyridinium chloride, average molecular weight 382 (JAPMA8 38,428,49).

TOXICITY DATA with REFERENCE:

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

orl-mus LD50:470 mg/kg JAPMA8 38,428,49

ivn-mus LD50:8 mg/kg JAPMA8 38,428,49

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

**EAL050 CAS: 87233-62-3 HR: 3
EMEDASTINE DIFUMARATE**

mf: C₁₇H₂₆N₄O•2C₄H₄O₄ mw: 534.63

SYNS: KB-2413 □ KG-2413 □ LY 188695 □ BENZIMIDAZOLE, 1-(2-ETHOXYETHYL)-2-(4-METHYLHEXAHYDRO-1H-1,4-DIAZEPIN-1-YL)-, FUMARATE (1:2) □ 1H-BENZIMIDAZOLE, 1-(2-ETHOXYETHYL)-2-(HEXAHYDRO-4-METHYL-1H-1,4-DIAZEPIN-1-YL)-, (E)-2-BUTENEDIOATE (1:2) □ 1-(2-ETHOXYETHYL)-2-(4-METHYLHEXAHYDRO-1H-1,4-DIAZEPIN-1-YL)BENZIMIDAZOLE FUMARATE (1:2) □ 1-(2-ETHOXYETHYL)-2-(4-METHYL-1-HOMOPIPERAZINYL)-BENZIMIDAZOLE DIFUMARATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1854 mg/kg OYYAA2 39,209,1990

scu-rat LD50:643 mg/kg OYYAA2 39,209,1990

ivn-rat LD50:72 mg/kg OYYAA2 39,209,1990

orl-mus LD50:628 mg/kg USXXAM #4430343

scu-mus LD50:609 mg/kg OYYAA2 39,209,1990

ivn-mus LD50:93 mg/kg OYYAA2 39,209,1990

orl-dog LD50:193 mg/kg OYYAA2 39,209,1990

orl-gpg LD50:744 mg/kg ARZNAD 34,801,1984

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

**EAL100
EMERY****CAS: 1302-74-5****HR: 2**mf: Al_2O_3 mw: 101.96**PROP:** A varicolored mineral with transparent crystals that are very hard and resistant to attack by acids. D: 3.95–4.10, mp: 2050°, bp: 2977°.**SYNS:** ALUMINUM OXIDE □ CORUNDUM □ ELECTRO-CORUNDUM □ EN 237 □ KER 710 □ KO 7 □ KORUND □ KU 5-3 □ MP 1 (refractory)**TOXICITY DATA with REFERENCE:**

ipr-rat TDLo:225 mg/kg/1W-I:CAR ZHPMAT 162,467,76

OSHA PEL: TWA Total Dust: 10 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%)**DFG MAK:** 1.5 mg/m³**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. May cause a pneumoconiosis. It is mainly a nuisance dust.**EAL500
EMETINE****CAS: 483-18-1****HR: 3**mf: $\text{C}_{29}\text{H}_{40}\text{N}_2\text{O}_4$ mw: 480.71**PROP:** White powder, lumps, or amorphous solid; bitter taste, darkens on exposure. Mp: 74° effervescent.**SYNS:** CEPHAELINE METHYL ETHER □ (-)-EMETINE □ NSC-33669 □ 6',7',10,11-TETRAMETHOXYEMETAN**TOXICITY DATA with REFERENCE:**

skn-rbt 5 mg/24H rns TXCYAC 14,117,79

skn-rbt 1%/24H MOD NTIS** PB-274-082

eye-rbt 2000 ppm SEV AJOPAA 31,837,48

dnd-mam:lym 6600 $\mu\text{mol/L}$ FOMIAZ 15,76,70

scu-man TDLo:10 mg/kg/10D:GIT,CNS,CVS

CCROBU 57,423,73

unr-man LDLo:2941 $\mu\text{g/kg}$ 85DCAI 2,73,70

orl-rat LD50:68 mg/kg ARZNAD 13,474,63

ipr-rat LD50:12 mg/kg JPETAB 104,421,52

scu-rat LD50:95 mg/kg ARZNAD 13,474,63

ipr-mus LD50:12 mg/kg JPETAB 104,421,52

scu-mus LD10:25 mg/kg EJCAAH 10,667,74

scu-cat LDLo:8 mg/kg HBAMAK 4,1289,35

ivn-cat LDLo:10 mg/kg HBAMAK 4,1289,35

scu-rbt LDLo:30 mg/kg HBAMAK 4,1289,35

ivn-rbt LDLo:2 mg/kg HBAMAK 4,1289,35

scu-gpg LDLo:70 mg/kg HBAMAK 4,1289,35

ivn-gpg LDLo:7 mg/kg HBAMAK 4,1289,35

CONSENSUS REPORTS: NCI Carcinogenesis Studies (ipr); Inadequate Studies: mouse, rat NCITR* NCI-CG-TR-43,77**SAFETY PROFILE:** A human poison by an unspecified route. An experimental poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. Human systemic effects by subcutaneous route: muscle weakness, cardiac arrhythmias, and gastrointestinal effects. Mutation data reported. A severe eye and moderate skin irritant. It is one of the two potent alkaloids obtained from the Brazilian plant ipecac. The therapeutic use of various ipecac preparations has caused many cases of poisoning, in some instances with fatal results. The toxic effects are particularly prominent if the drug is given intravenously. The symptoms of intoxication are gastrointestinalirritation and salivation, as well as general edema, which follows renal insufficiency, hemoptysis (blood-stained sputum), flaccid paralysis, peripheral neuritis (inflammation of the nerve endings), aphonia (loss of voice), difficulties in swallowing, delirium, coma, and failure of the heart. The fatal dose is considered to be approximately 2 g, whether administered over a short or relatively long period. The drug seems to have a cumulative effect. When heated to decomposition it emits highly toxic fumes of NO_x .**EAM000****HR: 3****EMETINE ANTIMONY IODIDE****PROP:** Percentage composition = 34% emetine and 14% antimony (AJTMAQ 10,249,30).**SYN:** ANTIMONY EMETINE IODIDE**TOXICITY DATA with REFERENCE:**orl-hmn TDLo:471 $\mu\text{g/kg}$:GIT AJTMAQ 10,249,30

orl-cat LDLo:15 mg/kg AJTMAQ 10,249,30

orl-rbt LDLo:10 mg/kg AJTMAQ 10,249,30

CONSENSUS REPORTS: Antimony and its compounds are on the Community Right-To-Know List.**OSHA PEL:** TWA 0.5 mg(Sb)/m³**ACGIH TLV:** TWA 0.5 mg(Sb)/m³**NIOSH REL:** (Antimony) TWA 0.5 mg/m³**SAFETY PROFILE:** Poison by ingestion. Human systemic effects by ingestion: nausea, vomiting, and other gastrointestinal effects. When heated to decomposition it emits very toxic fumes of I , NO_x , and Sb. See also ANTIMONY COMPOUNDS, EMETINE and IODIDES.**EAM500****CAS: 8001-15-8****HR: 3****EMETINE BISMUTH IODIDE**mf: $\text{C}_{29}\text{H}_{40}\text{N}_2\text{O}_4 \cdot \text{BiI}_3$ mw: 1070.39**PROP:** Composition = 25% emetine and 17% bismuth (AJTMAQ 10,249,30).**SYNS:** BISMUTH EMETINE IODIDE □ EMETINE with BISMUTH(III) TRIIODIDE □ EMETINE TRIIODOBISMUTH(III) □ NSC-44185 □ TRIODO(6',7',10,11-TETRAMETHOXY-EMETAN)BISMUTH**TOXICITY DATA with REFERENCE:**

orl-mus LD50:74 mg/kg JPPMAB 16,65,64

ipr-mus LD50:126 mg/kg NCISP* JAN86

orl-cat LDLo:20 mg/kg AJTMAQ 10,249,30

orl-rbt LDLo:40 mg/kg AJTMAQ 10,249,30

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of I and NO_x . See also BISMUTH COMPOUNDS, EMETINE, and IODIDES.**EAN000****CAS: 316-42-7****HR: 3****1-EMETINE DIHYDROCHLORIDE**mf: $\text{C}_{29}\text{H}_{40}\text{N}_2\text{O}_4 \cdot 2\text{ClH}$ mw: 553.63**PROP:** Needles. Mp: 255° (decomp); sinters at 2°.**SYNS:** AMEBICIDE □ EMETINE, DIHYDROCHLORIDE □ (-)-EMETINE DIHYDROCHLORIDE □ EMETINE HYDROCHLORIDE □ NSC-33669**TOXICITY DATA with REFERENCE:**eye-hmn 3250 μg BJMAG 4,111,47

reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

EAN725 CAS: 67185-57-3 HR: 2
EMULPHOR ON-877

SYN: RZ 142

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/24H SEV NTIS** OTS0534767

eye-rbt 100 µL/24H MOD NTIS** OTS0534767

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

EAN750 CAS: 1337-59-3 HR: 3
EMULSEPT

TOXICITY DATA with REFERENCE:

orl-mus LD50:>2500 mg/kg JAPMA8 38,428,49

ivn-mus LD50:20 mg/kg JAPMA8 38,428,49

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

EAN800 HR: 2
EMULSOV O EXTRA P

SYN: RICINOLEIC ACID TRIESTER with GLYCEROL 12-ETHER with TRIDECAETHYLENE GLYCOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:37 g/kg APFRAD 18,53,60

ipr-rat LD50:7500 mg/kg APFRAD 18,53,60

ivn-mus LD50:3600 mg/kg APFRAD 18,53,60

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Moderately toxic by intravenous route. Mildly toxic by ingestion and intraperitoneal routes. See also ESTERS and GLYCOL ETHERS.

EAN900 CAS: 124439-07-2 HR: D
ENADOLINE HYDROCHLORIDE

mf: C₂₄H₃₂N₂O₃•ClH mw: 433.04

SYNS: Cl-977 □ 4-BENZOFURANACETAMIDE, N-METHYL-N-(7-(1-PYRROLIDINYL)-1-OXOSPIRO(4.5)DEC-8-YL)-,

MONOHYDROCHLORIDE, (5R-(5-α-7-α-8-β))- □ N-METHYL-N-((5R,7S,8S)-7-(1-PYRROLIDINYL)-1-OXOSPIRO(4.5)DEC-8-YL)-4-BENZOFURANACETAMIDE

TOXICITY DATA with REFERENCE:

ims-hmn TDLo:1287 ng/kg/3W-I:SYS JPCBR 34,1126,94

SAFETY PROFILE: Human systemic effects by intramuscular route: urine volume increased, changes in urine composition. When heated to decomposition it emits toxic vapors of NO_x and HCl.

EAO100 CAS: 76095-16-4 HR: 2
ENALAPRIL MALEATE

mf: C₂₀H₂₈N₂O₅•C₄H₄O₄ mw: 492.58

PROP: Crystals from MeCN. Mp: 143–144.5°.

SYNS: N-((S)-1-ETHOXYCARBONYL-3-PHENYLPROPYL)-1-ALANYL-L-PROLINE MALEATE □ (S)-1-(N-(1-(ETHOXYCARBONYL)-3-PHENYLPROPYL)-1-ALANYL)-L-PROLINE MALEATE □ MK 421 □ MK 421 MALEATE

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:400 µg/kg/2D-I:SKN BMJOAE 294,91,87

orl-man TDLo:143 µg/kg:SKN BMJOAE 294,91,87
 orl-wmn TDLo:5600 µg/kg/4W-I:PUL LANCAO 2,1094,86

orl-man TDLo:71 µg/kg:CVS BMJOAE 291,1309,85
 orl-wmn TDLo:5600 µg/kg/4W-I:SKN LANCAO 2,1395,86

orl-rat LD50:2973 mg/kg YACHDS 13,413,85

scu-rat LD50:1418 mg/kg YACHDS 13,413,85

ivn-rat LD50:849 mg/kg YACHDS 13,413,85

orl-mus LD50:3507 mg/kg YACHDS 13,413,85

scu-mus LD50:1160 mg/kg YACHDS 13,413,85

ivn-mus LD50:859 mg/kg YACHDS 13,413,85

SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous, and intravenous routes. Human systemic effects by ingestion: blood pressure depression, dermatitis, cough. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

EAO200 CAS: 629-31-2 HR: 2
ENANTHALDOXIME

mf: C₇H₁₅NO mw: 129.23

SYN: HEPTANAL, OXIME

TOXICITY DATA with REFERENCE:

orl-rat LD50:1045 mg/kg TOKSVE (5),41,94

orl-mus LD50:1 g/kg TOKSVE (5),41,94

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

EAO500 CAS: 20311-78-8 HR: 3
ENANTHOTOXIN

mf: C₁₇H₂₂O₂ mw: 258.39

SYNS: 2,8,10-HEPTADECATRIENE-4,6-DIYNE-1,14-DIOL □ OENANTHOTOXIN

TOXICITY DATA with REFERENCE:

ipr-rat LD50:2940 µg/kg AFTOD7 7,197,81

ipr-mus LD50:2940 µg/kg AFTOD7 7,197,81

SAFETY PROFILE: A deadly poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.

EAP000 CAS: 8015-30-3 HR: 3
ENAVID

mf: C₂₁H₂₆O₂•C₂₀H₂₆O₂ mw: 608.93

PROP: Mixture of 98.5% (17-α)-19-norpregn-4-en-20-yn-3-one, 17-hydroxy- and 1.5% (17-α)-19-norpregna-1,3,5(10)-trien-20-yn-17-ol,3-methoxy- (IARC** 6,193,74).

SYNS: CONOVID □ CONOVID E □ ENIDREL □ ENOVID □ ENOVID-E □ ETHINYLESTRADIOL-3-METHYL ETHER and NORETHYNODREL (1:50) □ MESTRANOL mixed with NORETHYNODREL □ NORETHANDROL □ NORETHYN-ODREL and ETHINYLESTRADIOL-3-METHYL ETHER (50:1) □ NORETHYNODREL mixed with MESTRANOL

TOXICITY DATA with REFERENCE:

oth-mus-par 3060 µg/kg/17D-C AJOGAH 120,390,74

CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 6,191,74. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen producing liver tumors in women by ingestion. Experimental

**EAS100
ENDOTOXIN****HR: 3****PROP:** A purified lipopolysaccharide fraction isolated from *Salmonella typhosa* 0901 (TXAPA9 23,102,72).**SYNS:** SALMONELLA TYPHI ENDOTOXIN □ SALMONELLA TYPHOSA ENDOTOXIN**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:107 mg/kg BPLAQ 7,7,8
 ivn-rat LD50:4330 µg/kg CRSAG 4,253,77
 ipr-mus LD50:19 mg/kg TXAPA9 23,102,72
 ivn-dog LD50:1 mg/kg BJPCBM 61,175,77

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes.**EAS200
ENDOTOXIN, BACT. AERTRYCKE****HR: 3****PROP:** The endotoxin was obtained by repeated freezing and thawing of the killed emulsions BJEPAS 16,454,35**TOXICITY DATA with REFERENCE:**

ipr-rat LDLo:750 mg/kg BJEPAS 16,454,35
 scu-rat LDLo:15,000 mg/kg BJEPAS 16,454,35
 ipr-rbt LDLo:400 mg/kg BJEPAS 16,454,35
 ivn-rbt LDLo:75 mg/kg BJEPAS 16,454,35
 ipr-pig LDLo:133 mg/kg BJEPAS 16,454,35
 ipr-gpg LDLo:1500 mg/kg BJEPAS 16,454,35
 scu-gpg LDLo:8 g/kg BJEPAS 16,454,35

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.**EAS230
Δ-ENDOTOXIN, from BACILLUS THURING-
ENSIS****HR: 1****TOXICITY DATA with REFERENCE:**

orl-rat LD50:>8 g/kg NNGADV 14,415,89
 skn-rat LD50:>2 g/kg NNGADV 14,415,89
 scu-rat LD50:>8 g/kg NNGADV 14,415,89
 orl-mus LD50:>17,300 mg/kg NNGADV 14,415,89
 ipr-mus LD50:1520 mg/kg NNGADV 14,415,89
 scu-mus LD50:12,100 mg/kg NNGADV 14,415,89

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.**EAS260
ENDOTOXIN, klp****HR: D****SYN:** K. PNEUMONIAE ENDOTOXIN**TOXICITY DATA with REFERENCE:**

dns-hmn:lng 500 µg/L PSEBAA 171,109,82

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**EAT500
ENDRIN****CAS: 72-20-8****HR: 3**mf: C₁₂H₈Cl₆O mw: 380.90**PROP:** White crystals. Mp: decomp @ 200°. Sol in Me₂CO, C₆H₆, xylene; sltly sol in CCl₄ and hexane. IDLH 2 mg/m³.**SYNS:** COMPOUND 269 □ ENDREX □ ENDRINE (FRENCH) □ ENT 17,251 □ HEXACHLOROEOPOXYOCTAHYDRO-endo,endo-

DIMETHANONAPHTHALENE □ 3,4,5,6,9,9-HEXACHLORO-1a,2,2a,3,6,6a,7,7a-OCTAHYDRO-2,7:3,6-DIMETHANONAPHTH-(2,3-b)OXIRENE □ HEXADRIN □ MENDRIN □ NCI-C00157 □ NENDRIN □ RCRA WASTE NUMBER P051

TOXICITY DATA with REFERENCE:

sce-ofs-mul 54 pmol/L MUREAV 118,61,83
 cyt-rat-par 1 mg/kg BECTA6 9,65,73
 orl-man LDLo:171 mg/kg HUTODJ 4,241,85
 orl-rat LD50:3 mg/kg WRPCA2 9,119,70
 skn-rat LD50:12 mg/kg SPEADM 78-1,13,78
 orl-mus LD50:1370 µg/kg TXAPA9 25,42,73
 ivn-mus LD50:2300 µg/kg TXAPA9 23,408,72
 orl-mky LD50:3 mg/kg PCOC** -,475,66
 orl-cat LDLo:5 mg/kg JAFCAU 3,842,55
 orl-rbt LD50:7 mg/kg JAFCAU 3,842,55
 skn-rbt LD50:60 mg/kg SPEADM 78-1,13,78
 orl-gpg LD50:16 mg/kg PCOC** -,475,66

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 5,157,74; Human Inadequate Evidence IMEMDT 5,157,74. NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-12,79. EPA Genetic Toxicology Program. EPA Extremely Hazardous Substances List.**OSHA PEL:** TWA 0.1 mg/m³ (skin)**ACGIH TLV:** TWA 0.1 mg/m³ (skin); Not Classifiable as a Human Carcinogen**DFG MAK:** 0.1 mg/m³**SAFETY PROFILE:** Poison by ingestion, skin contact, and intravenous routes. Experimental teratogenic and reproductive effects. Questionable carcinogen. Mutation data reported. A central nervous system stimulant. Highly toxic to birds, fish, and humans. Many cases of fatal poisoning have been attributed to it. Does not accumulate in human tissue. In humans, ingestion of 1 mg/kg has caused symptoms. A dangerous fire hazard. Mixtures with parathion dissolve very exothermically in petroleum solvents and may cause an air-vapor explosion. See also ALDRIN.**EAT600
ENDROCID****CAS: 5836-29-3****HR: 3**mf: C₁₉H₁₆O₃ mw: 292.35

SYNS: BAY 25634 □ BAY ENE 11183 B □ BAYER 25 634 □ COUMATETRALYL □ CUMATETRALYL (GERMAN, DUTCH) □ ENDOX □ ENDROCID □ ENE 11183 B □ 4-HYDROXY-3-(1,2,3,4-TETRAHYDRO-1-NAFTYL)-4-CUMARINE (DUTCH) □ 4-HYDROXY-3-(1,2,3,4-TETRAHYDRO-1-NAPHTHALENYL)-2H-1-BENZOPYRAN-2-ONE (9CI) □ 4-HYDROXY-3-(1,2,3,4-TETRAHYDRO-1-NAPHTHYL)CUMARIN □ 4-IDROSSI-3-(1,2,3,4-TETRAIDRO-1-NAFTIL)CUMARINA (ITALIAN) □ RACUMIN □ RAUCUMIN 57 □ RODENTIN □ 3-(1,2,3,4-TETRAHYDRO-1-NAPHTHYL)-4-HYDROXYCUMARIN (GERMAN) □ 3-(1,2,3,4-TETRAHYDRO-1-NAPHTYL)-4-HYDROXYCOUMARINE (FRENCH) □ 3-(α-TETRAL)-4-OXYCOUMARIN □ 3-(α-TETRALYL)-4-HYDROXYCOUMARIN □ 3-(d-TETRALYL)-4-HYDROXYCOUMARIN

TOXICITY DATA with REFERENCE:

orl-rat LD50:16,500 µg/kg FMCHA2 -,C203,83
 orl-cat LDLo:20 mg/kg 85GYAZ -,115,71
 orl-gpg LDLo:250 mg/kg 85GYAZ -,115,71

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits acrid smoke and fumes. See also COUMARIN.

EAT800 CAS: 11115-82-5 HR: 3
ENDURACIDIN

SYNS: ENRADIN □ ENRAMYCIN

TOXICITY DATA with REFERENCE:

ipr-rat LD50:830 mg/kg TDKNAF 28,76,69
ivn-rat LD50:66,600 µg/kg TDKNAF 28,76,69
ipr-mus LD50:750 mg/kg TDKNAF 28,76,69
ivn-mus LD50:30 mg/kg TDKNAF 28,76,69
ivn-rbt LD50:92 mg/kg TDKNAF 28,76,69

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route.

EAT810 CAS: 34438-27-2 HR: 3
ENDURACIDIN A

mf: C₁₀₇H₁₃₈Cl₂N₂₆O₃₁ mw: 2355.61

PROP: Crystals.

SYNS: B-5477 □ ENRADINE □ ENRAMYCIN

TOXICITY DATA with REFERENCE:

ipr-mus LD50:880 mg/kg 85GDA2 4(2),109,80
scu-mus LD50:3000 mg/kg 85GDA2 4(2),109,80
ivn-mus LD50:25 mg/kg 85GDA2 4(2),109,80

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

EAT900 CAS: 13838-16-9 HR: 2
ENFLURANE

mf: C₃H₂ClF₅O mw: 184.50

PROP: Bp: 56.5°, vap p: 188.6 mm @ 22°.

SYNS: ANESTHETIC COMPOUND No. 347 □ 2-CHLORO-1-(DIFLUOROMETHOXY)-1,1,2-TRIFLUOROETHANE □ 2-CHLORO-1,1,2-TRIFLUOROETHYL DIFLUOROMETHYL ETHER □ COMPOUND 347 □ ETHRANE □ METHYLFLURETHER □ NSC-115944 □ OHIO 347

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MOD FEPR7 35,729,76
cyt-hmn:lyms 1000 ppm ENVRAL 12,366,76
cyt-mus:fbr 1000 ppm ENVRAL 12,366,76
ihl-hmn TCLo:1 pph/6H ANESAV 45,557,76
orl-rat LD50:5450 mg/kg DRUGAY 6,143,82
ihl-rat LC50:14,000 ppm/3H IYKEDH 12,668,81
ipr-rat LD50:6 g/kg DRUGAY 6,143,82
scu-rat LD50:19,500 mg/kg YKYUA6 32,491,81
orl-mus LD50:5 g/kg DRUGAY 6,143,82
ihl-mus LC50:8100 ppm/3H IYKEDH 12,668,81
ipr-mus LD50:3900 mg/kg DRUGAY 6,143,82

scu-mus LD50:38,800 mg/kg YKYUA6 32,491,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 75 ppm; Not Classifiable as a Human Carcinogen

DFG MAK: 20 ppm

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

SAFETY PROFILE: Mildly toxic by inhalation, ingestion, and subcutaneous routes. Human systemic effects by inhalation: decreased urine volume or anuria. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. An eye irritant. Questionable carcinogen with experimental carcinogenic data. An anesthetic. When heated to decomposition it emits very toxic fumes of F⁻ and Cl⁻. See also ETHERS.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #29.

EAU000 HR: 3
ENHYDRINA SCHISTOSA VENOM

SYN: VENOM, SEA SNAKE, ENHYDRINA SCHISTOSA

TOXICITY DATA with REFERENCE:

ivn-rat LD50:70 µg/kg TRSTAZ 54,50,60
ipr-mus LD50:110 µg/kg 85EGD4 -,341,78
scu-mus LD50:111 µg/kg TOXIA6 14,347,76
ivn-mus LD50:74 µg/kg TOXIA6 20,797,82
par-mus LDLo:125 µg/kg SCNEBK 110,355,76
ivn-rbt LD50:57 µg/kg TRSTAZ 54,40,60
ivn-gpg LD50:61 µg/kg TRSTAZ 54,50,60
par-frg LD50:20 µg/kg TRSTAZ 54,50,60
ivn-mam LD50:10 µg/kg CLPTAT 8,849,67

SAFETY PROFILE: A deadly poison by intraperitoneal, intravenous, parenteral, and subcutaneous routes.

EAU075 CAS: 55726-47-1 HR: 3
ENOCITABINE

mf: C₃₁H₅₅N₃O₆ mw: 565.89

PROP: Crystals from DMSO. Mp: 141–142°.

SYNS: N-(1-β-d-ARABINOFURANOSYL-1,2-DIHYDRO-2-OXO-4-PYRIMIDINYL)DOCOSANAMIDE □ N⁴-BEHENOYL-1-β-d-ARABINOFURANOSYLCYTOSINE □ BEHENOYLCYTOSINE ARABINOSIDE □ N⁴-BEHENOYLCYTOSINE ARABINOSIDE □ SUNRABIN

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1100 mg/kg GTKRDX 10,207,83
ivn-rat LD50:380 mg/kg IYKEDH 14,484,83
ipr-mus LD50:525 mg/kg IYKEDH 14,484,83
scu-mus LD50:810 mg/kg GTKRDX 10,207,83
ivn-mus LD50:500 mg/kg IYKEDH 14,484,83

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

EAU100 CAS: 74011-58-8 HR: 3
ENOXACIN

mf: C₁₅H₁₇FN₄O₃ mw: 320.36

PROP: Crystals from ethanol/methylene chloride. Mp: 246–248°.

SYNS: AT-2266

□ 1-ETHYL-6-FLUORO-1,4-DIHYDRO-4-OXO-7-(1-PIPERAZINYL)-1,8-NAPHTHYRIDINE-3-CARBOXYLIC ACID □ FLUMARK

TOXICITY DATA with REFERENCE:

ivn-rat LD50:236 mg/kg NKRZAZ 32(Suppl 3),192,84
scu-mus LD50:1100 mg/kg 43MKAT 1,456,80
ivn-mus LD50:327 mg/kg NKRZAZ 32(Suppl 3),192,84

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. An experimental

teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of F⁻ and NO_x.

EAU150 HR: 3
ENOXACIN HYDRATE (2:3)

mf: C₁₅H₁₇FN₄O₃•3/2H₂O mw: 347.39

TOXICITY DATA with REFERENCE:

ivn-rat LD50:236 mg/kg IYKEDH 16,1461,85
scu-mus LD50:1237 mg/kg IYKEDH 16,1461,85
ivn-mus LD50:327 mg/kg IYKEDH 16,1461,85

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

EAU200 CAS: 73121-56-9 HR: 3
ENPROSTIL

mf: C₂₃H₂₈O₆ mw: 400.51

SYNS: 4,5-HEPTADIENOIC ACID, 7-(3-HYDROXY-2-(3-HYDROXY-4-PHENOXY-1-BUTENYL)-5-OXOCYCLOPENTYL)-, METHYL ESTER, (1- α ,2- β (1E,3R*),3- α)- □ GARDRIN □ RS 84135-004

TOXICITY DATA with REFERENCE:

orl-rat LD50:>1600 µg/kg KSRNAM 23,2327,1989
ipr-rat LD50:>160 µg/kg KSRNAM 23,2327,1989
orl-mus LD50:1600 µg/kg KSRNAM 23,2327,1989
ipr-mus LD50:80 µg/kg KSRNAM 23,2327,1989
orl-mky LD50:>320 µg/kg KSRNAM 23,2327,1989

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

EAU500 CAS: 136-45-8 HR: 3
ENT 17,591

mf: C₁₃H₁₇NO₄ mw: 251.31

SYNS: DIPROPYL ISOCINCHOMERONATE □ DI-N-PROPYL-ISOCINCHOMERONATE (GERMAN) □ DIPROPYL 2,5-PYRIDINEDICARBOXYLATE □ MGK 326 □ MGK REPELLENT-326 □ PYRIDIN-2,5-DICARBOXAEURE-DI-N-PROPYLESTER (GERMAN) □ 2,5-PYRIDINEDICARBOXYLIC ACID, DIPROPYL ESTER □ R-326 □ REPPER 333

TOXICITY DATA with REFERENCE:

orl-rat LD50:5230 mg/kg 28ZEAL 5,94,76
skn-rat LD50:9400 mg/kg 28ZEAL 5,94,76
orl-mus LD50:1600 mg/kg YKYUA6 32,605,81
ipr-mus LD50:330 mg/kg YKYUA6 32,605,81
skn-rbt LD50:9500 mg/kg 85DPAN -,71/76

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mildly toxic by skin contact. An insect repellent. When heated to decomposition it emits toxic fumes of NO_x.

EAV000 CAS: 115-91-3 HR: 3
ENT 24,944

mf: C₉H₁₃O₄PS₂ mw: 280.31

SYNS: BAYER 25198 □ O,O-DIMETHYL-O-(P-METHYLSULFINYLPHENYL)PHOSPHOROTHIOATE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:3 mg/kg ARSIM* 20,3,66
orl-ckn LD50:2320 µg/kg TXAPA9 6,147,64

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of PO_x and SO_x.

EAV025 CAS: 11100-45-1 HR: 3
ENTEROTOXIN B, STAPHYLOCOCCAL

SYNS: STAPHYLOCOCCAL ENTEROTOXIN B □ TOXIN B, ENTERO-, (STAPHYLOCOCCUS REDUCED)

TOXICITY DATA with REFERENCE:

ivn-mky LDLo:25 µg/kg APMBAY 14,445,1966
ipr-mus TDLo:4545.5 µg/kg TOXIA6 39,1383,2001

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

EAV050 CAS: 120500-96-1 HR: 2
ENTOMOPHTORINE

TOXICITY DATA with REFERENCE:

orl-mus LD :>2500 mg/kg GISAAA 54(3),76,89
ihl-mus LC :>50 mg/m³/4H GISAAA 54(3),76,89
ipr-mus LD50:1 g/kg GISAAA 54(3),76,89

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

EAV100 CAS: 23581-62-6 HR: 3
EO 122

mf: C₁₆H₂₂N₂O•ClH mw: 294.86

SYN: N-(2,6-DIMETHYLPHENYL)-2-AZABICYCLO-(2,2,2)OCTANE-3-CARBOXAMIDE MONOHYDROCHLORIDE (9CI)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:66 mg/kg ANGIAB 31,410,80
ivn-mus LD50:22 mg/kg ANGIAB 31,410,80
ivn-rbt LD50:8500 µg/kg ANGIAB 31,410,80

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

EAV500 CAS: 33419-42-0 HR: 3
EPE

mf: C₂₉H₃₂O₁₃ mw: 588.61

PROP: Crystals from MeOH. Mp: 236–251°.

SYNS: DEMETHYL-EPIODOPHYLLOTOXIN ETHYLIDENE GLUCOSIDE □ 4-DEMETHYLEPIODOPHYLLOTOXIN- β ,d-ETHYLIDENEGUCOSIDE □ 4'-DEMETHYLEPIODOPHYLLOTOXIN-9-(4,6-O-ETHYLIDENE- β -d-GLUCOPYRANOSIDE □ 4'-DEMETHYLEPIODOPHYLLOTOXIN ETHYLIDENE- β ,d-GLUCOSIDE □ 4-DEMETHYL-EPIODOPHYLLOTOXIN- β ,d-ETHYLIDEN-GLUCOSIDE □ 4'-O-DEMETHYL-1-O-(4,6-O-ETHYLIDENE- β ,d-GLUCOPYRANOSYL)EPIODOPHYLLOTOXIN □ ETOPOSIDE □ NK 171 □ NSC-141540 □ VEPESID □ VP 16213

TOXICITY DATA with REFERENCE:

mno-sat 2 mg/plate TCMUD8 5,319,85
dnd-hmn:oth 2 µmol/L CNREA8 45,3106,85
dnd-ham:lng 40 µmol/L CNREA8 46,611,86
orl-hmn TDLo:16 mg/kg/5D-I:BLD CANCAR 34,985,74
ivn-hmn TDLo:2630 µg/kg/10D-I:BLD CANCAR 34,985,74
ivn-cld TDLo:183 mg/kg/2H-C DICPBB 22,41,88
orl-rat LD50:1784 mg/kg KSRNAM 19,3473,85
ipr-rat LD50:39 mg/kg KSRNAM 19,3473,85

ivn-rat LD50:75 mg/kg KSRNAM 19,3473,85
 orl-mus LD50:215 mg/kg NCISP* JAN86
 ipr-mus LD50:64 mg/kg KSRNAM 19,3473,85
 scu-mus LD50:223 mg/kg NCISP* JAN86
 ivn-mus LD50:15,070 µg/kg NCISP* JAN86

SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. An experimental teratogen. Human systemic effects by ingestion and inhalation: agranulocytosis, aplastic anemia, and other changes in bone marrow. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

EAV700 CAS: 56839-43-1 HR: 3

EPERISONE HYDROCHLORIDE

mf: C₁₇H₂₅NO•ClH mw: 295.89

SYNS: E-646 □ EMPP □ 4'-ETHYL-2-METHYL-3-PIPERIDINOPROPIOPHENONE HYDROCHLORIDE □ MIONAL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1300 mg/kg OYYAA2 21,939,81
 scu-rat LD50:490 mg/kg OYYAA2 21,939,81
 ivn-rat LD50:51 mg/kg OYYAA2 21,939,81
 ims-rat LD50:400 mg/kg OYYAA2 21,939,81
 orl-mus LD50:940 mg/kg OYYAA2 21,939,81
 scu-mus LD50:256 mg/kg OYYAA2 21,939,81
 ivn-mus LD50:43 mg/kg OYYAA2 21,939,81
 ims-mus LD50:280 mg/kg OYYAA2 21,939,81

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

EAW000 CAS: 299-42-3 HR: 3

EPHEDRINE

mf: C₁₀H₁₅NO mw: 165.26

PROP: White granules. Mp: 79° (dl), mp: 40° (l), bp: 225° (decomp). Sol in ether and chloroform.

SYNS: BIOPHEDRIN □ ECIPHIN □ EPEDRIN □ EPHEDRAL □ EPHEDRATE □ EPHEDRAMAL □ EPHEDRIN □ I-EPHEDRINE □ I(-)-EPHEDRINE □ EPHEDRITAL □ EPHEDROL □ EPHEDRISAN □ EPHEDRITAL □ EPHEDSOL □ EPHENDRONAL □ EPHOXAMIN □ FEDRIN □ α-HYDROXY-β-METHYL AMINE PROPYL BENZENE □ 1-HYDROXY-2-METHYLAMINO-1-PHENYLPROPANE □ I-SEDRI □ ISOFEDROL □ KRATEDYN □ MANADRIN □ MANDRI □ (-)-α-(1-METHYLAMINOETHYL)BENZYL ALCOHOL □ 1-α-(1-METHYLAMINOETHYL)BENZYL ALCOHOL □ 1-2-METHYLAMINO-1-PHENYLPROPANOL □ N-METHYLNOREPHEDRINE □ NASOL □ 1-PHENYL-2-METHYLAMINOPROPANOL □ SANEDRINE □ VENCIPON □ ZEPHROL

TOXICITY DATA with REFERENCE:

unr-man LDLo:9 mg/kg 85DCAI 2,73,70
 orl-rat LD50:600 mg/kg 27ZQAG -,341,72
 ipr-rat LDLo:150 mg/kg AEPPAE 195,647,40
 scu-rat LD50:300 mg/kg AIPTAK 68,339,42
 ivn-rat LDLo:130 mg/kg AEPPAE 120,189,27
 orl-mus LD50:1250 mg/kg ARZNAD 23,1125,73
 ipr-mus LD50:350 mg/kg PCJOAU 3,203,69
 ivn-mus LD50:74 mg/kg APTOA6 38,474,76

par-mus LD50:170 mg/kg AEPPAE 195,647,40
 ivn-dog LDLo:70 mg/kg AEPPAE 120,189,27
 ims-rbt LDLo:340 mg/kg AEPPAE 120,189,27

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A human poison by an unspecified route. An experimental poison by intravenous, subcutaneous, intramuscular, and intraperitoneal routes. Moderately toxic by ingestion and parenteral routes. Causes rapid pulse, rise in blood pressure, and other actions similar to epinephrine. An experimental teratogen. Used in production of drugs of abuse. Has been known to cause allergic sensitization. When heated to decomposition it emits toxic fumes of NO_x.

EAW100 CAS: 90-81-3 HR: 3

di-EPHEDRINE

mf: C₁₀H₁₅NO mw: 165.26

PROP: Crystals. Mp: 79°

SYNS: BENZENEMETHANOL, α-(1-(METHYLAMINO)ETHYL)-, (R*,S*)-(±)-(9CI) □ (±)-EPHEDRINE □ EPHEDRINE, (±)- □ RACEPHEDRINE

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:170 mg/kg AEPPAE 195,647,40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EAW200 CAS: 321-98-2 HR: 3

(+)-EPHEDRINE

mf: C₁₀H₁₅NO mw: 165.26

SYNS: BENZENEMETHANOL, α-(1-(METHYLAMINO)ETHYL)-, (S-(R*,S*))-(9CI) □ d-EPHEDRINE □ EPHEDRINE, (+)- □ l-(+)-EPHEDRINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:255 mg/kg JPMSAE 53,987,64
 ivn-mus LD50:105 mg/kg JPETAB 148,158,65

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EAW500 CAS: 50-98-6 HR: 3

EPHEDRINE HYDROCHLORIDE

mf: C₁₀H₁₅NO•ClH mw: 201.72

PROP: A solid. Mp: 218°.

SYNS: BENZENEMETHANOL, α-(1-(METHYLAMINO)ETHYL)-, HYDROCHLORIDE, (R-(R*,S*)) □ EPHEDRINE HYDROCHLORIDE □ I-EPHEDRINE, HYDROCHLORIDE □ N-METHYL-β-OXY-β-PHENYLISOPROPYLAMINHYDROCHLORID

TOXICITY DATA with REFERENCE:

idr-hmn TDLo:5700 µg/kg:SKN JPETAB 76,295,42
 ipr-rat LD50:165 mg/kg JPETAB 86,284,46
 scu-rat LD50:1150 mg/kg JPETAB 95,336,49
 ivn-rat LD50:69 mg/kg JAPMA8 33,80,44
 orl-mus LD50:400 mg/kg JMCMA8 9,966,66
 ipr-mus LD50:242 mg/kg JPETAB 158,135,67
 scu-mus LD50:40,870 µg/kg JPETAB 87,214,46
 ivn-mus LD50:95 mg/kg JPETAB 95,336,49

par-mus LDLo:500 mg/kg MAIZAB 3,1,25

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Human systemic effects by intradermal route: skin effects. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also EPHEDRINE.

EAW995 CAS: 24221-86-1 HR: 3
d-EPHEDRINE HYDROCHLORIDE

mf: C₁₀H₁₅NO•ClH mw: 201.72

PROP:

PROP: A solid. Mp: 217–218°.

TOXICITY DATA with REFERENCE:

scu-rat LDLo:160 mg/kg JPETAB 71,62,41
orl-mus LD50:785 mg/kg JMCMA 9,966,66
ipr-mus LD50:248 mg/kg JPETAB 158,135,67
scu-mus LD50:425 mg/kg JMCMA 9,966,66
ivn-mus LD50:175 mg/kg JMCMA 9,966,66
ivn-rbt LDLo:80 mg/kg JPETAB 36,363,29

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EAX000 CAS: 50-98-6 HR: 3
I-EPHEDRINE HYDROCHLORIDE

mf: C₁₀H₁₅NO•ClH mw: 201.72

PROP: Crystals. Mp: 187–188°. One gram dissolves in 4 ml water.

SYNS: EPHEDRINE HYDROCHLORIDE □ (-)-EPHEDRINE HYDROCHLORIDE □ (R-(R*,S*))-α-(1-(METHYLAMINO)ETHYL)-BENZENEMETHANOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

idr-hmn TDLo:6 µg/kg:CNS JPETAB 76,295,42
ipr-rat LD50:165 mg/kg JPETAB 86,284,46
ivn-rat LD50:69 mg/kg JAPMA 83,30,44
orl-mus LD50:400 mg/kg JMCMA 9,966,66
scu-mus LD50:600 mg/kg JPETAB 86,284,46
ivn-mus LD50:95 mg/kg JPETAB 95,336,49
par-mus LDLo:500 mg/kg MAIZAB 3,1,25
scu-rbt LD50:165 mg/kg JPETAB 86,284,46
ims-rbt LD50:175 mg/kg JPETAB 86,284,46

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, subcutaneous, and intramuscular routes. Moderately toxic by parenteral route. Human systemic effects by intradermal route: local anesthetic. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also EPHEDRINE.

EAX500 CAS: 134-71-4 HR: 3
di-EPHEDRINE HYDROCHLORIDE

mf: C₁₀H₁₅NO•ClH mw: 201.72

PROP: A solid. Mp: 188–189.5°.

SYNS: EPHETONIN □ EPHETONINE □ di-α-(1-(METHYLAMINO)ETHYL) BENZYL ALCOHOL HYDROCHLORIDE □ 1-

PHENYL-2-METHYLAMINOPROPANOL-1 □ RACEPHEDRINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:1 mg/kg:CAR,GIT,SKN JPETAB 33,237,28
orl-man TDLo:1429 µg/kg JPETAB 33,237,28
scu-rat LD50:350 mg/kg AEPPAE 169,114,33
orl-mus LD50:700 mg/kg JMCMA 9,966,66
ipr-mus LD50:254 mg/kg PHARAT 24,775,69
scu-mus LD50:520 mg/kg NYKZAU 55,653,59
ivn-mus LD50:135 mg/kg JMCMA 9,966,66
ivn-rbt LDLo:60 mg/kg JPETAB 36,363,29

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. Human systemic effects: cardiac changes, nausea or vomiting, sweating. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also EPHEDRINE.

EAY150 CAS: 7234-08-4 HR: 2
d-EPHEDRINE PHOSPHATE (ESTER)

mf: C₁₀H₁₆NO₄P mw: 245.24

SYN: d-α-(1-(METHYLAMINO)ETHYL)BENZYL PHOSPHATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1800 mg/kg JMCMA 9,966,66
ipr-mus LD50:815 mg/kg JMCMA 9,966,66
scu-mus LD50:865 mg/kg JMCMA 9,966,66
ivn-mus LD50:815 mg/kg JMCMA 9,966,66

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

EAY155 CAS: 7234-07-3 HR: 2
I-EPHEDRINE PHOSPHATE (ESTER)

mf: C₁₀H₁₆NO₄P mw: 245.24

SYN: l-α-(1-(METHYLAMINO)ETHYL)BENZYL PHOSPHATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1065 mg/kg JMCMA 9,966,66
ipr-mus LD50:2000 mg/kg JMCMA 9,966,66
scu-mus LD50:1707 mg/kg JMCMA 9,966,66
ivn-mus LD50:400 mg/kg JMCMA 9,966,66

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

EAY175 CAS: 7234-09-5 HR: 2
di-EPHEDRINE PHOSPHATE (ESTER)

mf: C₁₀H₁₆NO₄P mw: 245.24

SYN: di-α-(1-(METHYLAMINO)ETHYL)BENZYL PHOSPHATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:2000 mg/kg JMCMA 9,966,66
ipr-mus LD50:790 mg/kg JMCMA 9,966,66
scu-mus LD50:1150 mg/kg JMCMA 9,966,66
ivn-mus LD50:840 mg/kg JMCMA 9,966,66

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

EAY500 CAS: 134-72-5 HR: 3
1-EPHEDRINE SULFATEmf: $C_{20}H_{30}N_2O_2 \cdot H_2O_4S$ mw: 428.60**PROP:** White microcrystalline powder. Mp: 245–248° (decomposes). Sol in water: ≥ 100 mg/mL @ 20°.**SYNS:** ISOFEDROL □ 1- α -(1-(METHYLAMINO)ETHYL)-BENZYL ALCOHOL SULFATE □ NCI-C55652 □ 1-PHENYL-2-METHYLAMINE-PROPANOL-1-SULFATE**TOXICITY DATA with REFERENCE:**

ivn-hmn TDLo:1 mg/kg;CVS AEPPAE 120,189,27

orl-rat LD50:404 mg/kg JPETAB 94,150,48

scu-rat LD50:318 mg/kg JPETAB 94,150,48

ivn-rat LD50:102 mg/kg JPETAB 94,150,48

orl-mus LD50:812 mg/kg NTPTR* NTP-TR-307,86

ipr-mus LD50:400 mg/kg TXAPA9 28,227,74

orl-rbt LD50:825 mg/kg JPETAB 94,150,48

scu-rbt LD50:383 mg/kg JPETAB 94,150,48

ivn-rbt LD50:73 mg/kg JPETAB 94,159,48

CONSENSUS REPORTS: NTP Carcinogenesis Studies (feed); No Evidence: mouse, rat NTPTR* NTP-TR-307,86. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous, intraperitoneal, and subcutaneous routes. Moderately toxic by ingestion. Human systemic effects by intravenous route: increased pulse rate and blood pressure. When heated to decomposition it emits very toxic fumes of NO_x and SO_x . See also EPHEDRINE.**EAZ000 CAS: 62-32-8 HR: 3**
EPHININE HYDROCHLORIDEmf: $C_9H_{13}NO_2 \cdot ClH$ mw: 203.69**PROP:** Prisms from H_2O . Mp: 179–180°.**SYNS:** 3,4-DIHYDROXYPHENYLETHYLMETHYLAMINE HYDROCHLORIDE □ 3,4-DIHYDROXYPHENYL-1-METHYL-AMINO-2-ETHANE HYDROCHLORIDE □ 4-(2-METHYLAMINO-ETHYL)PYROCATECHOL HYDROCHLORIDE □ METHYL-(β -(3,4-DIHYDROXY PHENYL ETHYL) AMINE HYDROCHLORIDE □ N-METHYLDOPAMINE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

scu-rat LDLo:160 mg/kg JPETAB 71,62,41

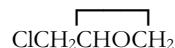
ipr-mus LD50:212 mg/kg JMCMA 18,1194,75

SAFETY PROFILE: A poison by subcutaneous and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl.**EAZ100 CAS: 162885-01-0 HR: 3**
(+)-EPIBATIDINE DIHYDROCHLORIDEmf: $C_{11}H_{13}ClN_2 \cdot 2ClH$ mw: 281.61**SYN:** 7-AZABICYCLO(2.2.1)HEPTANE, 2-(6-CHLORO-3-PYRIDINYL)-, DIHYDROCHLORIDE, exo-(+)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:0.08 mg/kg

TXAPA9 177,77,2001

ipr-mus TDLo:0.003 mg/kg TXAPA9 177,77,2001

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x , HCl, and Cl^- .**EAZ500 CAS: 106-89-8 HR: 3**
EPICHLOROHYDRIN**DOT:** UN 2023mf: C_3H_5ClO mw: 92.53**PROP:** Colorless, mobile liquid; irritating chloroform-like odor. Bp: 117.9°, fp: –57.1°, flash p: 105.1°F (OC) (40°C), mp: –25.6°C, d: 1.1761 @ 20°/20°, vap press: 10 mm @ 16.6°, vap d: 3.29. IDLH 75 ppm.**SYNS:** 1-CHLOOR-2,3-EPOXY-PROPAAN (DUTCH) □ 1-CHLOR-2,3-EPOXY-PROPAN (GERMAN) □ 1-CHLORO-2,3-EPOXYPROPANE □ 3-CHLORO-1,2-EPOXYPROPANE □ epi-CHLOROHYDRIN □ (CHLOROMETHYL)ETHYLENE OXIDE □ CHLOROMETHYLOXIRANE □ 2-(CHLOROMETHYL)OXIRANE □ CHLOROPROPYLENE OXIDE □ γ -CHLOROPROPYLENE OXIDE □ 3-CHLORO-1,2-PROPYLENE OXIDE □ 1-CLORO-2,3-EPOSSIPROPANO (ITALIAN) □ ECH □ EPICHLORHYDRINE (DUTCH) □ EPICHLORHYDRIN (GERMAN) □ EPICHLORHYDRINE (FRENCH) □ EPICHLOROPHYDRIN □ α -EPICHLOROHYDRIN □ (dl)- α -EPICHLOROHYDRIN □ EPICHLOROHYDRINA (POLISH) □ EPICLORIDRINA (ITALIAN) □ 1,2-EPOXY-3-CHLOROPROPANE □ 2,3-EPOXYPROPYL CHLORIDE □ GLYCEROL EPICHLORHYDRIN □ RCRA WASTE NUMBER U041 □ SKEKhG**TOXICITY DATA with REFERENCE:**

skn-rbt 10 mg/24H open JIHTAB 30,63,48

eye-rbt 100 mg/24H MOD 85JCAE -,769,86

dni-hmn:hla 2700 μ mol/L MUREAV 92,427,82

sce-hmn:lym 10 nmol/L CARYAB 34,261,81

spm-mus-ihl 5 mg/m³ MUREAV 85,287,81

orl-mus TDLo:1200 mg/kg (female 6-15D post):TER

JTEHD6 9,87,82

ihl-rat TCLo:50 ppm/6H (male 50D pre):REP TXAPA9 68,415,83

orl-rat TDLo:60 g/kg/81W-I:CAR GANNA2 71,922,80

ihl-rat TCLo:100 ppm/6H/30D-C:CAR JJIND8 65,751,80

ipr-mus TDLo:2400 mg/kg/8W-I:NEO TXAPA9 82,19,86

scu-mus TDLo:720 mg/kg/18W-I:ETA JJIND8 48,1431,72

ihl-hmn TCLo:40 ppm/2H:PUL 34ZIAG -,240,69

ihl-hmn TCLo:20 ppm:EYE 29ZWAE -,108,68

orl-rat LD50:90 mg/kg JIDHAN 30,63,48

ihl-rat LC50:250 ppm/8H NPIRI* 1,41,74

skn-rat LDLo:1 g/kg UCPhAQ 2,69,41

ipr-rat LD50:133 mg/kg TXAPA9 52,422,80

scu-rat LD50:150 mg/kg AMPMAR 28,505,67

ivn-rat LD50:154 mg/kg NPIRI* 1,41,74

orl-mus LD50:195 mg/kg GISAAA 33(1),46,68

skn-mus LD50:250 mg/kg 85GMAT -,64,82

orl-rbt LD50:345 mg/kg GISAAA 33(1),46,68

skn-rbt LD50:515 mg/kg WoIMA# 18JAN77

ipr-rbt LD50:118 mg/kg JPMSAE 61,1712,72

orl-gpg LD50:280 mg/kg GISAAA 33(1),46,68

ipr-gpg LD50:118 mg/kg JPMSAE 61,1712,72

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2A IMEMDT 7,202,87; Animal Sufficient Evidence IMEMDT 11,131,76. EPA Genetic Toxicology Program. Community Right-To-Know List. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 2 ppm (skin)**ACGIH TLV:** TWA 0.5 ppm (skin); Animal Carcinogen**DFG MAK:** DFG TRK: Animal Carcinogen, Suspected Human Carcinogen**NIOSH REL:** Minimize exposure

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Poison by ingestion, skin contact, intravenous, and intraperitoneal routes. Moderately toxic by inhalation. An experimental teratogen. Other experimental reproductive effects. Human systemic effects by inhalation: respiratory, nose, and eyes. Human mutation data reported. A skin and eye irritant. A sensitizer. Flammable liquid when exposed to heat or flame. Explosive reaction with aniline. Reaction with trichloroethylene forms the explosive dichloroacetylene. Ignition on contact with potassium tert-butoxide. Violent reaction with sulfuric acid or isopropylamine. Exothermic polymerization on contact with strong acids, caustic alkalis, aluminum, aluminum chloride, iron(III) chloride, or zinc. When heated to decomposition it emits toxic fumes of Cl^- .

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Epichlorohydrin, 1010.

EAZ600 CAS: 41941-50-8 HR: 3
EPICHLOROHYDRIN-BIS(3-AMINOPROPYL)-METHYLAMINE COPOLYMER

mf: $(\text{C}_7\text{H}_{19}\text{N}_3 \cdot \text{C}_3\text{H}_5\text{ClO})_x$

SYNS: ACRAFIX FHN □ N-(3-AMINOPROPYL)-N-METHYL-1,3-PROPANEDIAMINE POLYMER WITH (CHLOROMETHYL)-OXIRANE □ BIS(3-AMINOPROPYL)METHYLAMINE-EPICHLOROHYDRIN COPOLYMER □ N,N-BIS(3-AMINOPROPYL)METHYLAMINE-EPICHLOROHYDRIN COPOLYMER □ OXIRANE, (CHLOROMETHYL)-, POLYMER WITH N-(3-AMINOPROPYL)-N-METHYL-1,3-PROPANE DIAMINE □ 1,3-PROPANEDIAMINE, N-(3-AMINOPROPYL)-N-METHYL-, POLYMER WITH (CHLOROMETHYL)OXIRANE

TOXICITY DATA with REFERENCE:

orl-rat LD50: >5 g/kg OEMEEM 54,376,1997

itr-gpg LD50: 30 mg/kg OEMEEM 54,376,1997

SAFETY PROFILE: A poison by intratracheal route. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Cl^- .

EBA100 CAS: 516-95-0 HR: 2
EPIDEHYDROCHOLESTERIN

mf: $\text{C}_{27}\text{H}_{48}\text{O}$ mw: 388.75**PROP:** Needles from EtOH. Mp: 185–186°.

SYNS: CHOLESTAN-3-OL, (3- α -5 α)-(9Cl) □ 5- α -CHOLESTAN-3- α -OL (8Cl) □ α -CHOLESTANOL (7Cl) □ epi-CHOLESTANOL □ EPICHOESTANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50: >1500 mg/kg KSRNAM 13,1256,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EBA275 CAS: 62229-50-9 HR: D
EPIDERMAL GROWTH FACTOR

PROP: Lyophilized solid. Sol in water.**SYN:** EGF**TOXICITY DATA with REFERENCE:**dns-hmn:oth 10 $\mu\text{g/L}$ CNREA8 46,2545,86dns-rat:lvrl 10 $\mu\text{g/L}$ PNASA6 73,3589,76dns-mus:emb 12 $\mu\text{g/L}$ ECREAL 158,311,85

SAFETY PROFILE: Human mutation data reported.

EBA500 CAS: 220-42-8 HR: 3
9,10-EPIDIOXY ANTHRACENE

mf: $\text{C}_{14}\text{H}_8\text{O}_2$ mw: 208.22

SAFETY PROFILE: Decomposes explosively at 120°C. When heated to decomposition it emits acrid smoke and fumes. See also ANTHRACENE

EBA600 HR: 3
1,4-EPIDIOXY-1,4-DIHYDRO-6,6-DIMETHYL-FULVENE

mf: $\text{C}_8\text{H}_{10}\text{O}_2$ mw: 138.17

SAFETY PROFILE: Decomposes explosively above -10°C. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES.

EBB100 CAS: 56420-45-2 HR: 3
4'-EPIDOXORUBICIN

mf: $\text{C}_{27}\text{H}_{29}\text{NO}_{11}$ mw: 543.57**SYNS:** EPIRUBICIN □ EPI-DX □ FARMORUBICIN**TOXICITY DATA with REFERENCE:**

spm-mus-par 10 mg/kg MUREAV 160,39,86

dnd-hmn:leu 5 $\mu\text{mol/L}$ CCPHDZ 30,51,92ivn-rat LD50: 14,270 $\mu\text{g/kg}$ TXAPA9 79,412,85ivn-mus LD50: 16,070 $\mu\text{g/kg}$ TXAPA9 79,412,85

ivn-dog LD50: 2 mg/kg TXAPA9 79,412,85

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

EBB200 CAS: 989-51-5 HR: 2
EPIGALLOCATECHIN 3-GALLATE

mf: $\text{C}_{22}\text{H}_{18}\text{O}_{11}$ mw: 458.40

SYNS: EPIGALLOCATECHOL, 3-GALLATE, (-)- □ (-)-EPIGALLOCATECHOL GALLATE □ EPIGALLOCATECHIN GALLATE □ (-)-EPIGALLOCATECHIN GALLATE □ (-)-EPIGALLOCATECHIN-3-o-GALLATE □ TEA CATECHIN

TOXICITY DATA with REFERENCE:

orl-mus LD50: 2170 mg/kg KSRNAM 21,4601,1987

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

EBB500 CAS: 329-65-7 HR: 3
di-EPINEPHRINE

mf: $\text{C}_9\text{H}_{13}\text{NO}_3$ mw: 183.23**PROP:** Microscopic crystals. Sltly sol in H_2O .**SYNS:** di-ADRENALINE □ EPINEPHRINE racemic**TOXICITY DATA with REFERENCE:**ivn-rat LD50: 70 $\mu\text{g/kg}$ JPETAB 95,502,49ipr-mus LD50: 7800 $\mu\text{g/kg}$ PSEBAA 68,501,48

scu-mus LDLo: 12 mg/kg 85IXA4 -,57,48

ivn-mus LD50: 3400 $\mu\text{g/kg}$ JPETAB 95,502,49

SAFETY PROFILE: Very poisonous by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x .

EBB600 CAS: 4375-07-9 HR: D**EPIPODOPHYLLOTOXIN**mf: C₂₂H₂₂O₈ mw: 414.44**PROP:** Needles from EtOH (aq). Mp: 159.4–161.2°.**SYNS:** ETOPSIDE □ FURO(3',4':6,7)NAPHTHO(2,3-d)-1,3-DIOXOL-6(5aH)-ONE, 5,8,8a,9-TETRAHYDRO-9-HYDROXY-5-(3,4,5-TRIMETHOXYPHENYL)-, (5R-(5-α-5a-β,8a-α-9-β))- □ VP16**TOXICITY DATA with REFERENCE:**

dni-hmn:hlas 800 nmol/L BICHAW 15,5443,76

oth-hmn:hlas 5 μmol/L BICHAW 15,5443,76

SAFETY PROFILE: Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**EBB700 CAS: 73090-70-7 HR: 2****EPIROPRIM**mf: C₁₉H₂₃N₅O₂ mw: 353.47**SYNS:** 5-(3,5-DIETHOXY-4-(1H-PYRROL-1-YL)PHENYL)-METHYL-2,4-PYRIMIDINEDIAMINE □ 2,4-PYRIMIDINEDIAMINE, 5-(3,5-DIETHOXY-4-(1H-PYRROL-1-YL)PHENYL)-METHYL)- □ RO 11-8958**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1419 mg/kg JCHOAM 5,400,93

orl-mus LD50:2 g/kg JCHOAM 5,400,93

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**EBB800 CAS: 465-12-3 HR: 3****3-EPISARMENTOGENIN**mf: C₂₃H₃₄O₅ mw: 390.57**SYNS:** CARD-20(22)-ENOLIDE, 3,11,14-TRIHIDROXY-, (3-α,5-β,11-α)- □ 5-β-CARD-20(22)-ENOLIDE, 3-α,11-α,14-TRIHIDROXY-**TOXICITY DATA with REFERENCE:**

ivn-cat LD50:2960 μg/kg JMCMAR 13,1029,1970

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.**EBC000 CAS: 55870-64-9 HR: 3****5-EPISISOMICIN**mf: C₁₉H₃₇N₅O₇ mw: 447.61**SYNS:** MUTAMYCIN □ PENTISOMICIN □ PENTISOMICINA (SPANISH)**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:175 mg/kg DRFUD4 4,516,79

scu-mus LD50:210 mg/kg DRFUD4 4,516,79

ivn-mus LD50:45 mg/kg DRFUD4 4,516,79

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.**EBD000 CAS: 10390-80-4 HR: 2****EPISOL TARTRATE**mf: C₁₇H₂₁ClN₂OS•C₄H₆O₆ mw: 487.01**SYN:** 5-CHLORO-2-(4-(2-(DIETHYLAMINO)ETHOXY)PHENYL)BENZOTHAZOLE TARTRATE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:700 mg/kg ARZNAD 16,33,66

scu-mus LD50:2300 mg/kg ARZNAD 16,33,66

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of Cl⁻, NO_x and SO_x.**EBD500 CAS: 2363-58-8 HR: 2****2-α,3-α-EPITHIO-5-α-ANDROSTAN-17-β-OL**mf: C₁₉H₃₀OS mw: 306.55**PROP:** Crystals from Me₂CO. Mp: 127–128°.**SYNS:** 2,3-EPITHIOANDROSTAN-17-OL □ EPITIOSTANOL □ 10275-S □ THIODROL**TOXICITY DATA with REFERENCE:**

ipr-rat LDLo:5 g/kg OYYAA2 7,805,73

ipr-mus LD50:1160 mg/kg OYYAA2 7,805,73

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental teratogenic and reproductive effects. A steroid. When heated to decomposition it emits very toxic fumes of SO_x.**EBD550 CAS: 19858-14-1 HR: 3****2,3-EPITHIOPROPYL METHOXY ETHER**mf: C₄H₈OS mw: 104.18**SYN:** ETHER, 2,3-EPITHIOPROPYL METHYL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2140 μL/kg AIHAAP 30,470,69

skn-rbt LD50:>5 mL/kg AIHAAP 30,470,69

SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits toxic vapors of SO_x.**EBD600 CAS: 54096-45-6 HR: 3****4,5-EPITHIOVALERONITRILE**mf: C₅H₇NS mw: 113.19**SYN:** 1-CYANO-3,4-EPITHIOBUTANE**TOXICITY DATA with REFERENCE:**

scu-rat LD50:109 mg/kg FCTXAV 18,159,80

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Poison by subcutaneous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x, CN⁻, and SO_x. See also NITRILES.**EBD700 CAS: 2104-64-5 HR: 3****EPN**mf: C₁₄H₁₄NO₄PS mw: 323.32**PROP:** Liquid or pale-yellow crystals with an aromatic odor. D: 1.268 @ 25°, mp: 36°. Nearly insol in water; sol in org solvs. IDLH 5 mg/m³.**SYNS:** O-AETHYL-O-n(4-NITROPHENYL)-PHENYL-MONOTHIOPHOSPHONAT (GERMAN) □ ENT 17,798 □ O-ESTER-p-NITROPHENOL with O-ETHYL PHENYL PHOSPHONOTHIOATE □ ETHOXY 4-NITROPHENOXYPHENYL-PHOSPHINE SULFIDE □ O-ETHYL-O-((4-NITROFENYL)-FENYL)-MONOTHIOFOSFONAT (DUTCH) □ O-ETHYL O-(4-NITROPHENYL)BENZENETHIONOPHOSPHONATE □ ETHYL-p-NITROPHENYL BENZENETHIONOPHOSPHONATE □ ETHYL-p-NITROPHENYL BENZENETHIOPHOSPHATE □ ETHYL-p-NITROPHENYL BENZENETHIOPHOSPHONATE □ ETHYL-p-NITROPHENYL PHENYLPHOSPHONOTHIOATE □ O-ETHYL-O-(4-NITROPHENYL) PHENYLPHOSPHONOTHIO-

ATE □ O-ETHYL-O-p-NITROPHENYL PHENYLPHOSPHONOTHIOATE □ O-ETHYL-O-p-NITROPHENYL PHENYLPHOSPHOROTHIOATE □ ETHYL-p-NITROPHENYL THIONOBENZENEPHOSPHATE □ ETHYL-p-NITROPHENYL THIONOBENZENEPHOSPHONATE □ O-ETHYL-PHENYL-p-NITROPHENYL THIOPHOSPHONATE □ O-ETIL-O-((4-NITRO-FENIL)-FENIL)-MONOTIOFOSFONATO (ITALIAN) □ PHENYLTHIOPHOSPHONATE de O-ETHYLE et O-4-NITRO-PHENYLE (FRENCH) □ PIN □ SANTOX □ THIONOBENZENEPHOSPHONIC ACID ETHYL-p-NITROPHENYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:7 mg/kg JPETAB 112,29,54
 skn-rat LD50:25 mg/kg TXAPA9 2,88,60
 ipr-rat LD50:7200 µg/kg APCRAW 4,117,61
 orl-mus LD50:12,200 µg/kg ABCHA6 26,257,62
 skn-mus LD50:348 mg/kg ABCHA6 26,257,62
 ipr-mus LD50:8400 µg/kg IJBBBQ 15,336,78
 orl-dog LD50:20 mg/kg PCOC** -,478,66
 ipr-dog LDLo:35 mg/kg JPETAB 112,29,54
 skn-cat LD50:45 mg/kg TOLED5 1000(Suppl 1)141,80
 skn-rbt LD50:30 mg/kg AFDOAQ 16,3,52
 ipr-rbt LDLo:20 mg/kg JPETAB 112,29,54
 ipr-gpg LDLo:20 mg/kg JPETAB 112,29,54

CONSENSUS REPORTS: EPA Farm Worker Field Reentry FEREAC 39, 16888,74. EPA Extremely Hazardous Substances List.

OSHA PEL: TWA 0.5 mg/m³ (skin)

ACGIH TLV: TWA 0.1 mg/m³ (skin); Not Classifiable as a Human Carcinogen

DFG MAK: 0.5 mg/m³

SAFETY PROFILE: Poison by ingestion, skin contact, and intraperitoneal routes. An experimental teratogen. A cholinesterase inhibitor. This material is extremely hazardous on contact with skin, inhalation, or ingestion. A highly toxic insecticide. When heated to decomposition it emits highly toxic fumes of SO_x, PO_x, NO_x, and phosphine. See also PARATHION, NITRO COMPOUNDS OF AROMATIC HYDROCARBONS, PHOSPHINE, and SULFIDES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: EPN, Malathion, and Parathion, 5012.

EBE100 CAS: 68401-82-1 HR: 1
EPOCELIN

mf: C₁₃H₁₂N₅O₅S₂•Na mw: 405.41

SYNS: CEFTIZOXIME SODIUM □ CEFTIZOXIM-NATRIUM (GERMAN) □ FK 749 □ FR-13,479 □ SKF-88373

TOXICITY DATA with REFERENCE:

ipr-rat LD50:8130 mg/kg ARZNAD 30,1669,80
 ivn-rat LD50:5570 mg/kg ARZNAD 30,1669,80
 ipr-mus LD50:8930 mg/kg ARZNAD 30,1669,80
 ivn-mus LD50:5150 mg/kg YAKUD5 24,905,82

SAFETY PROFILE: Mildly toxic by intravenous and intraperitoneal routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and Na₂O.

EBF000 CAS: 63089-76-9 HR: 3
EPON 562

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD AMIHAB 17,129,58
 eye-rbt 100 mg SEV AMIHAB 17,129,58
 eye-rbt 750 µg/24H SEV 85JCAE -,1402,86
 orl-rat LD50:5000 mg/kg AMIHAB 17,129,58
 ipr-rat LD50:380 mg/kg AMIHAB 17,129,58
 orl-mus LD50:1870 mg/kg AMIHAB 17,129,58
 ipr-mus LD50:303 mg/kg AMIHAB 17,129,58
 orl-rbt LD50:4010 mg/kg AMIHAB 17,129,58
 skn-rbt LD50:14,400 mg/kg 38MKAJ 2A,2239,81

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

EBF200 CAS: 29407-84-9 HR: 2
EPON 815

mf: (C₁₅H₁₆O₂•C₇H₁₄O₂•C₃H₅ClO)_x

PROP: Light yellow liquid. D: 1.13.

TOXICITY DATA with REFERENCE:

orl-rat LD50:9 g/kg AMIHAB 17,129,58
 ipr-rat LD50:1070 mg/kg AMIHAB 17,129,58
 ipr-mus LD50:1600 mg/kg AMIHAB 17,129,58

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

EBF500 CAS: 25068-38-6 HR: 2
EPON 820

PROP: Clear liquid with slight odor. D: 9.6-9.8. Flash p: 390° F. (closed cup). Insol in water.

TOXICITY DATA with REFERENCE:

orl-rat LD50:13,600 mg/kg AMIHAB 17,129,58
 ipr-rat LD50:1400 mg/kg AMIHAB 17,129,58
 ipr-rat LD50:1780 mg/kg AMIHAB 17,129,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. A combustible liquid. See also EPOXY RESINS.

EBG000 CAS: 25068-38-6 HR: 2
EPON 1001

mf: (C₁₅H₁₆O₂•C₃H₅ClO)_x

PROP: Clear liquid. D: 1.13, Flash p: 173° F. Insol in water.

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MLD AMIHAB 17,129,58
 orl-rat LD50:30 g/kg AMIHAB 17,129,58
 ipr-rat LD50:2400 mg/kg AMIHAB 17,129,58
 orl-mus LD50:20 g/kg AMIHAB 17,129,58

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

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. An eye irritant. A combustible liquid. See also EPOXY RESINS.

EBG500 CAS: 25068-38-6 HR: 2
EPON 1007

mf: (C₁₅H₁₆O₂•C₃H₅ClO)_x

PROP: Clear liquid. D: 1.13, flash p: 173° F. Insol in water.

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MLD AMIHAB 17,129,58
 orl-rat LD50:30 g/kg AMIHAB 17,129,58
 ipr-rat LD50:2200 mg/kg AMIHAB 17,129,58
 orl-mus LD50:20 g/kg AMIHAB 17,129,58

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

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. An eye irritant. A combustible liquid. See also EPOXY RESINS.

**EBH400 CAS: 80471-63-2 HR: 2
EPOSTANE**

mf: C₂₂H₃₁NO₃ mw: 357.54

PROP: Crystals from DMF (aq). Mp: 191–194°.

SYNS: ANDROST-2-ENE-2-CARBONITRILE, 3,17-DIHYDROXY-4,17-DIMETHYL-4,5-EPOXY-, (4- α -5- α -17- β)- \square (4- α -5- α -17- β)-4,5-EPOXY-3,17-DIHYDROXY-4,17-DIMETHYLANDROST-2-ENE-2-CARBONITRILE \square WIN 32729

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:96 mg/kg CCPTAY 35,111,87

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

**EBH420 CAS: 55838-67-0 HR: 1
EPOXIDE 7**

SYN: EP 587

TOXICITY DATA with REFERENCE:

orl-rat LD50:9400 mg/kg 38MKAJ 2A,2209,81

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

**EBH430 CAS: 39390-62-0 HR: 1
EPOXIDE 8**

TOXICITY DATA with REFERENCE:

orl-rat LD50:17,100 mg/kg 38MKAJ 2A,2209,81

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

**EBH500 CAS: 31305-88-1 HR: 2
EPOXIDE ERLA-0510**

mf: (C₁₅H₁₉NO₄)_x

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 7/14/71

orl-rat LD50:1300 mg/kg UCDS** 7/14/71

skn-rbt LD50:640 mg/kg UCDS** 7/14/71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin irritant.

**EBH525 HR: D
EPOXIDIZED SOYBEAN OIL**

PROP: Iodine number maximum of 6, oxirane oxygen minimum of 6.0 percent.

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

**EBH850 HR: 2
(E)-1- α -2- α -EPOXYBENZ(c)ACRIDINE-3- α -4- β -DIOL**

mf: C₁₇H₉NO₃ mw: 275.27

SYN: BENZ(c)ACRIDINE 3,4-DIOL-1,2-EPOXIDE-2

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

**EBH875 HR: 2
(Z)-1- β ,2- β -EPOXYBENZ(c)ACRIDINE-3- α -4- β -DIOL**

mf: C₁₇H₉NO₃ mw: 275.27

SYN: BENZ(c)ACRIDINE 3,4-DIOL-1,2-EPOXIDE-1

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

**EBH900 CAS: 115362-13-5 HR: D
(2R,3R)-(+)-2,3-EPOXY-3-(4-BROMOPHENYL)-1-PROPANOL**

mf: C₉H₉BrO₂ mw: 229.09

SYNS: 3-(4-BROMOPHENYL)OXIRANEMETHANOL (2R-trans)-

\square OXIRANEMETHANOL, 3-(4-BROMOPHENYL)-, (2R-trans)-

TOXICITY DATA with REFERENCE:

sce-ham-lng 625 μ mol/L MUREAV 278,289,92

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

**EBH890 CAS: 105427-02-9 HR: D
2,3-EPOXY-N-BENZYLPROPANAMIDE**

mf: C₁₀H₁₁NO₂ mw: 177.22

SYNS: PROPIONAMIDE, N-BENZYL-2,3-EPOXY- \square OXIRANECARBOXAMIDE, N-(PHENYLMETHYL)-

TOXICITY DATA with REFERENCE:

mic-sat 100 μ Lg/plate MUREAV 172,29,1986

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

**EBH905 CAS: 106948-05-4 HR: D
(2S,3S)-(-)-2,3-EPOXY-3-(4-BROMOPHENYL)-1-PROPANOL**

mf: C₉H₉BrO₂ mw: 229.09

SYNS: 3-(4-BROMOPHENYL)OXIRANEMETHANOL (2S-trans)-

\square OXIRANEMETHANOL, 3-(4-BROMOPHENYL)-, (2S-trans)-

TOXICITY DATA with REFERENCE:

sce-ham-lng 625 μ mol/L MUREAV 278,289,92

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

**EBJ100 CAS: 3266-23-7 HR: D
2,3-EPOXYBUTANE**

mf: C₄H₈O mw: 72.12

SYNS: 2-BUTENE EXPOXIDE \square 2-BUTENE OXIDE \square β -

BUTYLENE OXIDE \square 2,3-BUTYLENE OXIDE \square 2,3-

DIMETHYLOXIRANE \square 2,3-EPOXYBUTANE \square OXIRANE, 2,3-

DIMETHYL-(9CI) \square β -OXYBUTENE

TOXICITY DATA with REFERENCE:

mmo-sat 5 µmol/plate JJATDK 2,282,82

mmo-klp 20 µmol/L MUREAV 89,269,81

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**EBJ200 CAS: 1758-33-4 HR: D**
cis-2,3-EPOXYBUTANEmf: C₄H₈O mw: 72.12**PROP:** Pale yellow liquid.**SYNS:** BUTANE, 2,3-EPOXY-, cis- □ cis-2-BUTENE EPOXIDE □ cis-2-BUTENE OXIDE □ cis-2-BUTYLENE OXIDE □ cis-2,3-DIMETHYLOXIRANE □ meso-2,3-EPOXYBUTANE □ OXIRANE, 2,3-DIMETHYL-, cis-, (9CI)**TOXICITY DATA with REFERENCE:**

mmo-sat 100 µmol/plate MUREAV 231,205,90

sce-ham:lng 12,500 mol/L MUREAV 249,55,91

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**EBJ500 CAS: 930-22-3 HR: 3**
3,4-EPOXY-1-BUTENEmf: C₄H₆O mw: 70.10**PROP:** Liquid. Mp: -135°, bp: 67°, flash p: <-58°F (CC), d: 0.869, autoign temp: 806°F, vap d: 2.41.**SYNS:** BUTADIENE MONOEPPOXIDE □ BUTADIENE MONOXIDE □ 1,2-EPOXYBUTENE-3 □ VINYLOXIRANE**TOXICITY DATA with REFERENCE:**

mmo-sat 1 µmol/plate BBRCA9 80,298,78

mma-sat 100 µmol/plate MUREAV 97,204,82

mmo-esc 20 µmol/L ARTODN 46,277,80

dnd-esc 1 µmol/L ARTODN 46,277,80

mmo-klp 1 µmol/L MUREAV 89,269,81

ipr-rat LD50:168 mg/kg TXAPA9 52,422,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by intraperitoneal route. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. A very dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO₂, dry chemical, water spray. When heated to decomposition it emits acrid smoke and fumes.**EBJ600 CAS: 141782-32-3 HR: D**
(2R,3R)-(+)-(2,3-EPOXYBUTYLESTER)-4-NITROBENZOATEmf: C₁₁H₁₁NO₅ mw: 237.23**SYNS:** 3-METHYLOXIRANEMETHANOL 4-NITROBENZOATE (2R-trans)- □ OXIRANEMETHANOL, 3-METHYL-, 4-NITROBENZOATE, (2R-trans)-**TOXICITY DATA with REFERENCE:**

sce-ham:lng 625 µmol/L MUREAV 278,289,92

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**EBJ700 CAS: 106268-97-7 HR: D**
(2S,3S)-(-)-(2,3-EPOXYBUTYLESTER)-4-**NITROBENZOATE**mf: C₁₁H₁₁NO₅ mw: 237.23**SYNS:** 3-METHYLOXIRANEMETHANOL 4-NITROBENZOATE (2S-trans)- □ OXIRANEMETHANOL, 3-METHYL-, 4-NITROBENZOATE, (2S-trans)-**TOXICITY DATA with REFERENCE:**

sce-ham:lng 312 µmol/L MUREAV 278,289,92

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**EBK000 CAS: 10138-34-8 HR: 2**
2,3-EPOXYBUTYRIC ACID BUTYL ESTERmf: C₈H₁₄O₃ mw: 158.22**TOXICITY DATA with REFERENCE:**

orl-rat LD50:500 mg/kg AIHAAP 23,95,62

skn-rbt LD50:2830 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits acrid smoke and fumes. See also EPOXY RESINS and ESTERS.**EBK500 CAS: 6509-08-6 HR: 2**
1,2-EPOXYBUTYRONITRILEmf: C₄H₅NO mw: 83.10**SYN:** 3,4-EPOXYBUTYRONITRILE**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.**EBL000 CAS: 124-98-1 HR: 3**
4,9-EPOXYCEVANE-3-α,4-β,12,14,16-β,17,20-HEPTOLmf: C₂₇H₄₃NO₈ mw: 509.71**PROP:** A solid. Mp: 172-176° (decomp) (anhyd), mp: 110° (hydrate). An alkaline isolated from *Veratrum album* (JPETAB 82,167,44).**SYNS:** CEVIN □ CEVINE □ SABADININE**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:67 mg/kg JPETAB 82,167,44

scu-mus LD50:160 mg/kg JPETAB 113,89,55

ivn-mus LD50:87 mg/kg JPETAB 82,167,44

SAFETY PROFILE: Poison by intraperitoneal, intravenous, and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x.**EBL500 CAS: 508-65-6 HR: 3**
4,9-EPOXYCEVANE-3-β,4-β,7-α,14,15-α,16-β,20-HEPTOLmf: C₂₇H₄₃NO₈ mw: 509.71**PROP:** A solid. Mp: 219-220°. An alkaline isolated from *Veratrum album* (JPETAB 82,167,44).**SYNS:** GERMIN □ GERMINE**TOXICITY DATA with REFERENCE:**

scu-rat LDLo:2000 mg/kg AEPPAE 189,397,38

ivn-mus LD50:139 mg/kg JPETAB 82,167,44

scu-frg LDLo:250 mg/kg AEPPAE 189,397,38

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

EBM000 CAS: 1250-95-9 HR: 2
EPOXYCHOLESTEROL

mf: C₂₇H₄₆O₂ mw: 402.73

SYNS: CHOLESTEROL-α-EPOXIDE □ CHOLESTEROL-5-α,6-α-EPOXIDE □ CHOLESTEROL OXIDE □ CHOLESTEROL-α-OXIDE □ 5-α,6-α-EPOXYCHOLESTANOL □ 5,6-α-EPOXY-5-α-CHOLESTAN-3-β-OL

TOXICITY DATA with REFERENCE:

dns-hmn:fbr 10 mg/L/4H AJEBAK 56,287,78

cyt-hmn:fbr 500 µg/L/4H AJEBAK 56,287,78

otr-ham:emb 625 µg/L CALEDQ 6,143,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

EBM100 CAS: 141-40-2 HR: 2
3,4-EPOXYCYCLOHEXANE-CARBONITRILE

mf: C₇H₉NO mw: 123.17

SYNS: CYCLOHEXANECARBONITRILE, 3,4-EPOXY- □ 7-OXABICYCLO(4.1.0)HEPTANE-3-CARBONITRILE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H MLD open AIHAAP 23,95,1962

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

EBO000 CAS: 3388-04-3 HR: 2
EPOXYCYCLOHEXYLETHYL TRIMETHOXY SILANE

mf: C₁₁H₂₂O₄Si mw: 246.42

PROP: A solid. D: 1.06, mp: 163°, bp: 310°.

SYNS: β-(3,4-

EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY-SILANE □ SILANE Y-4086 □ SILICONE A-186 □ UNION CARBIDE A-186

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 1/17/72

orl-rat LD50:12,300 mg/kg AIHAAP 30,470,69

skn-rbt LD50:6300 mg/kg UCDS** 2/11/64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EBO050 CAS: 2386-87-0 HR: 3
3,4-EPOXYCYCLOHEXYLMETHYL 3,4-EPOXY-CYCLOHEXANE CARBOXYLATE

mf: C₁₄H₂₀O₄ mw: 252.34

PROP: Epoxy resin.

SYNS: ERL-4221 □ 7-OXABICYCLO(4.1.0)HEPTANE-3-CARBOXYLIC ACID, 7-OXABICYCLO(4.1.0)HEPT-3-YLMETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:4490 mg/kg AIHAAP 24,305,63

skn-rbt LD50:20 mg/kg 38MKAJ 2A,2242,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EBO100 CAS: 285-67-6 HR: D
1,2-EPOXYCYCLOPENTANE

mf: C₅H₈O mw: 84.13

PROP: Colorless liquid. Bp: 102°. Flammable.

SYNS: CYCLOPENTANE EPOXIDE □ CYCLOPENTANE, 1,2-EPOXY- □ CYCLOPENTANE OXIDE □ CYCLOPENTANEOXIDE □ 6-OXABICYCLO(3.1.0)HEXANE

TOXICITY DATA with REFERENCE:

mno-sat 15 µmol/plate MUREAV 90,67,81

mno-klp 2 mmol/L MUREAV 89,269,81

sce-ham:lng 40 mmol/L MUREAV 249,55,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EBO990 CAS: 130933-92-5 HR: D
9,10-EPOXY-9,10-DIHYDROBENZ(j)ACEANTHRYLENE

mf: C₂₀H₁₂O mw: 268.32

SYNS: BENZ(j)ACEANTHRYLENE-9,10-OXIDE □ 1A,11-DIHYDROINDENO(7,1':6,7,8)PHENANTHRO(1,2-b)OXIRENE □ INDENO(7,1':6,7,8)PHENANTHRO(1,2-b)OXIRENE,1A,11-DIHYDRO-

TOXICITY DATA with REFERENCE:

mic-sat 5 µLg/plate JMCMA 34,546,1991

mor-mus-emb 2500 µg/L CNREA8 51,6163,1991

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

EBP000 CAS: 962-32-3 HR: 2
5,6-EPOXY-5,6-DIHYDROBENZ(a)ANTHRACENE

mf: C₁₈H₁₂O mw: 244.30

SYNS: BENZ(a)ANTHRACENE-5,6-OXIDE □ BENZ(a)ANTHRACENE-5,6-OXIDE □ BENZO(a)ANTHRACENE-5,6-OXIDE □ 1a,11b-DIHYDROBENZ(3,4)ANTHRA(1,2-b)OXIRENE □ 3,4-DIHYDRO-3,4-EPOXY-1,2-BENZANTHRACENE

TOXICITY DATA with REFERENCE:

mno-sat 3 µg/plate IJCNAW 16,787,75

mma-sat 450 nmol/L BBRC9 66,693,75

dni-omi 200 µg/L PNASA6 74,1378,77

sln-dmg-par 5 mmol/L CNREA8 33,2354,73

dns-hmn:fbr 10 µmol/L/3H IJCNAW 16,284,75

otr-mus:fbr 500 µg/L CNREA8 32,716,73

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

EBP500 CAS: 1421-85-8 HR: 2

5,6-EPOXY-5,6-DIHYDRODIBENZ(a,h)-ANTHRACENEmf: C₂₂H₁₄O mw: 294.36**SYNS:** DBA-5,6-EPOXIDE □ DIBENZ(a,h)ANTHRACENE-5,6-OXIDE □ 5,6-DIHYDRO-5,6-EPOXYDIBENZ(a,h)ANTHRACENE**TOXICITY DATA with REFERENCE:**

mmo-sat 300 ng/plate IJCNaw 16,787,75

mma-sat 5 µg/plate PNASa6 72,5135,75

dns-hmn:hla 1 µmol/L CNREA8 38,2621,78

otr-mus:fbr 500 µg/L CNREA8 32,716,72

dnd-ham:lng 1 mg/L CBINA8 4,389,71/72

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. Human mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**EBQ500 CAS: 6921-35-3 HR: 2
1,3-EPOXY-2,2-DIMETHYLPROPANE**mf: C₅H₁₀O mw: 86.15**PROP:** Bp: 80–81°.**SYNS:** 3,3-DIMETHYLOXETANE □ β,β-DIMETHYL-TRIMETHYLENE OXIDE □ 3,3-DIMETHYLTRIMETHYLENE OXIDE**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:2000 mg/kg JMPCAS 1,355,59

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.**EBQ550 CAS: 39597-90-5 HR: 3
endo-2,3-EPOXY-7,8-DIOXABICYCLO(2.2.2)-OCT-5-ONE**mf: C₆H₆O₃ mw: 126.11**SYN:** OXEPIN-3,6-ENDOPEROXIDE**SAFETY PROFILE:** An unstable explosive. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES and EXPLOSIVES.**EBQ700 CAS: 4016-11-9 HR: 3
1,2-EPOXY-3-ETHOXYPROPANE****DOT:** UN 2752mf: C₅H₁₀O₂ mw: 102.15**PROP:** Bp: 160–163° @ 14-15 mm.**SYNS:** (ETHOXYMETHYL)OXIRANE □ ETHYL GLYCIDYL ETHER □ OXIRANE, (ETHOXYMETHYL)-(9CI) □ PROPANE, 1,2-EPOXY-3-ETHOXY-**TOXICITY DATA with REFERENCE:**

mmo-sat 8 mmol/L CBINA8 45,153,83

mmo-klp 500 µmol/L MUREAV 89,269,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Mutation data reported. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**EBR000 CAS: 96-09-3 HR: 3
1,2-EPOXYETHYLBENZENE**mf: C₈H₈O mw: 120.16**PROP:** Colorless liquid. Bp: 194.2°, flash p: 165°F (OC), fp: –36.7°, d: 1.0469 @ 25°/4°, vap d: 4.14.**SYNS:** EPOXYETHYLBENZENE (8CI) □ EPOXYSTYRENE □ α,β-EPOXYSTYRENE □ NCI-C54977 □ PHENETHYLENE OXIDE □ 1-PHENYL-1,2-EPOXYETHANE □ PHENYL-ETHYLENE OXIDE □ PHENYLOXIRANE □ 1-PHENYLOXIRANE □ 2-PHENYLOXIRANE □ STYRENE EPOXIDE □ STYRENE OXIDE □ STYRENE-7,8-OXIDE □ STYRYL OXIDE**TOXICITY DATA with REFERENCE:**

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

skn-rbt 500 mg open MOD UCDS** 7/21/71

eye-rbt 500 mg open AMIHBC 10,61,54

dni-hmn:hla 4400 µmol/L MUREAV 93,447,82

oms-mus:fbr 1 µmol/L CRNGDP 6,1367,85

orl-rat TDLo:65 g/kg/52-I:CAR tumors ANYAA9 534,203,88

orl-rat LD50:2000 mg/kg NTIS** PB81-168510

ihl-rat LCLo:500 ppm/4H AMIHBC 10,61,54

ipr-rat LD50:460 mg/kg TXAPA9 18,321,71

orl-mus LD50:1500 mg/kg JJIND8 77,471,86

skn-rbt LD50:1060 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2A IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 36,245,85; Human No Adequate Data IMEMDT 36,245,85. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Confirmed carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Moderately toxic by ingestion, inhalation, skin contact, and intraperitoneal routes. Experimental reproductive effects. Human mutation data reported. A skin and eye irritant. Flammable when exposed to heat, flame, or oxidizers; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes.**EBR500 CAS: 13484-13-4 HR: 2
2-(α,β-EPOXYETHYL)-5,6-EPOXYBENZENE**mf: C₈H₆O₂ mw: 134.14**SYN:** 2-(1,2-EPOXYETHYL)-5,6-EPOXYBENZENE**TOXICITY DATA with REFERENCE:**

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

orl-rat LDLo:2830 mg/kg AIHAAP 23,95,62

skn-rbt LD50:620 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A severe skin irritant. When heated to decomposition it emits acrid smoke and fumes.**EBT000 CAS: 1855-36-3 HR: D
4-(EPOXYETHYL)-1,2-XYLENE**mf: C₁₀H₁₂O mw: 148.22**SYNS:** (3,4-DIMETHYLPHENYL)OXIRENE □ 3,4-DIMETHYLSTYRENE OXIDE**TOXICITY DATA with REFERENCE:**

mmo-sat 100 nmol/L MUREAV 189,189,87

mmo-sat 20 nmol/plate CRSBAW 171,1041,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

EBT500 CAS: 53940-49-1 HR: D**2',3'-EPOXYEUGENOL**mf: C₁₀H₁₂O₃ mw: 180.22

SYNS: 4-(2,3-EPOXYPROPYL)-2-METHOXYPHENOL □ EUGENOL OXIDE □ EUGENO-2',3'-OXIDE □ p-HYDROXY-m-METHOXYPHENYLPROPYLENE OXIDE □ PHENOL, 2-METHOXY-4-(OXIRANYLMETHYL)-

TOXICITY DATA with REFERENCE:

mma-sat 20 nmol/plate CRSBAW 171,1041,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EBU000 CAS: 503-09-3 HR: 3**1,2-EPOXY-3-FLUOROPROPANE**mf: C₃H₅FO mw: 76.08**SYN:** EPIFLUOROHYDRIN**TOXICITY DATA with REFERENCE:**

mmo-esc 20 µmol/L ARTODN 46,277,80

mmo-klp 200 µmol/L MUREAV 89,269,81

mma-sat 500 µg/plate MUREAV 58,217,78

ihl-rat LCLo:111 mg/m³ NDRC** -12,43

ivn-mus LD50:178 mg/kg CSLNX* NX#00407

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

EBU100 CAS: 68071-23-8 HR: 1**EPOXYGUAIENE**mf: C₁₅H₂₄O mw: 220.39**PROP:** Fragrance and flavor.

SYNS: AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7-(1-METHYLETHYLIDENE)-, MONOEPOXIDE □ 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7-(1-METHYLETHYLIDENE)-AZULENEMONOEPOXIDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTOD7 21,851,83

orl-rat LD50:>5 g/kg FCTOD7 21,851,83

skn-rbt LD50:>5 g/kg FCTOD7 21,851,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EBU500 HR: 2**EPOXY HARDENER ZZL-0814****SYN:** □ ZZL-0814**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 10/1/71

eye-rbt 15 mg SEV UCDS** 10/1/71

orl-rat LD50:3250 mg/kg UCDS** 10/1/71

skn-rbt LD50:2500 mg/kg UCDS** 10/1/71

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and severe eye irritant.

EBV000 HR: 2**EPOXY HARDENER ZZL-0816****SYN:** ZZL-0816**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 10/1/71

orl-rat LD50:4920 mg/kg UCDS** 10/1/71

skn-rbt LD50:2520 mg/kg UCDS** 10/1/71

SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. A skin irritant.

EBV100 CAS: 69136-21-6 HR: 2**EPOXY HARDENER ZZL-0822**mf: C₁₀H₂₄N₂O₃ mw: 220.36

SYNS: (OXYBIS(2,1-ETHANEDIYLOXY))BIS-PROPANAMINE □ POLYGLYCOLDIAMINE H 221 □ ZZL-0822

TOXICITY DATA with REFERENCE:

skn-rbt 50 mg open MOD UCDS** 9/15/65

eye-rbt 5 mg SEV UCDS** 9/15/65

orl-rat LD50:4290 mg/kg UCDS** 9/15-65

skn-rbt LD50:2500 mg/kg UCDS** 9/15/65

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

EBV500 HR: 2**EPOXY HARDENER ZZL-0854****SYN:** ZZL-0854**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 3/7/72

eye-rbt 15 mg SEV UCDS** 3/7/72

orl-rat LD50:2460 mg/kg UCDS** 3/7/72

skn-rbt LD50:5040 mg/kg UCDS** 3/7/72

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. A skin and severe eye irritant.

EBW000 CAS: 42498-58-8 HR: 2**EPOXY HARDENER ZZLA-0334**mf: C₉H₁₀O₃ mw: 166.19

SYNS: 3a,4,7,7a-TETRAHYDRO-3a-METHYL-1,3-ISOBENZO-FURANDIONE □ ZZLA-0334

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 6/22/66

eye-rbt 1 mg SEV UCDS** 6/22/66

orl-rat LD50:2460 mg/kg UCDS** 6/22/66

skn-rbt LD50:1590 mg/kg UCDS** 6/22/66

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and severe eye irritant.

EBW500 CAS: 1024-57-3 HR: 3**EPOXYHEPTACHLOR**mf: C₁₀H₅Cl₇O mw: 389.30**SYNS:** ENT 25,584 □ HCE □ HEPTACHLOR EPOXIDE (USDA)

□ 1,4,5,6,7,8-HEPTACHLORO-2,3-EPOXY-2,3,3a,4,7,7a-

HEXAHYDRO-4,7-METHANOINDENE □ 1,4,5,6,7,8,8-

HEPTACHLORO-2,3-EPOXY-3a,4,7,7a-TETRAHYDRO-4,7-

METHANOINDAN □ 2,3,4,5,6,7,7-HEPTACHLORO-1a,1b,5,5a,6,6a-

HEXAHYDRO-2,5-METHANO-2H-INDENO(1,2-b)OXIRENE □

VELSICOL 53-CS-17

TOXICITY DATA with REFERENCE:

mma-hmn:fbr 10 µmol/L MUREAV 42,161,77

orl-rat LD50:15 mg/kg GISAAA 52(2),93,87

orl-mus LD50:39 mg/kg ARSIM* 20,27,66

ivn-mus LDLo:10 mg/kg JPETAB 107,266,53

CONSENSUS REPORTS: IARC Cancer Review:

Human Inadequate Evidence IMEMDT 20,129,79;

Animal Inadequate Evidence IMEMDT 5,173,74; Animal

Limited Evidence IMEMDT 20,129,79. EPA Genetic Toxicology Program.

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

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Poison by ingestion and intravenous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻. See also HEPTACHLOR.

EBX500 CAS: 7320-37-8 HR: 2
1,2-EPOXYHEXADECANE

mf: C₁₆H₃₂O mw: 240.48

SYNS: HEXADECENE EPOXIDE □ NCI-C55538

TOXICITY DATA with REFERENCE:

mic-mus:lym 24 mg/L EMMUEG 12,85,88

msc-mus:lym 18 mg/L EMMUEG 12,85,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EBY100 CAS: 71507-79-4 HR: D
4-α,5-α-EPOXY-17-β-HYDROXY-4,17-DIMETHYL-3-OXOANDROSTANE-2-α-CARBONITRILE

mf: C₂₁H₃₁NO₃ mw: 345.53

SYN: WIN 32729

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

SAFETY PROFILE: Experimental reproductive effects. A steroid. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

EBY500 CAS: 37764-28-6 HR: 3
4,5-α-EPOXY-3-HYDROXY-17-METHYLMORPHINAN-6-ONE-N-OXIDE TARTRATE

mf: C₁₇H₁₉NO₄ mw: 301.37

SYNS: A/VI □ DIHYDROMORPHINON-N-OXYD-DITARTARAT (GERMAN)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:2000 mg/kg ARZNAD 7,594,57

ivn-rbt LD50:160 mg/kg ARZNAD 7,594,57

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

EBY550 CAS: 152375-23-0 HR: D
2,3-EPOXY-4-HYDROXYNONANAL

mf: C₉H₁₆O₃ mw: 172.25

SYNS: 3-(1-HYDROXYHEXYL)OXIRANECARBOXALDEHYDE (2-α-3-α(R*)) □ OXIRANECARBOXALDEHYDE, 3-(1-HYDROXYHEXYL)-, (2-α-3-α(R*))

TOXICITY DATA with REFERENCE:

mic-bac-sat 25 nmol/plate CRNGDP 14,2073,93

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

EBY600 CAS: 13647-35-3 HR: 3
4-α-5-EPOXY-17-β-HYDROXY-3-OXO-5-α-ANDROSTANE-2-α-CARBONITRILE

mf: C₂₀H₂₇NO₃ mw: 329.48

PROP: A solid. Mp: 258–270° (decomp).

SYNS: 5-α-ANDROSTANE-2-α-CARBONITRILE, 4-α-5-EPOXY-17-β-HYDROXY-3-OXO- □ ANDROSTANE-2-CARBONITRILE, 4,5-EPOXY-17-HYDROXY-3-OXO-, (2-α-4-α-5-α-17-β)- □ (2-α-4-α-5-α-17-β)-4,5-EPOXY-17-HYDROXY-3-OXOANDROSTANE-2-CARBONITRILE □ MODRENAL □ TRILOSTANE □ WIN 24450

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1275 mg/kg IYKEDH 17,365,86

scu-rat LD50:7050 mg/kg IYKEDH 17,365,86

ivn-rat LD50:102 mg/kg IYKEDH 17,365,86

ipr-mus LD50:1552 mg/kg IYKEDH 17,365,86

ivn-mus LD50:109 mg/kg IYKEDH 17,365,86

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

ECA000 CAS: 4247-30-7 HR: 2
4,5-EPOXY-3-HYDROXYVALERIC ACID-β-LACTONE

mf: C₅H₆O₃ mw: 114.11

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

ECA100 CAS: 6251-69-0 HR: D
11,13-(EPOXYMETHANO)-13H-CYCLOPENTAN(A)PHENANTHRENE, PREGN-4-ENE-3,20-DERIV.

mf: C₂₁H₂₈O₅ mw: 360.49

SYNS: ALDOSTERONE □ 11-β,21-DIHYDROXY-3,20-DIOXOPREGN-4-EN-18-AL □ 3,20-DIKETO-11-β,18-OXIDO-4-PREGNENE-18,21-DIOL □ PREGN-4-ENE-3,20-DIONE, 11,18-EPOXY-10,21-DIHYDROXY-, (11β)- □ 11-β-18-EPOXY-18,21-DIHYDROXYREGN-4-ENE-3,20-DIONE □ PREGN-4-ENE-3,20-DIONE, 11-β,18-EPOXY-18,21-DIHYDROXY- □ PREGN-4-ENE-3,20-DIONE, 11,18-EPOXY-18,21-DIHYDROXY-, (11β)- □ PREGN-4-ENE-3,20-DIONE, 11β,18-EPOXY-18,21-DIHYDROXY-

TOXICITY DATA with REFERENCE:

add-hmn-lvr 2 mmol/L MUREAV 370,49,1996

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

ECA200 CAS: 105427-00-7 HR: D
2,3-EPOXY-2-METHYL-N-BENZYLPROPANAMIDE

mf: C₁₁H₁₃NO₂ mw: 191.25

SYNS: PROPIONAMIDE, N-BENZYL-2,3-EPOXY-2-METHYL- □ OXIRANECARBOXAMIDE, 2-METHYL-N-(PHENYLMETHYL)-

TOXICITY DATA with REFERENCE:

mic-sat 1 mg/plate MUREAV 172,29,1986

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

ECA500 CAS: 67195-51-1 HR: 2
11,12-EPOXY-3-METHYLCHOLANTHRENE

mf: C₂₁H₄₀O mw: 282.35

SYNS: MCA-11,12-EPOXIDE □ MCA-11,12-OXIDE □ 3-METHYLCHOLANTHRENE-11,12-EPOXIDE □ 3-METHYL-11,12-EPOXYCHOLANTHRENE

TOXICITY DATA with REFERENCE:

mmo-sat 50 µg/plate CNREA8 45,2600,85
pic-omi 23,400 nmol/L NNBYA7 234,186,71
otr-mus:fbr 750 µg/L CNREA8 32,716,72
msc-ham:lng 5 mmol/L PNASA6 68,3195,71

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

ECB000 CAS: 141-37-7 HR: 2
3,4-EPOXY-6-METHYLCYCLOHEXYLMETHYL-3',4'-EPOXY-6'-METHYLCYCLOHEXANE CARBOXYLATE

mf: C₁₆H₂₄O₄ mw: 280.40

SYNS: CHISSONOX 201 □ EP 201 □ EPOXIDE-201 □ 3,4-EPOXY-6-METHYLCYCLOHEXENECARBOXYLIC ACID (3,4-EPOXY-6-METHYLCYCLOHEXYLMETHYL) ESTER □ 3,4-EPOXY-6-METHYLCYCLOHEXYLMETHYL-3,4-EPOXY-6-METHYLCYCLOHEXANECARBOXYLATE □ 4,5-EPOXY-2-METHYLCYCLOHEXYLMETHYL-4,5-EPOXY-2-METHYLCYCLOHEXANECARBOXYLATE □ 6-METHYL-3,4-EPOXY-CYCLOHEXYLMETHYL-6-METHYL-3,4-EPOXYCYCLOHEXANE CARBOXYLATE □ UNOX 201 □ UNOX EPOXIDE 201

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62
orl-rat LD50:4920 mg/kg UCDS** 6/8/65

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 11,147,76.

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

ECB200 CAS: 29804-22-6 HR: 2
cis-7,8-EPOXY-2-METHYLOCTADECANE

mf: C₁₉H₃₈O mw: 282.57

SYNS: A13-34886 □ ATRALYMON □ cis-2-DECYL-3-(5-METHYLHEXYL)OXIRANE □ DISPARLURE □ DISRUPT □ ENT 34,886 □ OCTADECANE, 7,8-EPOXY-2-METHYL-, cis-(8CI) □ OXIRANE, 2-DECYL-3-(5-METHYLHEXYL)-, cis-

TOXICITY DATA with REFERENCE:

orl-rat LD50:>34,600 mg/kg TXAPA9 31,421,75
ihl-rat LC50:>5000 mg/m³ TXAPA9 31,421,75
skn-rbt LD50:>2025 mg/kg TXAPA9 31,421,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ECC600 CAS: 1192-22-9 HR: 2
2,3-EPOXY-2-METHYLPENTANE

mf: C₆H₁₂O mw: 100.18

SYN: 2-METHYL-2,3-PENTYLENE OXIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3500 mg/kg GTPZAB 25(11),51,81
ihl-rat LC50:16,400 mg/m³ GTPZAB 25(11),51,81

ipr-rat LD50:1600 mg/kg GTPZAB 25(11),51,81
orl-mus LD50:3400 mg/kg GTPZAB 25(11),51,81
ihl-mus LC50:13,800 mg/m³ GTPZAB 25(11),51,81

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

ECC650 CAS: 105427-01-8 HR: D
2,3-EPOXY-2-METHYLPROPANANILIDE

mf: C₁₀H₁₁NO₂ mw: 177.22

SYNS: PROPIONANILIDE, 2,3-EPOXY-2-METHYL- □ OXIRANECARBOXAMIDE, 2-METHYL-N-PHENYL-

TOXICITY DATA with REFERENCE:

mic-sat 1 mg/plate MUREAV 172,29,1986

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

ECC700 CAS: 106268-96-6 HR: D
(2R)-(-)-(2,3-EPOXY-2-METHYLPROPYLESTER)-4-NITROBENZOATE

mf: C₁₁H₁₁NO₅ mw: 237.23

SYNS: 3-METHYLOXIRANEMETHANOL 4-NITROBENZOATE (R)- □ OXIRANEMETHANOL, 3-METHYL-, 4-NITRO-BENZOATE, (R)-

TOXICITY DATA with REFERENCE:

sce-ham-lng 40 µmol/L MUREAV 278,289,92

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

ECC702 CAS: 118200-96-7 HR: D
(2S)-(+)-(2,3-EPOXY-2-METHYLPROPYL-ESTER)-4-NITROBENZOATE

mf: C₁₁H₁₁NO₅ mw: 237.23

SYNS: 2-METHYLOXIRANEMETHANOL 4-NITROBENZOATE (2S)- □ OXIRANEMETHANOL, 2-METHYL-, 4-NITRO-BENZOATE, (2S)-

TOXICITY DATA with REFERENCE:

sce-ham-lng 80 µmol/L MUREAV 278,289,92

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

ECC750 CAS: 39360-54-8 HR: 2
438 EPOXY NOVOLAC RESIN

SYN: DER 438

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/24H MOD NTIS** OTS0529959

orl-rat LD :>2 g/kg NTIS** OTS0529961

skn-rat LD :>2 g/kg NTIS** OTS0529963

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

ECD500 CAS: 2443-39-2 HR: 2
cis-9,10-EPOXYOCTADECANOIC ACID

mf: C₁₈H₃₄O₃ mw: 298.52

SYNS: cis-9,10-EPOXYOCTADECANOATE □ EPOXYOLEIC ACID □ 9,10-EPOXYSTEARIC ACID □ cis-9,10-EPOXYSTEARIC ACID □ cis-3-OCTYL-OXIRANEOCTANOIC ACID

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 11,153,76.

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

**ECE000 CAS: 2984-50-1 HR: 2
1,2-EPOXYOCTANE**

mf: C₈H₁₆O mw: 128.24

SYN: OCTYLENE EPOXIDE

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

**ECE500 CAS: 17397-89-6 HR: 3
2,3-EPOXY-4-OXO-7,10-DODECADIENAMIDE**

mf: C₁₂H₁₇NO₃ mw: 223.30

PROP: Needles from CCl₄ or C₆H₆. Mp: 93°, bp: 120° @ 0.00001.

SYNS: CERULENIN □ (2R,3S)-2,3-EPOXY-4-OXO-7E,10E-DODECADIENAMIDE □ (2S)(3R)-2,3-EPOXY-4-OXO-7,10-DODECADIENONYLAMIDE □ HELICOCERIN □ (2R-(2-α,3-α(4E,7E)))3-(1-OXO-4,7-NONADIENYL)OXIRANE-CARBOXAMIDE □ 3-(1-OXO-4,7-NONADIENYL)OXIRANE-CARBOXAMIDE

TOXICITY DATA with REFERENCE:

mno-omi 2 mg/L JOBAAY 133,472,78

orl-mus LD50:547 mg/kg JAJAAA 17,1,64

ipr-mus LD50:211 mg/kg JAJAAA 17,1,64

scu-mus LD50:245 mg/kg 85ERAY 3,194,78

ivn-mus LD50:154 mg/kg JAJAAA 17,1,64

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

**ECE525 CAS: 1003-14-1 HR: D
1,2-EPOXPENTANE**

mf: C₅H₁₀O mw: 86.15

PROP: Colourless liquid. Bp: 89–90° at 750 mm Hg, d: 0.83.

SYNS: PENTANE, 1,2-EPOXY- □ PROPYLOXIRANE

TOXICITY DATA with REFERENCE:

mno-klp 1 mmol/L MUREAV 89,269,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**ECE550 CAS: 64011-46-7 HR: 3
4,5-EPOXY-2-PENTENAL**

mf: C₅H₆O₂ mw: 98.11

SYN: 2-PENTENAL, 4,5-EPOXY-

TOXICITY DATA with REFERENCE:

skn-rbt 2 mg/24H SEV 85JCAE -,771,86

eye-rbt 50 µg/24H SEV 85JCAE -,771,86

orl-rat LD50:62 mg/kg TXAPA9 28,313,74

ihl-rat LCLo:600 ppm/4H TXAPA9 28,313,74

skn-rbt LD50:40 mg/kg TXAPA9 28,313,74

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

**ECE600 CAS: 104196-23-8 HR: D
(2S,3S)-(-)-2,3-EPOXY-3-PHENYL-1-PROPANOL**

mf: C₉H₁₀O₂ mw: 150.19

SYNS: OXIRANEMETHANOL, 3-PHENYL-, (2S-trans)- □ (2S,3S)-PHENYLGLYCIDOL □ 3-PHENYLOXIRANEMETHANOL (2S-trans)-

TOXICITY DATA with REFERENCE:

sce-ham-lng 625 µmol/L MUREAV 278,289,92

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

**ECE650 CAS: 105427-03-0 HR: D
2,3-EPOXYPROPANANILIDE**

mf: C₉H₉NO₂ mw: 163.19

PROP: Colorless liquid. Bp: 35°.

SYNS: PROPIONANILIDE, 2,3-EPOXY- □ OXIRANECARBOXAMIDE, N-PHENYL-

TOXICITY DATA with REFERENCE:

mic-sat 100 µLg/plate MUREAV 172,29,1986

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

**ECE700 CAS: 16088-62-3 HR: D
S-EPOXYPROPANE**

mf: C₃H₆O mw: 58.09

SYNS: (-)-METHYLOXIRANE □ S-METHYLOXIRANE □ (S)-2-METHYLOXIRANE □ OXIRANE, METHYL-, (S)-(9CI) □ (-)-PROPYLENE OXIDE □ (S)-PROPYLENE OXIDE □ (S)-(-)-PROPYLENE OXIDE □ PROPYLENE OXIDE, (S)-(-)-

TOXICITY DATA with REFERENCE:

sce-ham-lng 5 mmol/L MUREAV 278,289,92

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

**ECE800 CAS: 76002-91-0 HR: D
2-(4-(2,3-EPOXYPROPANYLOXY)PHENYL)-2-(4-(2,3-DIHYDROXYPROPANYLOXY)PHENYL)-PROPANE**

mf: C₂₁H₂₆O₅ mw: 358.43

SYNS: DIOL EPOXIDE OF BADGE □ 1,2-PROPANEDIOL, 3-(4-(1-METHYL-1-(4-(OXIRANYLMETHOXY)PHENYL)ETHYL)-PHENOXY)-

TOXICITY DATA with REFERENCE:

mic-sat 500 µLg/plate/72H MUTAEX 16,303,2001

mic-sat 1000 µLg/plate/72H MUTAEX 16,303,2001

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

**ECG100 CAS: 67722-96-7 HR: 3
2,3-EPOXY PROPIONALDEHYDE OXIME**

mf: C₃H₅NO₂ mw: 87.08



SYN: OXIRANE CARBOXALDEHYDE OXIME

SAFETY PROFILE: Polymerization is violent or explosive. When heated to decomposition it emits toxic fumes of NO_x . See also ALDEHYDES.

ECG200 CAS: 4711-95-9 HR: 3
4-(2,3-EPOXYPROPOXY)BUTANOL
 mf: $\text{C}_7\text{H}_{14}\text{O}_3$ mw: 146.19



SAFETY PROFILE: Potentially explosive reaction when heated with trichloroethylene. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.

ECG500 CAS: 63991-57-1 HR: 2
p-(2,3-EPOXYPROPOXY)-N-PHENYLBENZYLAMINE

mf: $\text{C}_{16}\text{H}_{17}\text{NO}_2$ mw: 255.34

SYN: N-(4-(2,3-EPOXYPROPOXY)PHENYL)BENZYLAMINE

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

ECH000 CAS: 2530-83-8 HR: 2
3-(2,3-EPOXYPROPOXY)PROPYLTRIMETH-OXYSILANE

mf: $\text{C}_9\text{H}_{20}\text{O}_5\text{Si}$ mw: 236.38

PROP: Clear light straw liquid. Bp: 290° , d: 1.065-1.075, flash p: 110° . Reacts with water.

SYNS: γ -GLYCIDOXYPROPYLTRIMETHOXYSILANE \square SILANE-Y-4087 \square SILICONE A-187 \square UNION CARBIDE A-187

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 1/19/72

eye-rbt 100 mg MLD UCDS** 1/19/72

orl-rat LD50:23 g/kg UCDS** 2/11/64

skn-rbt LD50:3970 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ECH500 CAS: 106-90-1 HR: 3
2,3-EPOXYPROPYL ACRYLATE
 mf: $\text{C}_6\text{H}_8\text{O}_3$ mw: 128.14

PROP: Insol in water. Bp: 57.2° @ 2 mm, flash p: 141°F (OC), d: 1.1, vap d: 4.4.

SYNS: 2,3-EPOXY-1-PROPANOL ACRYLATE \square 2,3-EPOXYPROPYL ESTER ACRYLIC ACID \square GLYCIDYL ACRYLATE \square GLYCIDYL PROPENATE \square 2-PROPENOIC ACID OXIRANYLMETHYL ESTER

TOXICITY DATA with REFERENCE:

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

skn-rbt 2 mg/24H SEV 85JCAE -,773,86

eye-rbt 1 mg SEV UCDS** 4/10/68

eye-rbt 50 μg /24H SEV 85JCAE -,773,86

cyt-rat-ipr 50 μg /kg BJPCAL 6,235,51

cyt-rat-ipr 5 mg/kg BJPCAL 6,235,51

orl-rat LD50:210 mg/kg AIHAAP 23,95,62

ihl-rat LCLo:125 ppm/4H AIHAAP 23,95,62

skn-rbt LD50:400 mg/kg UCDS** 4/10/68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion, inhalation, and skin contact. Mutation data reported. A skin and severe eye irritant. Flammable liquid when exposed to heat or flame. Can react vigorously with oxidizers. To fight fire, use foam, dry chemical, CO_2 . When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

ECH600 CAS: 14212-54-5 HR: D
(1,2-EPOXYPROPYL)BENZENE (1R,2R)-

mf: $\text{C}_9\text{H}_{10}\text{O}$ mw: 134.19

SYNS: BENZENE, (1,2-EPOXYPROPYL)-, (1R,2R)- \square (1R,2R)-(+)-1-PHENYL-1,2-EPOXYPROPANE

TOXICITY DATA with REFERENCE:

sce-ham-lng 310 $\mu\text{mol}/\text{L}$ MUREAV 278,289,92

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

ECI000 CAS: 106-91-2 HR: 3
2,3-EPOXYPROPYL METHACRYLATE

mf: $\text{C}_7\text{H}_{10}\text{O}_3$ mw: 142.17

PROP: Colorless liquid. D: 1.043, bp: 189° . Sol in water: 5-10 mg/mL @ 20° . Flash p: 83°C .

SYNS: CP 105 \square 2,3-EPOXY-1-PROPANOL METHACRYLATE \square 2,3-EPOXYPROPYL ESTER METHACRYLIC ACID \square GLYCIDYL METHACRYLATE \square GLYCIDYL- α -METHYL ACRYLATE

TOXICITY DATA with REFERENCE:

mno-klp 200 $\mu\text{mol}/\text{L}$ MUREAV 89,269,81

cyt-rat-ipr 3 mg/kg BJPCAL 6,235,51

orl-rat LD50:597 mg/kg GISAAA 50(2),67,85

orl-mus LD50:390 mg/kg GISAAA 50(2),67,85

skn-rbt LD50:469 mg/kg AIHAAP 30,470,69

orl-gpg LD50:697 mg/kg GISAAA 50(2),67,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact and intraperitoneal routes. Mutation data reported. A combustible liquid. When heated to decomposition it emits acrid smoke and fumes.

ECI600 CAS: 6659-62-7 HR: 3
2,3-EPOXYPROPYL NITRATE
 mf: $\text{C}_3\text{H}_5\text{NO}_4$ mw: 119.08



SYN: OXIRANEMETHANOL NITRATE

TOXICITY DATA with REFERENCE:

mno-sat 500 $\mu\text{g}/\text{plate}$ AEMIDF 43,144,82

SAFETY PROFILE: An explosive sensitive to shock and heating at 200°C . Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also NITRATES.

ECJ000 CAS: 5431-33-4 HR: 2
2,3-EPOXYPROPYL OLEATE
 mf: $\text{C}_{21}\text{H}_{38}\text{O}_3$ mw: 338.59

SYNS: 2,3-EPOXY-1-PROPANOL OLEATE □ 2,3-EPOXY-PROPYL ESTER of OLEIC ACID □ GLYCIDOL OLEATE □ GLYCIDYL OCTADECENOATE □ GLYCIDYL OLEATE □ OLEIC ACID GLYCIDYL ESTER □ OXIRANYLMETHYL ESTER of 9-OCTADECENOIC ACID

TOXICITY DATA with REFERENCE:

cyt-rat-ipr 10 mg/kg BJPCAL 6,235,51
 orl-rat LD50:3520 mg/kg AIHAAP 24,305,63
 skn-rbt LD50:8000 mg/kg AIHAAP 24,305,63

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 11,183,76.

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Mildly toxic by skin contact. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

ECJ100 CAS: 76828-34-7 HR: 3
3-(2,3-EPOXYPROPYLOXY)-2,2-DINITRO-PROPYL AZIDE

mf: $C_6H_9N_5O_6$ mw: 247.17



SAFETY PROFILE: An explosive sensitive to impact, shock, friction and heat. When heated to decomposition it emits toxic fumes of NO_x . See also AZIDES.

ECK000 CAS: 5455-98-1 HR: 2
N-(2,3-EPOXYPROPYL)-PHthalimide

mf: $C_{11}H_9NO_3$ mw: 203.21

SYNS: N-GLYCIDYLPHTHALIMIDE □ 2-(OXIRANYLMETHYL)-1H-ISOINDOLE-1,3(2H)-DIONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD TXAPA9 51,197,79
 eye-rbt 100 mg SEV TXAPA9 51,197,79
 mmo-sat 500 ng/plate MUREAV 68,251,79
 mma-sat 5 mg/plate MUREAV 68,251,79
 mmo-klp 5 $\mu\text{mol/L}$ MUREAV 89,296,81
 orl-rat LD50:4700 mg/kg TXAPA9 51,197,79
 ihl-rat LCLo:4400 $\text{mg/m}^3/4\text{H}$ JACTDZ 4(1),219,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion and inhalation. A skin and severe eye irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .

ECK500 CAS: 25928-94-3 HR: 3
EPOXY RESIN (EPICHLOROHYDRIN and DIETHYLENE GLYCOL)

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:16 $\text{mg/m}^3/4\text{H}$ TPKVAL 10,110,68
 orl-mus LD50:2200 mg/kg TPKVAL 10,110,68

SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion. See also other epoxy resin entries. When heated to decomposition it emits toxic fumes of Cl^- .

ECL000 CAS: 25068-38-6 HR: 2

EPOXY RESIN ERL-2795

mf: $(C_{15}H_{16}O_2 \cdot C_3H_5ClO)_x$

SYNS: ERL-2795 □ 4,4'-ISOPROPYLIDENE DIPHENOL POLYMER with 1-CHLORO-2,3-EPOXYPROPANE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1100 mg/kg UCDS** 6/6/69
 skn-rbt LD50:>20 mL/kg UCDS** 6/6/69

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits acrid smoke and fumes. See also other epoxy resin entries.

ECL500 HR: D
EPOXY RESINS, CURED

SAFETY PROFILE: Most cured resins have little or no toxicity. If curing is incomplete there may be residues of highly toxic curing agents such as the organic amines: m-phenylene diamine, diethylene triamine, tetraethylene pentamine, and hexamethylene tetramine, as well as phthalic anhydride and related compounds. When heated to decomposition they emit highly toxic fumes. See also various epoxy hardeners and POLYMERS, INSOLUBLE.

ECM500 HR: 3
EPOXY RESINS, UNCURED

SYN: POLYMERS of EPICHLOROHYDRIN and 2,2-BIS(4-HYDROXYPHENYL)PIPERAZINE

SAFETY PROFILE: Animal experiments have shown disturbed blood formation. The degree of toxicity of uncured epoxy resins varies and is partly dependent on the extent of unreacted curing agents. See also other epoxy resin entries and POLYMERS, INSOLUBLE. When heated to decomposition they emit acrid smoke and fumes.

ECO500 CAS: 123-36-4 HR: 2
9,10-EPOXYSTEARIC ACID ALLYL ESTER

mf: $C_{21}H_{38}O_3$ mw: 338.59

SYNS: ALLYL-9,10-EPOXYSTEARATE □ EP-145

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 3/5/59
 orl-rat LD50:1198 mg/kg UCDS** 2/5/59
 skn-rbt LD50:15,900 mg/kg AIHAAP 23,95,62

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

ECP000 CAS: 4509-11-9 HR: 2
3,4-EPOXYSULFOLANE

mf: $C_4H_6O_3S$ mw: 134.16

SYNS: 2,3-EPOXYTETRAMETHYLENE SULFONE □ 6-OXA-3-THIABICYCLO(3.1.0)HEXANE-3,3-DIOXIDE □ TETRAHYDRO-3,4-EPOXYTHIOPHENE-1,1-DIOXIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:5500 mg/kg RPTOAN 41,257,78

SAFETY PROFILE: Mildly toxic by intraperitoneal route. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of SO_x .

ECP500 CAS: 64521-16-0 HR: D

1,2-EPOXY-1,2,3,4-TETRAHYDROBENZ(a)-ANTHRACENEmf: C₁₈H₁₄O mw: 246.32**SYNS:** TETRAHYDROBENZ(a)ANTHRACEN-1,2-EPOXIDE □ 1a,2,3,11c-TETRAHYDROBENZO(6,7)PHENANTHRO(3,4-b)OXIRENE □ 1,2,3,4-TETRAHYDRO-1,2-EPOXY BENZ(a)ANTHRACENE**TOXICITY DATA with REFERENCE:**

mmo-sat 100 pmol/plate CNREA8 43,1656,83

msc-ham:lng 1200 nmol/L PNASA6 74,2746,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits acrid smoke and fumes. See also ANTHRACENE**ECQ050 CAS: 36504-67-3 HR: D 7,8-EPOXY-7,8,9,10-TETRAHYDROBENZO(a)-PYRENE**mf: C₂₀H₁₄O mw: 270.34**SYN:** 7,8,9,10-TETRAHYDRO-BP-7,8-OXIDE**TOXICITY DATA with REFERENCE:**

mma-sat 300 pmol/plate CNREA8 36,3358,76

dni-omi 200 µg/L PNASA6 74,1378,77

msc-ham:lng 500 µg/L IJCNAW 24,203,79

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**ECQ100 CAS: 36504-68-4 HR: 2 9,10-EPOXY-7,8,9,10-TETRAHYDROBENZO(a)-PYRENE**mf: C₂₀H₁₄O mw: 270.34**SYNS:** 7,8,9,10-TETRAHYDRO-BENZO(a)PYRENE-9,10-EPOXIDE □ 7,8,9,10-TETRAHYDRO-BENZO(a)PYRENE-9,10-EPOXYIDE □ 7,8,9,10-TETRAHYDRO-9,10-EPOXY-BENZO(a)PYRENE**TOXICITY DATA with REFERENCE:**

mmo-sat 100 pmol/plate CNREA8 40,642,80

mma-sat 300 pmol/plate CNREA8 36,3358,76

dni-omi 200 µg/L PNASA6 74,1378,77

msc-ham:lng 60 nmol/L CNREA8 36,3358,76

dnd-mam:lym 10 nmol/L CRNGDP 3,247,82

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data by skin contact. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**ECQ150 CAS: 66788-11-2 HR: 2 9,10-EPOXY-9,10,11,12-TETRAHYDRO-BENZO(e)PYRENE**mf: C₂₀H₁₄O mw: 270.34**SYNS:** B(e)P H4-9,10-EPOXIDE □ 9,10,11,12-TETRAHYDRO-9,10-EPOXY-BENZO(e)PYRENE**TOXICITY DATA with REFERENCE:**

mmo-sat 1 nmol/plate CNREA8 40,1985,80

mma-sat 13 pmol/plate JBCHA3 254,4408,79

msc-ham:lng 1100 nmol/L CNREA8 40,1985,80

dnd-mam:lym 10 µmol/L CRNGDP 3,247,82

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported.

When heated to decomposition it emits acrid smoke and fumes.

ECQ200 CAS: 67694-88-6 HR: 2 3,4-EPOXY-1,2,3,4-TETRAHYDROCHRYSENEmf: C₁₈H₁₄O mw: 246.32**TOXICITY DATA with REFERENCE:**

mma-sat 1 nmol/plate CNREA8 39,4069,79

msc-ham:lng 1 nmol/plate CNREA8 39,4069,79

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes. See also CHRYSENE.**ECR259 CAS: 56179-80-7 HR: 2 1,2-EPOXY-1,2,3,4-TETRAHYDROPHEN-ANTHRENE**mf: C₁₄H₁₂O mw: 196.26**TOXICITY DATA with REFERENCE:**

mma-sat 1 nmol/plate

CNREA8 39,4069,79

msc-ham:lng 1 nmol/plate CNREA8 39,4069,79

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**ECR500 CAS: 66997-69-1 HR: 2 3,4-EPOXY-1,2,3,4-TETRAHYDRO-PHENANTHRENE**mf: C₁₄H₁₂O mw: 196.26**SYN:** PHENANTHRENETETRAHYDRO-3,4-EPOXIDE**TOXICITY DATA with REFERENCE:**

mma-sat 1 nmol/plate CNREA8 39,4069,79

msc-ham:lng 1 nmol/plate CNREA8 39,4069,79

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**ECS000 CAS: 72074-69-2 HR: 2 (±)-3-α,4-α-EPOXY-1,2,3,4-TETRAHYDRO-1-β,2-α-PHENANTHRENE DIOL**mf: C₁₄H₁₂O₃ mw: 228.26**SYN:** (±)-1-β,2-α-DIHYDROXY-3-α,4-α-EPOXY-1,2,3,4-TETRAHYDROPHENANTHRENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and fumes.**ECS500 CAS: 72074-68-1 HR: D (±)-3-β,4-β-EPOXY-1,2,3,4-TETRAHYDRO-1-β,2-α-PHENANTHRENE DIOL**mf: C₁₄H₁₂O₃ mw: 201.92**SYN:** (±)-1-β,2-α-DIHYDROXY-3-β,4-β-EPOXY-1,2,3,4-TETRAHYDROPHENANTHRENE**TOXICITY DATA with REFERENCE:**

mma-sat 2500 pmol/plate CNREA8 39,4069,79

msc-ham:lng 1 nmol/plate CNREA8 39,4069,79

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

ECT000 CAS: 74444-59-0 HR: D
1,2-EPOXY-1,2,3,4-TETRAHYDROTRI-PHENYLENEmf: C₁₈H₁₄O mw: 246.32**SYNS:** 1,2,3,4-TETRAHYDRO-1,2-EPOXYTRIPHENYLENE □ TP H4-1,2-EPOXIDE**TOXICITY DATA with REFERENCE:**

mmo-sat 1 nmol/plate CNREA8 40,1985,80

msc-ham:lng 1 μmol/L CNREA8 40,1985,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**ECT500 CAS: 3083-25-8 HR: 3**
1,2-EPOXY-4,4,4-TRICHLOROBUTANEmf: C₄H₅Cl₃O mw: 175.44**SYNS:** TRICHLOROBUTYLENE OXIDE □ 4,4,4-TRICHLORO-1,2-EPOXYBUTANE**TOXICITY DATA with REFERENCE:**

skn-rbt 720 mg/24H SEV OMCDS* -,76

eye-rbt 144 mg OMCDS* -,76

mmo-sat 666 μg/plate MUREAV 172,105,86

mmo-sat 500 μg/plate TSCAT* OTS 205875

orl-rat LD50:1500 mg/kg OMCDS* -,76

ihl-rat LCLo:200 g/m³/1H TSCAT* OTS 205875

ivn-mus LD50:56,200 μg/kg CSLNX* NX#02029

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. An eye and severe skin irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻.**ECT600 CAS: 16967-79-6 HR: 2**
EPOXY-1,1,2-TRICHLOROETHANEmf: C₂HCl₃O mw: 147.38**SYNS:** TCEO □ 1,1,2-TRICHLORO-EPOXYETHANE □ TRICHLOROETHYLENE EPOXIDE □ TRICHLOROETHYLENE OXIDE □ TRICHLORO-OXIRANE**TOXICITY DATA with REFERENCE:**

mmo-ssp 500 μmol/L 45OHAA -,333,80

otr-ham:emb 1100 μmol/L JJIND8 69,531,82

msc-ham:lng 50 μmol/L 45OHAA -,333,80

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Hydrocarbons, Halogenated 1003.**ECT700 CAS: 2623-22-5 HR: 3**
(3-α)-12,13-EPOXYTRICHO-9-ENE-3,4,15-TRIOL 15-ACETATEmf: C₁₇H₂₄O₆ mw: 324.41**SYNS:** 15-ACETOXYSCIRPENDIOL □ 15-ACETOXYSCIRPEN-3,4-DIOL □ 15-ACETOXYSCIRPENOL □ 15-α-ACETYL-SCIRPENETRIOL □ DEACETYLANGUIDIN □ 4-DEACETYLANGUIDIN □ MONOACETOXYSCIRPENOL □ 15-MAS □ 15-MONO-α-ACETYLSIRPENOL □ NSC 267030 □ TRICHO-9-ENE-3-α,4-β,15-TRIOL, 12,13-EPOXY-, 15-ACETATE □ TRICHO-9-ENE-3,4,15-TRIOL, 12,13-EPOXY-, 15-ACETATE-, (3-α,4-β)-**TOXICITY DATA with REFERENCE:**

skn-gpg 324 ng MLD FAATDF 4,124,1984

scu-rat LD50:725 μg/kg DFSCDX 4,135,1983

ipr-mus LD50:4500 μg/kg TOXIA6 24,985,1986

scu-mus LD50:7800 μg/kg TOXIA6 24,985,1986

orl-ckn LD50:2500 μg/kg POSCAL 69,397,1990

SAFETY PROFILE: A poison by ingestion, intraperitoneal, and subcutaneous routes. A mild skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**ECU550 CAS: 10402-53-6 HR: 3**
EPRAZINONE DIHYDROCHLORIDEmf: C₂₄H₃₂N₂O₂•2ClH mw: 453.50**PROP:** A solid. Mp: 203–206° (anhyd).**SYNS:** 1-(2-BENZOYLPROPYL)-2-(2-ETHOXY-2-PHENYLETHYL)PIPERAZINE DIHYDROCHLORIDE □ 746 CE □ EFTAPAN □ EPRAZINONE HYDROCHLORIDE □ 3-(4-(β-ETHOXYPHENETHYL)-1-PIPERAZINYL)-2-METHYL-1-PHENYL-1-PROPANONE DIHYDROCHLORIDE □ 3-(4-(2-ETHOXY-2-PHENYLETHYL)-1-PIPERAZINYL)-2-METHYL-1-PHENYL-1-PROPANONE DIHYDROCHLORIDE □ 2-(4-(β-ETHOXYPHENETHYL)-1-PIPERAZINYL)-2-METHYL-1-PHENYL-1-PROPANONE DIHYDROCHLORIDE □ MUCITUX □ 1-(2-PHENYL-2-ETHOXY)ETHYL-4-(2-BENZYLOXY)PROPYL-PIPERAZINE DIHYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:763 mg/kg IYKEDH 10,232,79

ipr-rat LD50:191 mg/kg IYKEDH 10,232,79

scu-rat LD50:238 mg/kg IYKEDH 10,232,79

orl-mus LD50:286 mg/kg IYKEDH 10,232,79

ipr-mus LD50:116 mg/kg PCIPDV 13(2),98,81

scu-mus LD50:300 mg/kg OYYAA2 2,314,68

ivn-mus LD50:20 mg/kg PCIPDV 13(2),98,81

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.**ECU600 CAS: 27588-43-8 HR: 3**
EPROZINOL DIHYDROCHLORIDEmf: C₂₂H₃₀N₂O₂•2ClH mw: 427.46**PROP:** A solid. Mp: 164°.**SYNS:** ALECOR □ BROVEL □ EUPNERON □ 4-(β-METHOXYPHENETHYL)-α-PHENYL-1-PIPERAZINE-PROPANOL DIHYDROCHLORIDE □ 1-(2-METHOXY-2-PHENYLETHYL)-4-(3-HYDROXY-3-PHENYLPROPYL)-PIPERAZINE DIHYDROCHLORIDE □ 1-(2-PHENYL-2-METHOXY)ETHYL-4-(3-PHENYL-3-HYDROXY)PROPYL-PIPERAZINE DIHYDROCHLORIDE □ 1-(2-PHENYL-2-METHYL)ETHYL-4-(3-PHENYL-3-HYDROXY)-PROPYL-PIPERAZINE DIHYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat TDLo:750 mg/kg (female 30D pre):REP OYYAA2 11,463,76

orl-rat LD50:640 mg/kg OYYAA2 11,463,76

ipr-rat LD50:72 mg/kg OYYAA2 11,463,76

ims-rat LD50:140 mg/kg OYYAA2 11,463,76

orl-mus LD50:350 mg/kg OYYAA2 11,463,76

ipr-mus LD50:103 mg/kg OYYAA2 11,463,76

ims-mus LD50:122 mg/kg OYYAA2 11,463,76

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

ECU750 CAS: 12126-59-9 HR: 3**EQUIGYNE**

PROP: Conjugated forms of natural mixed estrogens, principally sodium estrone sulfate and sodium equilin sulfate, or synthetic estrogen piperazine estrone sulfate (IMEMDT** 21,147,79).

SYNS: AMNESTROGEN □ CES □ CLIMESTRONE □ CO-ESTRO □ CONEST □ CONESTRON □ CONJES □ CONJUGATED ESTROGENS □ CONJUTABS □ EQUIGYNE □ ESTRATAB □ ESTRIFOL □ ESTROATE □ ESTROCON □ ESTROMED □ ESTROPAN □ EVEX □ FEMACOID □ FEMEST □ FEM H □ FEMOGEN □ FORMATRIX □ GANEAKE □ GENISIS □ GLYESTRIN □ KESTRIN □ MENEST □ MENOGEN □ MENOTAB □ MENOTROL □ MILPREM □ MSMED □ NEO-ESTRONE □ NOVOCONESTRON □ OESTRILIN □ OESTRO-FEMINAL □ OESTROPAK MORNING □ OVEST □ PALOPOUSE □ PAR ESTRO □ PMB □ PREMARIN □ PRESOMEN □ PROMARIT □ SK-ESTROGENS □ SODESTRIN-H □ TAG-39 □ THEOGEN □ TRANSANNON □ TROCOSONE □ ZESTE

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:108 mg/kg/4Y-C:CAR,CVS,LIV
AIMDAP 137,357,77

orl-wmn TD:27 mg/kg/3Y-C:NEO,LIV NYSJAM
78,1933,78

CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 7,283,87.

SAFETY PROFILE: Suspected human carcinogen producing tumors of the vascular system and liver. Human reproductive effects: changes in female fertility. When heated to decomposition it emits toxic fumes of Na₂O. See also individual components.

ECV000 CAS: 517-09-9 HR: 2**EQUILENIN**

mf: C₁₈H₁₈O₂ mw: 266.36

PROP: Leaflets from acetone and ethanol; very sltly sol in water.

SYNS: EQUILENINA (SPANISH) □ EQUILENINE □ 3-HYDROXYESTRA-1,3,5(10),6,8-PENATEN-17-ONE

TOXICITY DATA with REFERENCE:

imp-gpg TDLo:1600 µg/kg:ETA,REP BSBSAS 8,142,51

imp-ham TDLo:640 mg/kg/38W-I:ETA CNREA8
43,5200,83

imp-gpg TD:17 mg/kg:ETA,REP RBBIAL 5,1,45

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

ECV500 CAS: 604-58-0 HR: 2**EQUILENIN BENZOATE**

mf: C₂₅H₂₂O₃ mw: 370.47

PROP: Crystalline. Mp: 223° (in vacuo).

SYN: 3-HYDROXYESTRA-1,3,5,7,9-PENTAEN-17-ONE BENZOATE

TOXICITY DATA with REFERENCE:

scu-mus TDLo:162 mg/kg/81W-I:NEO ZEKBAI
56,482,49

scu-mus TD:120 mg/kg/30W-I:ETA,REP YJBMAU
12,213,39

SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen with experimental neoplastic and tumorigenic data. When heated to

decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

ECW000 CAS: 474-86-2 HR: 2**EQUILIN**

mf: C₁₈H₂₀O₂ mw: 268.38

PROP: Crystals from EtOAc. Mp: 238–240°.

SYNS: 1,3,5,7-ESTRATETRAEN-3-OL-17-ONE □ 3-HYDROXYESTRA-1,3,5(10),7-TETRAEN-17-ONE

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

ECW500 CAS: 6030-80-4 HR: 2**EQUILIN BENZOATE**

mf: C₂₅H₂₄O₃ mw: 372.49

SYN: 3-HYDROXYESTRA-1,3,5(10),7-TETRAEN-17-ONE BENZOATE

TOXICITY DATA with REFERENCE:

scu-mus TD:148 mg/kg/37W-I:ETA,REP YJBMAU
12,213,39

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

ECW520 CAS: 16680-47-0 HR: 3**EQUILIN SODIUM SULFATE**

mf: C₁₈H₂₀O₅S•Na mw: 371.43

PROP: Buff colored powder. Sol in water.

SYNS: EQUILIN, SULFATE, SODIUM SALT (6CI) □ ESTRA-1,3,5(10),7-TETRAEN-17-ONE, 3-HYDROXY-, HYDROGEN SULFATE SODIUM SALT (8CI) □ ESTRA-1,3,5(10),7-TETRAEN-17-ONE, 3-(SULFOXY)-, SODIUM SALT □ SODIUM EQUILIN 3-MONOSULFATE □ SODIUM EQUILIN SULFATE

CONSENSUS REPORTS: NTP 10th Report on Carcinogens.

SAFETY PROFILE: Confirmed carcinogen. When heated to decomposition it emits toxic fumes of SO_x.

ECW550 CAS: 55028-71-2 HR: D**EQUIMATE**

mf: C₂₃H₂₈F₃O₆•Na mw: 480.50

SYNS: FLUPROSTENOL □ HOE 837V □ ICI 81008 □ racemic-ICI 81,008

SAFETY PROFILE: Unspecified human and experimental reproductive effects. A veterinary fertility agent. When heated to decomposition it emits toxic fumes of F⁻ and Na₂O.

ECW600 CAS: 153-87-7 HR: 3**EQUIPERTINE**

mf: C₂₃H₂₉N₃O₂ mw: 379.49

SYNS: 5,6-DIMETHOXY-2-METHYL-3-(2-(4-PHENYL-1-PIPERAZINYL)ETHYL)-1H-INDOLE □ FORIT □ INTEGRIN □ OPERTIL □ OXYPERTIN □ OXYPERTINE □ WIN 18501-2

TOXICITY DATA with REFERENCE:

orl-rat LD50:1 g/kg NIIRDN 6,154,82

orl-mus LD50:2300 mg/kg NIIRDN 6,154,82

ipr-mus LD50:154 mg/kg BJPCAL 26,186,66

PROP: Crystals from CHCl_3 . Mp: 255–259° (hot stage), mp: 281–283° (sealed capillary).

SYNS: SAD \square SECALONIC ACID D

TOXICITY DATA with REFERENCE:

mnt-mus-orl 30 mg/kg JEPTDQ 4(5-6),31,80

orl-rat LD50:22 mg/kg TXAPA9 48,A14,79

orl-mus LD50:30 mg/kg TXAPA9 48,A14,79

ipr-mus LD50:26,500 $\mu\text{g}/\text{kg}$ AEMIDF 39,285,80

ivn-mus LD50:25 mg/kg JTEHD6 5,1159,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. An experimental teratogen. Other experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

EDA600 CAS: 564-36-3 HR: 3
ERGOCORNINE

mf: $\text{C}_{31}\text{H}_{39}\text{N}_5\text{O}_5$ mw: 561.75

PROP: A solid. Mp: 182–184° (decomp).

SYNS: ERGOCORNIN \square ERGOTAMAN-3',6',18-TRIONE, 12'-HYDROXY-2',5'-BIS(1-METHYLETHYL)-, (5'- α)- \square 12'-HYDROXY-2',5'- α -BIS(1-METHYLETHYL)ERGOTAMAN-3',6',18-TRIONE

TOXICITY DATA with REFERENCE:

ivn-rbt LDLo:1170 $\mu\text{g}/\text{kg}$ 85IXA4 -,304,48

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

EDA875 CAS: 57432-60-7 HR: D
ERGOCORNINE MALEATE

mf: $\text{C}_{31}\text{H}_{39}\text{N}_5\text{O}_5 \cdot \text{C}_4\text{H}_4\text{O}_4$ mw: 677.83

PROP: A toxic ergot alkaloid of the ergotoxine group.

SYNS: ERGOCORNINE HYDROGEN MALEATE \square ERGOCORNINE HYDROGEN MALEINATE

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

EDB000 CAS: 2207-69-4 HR: D
ERGOCORNINE METHANESULFONATE (SALT)

mf: $\text{C}_{31}\text{H}_{39}\text{N}_5\text{O}_5 \cdot x\text{CH}_4\text{O}_3\text{S}$ mw: 1234.52

PROP: Crystals.

SYNS: ERGOCORNINE MESYLATE \square ERGOCORNINE METHANESULPHONATE

SAFETY PROFILE: Experimental teratogenic and reproductive effects. When heated to decomposition it emits very toxic fumes such as SO_x and NO_x .

EDB020 CAS: 74137-65-8 HR: 2
ERGOCORNININE METHANESULFONATE

mf: $\text{C}_{31}\text{H}_{39}\text{OS} \cdot \text{CH}_4\text{O}_3\text{S}$ mw: 698.01

SYN: ERGOTAMAN-3',6',18-TRIONE, 2',5'-BIS(1-METHYLETHYL)-12'-HYDROXY-, (5'- α -8 α -, MONOMETHANESULFONATE (SALT))

TOXICITY DATA with REFERENCE:

ipr-mus LD50:>520 mg/kg BAXXDU #2025960

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

EDB025 CAS: 74137-64-7 HR: 2
ERGOCRISTININE METHANESULFONATE

mf: $\text{C}_{35}\text{H}_{39}\text{N}_5\text{O}_5 \cdot \text{CH}_4\text{O}_3\text{S}$ mw: 705.90

SYN: ERGOTAMAN-3',6',18-TRIONE, 12'-HYDROXY-2'-(1-METHYLETHYL)-5'-(PHENYLMETHYL)-, (5'- α -8 α -, MONOMETHANESULFONATE (SALT))

TOXICITY DATA with REFERENCE:

ipr-mus LD50:>600 mg/kg BAXXDU #2025960

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

EDB100 CAS: 511-09-1 HR: 3
ERGOCRYPTINE

mf: $\text{C}_{32}\text{H}_{41}\text{N}_5\text{O}_5$ mw: 575.78

PROP: A solid. Mp: 211–212° (decomp) from MeOH. β -Ergocryptine: Rectangular plates from benzene.

SYNS: α -ERGOCRYPTINE \square α -ERGOKRYPTINE \square 12'-HYDROXY-2'-(1-METHYLETHYL)-5'- α -(2-METHYLPROPYL)-ERGOTAMAN-3',6',18-TRIONE

TOXICITY DATA with REFERENCE:

ivn-rbt LD50:950 $\mu\text{g}/\text{kg}$ USXXAM #3752814

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

EDB125 CAS: 2706-66-3 HR: D
ERGOCRYPTINE MESYLATE

mf: $\text{C}_{32}\text{H}_{41}\text{N}_5\text{O}_5 \cdot \text{CH}_4\text{O}_3\text{S}$ mw: 671.89

SYNS: ECR \square ERGOCRYPTINE METHANESULFONATE \square ERGOCRYPTINE METHANESULPHONATE \square ERGOKRYPTINE METHANESULFONATE

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x and NO_x . See also SULFONATES.

EDB150 CAS: 74137-66-9 HR: 2
ERGOCRYPTININE METHANESULFONATE

mf: $\text{C}_{32}\text{H}_{41}\text{N}_5\text{O}_5 \cdot \text{CH}_4\text{O}_3\text{S}$ mw: 671.89

SYN: ERGOTAMAN-3',6',18-TRIONE, 12'-HYDROXY-2'-(1-METHYLETHYL)-5'-(2-METHYLPROPYL)-, (5'- α -8 α -, MONOMETHANESULFONATE (SALT))

TOXICITY DATA with REFERENCE:

ipr-mus LD50:>520 mg/kg BAXXDU #2025960

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

EDB200 CAS: 2624-03-5 HR: 3
ERGOSINE MONOMETHANESULFONATE

mf: $\text{C}_{30}\text{H}_{37}\text{N}_5\text{O}_5 \cdot \text{CH}_4\text{O}_3\text{S}$ mw: 643.83

SYNS: ERGOSINE METHANESULFONATE \square α -ERGOSINE METHANESULFONATE \square ERGOTAMAN-3',6',18-TRIONE, 12'-HYDROXY-2'-METHYL-5'-(2-METHYLPROPYL)-, (5'- α)-, MONOMETHANESULFONATE (salt))

TOXICITY DATA with REFERENCE:

ipr-mus LD50:206 mg/kg BAXXDU #2025960

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

EDB300 CAS: 5119-48-2 HR: 3
5- β -ERGOSTA-2,24-DIEN-26-OIC ACID, 5,6- β -

EPOXY-4- β ,22,27-TRIHYDROXY-1-OXO-, Δ -LACTONE, (20S,22R)-mf: $C_{28}H_{38}O_6$ mw: 470.66SYNS: NSC-101088 \square WITHAFERIN A \square WITHAFERINE A**TOXICITY DATA with REFERENCE:**

uns-mus ast 10 mg/L IJCNAW 5,244,1970

ipr-mus LD50:54 mg/kg TOXIA6 8,154,1970

SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**EDB500 CAS: 129-51-1 HR: 3 ERGOT**mf: $C_{19}H_{23}N_3O_2 \cdot C_4H_4O_4$ mw: 441.53**PROP:** A solid. Mp: 167° (decomp). Composition: ergot amine, ergosine, ergocristine, ergocryptine, ergocornine, ergosinine, ergocristinine, ergocryptinine, ergotamine, etc.SYNS: CORNOCENTIN \square CRUDE ERGOT \square ERGOMETRINE ACID MALEATE \square ERGOMETRINE MALEATE \square ERGONOVINE, MALEATE (1:1) (SALT) \square ERGOTRATE \square ERGOTRATE MALEATE \square OXYTOCIC**TOXICITY DATA with REFERENCE:**

sce-ham:ovr 10 nmol/L TCMUD8 8,169,88

ims-inf TDL0:40 μ g/kg;GIT,PUL JAMAAP 250,729,83

unr-man LDLo:15 mg/kg 85DCAI 2,73,70

ivn-mus LD50:8260 μ g/kg TXAPA9 23,537,72**SAFETY PROFILE:** A deadly human poison. Experimental poison by intravenous route. Experimental reproductive effects. Human systemic effects: hypermotility, diarrhea, cyanosis, thirst, tachycardia, confusion, coma, central nervous system symptoms, gangrene; circulatory changes can follow ingestion. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also individual components.**EDC000 CAS: 113-15-5 HR: 3 ERGOTAMINE**mf: $C_{33}H_{35}N_5O_5$ mw: 581.63**PROP:** A solid. Mp: 213–214° (decomp). A specific alkaloid present in rye ergot (AIP TAK 27,459,23).**TOXICITY DATA with REFERENCE:**cyt-hmn:lym 100 μ g/L/24H MUREAV 48,205,77

ivn-rbt LD50:100 mg/kg EXPEAM 33,155,77

scu-frg LDLo:33 mg/kg AIP TAK 27,459,23

SAFETY PROFILE: Poison by intravenous and subcutaneous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .**EDC500 CAS: 379-79-3 HR: 3 ERGOTAMINE TARTRATE**mf: $C_{66}H_{70}N_{10}O_{10} \cdot C_4H_6O_6$ mw: 1313.56**PROP:** A solid. Mp: 203° (decomp). Analgesic specific for migraine.SYNS: ERGAM \square ERGATE \square ERGOMAR \square ERGOSTAT \square ERGOTAMINE BITARTRATE \square ERGOTARTRATE \square ETIN \square EXMIGRA \square FEMERGIN \square GOTAMINE TARTRATE \square GYNERGEN \square LINGRAINE \square LINGRAN \square NEO-ERGOTIN \square RIGETAMIN \square SECAGYN \square SECUPAN**TOXICITY DATA with REFERENCE:**cyt-hmn:lyms 100 μ g/L MUREAV 48,205,77

sce-ham:ovr 10 nmol/L TCMUD8 8,169,88

orl-wmn TDL0:11 mg/kg/13W-I:BPR PGMJAO 61,461,85

orl-hmn TDL0:3700 μ g/kg/26W-I:CNS,GIT HEADAE 18,95,78orl-man TDL0:214 μ g/kg MMWOAU 75,736,28

orl-rat LDLo:1 mg/kg TJADAB 7,227,73

ivn-rat LD50:80 mg/kg BSAMA5 2,1,46

orl-mus LDLo:300 mg/kg TJADAB 7,227,73

ipr-mus TDL0:412 mg/kg BAXXDU #2025960

ivn-mus LD50:62 mg/kg BSAMA5 2,1,46

scu-cat LD50:11 mg/kg BSAMA5 2,1,46

orl-rbt LDLo:1 mg/kg TJADAB 7,227,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. EPA Extremely Hazardous Substances List.**SAFETY PROFILE:** Poison by ingestion, intravenous, and subcutaneous routes. An experimental teratogen. Human systemic effects by ingestion: hallucinations, distorted perceptions, convulsions, nausea or vomiting, blood pressure elevation. Experimental reproductive effects. Human mutation data reported. Used in production of drugs of abuse. When heated to decomposition it emits toxic fumes of NO_x . See also ERGOT.**EDC520 CAS: 74137-68-1 HR: 3 ERGOTAMINE METHANESULFONATE**mf: $C_{33}H_{35}N_5O_5 \cdot CH_4O_3S$ mw: 677.84SYN: ERGOTAMAN-3',6',18-TRIONE, 12'-HYDROXY-2'-METHYL-5'-(PHENYLMETHYL)-, (5'- α -8 α -, MONOMETHANESULFONATE (SALT)**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:>300 mg/kg BAXXDU #2025960

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x .**EDC560 CAS: 28675-83-4 HR: 2 ERGOTERM TGO**mf: $C_{34}H_{52}O_4S_2Sn$ mw: 707.67SYNS: ACETIC ACID, 2,2'-((BIS(PHENYLMETHYL)STANNYLENE)BIS(THIO))BIS-, DIISOCTYL ESTER (9CI) \square ACETIC ACID, ((DIBENZYLSTANNYLENE)DITHIO)DI-, DIISOCTYL ESTER \square D-BENZYL TG \square DIBENZYL TIN S,S'-BIS((SOOCTYL)MERCAPTOACETATE)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1250 mg/kg RPZHAW 18,283,67

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)**OSHA PEL:** TWA 0.1 mg(Sn)/m³**NIOSH REL:** (Organotin compounds) TWA 0.1 mg(Sn)/m³**SAFETY PROFILE:** Moderately toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of SO_x and Sn.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

EDC565 CAS: 8006-25-5 HR: 3**ERGOTOXINE**

PROP: A mixture of three toxic ergot alkaloids, ergocornine, ergocristine, and ergocryptine. Once used medicinally for its oxytocic and adrenergic blocking effects but no longer used because of the variability of these effects.

SYNS: ECBOLINE

□ ERGOTOXIN

TOXICITY DATA with REFERENCE:

ivn-man TDLo:3570 ng/kg HXPHAU 6,107,38

scu-mus LDLo:107 mg/kg AEPPAE 176,171,34

ivn-mus LD50:33 mg/kg 85IXA4 -,285,48

ivn-rbt LDLo:1500 µg/kg HXPHAU 6,104,38

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

EDC575 CAS: 8047-28-7 HR: 3**ERGOTOXINE ETHANSULFONATE**

SYNS: ECBOLINE ETHANESULFONATE □ ERGOTOXINE ETHANESULFONATE □ ERGOTOXINE ETHANESULPHONATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:40 mg/kg HXPHAU 6,103,38

SAFETY PROFILE: Poison by intravenous route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x. See also SULFONATES.

EDC585 CAS: 3398-46-7 HR: D
ERGOVALINE MONOMETHANESULFONATEmf: C₂₉H₃₅N₅O₅•CH₄O₃S mw: 629.80

SYNS: ERGOVALINE MESYLATE □ ERGOVALINE METHANESULPHONATE □ ERGOVALINE, METHANESULFONATE

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

EDC600 CAS: 11052-01-0 HR: 3**ERIAMYCIN**mf: C₃₁H₂₃NO₈ mw: 537.55**TOXICITY DATA with REFERENCE:**

orl-mus LD50:50 mg/kg 85GDA2 3,372,80

ipr-mus LD50:500 µg/kg 85ERAY 1,164,78

scu-mus LD50:2 mg/kg 85GDA2 3,372,80

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

EDC625 CAS: 1787-61-7 HR: 1**ERIOCHROME BLACK T**mf: C₂₀H₁₂N₃O₇S•Na mw: 461.40**PROP:** Odorless black powder. Mod sol in water.

SYNS: ACID CHROME BLACK ET □ ACID CHROME BLACK ETN □ CHROME BLACK PB □ CHROME BLACK SPECIAL □ CHROME BLACK T □ CHROMOGENE BLACK ET00 SPECIAL □ CHROMOGENE BLACK T 160 □ C.I. MORDANT BLACK 11, MONOSODIUM SALT □ CZERN KWASOWO-CHROMOWA ETN

□ DIACROMO BLACK PSS □ 1-NAPHTHALENESULFONIC ACID, 3-HYDROXY-4-((1-HYDROXY-2-NAPHTHALENYL)AZO)-7-NITRO-, MONOSODIUM SALT □ SOLOCHROME BLACK □ SOLOCHROME BLACK T □ SOLOCHROME BLACK WDFA □ SUNCHROMINE BLACK ET □ SUPERCHROME BLACK TS

TOXICITY DATA with REFERENCE:

orl-rat LD50:17,590 mg/kg BCTKAG 21,65,88

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

EDC650 CAS: 12510-42-8 HR: 3**ERIONITE**

PROP: Transparent to translucent colored crystal in white, green, gray, orange. Distinct cleavage.

TOXICITY DATA with REFERENCE:

cyt-ham-ovr 10 mg/L BJCAAI 54,107,86

ipl-rat TDLo:80 mg/kg:CAR BJCAAI 51,727,85

ipr-mus TD :20 mg/kg:CAR ENVRAL 35,277,84

DFG MAK: Confirmed Human Carcinogen

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data.

EDC700 CAS: 66733-21-9 HR: 3**ERIONITE (CAKNA (AL₂SI₇O₁₈)₂·14H₂O)**mf: Al₂O₁₈Si₇•½Ca•7H₂O•½Na mw: 715.68

CONSENSUS REPORTS: NTP 10th Report on Carcinogens, 2000:Known to be human carcinogen. IARC Cancer Review: Group 1 IMSUDL 7,203,1987; Human Sufficient Evidence IMEMDT 42,225,1987; Animal Sufficient Evidence IMEMDT 42,225,1987.

SAFETY PROFILE: Confirmed human carcinogen.

EDD500 CAS: 62796-23-0 HR: 3**EROCYANINE 540**mf: C₂₆H₃₂N₃O₆S₂•Na mw: 569.72

PROP: Odorless, blue to purple crystalline solid. Low sol in water.

SYNS: 3(2H)-BENZOXAZOLEPROPANESULFONIC ACID, 2-(4-(1,3-DIBUTYLTETRAHYDRO-4,6-DIOXO-2-THIOXO-5(2H)-PYRIMIDINYLIDENE)-2-BUTENYLIDENE)-, SODIUM SALT □ MEROCYANINE 540 □ NK 2272

TOXICITY DATA with REFERENCE:

ivn-mus LD50:92 mg/kg TXAPA9 44,225,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EDE000 CAS: 63938-27-2 HR: 3**ERYSODINE HYDROCHLORIDE**mf: C₁₈H₂₁NO₃•ClH mw: 335.86**TOXICITY DATA with REFERENCE:**

orl-mus LD50:155 mg/kg JPETAB 80,53,44

scu-mus LD50:100 mg/kg JPETAB 80,53,44

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

EDE500 CAS: 63938-28-3 HR: 3

ERYSOPINE HYDROCHLORIDEmf: $C_{17}H_{19}NO_3 \cdot ClH$ mw: 321.83**SYN:** (3- β)-1,2,6,7-TETRADEHYDRO-3-METHOXYERYTHRINAN-16-OL HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:18 mg/kg JPETAB 80,53,44

scu-mus LD50:15 mg/kg JPETAB 80,53,44

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of Cl^- .**EDE600****HR: D****ERYTHORBIC ACID****PROP:** White or sltly yellow crystals or powder. Mp: 164–171° (decomp). Sol in water, alc; sltly sol in glycerin.**SYN:** d-ARABOASCORBIC ACID**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**EDE700****CAS: 6381-77-7****HR: 1****ERYTHORBIC ACID SODIUM SALT**mf: $C_6H_8O_6 \cdot Na$ mw: 199.13**SYNS:** ERBIT'N □ ERIBATE'N □ d-ERYTHRO-HEX-2-ENONIC ACID γ -LACTONE MONOSODIUM SALT □ d-ERYTHRO-HEX-2-ENONIC ACID, γ -LACTONE, MONOSODIUM SALT □ 3-KETO-d-GULO-FURANOLACTOSE □ ISOASCORBIC ACID, SODIUM SALT □ ISONA □ MERCATE 20 □ NEO-CEBITATE □ OZOBAN □ SODIUM ENOLATE MONOHYDRATE □ SODIUM ERYTHORBATE □ SODIUM d-ERYTHRO-3-OXOHENONATE LACTONE □ SODIUM d-ISOASCORBATE**TOXICITY DATA with REFERENCE:**

eye-rbt 100 mg MLD IJTOFN 18(Suppl 3),1,1999

orl-rat LD50:>5 g/kg IJTOFN 18(Suppl 3),1,1999

SAFETY PROFILE: Low toxicity by ingestion. A mild eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**EDF000****CAS: 31248-66-5****HR: 3****ERYTHRALINE HYDROBROMIDE**mf: $C_{18}H_{19}NO_3 \cdot BrH$ mw: 378.30**SYN:** (3- β)-1,2,6,7-TETRADEHYDRO-3-METHOXY-15,16-(METHYLENEBIS(OXY))ERYTHRINAN, HYDROBROMIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:80 mg/kg JPETAB 80,53,44

scu-mus LD50:72 mg/kg JPETAB 80,53,44

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of HBr and NO_x .**EDG500****CAS: 466-81-9****HR: 3** **β -ERYTHROIDINE**mf: $C_{16}H_{19}NO_3$ mw: 273.36**PROP:** A solid. Mp: 99–100°.**SYN:** 12,13-DIDEHYDRO-13,14-DIHYDRO- α -ERYTHROIDINE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:24 mg/kg JPETAB 93,362,48

ivn-rbt LD50:8600 $\mu g/kg$ MEIEDD 7,419,60**SAFETY PROFILE:** Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes such as NO_x .**EDH000****CAS: 596-11-2****HR: 3** **β -ERYTHROIDINE HYDROCHLORIDE**mf: $C_{16}H_{19}NO_3 \cdot ClH$ mw: 309.82**SYN:** 1,2,6,7-TETRADEHYDRO-14,17-DIHYDRO-3-METHOXY-16(15H)-OXAERYTHRINAN-15-ONE, HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:510 mg/kg JPETAB 80,39,44

scu-rat LD50:1260 mg/kg JPETAB 80,39,44

ivn-rat LD50:39 mg/kg JPETAB 82,266,44

orl-mus LD50:75 mg/kg JPETAB 80,39,44

scu-mus LD50:48 mg/kg JPETAB 80,39,44

ivn-dog LD50:8800 $\mu g/kg$ JPETAB 82,266,44

orl-cat LDLo:30 mg/kg JPETAB 80,39,44

scu-cat LDLo:20 mg/kg JPETAB 80,39,44

orl-rbt LDLo:200 mg/kg JPETAB 80,39,44

scu-rbt LDLo:50 mg/kg JPETAB 80,39,44

ivn-rbt LD50:8600 $\mu g/kg$ JPETAB 82,266,44**SAFETY PROFILE:** Poison by ingestion, intravenous, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x .**EDH500****CAS: 114-07-8****HR: 3****ERYTHROMYCIN**mf: $C_{37}H_{67}NO_{13}$ mw: 734.05**PROP:** White or sltly yellow, crystalline powder; odorless. Crystals from Me_2CO (aq) or $CHCl_3$. Mp: 136–140°, mp: 190–193° (double mp). Freely sol in alc, chloroform, and ether; very sltly sol in water.**SYNS:** DOTYCIN □ EM □ E-MYCIN □ ERYCIN □ ERYTHROCIN □ ERYTHROGRAN □ ERYTHROGUENT □ ERYTHROMYCIN A □ ILOTYCIN □ PANTOMICINA □ PROPIOCINE □ ROBIMYCIN**TOXICITY DATA with REFERENCE:**dnr-esc 600 $\mu g/disc$ MUREAV 97,1,82

orl-rat LD50:9272 mg/kg AMPMAR 39,259,78

scu-rat LDLo:427 mg/kg CLDND* 1,115,75

ipr-mus LD50:463 mg/kg ARZNAD 20,1751,70

scu-mus LD50:1800 mg/kg ANTCAO 2,281,52

ivn-mus LD50:426 mg/kg 85FZAT -,273,67

ims-mus LD50:394 mg/kg JAPMA8 44,199,55

ipr-gpg LD50:413 mg/kg JAPMA8 41,555,52

orl-ham LD50:3018 mg/kg JAPMA8 41,555,52

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Poison by intravenous and intramuscular routes. Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. An experimental teratogen. Other experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .**EDI000****CAS: 54579-17-8****HR: 1****ERYTHROMYCIN CARBONATE****TOXICITY DATA with REFERENCE:**

orl-rat LD50:5800 mg/kg 85ERAY 1,34,78

orl-mus LD50:4050 mg/kg 85ERAY 1,34,78

SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also ERYTHROMYCIN.**EDI500****CAS: 23067-13-2****HR: 3****ERYTHROMYCIN GLUCOHEPTONATE (1:1)**

TOXICITY DATA with REFERENCE:

dns-mus:oth 100 µg/L MMIYAO 168,201,80
 dns-gpg:lng 1 mg/L PSEBAA 171,109,82
 ipr-rat LD50:7600 µg/kg CRSAG 18,11,86
 ivn-rat LD50:3700 µg/kg JJMCAQ 34,54,81
 ipr-mus LD50:4550 µg/kg SCIEAS 229,869,85
 scu-mus LD50:7700 mg/kg APJAAG 9,141,59
 ivn-mus LD50:2 mg/kg JGMIAN 86,363,75
 par-mus LD50:27,500 µg/kg EXPEAM 35,804,79
 ivn-dog LD50:1 mg/kg CRSAG 7,299,80
 ivn-cat LD50:2200 µg/kg EJPHAZ 9,311,70
 iat-cat LDLo:3 mg/kg MIVRA6 20,242,80

SAFETY PROFILE: Poison by intravenous, intraperitoneal, parenteral, and intraarterial routes. Moderately toxic by subcutaneous route. Experimental teratogenic and reproductive effects. Mutation data reported.

EDK750**HR: 3****ESCHERICHIA COLI LIPOPOLYSACCHARIDE**

SYNS: E. COLI 0111: B4 LPS □ LIPOPOLYSACCHARIDE, ESCHERICHIA COLI

TOXICITY DATA with REFERENCE:

ipr-rat LD50:10 mg/kg PSEBAA 109,429,62
 ivn-mus LD50:7670 µg/kg MIIMDV 26,455,82

SAFETY PROFILE: A poison by intravenous and intraperitoneal routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

EDK875**CAS: 6805-41-0****HR: 3****ESCIN**

mf: C₅₄H₈₄O₂₃ mw: 1101.38

PROP: α-Escin: Amorphous powder. Mp: 224–225°. Very sol in water. β-Escin: Leaflets from dil ethanol. Mp: 222–223°. Practically insol in water.

SYNS: A-4700 □ AESCIN (GERMAN) □ AESCUSAN □ AMORPHOUS AESCIN □ ESCINA (ITALIAN) □ REPARIL

TOXICITY DATA with REFERENCE:

orl-rat LD50:833 mg/kg KSRNAM 8,118,74
 ipr-rat LD50:10,150 µg/kg KSRNAM 8,118,74
 scu-rat LD50:150 mg/kg KSRNAM 8,118,74
 ivn-rat LD50:1600 µg/kg BCFAAI 115,272,76
 orl-mus LD50:165 mg/kg KSRNAM 8,118,74
 ipr-mus LD50:6700 µg/kg NIIRDN 6,APP-2,82
 scu-mus LD50:38,590 µg/kg KSRNAM 8,118,74
 ivn-mus LD50:2 mg/kg BCFAAI 115,272,76

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Experimental teratogenic effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also other escin entries.

EDL000**CAS: 66795-86-6****HR: 3****α-ESCIN**

mf: C₅₄H₈₄O₂₃ mw: 1101.38

PROP: A form of triterpenglycosides isolated from *Aesculus hippocastanum* L. (ARZNAD 20,209,70).

SYNS: α-AESCIN □ α-AESCUSAN □ β-ESCINIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:720 mg/kg ARZNAD 20,209,70

ivn-rat LD50:5 mg/kg ARZNAD 20,209,70
 orl-mus LD50:320 mg/kg ARZNAD 20,209,70
 ivn-mus LD50:3 mg/kg ARZNAD 20,209,70
 ivn-dog LD50:2 mg/kg ARZNAD 20,209,70
 ivn-rbt LD50:7800 µg/kg ARZNAD 20,209,70
 orl-gpg LD50:475 mg/kg ARZNAD 20,209,70
 ivn-gpg LD50:15,200 µg/kg ARZNAD 20,209,70

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits acrid smoke and irritating fumes. See also other escin entries.

EDL500**CAS: 11072-93-8****HR: 3****β-ESCIN**

mf: C₅₄H₈₄O₂₃ mw: 1101.38

PROP: A form of triterpenglycosides isolated from *Aesculus hippocastanum* L. (ARZNAD 20,209,70).

SYNS: β-AESCIN □ β-AESCUSAN □ β-REPARIL

TOXICITY DATA with REFERENCE:

orl-rat LD50:400 mg/kg ARZNAD 20,209,70
 ivn-rat LD50:2 mg/kg ARZNAD 20,209,70
 orl-mus LD50:134 mg/kg ARZNAD 20,209,70
 ivn-mus LD50:1400 µg/kg ARZNAD 20,209,70
 ivn-dog LD50:1 mg/kg ARZNAD 20,209,70
 ivn-rbt LD50:3600 µg/kg ARZNAD 20,209,70
 orl-gpg LD50:188 mg/kg ARZNAD 20,209,70
 ivn-gpg LD50:7200 µg/kg ARZNAD 20,209,70

SAFETY PROFILE: Poison by ingestion and intravenous routes. An experimental teratogen. When heated to decomposition it emits acrid smoke and irritating fumes. See also other escin entries.

EDM000**CAS: 20977-05-3****HR: 3****ESCIN, SODIUM SALT**

mf: C₅₅H₈₅O₂₄•Na mw: 1153.39

PROP: A mixture of saponins occurring in the seed of the horse chestnut tree (ARZNAD 12,815,62).

SYNS: A-4760 □ AESCIN SODIUM SALT □ AESCUSAN SODIUM SALT □ Na-AESCINAT □ REPARIL SODIUM SALT □ SODIUM AESCINATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:400 mg/kg YHTPAD 22,87,87
 ipr-rat LD50:9180 µg/kg KSRNAM 8,114,74
 scu-rat LD50:131 mg/kg KSRNAM 8,114,74
 ivn-rat LD50:8131 µg/kg KSRNAM 8,114,74
 orl-mus LD50:134 mg/kg YHTPAD 22,87,87
 ipr-mus LD50:8299 µg/kg KSRNAM 8,114,74
 scu-mus LD50:92,530 µg/kg KSRNAM 8,114,74
 ivn-mus LD50:4730 mg/kg YHTPAD 22,87,87
 ivn-rbt LDLo:5 mg/kg ARZNAD 10,263,60
 ivn-gpg LD50:9130 µg/kg ARZNAD 10,263,60

SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of Na₂O. See also SAPONIN and other escin entries.

EDM500**CAS: 102505-08-8****HR: 3****ESCIN TRIETHANOLAMINE SALT**

mf: C₅₄H₈₄O₂₃•C₆H₁₅NO₃ mw: 1250.60

SYN: AESCIN TRIETHANOLAMINE SALT

TOXICITY DATA with REFERENCE:

ivn-rat LD50:30 mg/kg ARZNAD 10,263,60
 ivn-mus LD50:50 mg/kg ARZNAD 10,263,60
 ivn-rbt LD50:6 mg/kg ARZNAD 10,263,60

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x. See also other escin entries.

EDN000 HR: 3 ESSENTIAL PHOSPHOLIPIDS

PROP: Chemically defined as diglyceride esters of choline phosphoric acid with a predominant content of unsaturated fatty acids (OYYAA2, 3,45,69).

SYN: EPL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1840 mg/kg OYYAA2 3,45,69
 ipr-rat LD50:600 mg/kg OYYAA2 3,45,69
 scu-rat LD50:1480 mg/kg OYYAA2 3,45,69
 orl-mus LD50:1450 mg/kg OYYAA2 3,45,69
 ipr-mus LD50:305 mg/kg OYYAA2 3,45,69
 scu-mus LD50:2300 mg/kg OYYAA2 3,45,69

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of PO_x.

EDN100 HR: D ESTERASE-LIPASE

PROP: Derived from *Mucor miebei*.

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

EDN500 HR: D ESTERS

PROP: A large group of organic compounds that correspond structurally to salts in inorganic chemistry. They are considered to be derived from acids by the replacement of hydrogen by an organic alkyl radical. Esters of acetic acid are called acetates and esters of carbonic acid are called carbonates. The esterification of a fatty acid RCOOH, by an alcohol R'OH, yields the fatty ester RCOOR'. The most common alcohol used is methanol, yielding the methyl ester RCOOCH₃. The methyl esters of fatty acids have higher vapor pressures than the corresponding acids.

SAFETY PROFILE: No general statement can be made as to the toxicity of esters. Many are highly volatile and hence can act as asphyxiants or narcotics. Skin contact, as well as inhalation, may be an important route of absorption for those esters that are volatile and have a high solvent action. The degree of toxicity ranges from mildly toxic to poison. Esters generally hydrolyze upon contact with moisture; hence, a rough guide to the toxicity of a given ester may be the sum of the toxicities of the products of hydrolysis. Incompatible with nitrates. When heated to decomposition they emit acrid smoke and fumes.

EDN600 HR: 3 ESTRACYT HYDRATE

mf: C₂₃H₃₀Cl₂NO₆P•2Na•H₂O mw: 582.41

SYNS: ESTRAMUSTINE PHOSPHATE DISODIUM HYDRATE □ ESTRAMUSTINE PHOSPHATE SODIUM HYDRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5400 mg/kg IYKEDH 14,838,83
 scu-rat LD50:9000 mg/kg IYKEDH 14,838,83
 ivn-rat LD50:208 mg/kg IYKEDH 14,838,83
 scu-mus LD50:5200 mg/kg YKYUA6 35,1347,84
 ivn-mus LD50:380 mg/kg IYKEDH 14,838,83
 orl-rbt LD50:5655 mg/kg YKYUA6 35,1347,84

SAFETY PROFILE: Poison by intravenous route. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of PO_x, Cl⁻, NO_x, and Na₂O.

EDO000 CAS: 50-28-2 HR: 3 ESTRADIOL

mf: C₁₈H₂₄O₂ mw: 272.42

PROP: Needles out of benzene, acetone; leaflets or needles from alc. Mp: 178°, bp: decomp. Sol in dioxone, alc, and ether.

SYNS: ALTRAD □ BARDIOL □ DIHYDROFOLLICULAR HORMONE □ DIHYDROFOLLICULIN □ DIHYDROMEN-FORMON □ DIHYDROTHEELIN □ 3,17-β-DIHYDROXYESTRA-1,3,5(10)-TRIENE □ 3,17-β-DIHYDROXY-1,3,5(10)-ESTRATRIENE □ DIHYDROXYESTRIN □ 3,17-β-DIHYDROXYOESTRA-1,3,5-TRIENE □ 3,17-β-DIHYDROXY-1,3,5(10)-OESTRATRIENE □ DIHYDROXYOESTRIN □ DIMENFORMON □ DIMENFORMON PROLONGATUM □ DIOGYN □ DIOGYNETS □ E² □ 3,17-EPIDIHYDROXYESTRATRIENE □ 3,17-EPIDIHYDROXY-OESTRATRIENE □ ESTRADIOL-17-β □ α-ESTRADIOL □ β-ESTRADIOL □ cis-ESTRADIOL □ d-ESTRADIOL □ 3,17-β-ESTRADIOL □ 17-β-ESTRADIOL □ 17-β-OH-ESTRADIOL □ 17-β-OH-OESTRADIOL □ d-3,17-β-ESTRADIOL □ ESTRALDINE □ ESTRA-1,3,5(10)-TRIENE-3,17-β-DIOL □ 17-β-ESTRA-1,3,5(10)-TRIENE-3,17-DIOL □ 1,3,5-ESTRATRIENE-3,17-β-DIOL □ ESTROVITE □ FEMESTRAL □ FEMOGEN □ GYNERGON □ GYNESTREL □ GYNOESTRYL □ LAMDIOL □ MACRODIOL □ MACROL □ MICRODIOL □ NORDICOL □ NSC-9895 □ OESTERGON □ OESTRADIOL □ α-OESTRADIOL □ β-OESTRADIOL □ cis-OESTRADIOL □ d-OESTRADIOL □ 3,17-β-OESTRADIOL □ d-3,17-β-OESTRADIOL □ OESTRA-1,3,5(10)-TRIENE-3,17-β-DIOL □ OESTRADIOL R □ OESTRADIOL-17-β □ 17-β-ESTRA-1,3,5(10)-TRIENE-3,17-DIOL □ OESTROGLANDOL □ OESTROGYNAL □ OVAHORMON □ OVASTEROL □ OVASTEVOLO □ OVOCICLINA □ OVOCYCLIN □ OVOCYCLINE □ OVOCYLIN □ PRIMOFOL □ PROFOLIOL □ PROGYNON □ PROGYNON-DH □ SYNDIOL

TOXICITY DATA with REFERENCE:

mnt-hmn:lym 5 μmol/L MUREAV 156,199,85
 dns-hmn:mmr 10 nmol/L CNREA8 45,1644,85
 dni-hmn:lym 10 μmol/L PSEBAA 146,401,74
 dns-rat-par 10 μg/kg ACHCBO 18,213,85
 cyt-ham:ovr 50 μmol/L TOLED5 29,201,85
 dns-rbt:oth 100 nmol/L CRNGDP 3,703,82
 scu-rat TDLo:4200 μg/kg/12W-I YACHDS 20,3899,92

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Human Limited Evidence IMEMDT 21,279,79; Animal Sufficient Evidence IMEMDT 21,279,79; IMEMDT 6,99,74. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. A promoter. Human reproductive

effects by ingestion: fertility effects. Experimental reproductive effects. Human mutation data reported. A steroid hormone much used in medicine. When heated to decomposition it emits acrid smoke and irritating fumes.

EDO500 CAS: 57-91-0 HR: 2
17- α -ESTRADIOL

mf: C₁₈H₂₄O₂ mw: 272.42

PROP: Needles from EtOH (aq). Mp: 223°.

SYNS: 3,17-DIHYDROXYESTRATRIENE □ 3,17- α -DIHYDROXYOESTRA-1,3,5(10)-TRIENE □ ESTRA-1,3,5(10)-TRIENE-3,17- α -DIOL □ 1,3,5-ESTRATRIENE-3,17- α -DIOL □ OESTRADIOL-17- α

TOXICITY DATA with REFERENCE:

dni-hmn:oth 100 mg/L JTEHD6 10,143,82

imp-gpg TD:3 mg/kg:ETA,REP RBBIAL 5,1,45

SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. A steroid. See also ESTRADIOL.

EDP000 CAS: 50-50-0 HR: 3
ESTRADIOL-3-BENZOATE

mf: C₂₅H₂₈O₃ mw: 376.53

PROP: White or sltly yellow to brownish crystalline powder; odorless. Mp: 193°. Almost insol in water; sol in alc, acetone, and dioxane; sparingly sol in vegetable oils; sltly sol in ether.

SYNS: BENOVOCYLIN □ BENZHORMOVARINE □ BENZOATE d'OESTRADIOL (FRENCH) □ BENZOESTROFOL □ BENZOFOLINE □ BENZO-GYNOESTRYL □ BENZOIC ACID ESTRADIOL □ DIFFOLLISTEROL □ DIFOLLICULINE □ DIHYDROESTRIN BENZOATE □ DIHYDROFOLLICULIN BENZOATE □ DIMENFORMON BENZOATE □ DIMENFORMONE □ DIOGYN B □ EBZ □ ESTON-B □ ESTRADIOL BENZOATE □ β -ESTRADIOL BENZOATE □ ESTRADIOL-17- β -BENZOATE □ ESTRADIOL-17- β -3-BENZOATE □ β -ESTRADIOL-3-BENZOATE □ 17- β -ESTRADIOL BENZOATE □ 17- β -ESTRADIOL-3-BENZOATE □ ESTRADIOL MONOBENZOATE □ 17- β -ESTRADIOL MONOBENZOATE □ ESTRA-1,3,5(10)-TRIENE-3,17-DIOL (17- β)-3-BENZOATE □ ESTRA-1,3,5(10)-TRIENE-3,17- β -DIOL, 3-BENZOATE □ 1,3,5(10)-ESTRATRIENE-3,17- β -DIOL 3-BENZOATE □ FEMESTRONE □ FOLLICORMON □ FOLLIDRIN □ GRAAFINA □ de GRAAFINA □ GYNECORMONE □ GYNFORMONE □ HYDROESTRON □ HORMOGYNON □ HYDROXYESTRIN BENZOATE □ MEE □ ODB □ OESTRADIOL BENZOATE □ β -OESTRADIOL BENZOATE □ OESTRADIOL-3-BENZOATE □ β -OESTRADIOL-3-BENZOATE □ 17- β -OESTRADIOL-3-BENZOATE □ OESTRADIOL MONOBENZOATE □ OESTRAFORM (BDH) □ 1,3,5(10)-OESTRATRIENE-3,17- β -DIOL 3-BENZOATE □ OVAHORMON BENZOATE □ OVASTEROL-B □ OVEX □ OVOCYCLIN BENZOATE □ OVOCYCLIN M □ OVOCYCLIN-MB □ PRIMOGYN B □ PRIMOGYN BOLEOSUM □ PRIMOGYN I □ PROGYNON B □ PROGYNON BENZOATE □ RECTHORMONE OESTRADIOL □ SOLESTRO □ UNISTRADIOL

TOXICITY DATA with REFERENCE:

dni-rat-scu 10 μ g/kg JOENAK 65,45,75

scu-gpg TDL:240 μ g/kg/8W-I:ETA,TER LANCAO 1,1313,39

imp-ham TDL:80 mg/kg:ETA,TER JPBA7 56,1,44

scu-gpg TD:4 mg/kg/9W-I:ETA,TER CRSBAW 130,9,39

CONSENSUS REPORTS: IARC Cancer Review:

Animal Sufficient Evidence IMEMDT 21,279,79.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Human reproductive effects by intramuscular route: menstrual cycle changes and disorders. Experimental reproductive effects. Mutation data reported. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTRADIOL.

EDP500 CAS: 63042-19-3 HR: 2
ESTRADIOL-17-BENZOATE-3,n-BUTYRATE

mf: C₂₉H₃₄O₄ mw: 446.63

SYNS: 17-BENZOATE-3-n-BUTYRATE d'OESTRADIOL (FRENCH) □ ESTRA-1,3,5(10)-TRIENE-3,17- β -DIOL-17-BENZOATE-3-n-BUTYRATE

TOXICITY DATA with REFERENCE:

scu-gpg TDL:7 mg/kg/12W-I:ETA,REP CRSBAW 130,1466,39

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

EDQ000 CAS: 8000-03-1 HR: 2
ESTRADIOL-3-BENZOATE mixed with PROGESTERONE (1:14 moles)

SYNS: ESTRADIOL BENZOATE mixed with PROGESTERONE (1:14 moles) □ ESTRA-1,3,5(10)-TRIETNE-3,17- β -DIOL-3-BENZOATE mixed with PROGESTERONE (1:14 moles) □ PROGESTERONE mixed with ESTRADIOL BENZOATE (14:1 moles) □ PROGESTERONE mixed with ESTRA-1,3,5(10)-TRIENE-3,17- β -DIOL-3-BENZOATE (14:1 moles)

TOXICITY DATA with REFERENCE:

scu-mus TDL:338 mg/kg/39W-I:ETA,REP YJBMAU 12,213,39

SAFETY PROFILE: An experimental teratogen. Other experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTRADIOL and PROGESTERONE.

EDQ500 CAS: 63042-22-8 HR: 2
ESTRADIOL-17-CAPRYLATE

mf: C₂₆H₃₈O₃ mw: 398.64

SYNS: CAPRYLATE d'OESTRADIOL (FRENCH) □ ESTRA-1,3,5(10)-TRIENE-3,17- β -DIOL-17-OCTANOATE

TOXICITY DATA with REFERENCE:

scu-gpg TDL:800 μ g/kg/13W-I:ETA,TER CRSBAW 130,1466,39

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

EDQ600 CAS: 71615-27-5 HR: 2
ESTRADIOL CYPIONATE MIXED WITH MEDROXYPROGESTERONE ACETATE

mf: C₂₆H₃₆O₃•C₂₄H₃₄O₄ mw: 783.20

SYNS: CYCLOFEM □ CYCLOPROVERA □ MEDROXY-PROGESTERONE ACETATE MIXED WITH ESTRADIOL CYPIONATE □ PREGN-4-ENE-3,20-DIONE, 17-(ACETYLOXY)-6-

METHYL-, (6- α)-, mixture with (17- β)-3-HYDROXYESTRA-1,3,5(10)-TRIEN-17-YL CYCLOPENTANEPROPANOATE

TOXICITY DATA with REFERENCE:

scu-rat LD :>1 g/kg CCPTAY 49,335,94

ipr-mus LD :>2500 mg/kg CCPTAY 49,335,94

scu-mus LD :>1 g/kg CCPTAY 49,335,94

SAFETY PROFILE: Moderately toxic by subcutaneous and intraperitoneal routes. Questionable carcinogen with experimental carcinogenic data. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

EDR000 CAS: 113-38-2 HR: 3 ESTRADIOL DIPROPIONATE

mf: C₂₄H₃₂O₄ mw: 384.56

PROP: Leaflets from MeOH (aq). Mp: 104–105°.

SYNS: AGOFOLLIN □ DIMENFORMON DIPROPIONATE □ DIOVOCYCLIN □ DIOVOCYLIN □ DIPROPIONATE d'OESTRADIOL (FRENCH) □ DIPROSTRON □ ENDOLFOLLICOLINA D.P. □ β -ESTRADIOL DIPROPIONATE □ ESTRADIOL-3,17-DIPROPIONATE □ β -ESTRADIOL-3,17-DIPROPIONATE □ 3,17- β -ESTRADIOL DIPROPIONATE □ 17- β -ESTRADIOL DIPROPIONATE □ ESTRA-1,3,5(10)-TRIENE-3,17-DIOL (17- β)-DIPROPIONATE □ 1,3,5(10)-ESTRATRIENE-3,17- β -DIOL DIPROPIONATE □ ESTROICI □ ESTRONEX □ FOLLICYCLIN P □ NACYCLYL □ OESTRADIOL DIPROPIONATE □ β -OESTRADIOL DIPROPIONATE □ OESTRADIOL-3,17-DIPROPIONATE □ 3,17- β -OESTRADIOL DIPROPIONATE □ 17- β -OESTRADIOL DIPROPIONATE □ OVOCYCLIN DIPROPIONATE □ OVOCYCLIN-P □ PROGYNON-DP

CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 21,279,79. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. A poison by intravenous and parenteral routes. Experimental reproductive effects. A drug for the treatment of menopause. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTRADIOL.

EDR400 HR: D ESTRADIOL MONOPAMITATE

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

EDR500 CAS: 22966-79-6 HR: 2 ESTRADIOL MUSTARD

mf: C₄₂H₅₀Cl₄N₂O₄ mw: 788.74

PROP: Mp: 40–65° (freeze dried).

SYNS: BIS(4-(BIS(2-CHLOROETHYL)AMINO)BENZENE)ACETATE)ESTRA-1,3,5(10)-TRIENE-3,17-DIOL(17- β) □ BIS(4-(BIS(2-CHLOROETHYL)AMINO)BENZENE)ACETATE)OESTRA-1,3,5(10)-TRIENE-3,17-DIOL(17- β) □ BIS((p-(BIS(2-CHLOROETHYL)AMINO)PHENYL)-ACETATE)ESTRADIOL □ BIS((p-(BIS(2-CHLOROETHYL)AMINO)PHENYL)ACETATE)ESTRA-1,3,5(10)-TRIENE-3,17-DIOL □ BIS((p-(BIS(2-CHLOROETHYL)AMINO)PHENYL)-ACETATE)OESTRADIOL □ BIS((p-BIS(2-CHLOROETHYL)AMINOPHENYL)ACETATE)OESTRA-1,3,5(10)-TRIENE-3,17-DIOL □ NCI-C01570 □ NSC-112259 □ OESTRADIOL MUSTARD

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence

IMEMDT 9,217,75. NCI Carcinogenesis Bioassay (gavage); Clear Evidence: mouse NCITR* NCI-CG-TR-59,78; No Evidence: rat NCITR* NCI-CG-TR-59,78.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also ESTRADIOL.

EDS000 CAS: 28014-46-2 HR: 3 ESTRADIOL POLYESTER with PHOSPHORIC ACID

mf: (C₁₈H₂₄O₂•H₃O₄P)_x

SYNS: ESTRADIOL PHOSPHATE POLYMER □ ESTRADURIN □ (17- β)-ESTRA-1,3,5(10)-TRIENE-3,17-DIOL POLYMER with PHOSPHORIC ACID □ OESTRADIOL PHOSPHATE POLYMER □ OESTRADIOL POLYESTER with PHOSPHORIC ACID □ PEP □ POLY(ESTRADIOL PHOSPHATE) □ POLYOESTRADIOL PHOSPHATE

TOXICITY DATA with REFERENCE:

ims-wmn TDLo:173 mg/kg/9Y-I:CAR,LIV ACLRBL 7,287,75

scu-rat LD50:5800 mg/kg FATOBP (15),56,80

scu-mus LD50:6100 mg/kg FATOBP (15),56,80

CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 21,279,79.

SAFETY PROFILE: Confirmed carcinogen producing liver tumors. An experimental teratogen. A drug used in cancer treatment. When heated to decomposition it emits toxic fumes of PO_x. See also ESTRADIOL, ESTERS, POLYMERS, and PHOSPHORIC ACID.

EDS100 CAS: 979-32-8 HR: 3 ESTRADIOL-17-VALERATE

mf: C₂₄H₃₂O₃ mw: 368.56

PROP: A solid. Mp: 144–145°.

SYNS: ALTADIOL □ DELADIOL □ DELAHORMONE UNIMATIC □ DELESTROGEN □ DELESTROGEN 4X □ DURA-ESTRADIOL □ ESTRADIOL VALERATE □ ESTRADIOL 17- β -VALERATE □ ESTRADIOL VALERIANATE □ (17- β)-ESTRA-1,3,5(10)-TRIENE-3,17-DIOL-17-PENTANOATE (9CI) □ ESTRAVEL □ FEMOGEX □ NEOFOLLIN □ PHARLON □ PROGYNON □ PROGYNON-DEPOT □ PROGYNOVA

SAFETY PROFILE: Suspected carcinogen with carcinogenic and teratogenic data. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTRADIOL.

EDS200 CAS: 2998-57-4 HR: D ESTRAMUSTINE

mf: C₂₃H₃₁Cl₂NO₃ mw: 440.45

SYNS: ESTRADIOL, 3-(BIS(2-CHLOROETHYL)CARBAMATE) □ ESTRA-1,3,5(10)-TRIENE-3,17-DIOL (17 β)-, 3-(BIS(2-CHLOROETHYL)CARBAMATE) □ LEO 275

TOXICITY DATA with REFERENCE:

mnt-hmn-lym 8 μ mol/L MUREAV 412,33,1998

sln-hmn-lym 8 μ mol/L MUREAV 412,33,1998

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

EDT100 CAS: 52205-73-9 HR: 3**ESTRAMUSTINE PHOSPHATE SODIUM**mf: $C_{23}H_{32}Cl_2NO_6P \cdot 2Na$ mw: 566.41**PROP:** Mp: $\sim 230^\circ$ (decomposes).**SYNS:** EMP \square ESTRACYT \square ESTRAMUSTINE PHOSPHATE DISODIUM \square ESTRA-1,3,5(10)-TRIENE-3,17- β -DIOL 3-(BIS(2-CHLOROETHYL)CARBAMATE)17-DISODIUM PHOSPHATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:5400 mg/kg OYYAA2 20,1141,80

scu-rat LD50:9000 mg/kg OYYAA2 20,1141,80

ivn-rat LD50:208 mg/kg OYYAA2 20,1141,80

scu-mus LD50:5200 mg/kg OYYAA2 20,1141,80

ivn-mus LD50:380 mg/kg OYYAA2 20,1141,80

orl-rbt LD50:5655 mg/kg OYYAA2 20,1141,80

SAFETY PROFILE: Poison by intravenous route.Mildly toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Na_2O , NO_x , Cl^- , and PO_x .**EDT500 CAS: 6639-99-2 HR: 2** **α -ESTRA-1,3,5,7,9-PENTANE-3,17-DIOL**mf: $C_{18}H_{19}O_2$ mw: 267.37**PROP:** A solid. Mp: 215–217°.**SYNS:** α -DIHYDROEQUILENIN \square α -DIHYDROEQUILENINA (SPANISH)**TOXICITY DATA with REFERENCE:**

imp-gpg TDLo:20 mg/kg:ETA,REP RBBIAL 5,1,45

SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**EDU000 CAS: 1423-97-8 HR: 2** **β -ESTRA-1,3,5,7,9-PENTANE-3,17-DIOL**mf: $C_{18}H_{19}O_2$ mw: 267.37**SYNS:** β -DIHYDROEQUILENIN \square β -DIHYDROEQUILENINA (SPANISH)**TOXICITY DATA with REFERENCE:**

imp-gpg TDLo:24 mg/kg:ETA,REP RBBIAL 5,1,45

SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**EDU100 HR: D****ESTRA-1,3,5(10)-TRIENE-17- β -DIOL-17-TETRAHYDROPYRANYL ETHER**mf: $C_{23}H_{32}O_3$ mw: 276.23**SYNS:** RS-2290 \square 17- β -(TETRAHYDRO-2H-PYRAN-2-YLOXY)-ESTRA-1,3,5(10)-TRIEN-3-OL**SAFETY PROFILE:** An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.**EDU500 CAS: 50-27-1 HR: 3****ESTRIOL**mf: $C_{18}H_{24}O_3$ mw: 288.42**PROP:** Small, white crystals. D: 0.965, mp: 214.6°, bp: 214.6°.**SYNS:** AACIFEMINE \square COLPOVISTER \square DESTRIOL \square DEUSLON-A \square ESTRA-1,3,5(10)-TRIENE-3,16- α ,17- β -TRIOL \square 1,3,5-ESTRATRIENE-3- β ,16- α ,17- β -TRIOL \square (16- α ,17- β)-ESTRA-1,3,5(10)-TRIENE-3,16,17-TRIOL \square ESTRATRIOL \square 3,16- α ,17- β -ESTRIOL \square 16- α ,17- β -ESTRIOL \square ESTRIOLO (ITALIAN) \square FOLLICULAR HORMONE HYDRATE \square GYNAESAN \square HEMOSTYPTANON \square HOLIN \square HORMOMED \square HORMONIN \square 16- α -HYDROXYESTRADIOL \square 16- α -HYDROXYOESTRADIOL \square KLIMORAL \square NSC-12169 \square OE3 \square OESTRA-1,3,5(10)-TRIENE-3,16- α ,17- β -TRIOL \square 1,3,5-OESTRATRIENE-3- β ,16- α ,17- β -TRIOL \square (16- α ,17- β)-OESTRA-1,3,5(10)-TRIENE-3,16,17-TRIOL \square OESTRATRIOL \square OESTRIOL \square 3,16- α ,17- β -OESTRIOL \square 16- α ,17- β -OESTRIOL \square ORGASTYPTIN \square OVESTERIN \square OVESTIN \square OVESTINON \square OVESTRION \square STIPTANON \square SYNAPAUSE \square THEELOL \square THULOL \square TRIDESTRIN \square 3,16- α ,17- β -TRIHYDROXY- Δ -1,3,5-ESTRATRIENE \square 3,16- α ,17- β -TRIHYDROXYESTRA-1,3,5(10)-TRIENE \square 3,16- α ,17- β -TRIHYDROXY- Δ -1,3,5-OESTRATRIENE \square TRIHYDROXYESTRIN \square 3,16- α ,17- β -TRIHYDROXYOESTRA-1,3,5(10)-TRIENE \square TRIHYDROXYOESTRIN \square TRIODURIN \square TRIOVEX**TOXICITY DATA with REFERENCE:**cyt-ham:ovr 50 μ mol/L TOLED5 29,201,85

imp-gpg TDLo:20 mg/kg:ETA,TER RBBIAL 5,1,45

CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 21,327,79; Human Limited Evidence IMEMDT 21,327,79; Animal Inadequate Evidence IMEMDT 6,117,74.**SAFETY PROFILE:** Suspected carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. Other experimental reproductive effects. Mutation data reported. A steroid drug for the treatment of menopause. When heated to decomposition it emits acrid smoke and irritating fumes.**EDU600 CAS: 10322-73-3 HR: D****ESTROFURATE**mf: $C_{24}H_{26}O_4$ mw: 378.50**PROP:** A solid. Mp: 166–168°.**SYNS:** AY-11483 \square AY 11483-16 \square 21,23-EPOXY-19,24-DINOR-17- α -CHOLA-1,3,5(10),7,20,22-HEXAENE-3,17-DIOL 3-ACETATE \square 17- α -(3-FURYL)ESTRA-1,3,5(10),7-TETRAENE-3,17-DIOL-3-ACETATE**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.**EDV000 CAS: 53-16-7 HR: 3****ESTRONE**mf: $C_{18}H_{22}O_2$ mw: 270.40**PROP:** White crystals from EtOH trimorphic. Mp: 254°. Insol in water; sol in alc, benzene, ether, and chloroform.**SYNS:** AQUACRINE \square CRISTALLOVAR \square CRYSTOGEN \square DESTRONE \square DISYNFORMON \square ENDOLFOLLICULINA \square ESTERONE \square 1,3,5-ESTRATRIEN-3-OL-17-ONE \square 1,3,5(10)-ESTRATRIEN-3-OL-17-ONE \square Δ -1,3,5-ESTRATRIEN-3- β -OL-17-ONE \square ESTRIN \square ESTROL \square ESTRON \square ESTRONA (SPANISH) \square ESTRONE-A \square ESTRUGENONE \square ESTRUSOL \square FEMESTRONE INJECTION \square FEMIDYN \square FOLIKRIN \square FOLIPEX \square FOLISAN \square FOLLESTRINE \square FOLLICULAR HORMONE \square FOLLICULIN \square FOLLICULINE BENZOATE \square FOLLICUNODIS \square FOLLIDRIN \square GLANDUBOLIN \square HIESTRONE \square HORMOFOLLIN \square HORMOVARINE \square 3-

HYDROXYESTRA-1,3,5(10)-TRIEN-17-ONE □ 3-HYDROXY-17-KETO-ESTRA-1,3,5-TRIENE □ 3-HYDROXY-17-KETO-OESTRA-1,3,5-TRIENE □ 3-HYDROXY-OESTRA-1,3,5(10)-TRIEN-17-ONE □ 3-HYDROXY-1,3,5(10)-OESTRATRIEN-17-ONE □ KESTRONE □ KETOESTRIN □ KETOHYDROXY-ESTRATRIENE □ KETOHYDROXYESTRIN □ KETOHYDROXYOESTRIN □ KOLPON □ MENAGEN □ MENFORMON □ Δ-1,3,5-OESTRATRIEN-3-β-OL-17-ONE □ 1,3,5-OESTRATRIEN-3-OL-17-ONE □ 1,3,5(10)-OESTRATRIEN-3-OL-17-ONE □ OESTRIN □ OESTROFORM □ OESTRONE □ OESTROPEROS □ OVEX □ OVIFOLLIN □ PERLATAN □ SOLLICULIN □ THEELIN □ THELESTRIN □ THELYKININ □ THYNESTRON □ TOKOKIN □ UNDEN □ WNYESTRON

TOXICITY DATA with REFERENCE:

dnd-rat-orl 870 nmol/kg CBINA8 23,13,78
cyt-rat-ipr 10 mg/kg CUSCAM 50,425,81
cyt-ham:ovr 50 μmol/L TOLED5 29,201,85
scu-gpg TDL₀:40 mg/kg/18W-I:ETA,TER CRSBAW 130,9,39

imp-gpg TDL₀:640 μg/kg:ETA,TER BSBSAS 8,142,51
imp-gpg TD:2 mg/kg:ETA,TER RBBIAL 5,1,45

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Human Limited Evidence IMEMDT 21,343,79; Animal Sufficient Evidence IMEMDT 6,123,74; IMEMDT 21,343,79. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. A poison by intraperitoneal and subcutaneous routes. Human reproductive effects by implantation: spermatogenesis and impotence. Mutation data reported. A steroid drug for the treatment of menopause and ovariectomy symptoms. When heated to decomposition it emits acrid smoke and irritating fumes.

EDV500 CAS: 2393-53-5 HR: 3 ESTRONE BENZOATE

mf: C₂₅H₂₆O₃ mw: 374.51

SYNS: BENZOATE d'OESTRONE (FRENCH) □ 3-(BENZOYLOXY)ESTRA-1,3,5(10)-TRIEN-17-ONE □ 3-HYDROXYESTRA-1,3,5(10)-TRIEN-17-ONE BENZOATE □ KETOHYDROXYESTRIN BENZOATE □ OESTRONBENZOAT (GERMAN)

CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 21,343,79.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes.

EDV555 CAS: 3342-64-1 HR: D ESTRONE 17-METHOXIME

mf: C₁₉H₂₅NO₂ mw: 299.45

SYNS: ESTRA-1,3,5(10)-TRIEN-17-ONE, 3-HYDROXY-, o-METHYLOXIME □ ESTRONE, o-METHYLOXIME

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

EDV600 CAS: 438-67-5 HR: 3 ESTRONE SODIUM SULFATE

mf: C₁₈H₂₂O₅S•Na mw: 373.45

SYNS: CONESTORAL □ ESTRA-1,3,5(10)-TRIEN-17-ONE, 3-(SULFOXY)-, SODIUM SALT (9CI) □ ESTRONE, HYDROGEN SULFATE, SODIUM SALT □ ESTRONE SULFATE SODIUM □ ESTRONE SULFATE SODIUM SALT □ ESTRONE-3-SULFATE SODIUM SALT □ EVEX □ MORESTIN □ OESTRONE-3-SULPHATE SODIUM SALT □ SODIUM ESTRONE SULFATE □ SODIUM ESTRONE-3-SULFATE

CONSENSUS REPORTS: NTP 10th Report on Carcinogens.

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

EDV700 CAS: 15686-63-2 HR: 3 ETABENZARONE

mf: C₂₃H₂₇NO₃ mw: 365.51

SYNS: BENZOFURAN, 3-(p-(2-(DIETHYLAMINO)ETHOXY)BENZOYL)-2-ETHYL- □ p-(2-(DIETHYLAMINO)ETHOXY)PHENYL 2-ETHYL-3-BENZOFURANYL KETONE □ KETONE, p-(2-(DIETHYLAMINO)-ETHOXY)PHENYL 2-ETHYL-3-BENZOFURANYL □ L 2642-LABAZ □ METHANONE, (4-(2-(DIETHYLAMINO)-ETHOXY)PHENYL)(2-ETHYL-3-BENZOFURANYL)-(9CI)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:225 mg/kg EJMCA5 14,517,79

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.

EDW000 CAS: 102534-95-2 HR: 3 ETABETACIN

PROP: An antibiotic extracted from cultures of a *Streptomyces* strain (AIPUAN 10,21,67).

TOXICITY DATA with REFERENCE:

orl-mus LD50:500 μg/kg AIPUAN 10,21,67

ipr-mus LD50:250 μg/kg AIPUAN 10,21,67

ivn-mus LD50:250 μg/kg AIPUAN 10,21,67

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes.

EDW100 CAS: 60207-93-4 HR: 2 ETACONAZOLE

mf: C₁₄H₁₅Cl₂N₃O₂ mw: 328.22

SYNS: BENIT □ CGA 64251 □ 1-((2-(2,4-DICHLOROPHENYL)-4-ETHYL-1,3-DIOXOLAN-2-YL)METHYL)-1H-1,2,4-TRIAZOLE □ SONAX □ 1H-1,2,4-TRIAZOLE, 1-((2-(2,4-DICHLOROPHENYL)-4-ETHYL-1,3-DIOXOLAN-2-YL)METHYL)- □ VANGARD

TOXICITY DATA with REFERENCE:

orl-rat LD50:1343 mg/kg PEMNDP 8,344,87

skn-rat LD50:>3100 mg/kg PEMNDP 8,344,87

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

EDW200 CAS: 299-20-7 HR: 3 ETAMYCIN

mf: C₄₄H₆₂N₈O₁₁ mw: 879.14

SYNS: ANTIBIOTIC F-1370A □ ANTIBIOTIC K-179 □ NEOVIRIDOGRISEIN IV □ ETAMYCIN A □ VIRIDOGRISEIN □ VIRIDOGRISEIN I

TOXICITY DATA with REFERENCE:

orl-mus LD50:>3 g/kg ABANAE 2,728,1954/1955
 ipr-mus LD50:274 mg/kg ABANAE 2,728,1954/1955
 scu-mus LD50:125 mg/kg 85GDA2 4(2),141,1980
 ivn-mus LD50:36 mg/kg ABANAE 2,733,1954/1955
 orl-dog LDLo:1 g/kg ABANAE 2,733,1954/1955
 orl-rbt LD50:>4 g/kg ABANAE 2,733,1954/1955

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

**EDW300 CAS: 34521-16-9 HR: 3
 ETEAI**

mf: C₁₁H₂₄N₃S•Br•BrH mw: 391.27

SYNS: 2-((4,5-DIHYDRO-1H-IMIDAZOL-2-YL)THIO)ETHYL-TRIETHYLAMMONIUM BROMIDE HYDROBROMIDE □ 2-((4,5-DIHYDRO-1H-IMIDAZOL-2-YL)-THIO)-N,N,N-TRIETHYL-ETHANAMINIUM, BROMIDE HYDROBROMIDE □ 2-(2-TRIETHYLAMINOETHYLTHIO)-Δ²-IMIDAZOLINE BROMIDE HYDROBROMIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:75 mg/kg CPBTAL 23,1639,75
 scu-mus LD50:109 mg/kg CPBTAL 23,1639,75
 ivn-mus LD50:53,900 µg/kg CPBTAL 23,1639,75

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x, NO_x, NH₃, and HBr.

**EDW500 CAS: 1837-57-6 HR: 3
 ETHACRIDINE LACTATE**

mf: C₁₅H₁₅N₃O•C₃H₆O₃ mw: 343.42

PROP: Pale-yellow crystals from EtOH/Et₂O. Mp: 235°.

SYNS: ACRINOL □ ACROLACTINE □ 2-AETHOXY-6,9-DIAMINOACRIDINYLACTAT (GERMAN) □ 2,5-DIAMINO-7-ETHOXYACRIDINE LACTATE □ 6,9-DIAMINO-2-ETHOXY-ACRIDINE LACTATE MONOHYDRATE □ ETHODIN □ 2-ETHOXY-6,9-DIAMINOACRIDINE LACTATE □ 2-ETHOXY-6,9-DIAMINOACRIDINE LACTATE HYDRATE □ 2-ETHOXY-6,9-DIAMINOACRIDINIUM LACTATE □ FLAVITROL □ METIFEX □ RIMAON □ RIVANOL □ RIVINOL □ VUCINE

TOXICITY DATA with REFERENCE:

mma-sat 16 µg/plate MUREAV 144,9,85
 dnd-esc 5 µmol/L MUREAV 89,95,81
 mmo-omi 250 mg/L PNASA6 56,500,66
 ipr-mus LD50:42 mg/kg NIIRDN 6,2,82
 scu-mus LD50:120 mg/kg BJEPAS 28,1,47
 ivn-rbt LDLo:30 mg/kg BSPHAV 40,582,33

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**EDW875 CAS: 1070-11-7 HR: 3
 ETHAMBUTOL DIHYDROCHLORIDE**

mf: C₁₀H₂₄N₂O₂•ClH mw: 240.82

PROP: A solid. Mp: 198.5–200.3°.

SYNS: CL 40881 □ DEXAMBUTOL □ EMB-FATOL □ ETAMBUTOL □ ETHAMBUTOL HYDROCHLORIDE □ ETHIBI □ ETHIOPIAN □ MYAMBUTOL □ MYCOBUTOL

TOXICITY DATA with REFERENCE:

mnt-mus-orl 50 mg/kg IRLCDZ 10,135,82
 spm-mus-orl 12,500 µg/kg IRLCDZ 10,135,82
 orl-man TDLo:45 mg/kg/3D-I:EYE BJDCAT 80,288,86
 orl-man TDLo:46 mg/kg/3D-I:EYE PGMJAO 61,811,85
 unr-wmn TDLo:720 mg/kg/48D:EYE ANOPB5 2,578,70
 orl-rat LD50:6800 mg/kg OYYAA2 2,70,68
 ipr-rat LD50:1200 mg/kg OYYAA2 2,70,68
 ivn-rat LD50:300 mg/kg OYYAA2 2,70,68
 orl-mus LD50:8900 mg/kg OYYAA2 2,70,68
 scu-mus LD50:1800 mg/kg OYYAA2 2,70,68
 ivn-mus LD50:230 mg/kg OYYAA2 2,70,68

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal and subcutaneous routes. Mildly toxic by ingestion. Human systemic effects: constriction of the pupil, visual field changes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also AMINES.

**EDX000 CAS: 51635-81-5 HR: 2
 ETHAMON DS**

PROP: A detergent (GISAAA 43(3),14,78).

TOXICITY DATA with REFERENCE:

par-rat LD50:4425 mg/kg GISAAA 43(3),14,78
 par-mus LD50:3500 mg/kg GISAAA 43(3),14,78

SAFETY PROFILE: Moderately toxic by parenteral route.

**EDX100 CAS: 147241-85-8 HR: D
 ETHANAMINE, 2-((3,4-DIHYDRO-2-METHYL-4-(3-(TRIFLUOROMETHYL)PHENYL)-2H-1-BENZOPYRAN-7-YL)OXY)-N,N-DIMETHYL-**

mf: C₂₁H₂₄F₃NO₂ mw: 379.46

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

**EDY600 HR: D
 ETHANDROSTATE**

mf: C₃₀H₄₄O₃ mw: 452.74

SYNS: 17-α-ETHINYL-Δ⁵-ANDROSTENE-3β,17β-DIOL 3-CYCLOHEXYLPROPIONATE □ 17-α-PREGN-5-EN-20-YNE-3β,17-DIOL-3-(3-CYCLOHEXYLPROPIONATE)

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

**EDZ000 CAS: 74-84-0 HR: 3
 ETHANE**

DOT: UN 1035/UN 1961

mf: C₂H₆ mw: 30.08

PROP: Colorless, odorless, flammable gas. Mp: −172°, bp: −88.6°, lel: 3.0%, uel: 12.5%, fp: −183.2°, d: 0.446 @ 0° (liquid), autoign temp: 959°F, vap d: 1.04, flash p: −202°F. Sol in EtOH, liquid O₂; sltly sol in H₂O.

SYNS: BIMETHYL □ DIMETHYL □ ETHANE, compressed (UN 1035) (DOT) □ ETHANE, refrigerated liquid (UN 1961) (DOT) □ ETHYL HYDRIDE □ METHYLMETHANE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: A simple asphyxiant. See ARGON for properties of simple asphyxiants. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Moderate explosion hazard when exposed to flame. To fight fire, stop flow of gas. Incompatible with chlorine, dioxygenyl tetrafluoroborate, oxidizing materials, heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes.

EEA000 CAS: 557-30-2 HR: 3
ETHANEDIAL DIOXIME

mf: $C_2H_4N_2O_2$ mw: 88.08

PROP: Crystals. D: 1.547, mp: 178° (decomp). Very sol in H_2O , EtOH, and Et_2O .

SYNS: GLYOXAL, DIOXIME □ GLYOXIME □ PIK-OFF

TOXICITY DATA with REFERENCE:

mno-esc 20 μ mol/plate MUREAV 164,263,86

orl-rat LD50:119 mg/kg 85ARAE 3,69,76/77

skn-rbt LD50:1580 mg/kg FMCHA2 -,C188,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x .

EEA500 CAS: 107-15-3 HR: 3
1,2-ETHANEDIAMINE

DOT: UN 1604

mf: $C_2H_8N_2$ mw: 60.12

PROP: Volatile, colorless, clear, thick, strongly alkaline, hygroscopic liquid; ammonia-like odor. Mp: 8.5°, bp: 117.2°, flash p: 110°F (CC), d: 0.8994 @ 20°/4°, vap press: 10.7 mm @ 20°, vap d: 2.07, autoign temp: 725°F. Sol in EtOH and H_2O (with hydration); insol in C_6H_6 ; sltly sol in Et_2O . IDLH 1000 ppm.

SYNS: AETHALDIAMIN (GERMAN) □ AETHYLENEDIAMIN (GERMAN) □ 1,2-DIAMINOETHAN (GERMAN) □ 1,2-DIAMINO-ETHAN (DUTCH) □ 1,2-DIAMINOETHANE □ 1,2-DIAMINO-ETHANO (ITALIAN) □ DIMETHYLENEDIAMINE □ ETHYLENEDIAMINE (DUTCH) □ ETHYLENEDIAMINE (OSHA) □ 1,2-ETHYLENEDIAMINE □ ETHYLENE-DIAMINE (FRENCH) □ NCI-C60402

TOXICITY DATA with REFERENCE:

skn-rbt 450 mg open MOD UCDS** 12/15/71

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

eye-rbt 675 μ g SEV AJOPAA 29,1363,46

eye-rbt 750 μ g/24H SEV 85JCAE -,440,86

mno-sat 33 μ g/plate ENMUDM 5(Suppl 1),3,83

mma-sat 1 mg/plate ENMUDM 5(Suppl 1),3,83

orl-mus TDLo:3200 mg/kg (female 6-13D post):REP TCMUD8 7,29,87

ihl-hmn TCLo:200 ppm:PNS AMIHBC 9,223,54

orl-rat LD50:500 mg/kg 85GMAT -,66,82

ihl-rat LCLo:4000 ppm/8H AMIHBC 4,119,51

ipr-rat LD50:76 mg/kg TXAPA9 21,454,72

scu-rat LD50:300 mg/kg 85GMAT -,66,82

ihl-mus LC50:300 mg/ m^3 85GMAT -,66,82

ipr-mus LD50:200 mg/kg CHTPBA 4,136,69

scu-mus LD50:424 mg/kg ARZNAD 4,649,54

ivn-dog LDLo:100 mg/kg HBAMAK 4,1295,35

skn-rbt LD50:730 mg/kg AMIHBC 4,119,51

scu-rbt LDLo:500 mg/kg HBAMAK 4,1295,35

orl-gpg LD50:470 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Extremely Hazardous Substances List.

OSHA PEL: TWA 10 ppm

ACGIH TLV: TWA 10 ppm; Not Classifiable as a Human Carcinogen

DFG MAK: 10 ppm (25 mg/ m^3)

DOT CLASSIFICATION: 8; Label: Corrosive, Flammable Liquid

SAFETY PROFILE: A human poison by inhalation. Experimental poison by inhalation, intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion and skin contact. Experimental reproductive effects. Corrosive. A severe skin and eye irritant. An allergen and sensitizer. Mutation data reported. Flammable liquid when exposed to heat, flame, or oxidizers. Can react violently with acetic acid, acetic anhydride, acrolein, acrylic acid, acrylonitrile, allyl chloride, CS_2 , chlorosulfonic acid, epichlorohydrin, ethylene chlorohydrin, HCl, mesityl oxide, HNO_3 , oleum, $AgClO_4$, H_2SO_4 , β -propiolactone, or vinyl acetate. To fight fire, use CO_2 , dry chemical, alcohol foam. When heated to decomposition it emits toxic fumes of NO_x and NH_3 . See also AMINES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-60 or NIOSH: Ethylenediamine, 2540.

EEA550 CAS: 28985-91-3 HR: 2
1,2-ETHANEDIAMINE, POLYMER WITH FORMALDEHYDE AND PHENOL (9CI)

mf: $(C_6H_6O \cdot C_2H_8N_2 \cdot CH_2O)_x$

SYNS: AGIDOL AF-2 □ ETHYLENEDIAMINEFORMALDEHYDE-PHENOL COPOLYMER □ ETHYLENE-DIAMINE-PHENOL-FORMALDEHYDE POLYMER □ ETHYLENEDIAMINE, POLYMER WITH FORMALDEHYDE AND PHENOL (8CI) □ FORMALDEHYDE-ETHYLENEDIAMINE-PHENOL COPOLYMER □ FORMALDEHYDE, POLYMER WITH 1,2-ETHANEDIAMINE AND PHENOL □ OM □ PHENOL CONDENSATION PRODUCTS, WITH ETHYLENEDIAMINE AND FORMALDEHYDE □ PHENOL, POLYMER WITH 1,2-ETHANEDIAMINE AND FORMALDEHYDE (9CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:940 mg/kg GISAAA 55(11),23,1990

orl-mus LD50:780 mg/kg GISAAA 55(11),23,1990

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

EEA600 CAS: 2224-15-9 HR: 2
1,2-ETHANEDIOL DIGLYCIDYL ETHER

mf: $C_8H_{14}O_4$ mw: 174.22

PROP: Clear yellow liquid. D: 1.15, bp: 125°. Flash pt: 132° C.

SYNS: 1,2-BIS(GLYCIDYLOXY)ETHANE □ DIGLYCIDYL-ETHYLENE GLYCOL □ 1,2-DIGLYCIDYLOXYETHANE □ ETHANE, 1,2-BIS(2,3-EPOXYPROPOXY)- □ 2,2'-(1,2-ETHANEDIOLBIS(OXYMETHYLENE))BISOXIRANE □ ETHYLENE DIGLYCIDYL ETHER □ ETHYLENE GLYCOL DIGLYCIDYL ETHER □ ETHYLENGLYKOLDIGLYCIDYLETHER □ GLYCOL DIGLYCIDYL ETHER □ OXIRANE, 2,2'-(1,2-ETHANEDIOLBIS(OXYMETHYLENE))BIS-(9CI)

TOXICITY DATA with REFERENCE:

mmo-sat 300 nmol/plate MUREAV 231,205,90
 oth-esc 1 mmol/L MUREAV 231,205,90
 sce-ham:lng 6250 nmol/L MUREAV 249,55,91
 orl-mus LD50:460 mg/kg 85JCAE -,775,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

EEA700 CAS: 81861-89-4 HR: 3
N,N'-(1,2-ETHANEDIOXYSULFINYL)BIS(S-METHYL-N-METHYLCARBAMOYLOXY-THIOACETIMIDATE)

mf: C₁₂H₂₂N₄O₈S₄ mw: 478.62

SYN: ETHANIMIDOTHIOIC ACID, N,N'-(1,2-ETHANEDIYLBIS-(OXY-SULFINYL(METHYLMINO)CARBONYLOXY))BIS-, DIMETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD50:52 mg/kg USXXAM #4315026

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

EEB000 CAS: 540-63-6 HR: 3
1,2-ETHANEDITHIOL

mf: C₂H₆S₂ mw: 94.20

PROP: A liquid. D: 1.124, bp: 146°.

SYNS: 1,2-DIMERCAPTOETHANE □ DITHIOETHYLENE-GLYCOL □ DITHIOGLYCOL □ ETHYLENE DIMERCAPTAN □ α-ETHYLENE DIMERCAPTAN □ ETHYLENE DITHIOGLYCOL □ ETHYLENEDITHIOL □ ETHYL HYDROPSULFIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:342 mg/kg DCTODJ 3,249,80
 ipr-mus LD50:50 mg/kg EJMCAS 17,235,82
 ivn-mus LD50:56,200 µg/kg CSLNX* NX#02101

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits very toxic fumes of SO_x. See also MERCAPTANS.

EEB025 CAS: 81861-95-2 HR: 3
N,N'-(1,2-ETHANEDITHIOSULFINYL)BIS(2,3-DIHYDRO-2,2-DIMETHYLBENZOFURANYL-7) METHYLCARBAMATE

mf: C₂₆H₃₂N₂O₈S₄ mw: 628.84

SYN: 3,4,7,8-TETRATHIA-2,9-DIAZADECANEDIOIC ACID, 2,9-DIMETHYL-, BIS(2,3-DIHYDRO-2,2-DIMETHYL-7-BENZOFURANYL) ESTER, 3,8-DIOXIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:87 mg/kg USXXAM #4315026

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

EEB050 CAS: 81861-94-1 HR: 3
N,N'-(1,2-ETHANEDITHIOSULFINYL)BIS(S-METHYL-N-METHYLCARBAMOYLOXY-

THIOACETIMIDATE)

mf: C₁₂H₂₂N₄O₆S₆ mw: 510.74

SYN: ETHANIMIDOTHIOIC ACID, N,N'-(1,2-ETHANEDIYLBIS-(THIOSULFINYL(METHYLMINO)CARBONYLOXY))BIS-, DIMETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD50:250 mg/kg USXXAM #4315026

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

EEB100 CAS: 2001-94-7 HR: 1
N,N'-1,2-ETHANEDIYLBIS(N-(CARBOXY-METHYL)-GLYCINE), DIPOTASSIUM SALT

mf: C₁₀H₁₄N₂O₈•2K mw: 368.46

SYNS: ACETIC ACID, (ETHYLENEDINITRILIO)TETRA-, DIPOTASSIUM SALT □ DIPOTASSIUM ETHYLENEDI-AMINETETRAACETATE □ (ETHYLENEDINITRILIO)TETRA-ACETATE DIPOTASSIUM SALT

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD FCTOD7 20,563,82
 eye-rbt 100 mg FCTOD7 20,573,82
 eye-rbt 100 mg/30S RNS MLD FCTOD7 20,573,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EEB200 CAS: 76615-66-2 HR: 3
3,3'-(1,2-ETHANEDIYLBIS(DIMETHYLSILYL-ENE))BIS(N,N,N-TRIMETHYL-1-PROPAN-AMINIUM) DIODIDE

mf: C₁₈H₄₆N₂Si₂•2I mw: 600.64

SYNS: 1-PROPANAMINIUM, 3,3'-(1,2-ETHANEDIYLBIS-(DIMETHYLSILYLENE))BIS(N,N,N-TRIMETHYL-), DIODIDE □ N,N'-(4,4,7,7-TETRAMETHYL-4,7-DISILADECAMETHYLEN)BIS-(TRIMETHYLAMMONIUMDIODID)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:420 µg/kg LACHDL (11),1859,80

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and I₂.

EEB225 CAS: 20247-50-1 HR: 2
1,1'-(1,2-ETHANEDIYL)BIS(1-METHYLHYDRA-ZINE)

mf: C₄H₁₄N₄ mw: 118.22

SYNS: N',N"-DIMETHYLETHYLENEDIHYDRAZINE □ HYDRAZINE, 1,1'-(1,2-ETHANEDIYL)BIS(1-METHYL- □ HYDRAZINE, 1,1'-ETHYLENEBIS(1-METHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:1210 mg/kg STGNBT-,85,1999
 ihl-rat LC50:1410 mg/m³ STGNBT-,85,1999
 orl-mus LD50:2200 mg/kg STGNBT-,85,1999
 ihl-mus LC50:2090 mg/m³ STGNBT-,85,1999
 ipr-mus LD50:850 mg/kg STGNBT-,85,1999

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

EEB230 CAS: 61262-53-1 HR: 2
1,1'-(1,2-ETHANEDIYLBIS(OXY))BIS(2,3,4,5,6-

PENTABROMOBENZENE)mf: C₁₄H₄Br₁₀O₂ mw: 1003.28

SYNS: BENZENE, 1,1'-(1,2-ETHANEDIYLBIS(OXY))BIS(2,3,4,5,6-PENTABROMO- □ 1,2-BIS(PENTABROMOPHENOXY)ETHANE □ 1,2-BIS(2,3,4,5,6-PENTABROMOPHENOXY)ETHANE □ HX-487 □ ETHYLENE BIS(PENTABROMOPHENOXY) □ FIREMASTER 695 □ PYRO-CHEK 77B

TOXICITY DATA with REFERENCE:

orl-rat LD50:>15,380 mg/kg NTIS** OTS0522204
ihl-rat LC50:>810 mg/m³/4H NTIS** OTS0522205
skn-rbt LD50:>2 g/kg NTIS** OTS0522204

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

**EEB250 CAS: 37853-59-1 HR: 1
1,1'-(1,2-ETHANEDIYLBIS(OXY))BIS(2,4,6-TRIBROMOBENZENE)**mf: C₁₄H₈Br₆O₂ mw: 687.68

PROP: Mp: 224°, bp: ca. 502°. Water sol: 0.2 (mg/@ 25 C).

SYNS: BENZENE, 1,1'-(1,2-ETHANEDIYLBIS(OXY))BIS(2,4,6-TRIBROMO- □ FF 680 □ FIREMASTER 680 □ FIREMASTER FF 680

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL MLD NTIS** OTS0523233

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits toxic vapors of Br⁻.

**EEB500 HR: 3
ETHANE HEXAMERCARBIDE**mf: C₂Hg₆O₂(OH)₂ mw: 1269.56

PROP: Yellowish-white powder. Vap d: 44.6, explodes @ 230°. Insol in water. 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 dangerous explosion hazard. Explodes when shocked or heated to 230°C. Incompatible with oxidizing materials. When heated to decomposition or on contact with acid or acid fumes, below 230°C it emits highly toxic fumes of Hg. See also MERCURY COMPOUNDS, ORGANIC.

**EEB600 CAS: 80841-48-1 HR: D
ETHANESULFONIC ACID, 2-HYDROXY-,
compounded with 9-((2-METHOXY-4-
((METHYLSULFONYL)AMINO)PHENYL)AMINO)
N,5-DIMETHYL-4-
ACRIDINECARBOXAMIDE (1:1)**mf: C₂H₆O₄S•C₂₄H₂₄N₄O₄S mw: 590.72**SYN:** NSC 343499**TOXICITY DATA with REFERENCE:**

mic-sat 100 µLg/plate MUREAV 204,207,1988
mnt-ham-lng 100 nmol/L MUREAV 204,207,1988

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

**EEEC000 CAS: 594-44-5 HR: 3
ETHANESULFONYL CHLORIDE**mf: C₂H₅ClO₂S mw: 128.58

PROP: Oil. D: 1.357, bp: 177.5°. Slightly sol (decomp) in water and alc; very sol in ether and CH₂Cl₂.

SYNS: ETHYLSULFOCHLORIDE □ TL 77**TOXICITY DATA with REFERENCE:**

ihl-mus LCLo:1220 mg/m³/10M NDRC** NDCrc-132, Aug, 42

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by inhalation. When heated to decomposition it emits very toxic fumes of Cl⁻ and SO_x.

EEEC100 CAS: 811-97-2 HR: 2**ETHANE, 1,1,1,2-TETRAFLUORO-**mf: C₂H₂F₄ mw: 102.04

PROP: Colorless gas or cryogenic liquid with ether like odor. Mp: -101°, bp: -26°C. Insol in water.

SYNS: ARCTON 134A □ HFC 134A □ NORFLURANE □ R 134A □ REFRIGERANT R134A □ 1,1,1,2-TETRAFLUOROETHANE □ 1,2,2,2-TETRAFLUOROETHANE

TOXICITY DATA with REFERENCE:

ihl-rat TCLo:50,000 ppm/6H/2Y-I:NEO FAATDF 25,271,95

ihl-rat LC :>81 pph/1H HETOEA 14,715,95

ihl-mus LC :>81 pph/1H HETOEA 14,715,95

ihl-dog LC :>32 pph/1H HETOEA 14,715,95

DFG MAK: 1000 ppm

SAFETY PROFILE: An asphyxiation hazard.

Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic vapors of F⁻.

**EEEC600 CAS: 141-43-5 HR: 3
ETHANOLAMINE****DOT:** UN 2491mf: C₂H₇NO mw: 61.10

PROP: Colorless, viscous, hygroscopic liquid with ammonia-like odor. Bp: 170.5°, fp: 10.5°, flash p: 200°F (OC), d: 1.012 @ 25°/4°, vap press: 6 mm @ 60°, vap d: 2.11. Misc in water and alc; slightly sol in benzene; sol in chloroform. IDLH 30 ppm.

SYNS: AETHANOLAMIN (GERMAN) □ 2-AMINOETHANOL (GERMAN) □ 2-AMINOETHANOL (ITALIAN) □ 2-AMINO-ETHANOL (MAK) □ β-AMINOETHYL ALCOHOL □ COLAMINE □ ETANOLAMINA (ITALIAN) □ β-ETHANOLAMINE □ ETHANOLAMINE, solution (DOT) □ ETHYLOLAMINE □ GLYCINOL □ β-HYDROXYETHYLAMINE □ 2-HYDROXY-ETHYLAMINE □ MEA □ MONOETHANOLAMIN (GERMAN) □ MONOETHANOLAMINE □ OLAMINE □ THIOFACO M-50 □ USAF EK-1597

TOXICITY DATA with REFERENCE:

skn-rbt 505 mg open MOD UCDS** 1/13/73

eye-rbt 763 µg SEV AJOPAA 29,1363,46

cyt-hmn:lyms 100 µmol/L BMAOA3 39,422,86

sce-hmn:lyms 1 mmol/L CYGEDX 21(6),29,87

orl-rat TDLo:500 mg/kg (female 6-15D post):TER TCMUD8 6,403,86

orl-rat LD50:1720 mg/kg TXAPA9 42,417,77

ipr-rat LD50:67 mg/kg EVSSAV 2,289,68

scu-rat LD50:1500 mg/kg GTPZAB 23(9),55,79

ivn-rat LD50:225 mg/kg KBMEAL (4),44,68

ims-rat LD50:1750 mg/kg GTPZAB 23(9),55,79

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

EEE100 CAS: 21145-77-7 HR: 3
ETHANONE, 1-(5,6,7,8-TETRAHYDRO-3,5,5,6,8,8-HEXAMETHYL-2-NAPHTHALENYL)-

mf: $\text{C}_{18}\text{H}_{26}\text{O}$ mw: 258.44

SYNS: AHMT (PERFUME) \square 2'-ACETONAPHTHONE, 5',6',7',8'-TETRAHYDRO-3',5',5',6',8',8'-HEXAMETHYL- \square 6-ACETYL-1,1,2,4,4,7-HEXAMETHYLTETRALINE \square AHTN \square MUSK TONALID \square TONALID \square TONALIDE

TOXICITY DATA with REFERENCE:

uns-ham-ovr 20 mg/L MUREAV 446,67,1999
 cyt-ham-ovr 18 mg/L MUREAV 446,67,1999
 orl-rat LD50:570 mg/kg DLUAJ 94,268,1998
 skn-rat LD50:7940 mg/kg DLUAJ 94,268,1998
 skn-rbt LD50:>5 g/kg DLUAJ 94,268,1998

SAFETY PROFILE: A poison by ingestion. Low toxicity by skin contact. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

EEE200 CAS: 38527-91-2 HR: 3
ETHAPHOS

mf: $\text{C}_{11}\text{H}_{15}\text{Cl}_2\text{O}_3\text{PS}$ mw: 329.19

SYNS: ETAFOS \square ETAPHOS \square PHOSPHOROTHIOIC ACID, o-(2,4-DICHLOROPHENYL) o-ETHYL S-PROPYL ESTER \square PROTHIOFOS-OXON \square TOKUTHION OXON

TOXICITY DATA with REFERENCE:

orl-rat LD50:320 mg/kg VAMNAQ (8),55,1980
 orl-mus LD50:150 mg/kg PCBPBS 14,98,1980
 ihl-mus LC50:36 g/ m^3 /2H VETNAL 60(9),27,1984

SAFETY PROFILE: A poison by ingestion. Low toxicity by ingestion. inhalation. When heated to decomposition it emits toxic vapors of PO_x , SO_x , and Cl^- .

EEE300 CAS: 736-31-2 HR: D
(E)-1,1'-(1,2-ETHENEDIYL)BIS(4-NITROBENZENE)

mf: $\text{C}_{14}\text{H}_{10}\text{N}_2\text{O}_4$ mw: 270.26

SYNS: BENZENE, 1,1'-(1,2-ETHENEDIYL)BIS(4-NITRO-, (E)- \square (E)-p,p'-DINITROSTILBENE \square (E)-4,4'-DINITROSTILBENE \square STILBENE, 4,4'-DINITRO-, (E)-

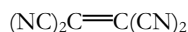
TOXICITY DATA with REFERENCE:

mic-sat 1 nmol/plate MUREAV 341,57,1994

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

EEE500 CAS: 670-54-2 HR: 3
ETHENETETRACARBONITRILE

mf: C_6N_4 mw: 128.10



PROP: Colorless crystals from chlorobenzene. Subl at >120°, mp: 198–200°, bp: 223°.

SYNS: $\Delta^{2,2}$ -BIMALONONITRILE \square TETRACYANOETHENE \square 1,1,2,2-TETRACYANOETHENE \square TETRACYANOETHYLENE \square 1,1,2,2-TETRACYANOETHYLENE \square TETRAKYANETHYLEN

TOXICITY DATA with REFERENCE:

orl-mus LD50:29 mg/kg KHZDAN 9,50,66

ivn-mus LD50:4500 $\mu\text{g}/\text{kg}$ CSLNX* NX#01707

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

SAFETY PROFILE: Poison by ingestion and intravenous routes. Violent reaction with 1-methylsilacyclopenta-2,4-diene at 150°C. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

EEE550 CAS: 81004-54-8 HR: D
ETHENO DEOXYADENOSINE TRIPHOSPHATE

mf: $\text{C}_{12}\text{H}_{16}\text{N}_5\text{O}_{12}\text{P}_3$ mw: 515.24

SYNS: 1,N⁶-ETHENODEOXYADENOSINE TRIPHOSPHATE \square 3H-IMIDAZO(2,1-I)PURINE, 3-(2-DEOXY-5-o-(HYDROXY-((HYDROXY(PHOSPHONOXY)PHOSPHINYL)OXY)PHOSPHINYL)- β -d-ERYTHRO-PENTOFURANOSYL)-

TOXICITY DATA with REFERENCE:

cyt-mus-oth 75 $\mu\text{mol}/\text{L}$ CRNGDP 11,571,1990
 sce-mus-lym 50 $\mu\text{mol}/\text{L}$ CNREA8 49,3839,1989
 sce-mus-oth 75 $\mu\text{mol}/\text{L}$ CRNGDP 11,571,1990

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

EEE600 CAS: 13965-63-4 HR: 3
6,14-ETHENOMORPHINAN-7-METHANOL, 3,6-DIMETHOXY- α -17-DIMETHYL-4,5-EPOXY- α -(2-PHENYL ETHYL)-, (5- α -7- α (R))-

mf: $\text{C}_{31}\text{H}_{37}\text{NO}_4$ mw: 487.69

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg AGACBH 6,755,76

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

EEE650 CAS: 57137-10-7 HR: 2
ETHENYLBENZENE TRIBROMO DERIV. HOMOPOLYMER

mf: $(\text{C}_8\text{H}_5\text{Br}_3)_x$

PROP: Fragrance chemical.

SYNS: BENZENE ETHENYL-, HOMOPOLYMER, BROMINATED \square BENZENE, ETHENYL-, TRIBROMO DERIV., HOMOPOLYMER \square POLY(TRIBROMOSTYRENE) \square PYRO-CHEK LM \square PYRO-CHEK 63PB \square TRIBROMINATED POLYSTYRENE

TOXICITY DATA with REFERENCE:

eye-rbt 70 mg/24H MLD NTIS** OTS0522211
 orl-rat LD50:>15,380 mg/kg NTIS** OTS0522211
 ihl-rat LC50:>1920 mg/ m^3 /4H NTIS** OTS0522212
 skn-rbt LD50:>3038 mg/kg NTIS** OTS0522213

SAFETY PROFILE: Moderately toxic by skin contact. Low toxicity by ingestion and skin contact. A mild eye irritant. When heated to decomposition it emits toxic vapors of Br^- .

EEE700 CAS: 765-05-9 HR: 2
1-(ETHENYLOXY)DECANE

mf: $\text{C}_{12}\text{H}_{24}\text{O}$ mw: 184.36

SYNS: DECANE, 1-(ETHENYLOXY)- \square DECYL VINYL ETHER \square ETHER, DECYL VINYL (6CI,7CI,8CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:3940 mg/kg FCTOD7 30,17S,92

skn-rbt LD50:>5 g/kg FCTOD7 30,17S,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**EEE800 CAS: 2177-18-6 HR: 3
ETHENYL 2-PROPENOATE**

mf: C₅H₆O₂ mw: 98.11

SYNS: ACRYLIC ACID, VINYL ESTER □ 2-PROPENOIC ACID, ETHENYL ESTER □ VINYL ACRYLATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL SEV NTIS** OTS0529778-1

eye-rbt 5 µL SEV NTIS** OTS0529778-1

orl-rat LD50:90 µL/kg NTIS** OTS0529778-1

ihl-rat LC50:1450 ppm/4H NTIS** OTS0529778-1

SAFETY PROFILE: A poison by ingestion. Low toxicity by ingestion. inhalation. A severe skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

**EEF000 CAS: 17088-21-0 HR: 2
1-ETHENYL PYRENE**

mf: C₁₈H₁₂ mw: 228.2

SYNS: 1-VINYLPYRENE □ 3-VINYLPYRENE

TOXICITY DATA with REFERENCE:

mma-sat 10 nmol/plate CNREA8 40,642,80

skn-mus TDLo:3651 µg/kg:ETA CNREA8 40,642,80

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

**EEF500 CAS: 73529-25-6 HR: 2
4-ETHENYL PYRENE**

mf: C₁₈H₁₂ mw: 228.2

SYN: 4-VINYLPYRENE

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

**EEG000 CAS: 88-12-0 HR: 3
1-ETHENYL-2-PYRROLIDINONE**

mf: C₆H₉NO mw: 111.16

PROP: Colorless liquid, water-sol. Bp: 148° @ 100 mm, fp: 13.5°, flash p: 209°F (OC), d: 1.04 @ 25°, autoign temp: 687°F, vap d: 3.8, fire p: 213°F.

SYNS: VINYL BUTYROLACTAM □ N-VINYLPYRROLIDINONE □ N-VINYL-2-PYRROLIDINONE □ 1-VINYL-2-PYRROLIDINONE □ VINYLPYRROLIDONE □ N-VINYLPYRROLIDONE □ N-VINYL-2-PYRROLIDONE (ACGIH) □ 1-VINYL-2-PYRROLIDONE □ V-PYROL

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg SEV BurLW# 02NOV78

orl-rat LD50:1470 mg/kg BurLW# 02NOV78

ihl-rat LC50:3200 mg/m³ BurLW# 02NOV78

skn-rbt LD50:560 mg/kg BurLW# 02NOV78

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87. Reported in EPA TSCA Inventory.

ACGIH TLV: 0.05 ppm; Confirmed Animal Carcinogen

DFG MAK: Confirmed Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Confirmed carcinogen.

Moderately toxic by ingestion, inhalation, and skin contact. A severe eye irritant. Probably irritating and narcotic in high concentrations. Combustible when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits highly toxic fumes of NO_x.

**EEG100 HR: 2
ETHER, BIS(2-CHLORO-1-METHYLETHYL),
mixed with 2-CHLORO-1-METHYLETHYL-(2-
CHLOROPROPYL)ETHER (7:3)**

mf: C₆H₁₂Cl₂O mw: 171.08

SYN: BIS(2-CHLORO-1-METHYLETHYL)ETHER mixed with 2-CHLORO-1-METHYLETHYL-(2-CHLOROPROPYL)ETHER

TOXICITY DATA with REFERENCE:

orl-mus TDLo:51,500 mg/kg/2Y-I:CAR NTPTR* NTP-TR-239,82

orl-mus TD:103 g/kg/2Y-I:CAR NTPTR* NTP-TR-239,82

CONSENSUS REPORTS: Reported in NTP Carcinogenesis Bioassay (gavage); Clear Evidence: mouse NTPTR* NTP-TR-239,83.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic vapors of Cl⁻.

**EEG500 HR: 3
ETHERS**

PROP: Organic compounds in which an oxygen atom is interposed between two carbon atoms in the structure of the molecule.

SAFETY PROFILE: The simpler ethers such as ethyl ether, isopropyl ether, etc., are powerful narcotics that in large doses can cause death. The danger from ethers is usually acute and seldom chronic. Aftereffects to ether intoxication are uncommon although continued exposure to small concentrations (not enough to cause an overt symptom) has been known to cause loss of appetite, excessive thirst, and fatigue.

The most common ethers, such as ethyl, methyl, and diisopropyl, are particularly dangerous fire and explosion hazards when exposed to heat, flame, or sparks. They can react violently with strong oxidizers. Many plant and laboratory fires and explosions have resulted from their high flammability and tendency to form explosive peroxides. The common ethers are easily ignited and have low flash points. The diethyl, ethyl tert-butyl, ethyl tert-pentyl, and diisopropyl ethers are very hazardous. Methyl tert-alkyl ethers are relatively safe. Besides the risk of explosion from air mixtures of ether vapors, ethers tend to form peroxides upon standing. For some ethers peroxide levels do not reach dangerous concentrations (e.g., diethyl ether, ethyl vinyl ether, tetrahydrofuran, p-dioxane, 1,1-diethoxyethane, and the dimethyl ethers of ethylene glycol). When ethers containing peroxides are heated they

can detonate. It is necessary to control smoking, open flames, or even the use of hot plates in areas where low-molecular-weight ethers are apt to reach 1% concentration or more in air. Only electrical equipment of explosion-proof type (Group C classification) is permitted to be operated in ether areas. Ethers should not be stored near powerful oxidizers or in areas of high fire hazard. They should be kept cool and the containers electrically grounded to avoid sparks.

Dangerous; shock or heat can cause gaseous ethers to escape from their containers and create flammable or even explosive conditions. Incompatible with oxidizing materials, BI_3 . See also ETHYL ETHER.

EEH000 CAS: 126-52-3 HR: 3

ETHINAMATE

mf: $\text{C}_9\text{H}_{13}\text{NO}_2$ mw: 167.23

PROP: Rods or needles from cyclohexane. Mp: 96–98°, bp: 118–122° @ 3 mm. Very sol in EtOH; sltly sol in hexane; very sltly sol in H_2O .

SYNS: CARBAMATE de l'ETHINYLCYCLOHEXANOL (FRENCH) □ 1-ETHINYLCYCLOHEXYL CARBAMATE □ 1-ETHINYLCYCLOHEXYL CARBONATE □ 1-ETHINYLCYCLOHEXANOL CARBAMATE □ 1-ETHINYLCYCLOHEXYL CARBAMATE □ 1-ETHINYLCYCLOHEXYL ESTER CARBAMIC ACID □ ETINAMATE □ USAF EL-42 □ VALAMINA □ VALAMINETTEN □ VALMID □ VALMIDATE □ VOLAMIN

TOXICITY DATA with REFERENCE:

orl-hmn LDLo: 57 mg/kg TOIZAG 7,513,60
orl-rat LD50: 331 mg/kg JAPMA8 45,40,56
scu-rat LD50: 390 mg/kg ARZNAD 4,477,54
ivn-rat LD50: 157 mg/kg JAPMA8 45,40,56
orl-mus LD50: 490 mg/kg JAPMA8 45,40,56
ipr-mus LD50: 300 mg/kg NTIS** AD277-689
ivn-mus LD50: 108 mg/kg JAPMA8 45,40,56
orl-dog LD50: 190 mg/kg DRUGAY 6,111,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A deadly human poison. Experimental poison by ingestion, intravenous, subcutaneous, and intraperitoneal routes. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x . See also CARBAMATES.

EEH500 CAS: 57-63-6 HR: 3

ETHINYL ESTRADIOL

mf: $\text{C}_{29}\text{H}_{24}\text{O}_2$ mw: 296.44

PROP: Crystals from MeOH (aq). Mp: 145–146°.

SYNS: 3,17- β -DIHYDROXY-17- α -ETHINYLYL-1,3,5(10)-ESTRADIENE □ 3,17- β -DIHYDROXY-17- α -ETHINYLYL-1,3,5(10)-OESTRADIENE □ ESTROGEN □ 17- α -ETHINYLYL-3,17-DIHYDROXY- $\Delta^{1,3,5}$ -ESTRADIENE □ 17- α -ETHINYLYL-3,17-DIHYDROXY- $\Delta^{1,3,5}$ -OESTRADIENE □ 17-ETHINYLESTRADIOL □ 17-ETHINYLYL-3,17-ESTRADIOL □ 17- α -ETHINYLYL-17- β -ESTRADIOL □ 17- α -ETHINYLESTRA-1,3,5(10)-TRIENE-3,17- β -DIOL □ ETHINYLESTRIOL □ ETHINYLESTRADIOL □ 17-ETHINYLYL-3,17-OESTRADIOL □ ETHINYLYL-OESTRANOL □ 17- α -ETHINYLESTRA-1,3,5(10)-TRIENE-3,17- β -DIOL □ 17- α -ETHINYLYL- $\Delta^{1,3,5(10)}$ -OESTRADIENE-3,17- β -DIOL □ ETHINYLESTRIOL □ 17-ETHINYLYL-3,17-DIHYDROXY-1,3,5-OESTRADIENE □ ETHINYLESTRADIOL □

17- α -ETHINYLESTRADIOL □ 17- α -ETHINYLESTRADIOL-17- β □ 17- α -ETHINYLYL-1,3,5(10)-ESTRADIENE-3,17- β -DIOL □ 17- α -ETHINYLESTRA-1,3,5(10)-TRIENE-3,17- β -DIOL □ ETHINYLESTRADIOL □ 17-ETHINYLESTRADIOL □ 17- α -ETHINYLESTRADIOL □ 17- α -ETHINYLYL-17- β -OESTRADIOL □ 17- α -ETHINYLESTRADIOL-17- β □ 17-ETHINYLESTRA-1,3,5(10)-TRIENE-3,17- β -DIOL □ 17- α -ETHINYLYL-1,3,5-OESTRADIENE-3,17- β -DIOL □ 17- α -ETHINYLYL-1,3,5(10)-OESTRADIENE-3,17- β -DIOL □ 17- α -ETHINYLESTRA-1,3,5(10)-TRIENE-3,17- β -DIOL □ 19-NOR-17- α -PREGNA-1,3,5(10)-TRIEN-2-YNE-3,17-DIOL □ (17- α)-19-NORPREGNA-1,3,5(10)-TRIEN-20-YNE-3,17-DIOL

TOXICITY DATA with REFERENCE:

mno-ssp 50 $\mu\text{g}/\text{plate}$ EGJBAY 20,29,79
dni-hmn:lym 50 $\mu\text{mol}/\text{L}$ PSEBAA 146,401,74
orl-wmn TDLo: 21 mg/kg/21D-1:GIN LANCAO 1,1479,73
orl-rat LD50: 1200 mg/kg DRUGAY -,184,90
ipr-rat LD50: 471 mg/kg YACHDS 18,2583,90
orl-mus LD50: 1737 mg/kg TXAPA9 18,185,71
ipr-mus LD50: 250 mg/kg YACHDS 18,2583,90
orl-mus LD50: 1737 mg/kg TXAPA9 18,185,71

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Human Limited Evidence IMEMDT 21,233,79; Animal Sufficient Evidence IMEMDT 6,77,74; IMEMDT 21,233,79. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, tumorigenic, and neoplastigenic data. Poison by intraperitoneal route. Moderately toxic by ingestion. Human systemic effects by ingestion: glandular effects. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTRADIOL.

EEH520 CAS: 8015-12-1 HR: 3
ETHINYL ESTRADIOL and NORETHINDRONE ACETATE

mf: $\text{C}_{22}\text{H}_{28}\text{O}_3 \cdot \text{C}_{20}\text{H}_{24}\text{O}_2$ mw: 636.94

SYNS: ANOVLAR 21 □ CONTROVLAR □ ETHINYL OESTRADIOL mixed with NORETHISTERONE ACETATE □ GYN-ANOVLAR □ GYNONLAR 21 □ MINORLAR □ MINOVLAR □ NORETHINDRONE ACETATE and ETHINYLESTRADIOL □ NORETHISTERONE ACETATE mixed with ETHINYL OESTRADIOL □ NORLESTRIN □ PRIMODOS

SAFETY PROFILE: Suspected human carcinogen producing lung and liver tumors. Experimental neoplastigenic and tumorigenic data. Human and experimental teratogenic and reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

EEH550 CAS: 68-23-5 HR: 3
17- α -ETHINYL-5,10-ESTRENOLONE

mf: $\text{C}_{20}\text{H}_{26}\text{O}_2$ mw: 298.46

PROP: Crystals from MeOH. Mp: 180–181.5°.

SYNS: 17-ETHINYLYL-5(10)-ESTRAENEOLONE □ 17- α -ETHINYLYL-ESTRA(5,10)ENEOLONE □ 17- α -ETHINYLYL-5(10)-ESTREN-17-OL-3-ONE □ 17- α -ETHINYLESTR-5(10)-EN-17- β -OL-3-ONE □ 17- α -ETHINYLYL-ESTR-5(10)-EN-3-ON-17- β -OL □ 17- α -ETHINYLYL-17-HYDROXYESTR-5(10)-EN-3-ONE □ 17- α -ETHINYLYL-17-HYDROXY-5(10)-ESTREN-3-ONE □ 17- α -

effects. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

EEI025 **HR: 2**
ETHISTERONE and DIETHYLSTILBESTROL

mf: C₂₁H₂₈O₂•C₁₈H₂₀O₂ mw: 580.87

SYNS: DIETHYLSTILBESTROL and ETHISTERONE □
 DIETHYLSTILBESTROL and PRANONE □ PRANONE and
 DIETHYLSTILBESTROL □ PRANONE and STILBESTROL □ 17-
 α-PREGN-4-EN-20-YN-3-ONE, 17-HYDROXY-, and trans-α-α'-
 DIETHYL-4,4'-STILBENEDIOL □ STILBESTROL and PRANONE

SAFETY PROFILE: Questionable human carcinogen
 producing uterine tumors. An experimental teratogen.
 When heated to decomposition it emits acrid smoke and
 irritating fumes.

EEI050 **CAS: 29560-58-5** **HR: 3**
ETHMOSINE

mf: C₂₂H₂₅N₃O₄S•ClH mw: 464.02

SYNS: EN 313 □ ETHMOZINE □ ETHYL ETHER of 10-(β-
 MORPHOLYLPROPIONYL)PHENTHIAZINECARBAMINO ACID
 HYDROCHLORIDE □ ETHYL 10-(3-MORPHOLINOPROPION-
 YL)-PHENOTHIAZINE-2-CARBAMATE HYDRO-CHLORIDE □
 ETMOZIN

TOXICITY DATA with REFERENCE:

orl-rat LD50:1 g/kg FATOAO 53(3),30,90
 ipr-rat LD50:105 mg/kg FATOAO 48(1),60,85
 ivn-rat LD50:11 mg/kg FATOAO 53(3),30,90
 ipr-mus LD50:131 mg/kg RPTOAN 35,74,72
 ivn-mus LD50:36 mg/kg RPTOAN 35,74,72

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

SAFETY PROFILE: Poison by intravenous and
 intraperitoneal routes. An antiarrhythmic and tranquilizer.
 When heated to decomposition it emits toxic fumes of
 SO_x, NO_x and HCl. See also CARBAMATES.

EEI060 **CAS: 53127-17-6** **HR: 2**
ETHODUOMEEN

TOXICITY DATA with REFERENCE:

ipr-mus LD50:614 mg/kg DZZEA7 35,1070,80

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

EEI100 **HR: 2**
ETHODUOMEEN, HYDROFLUORIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:470 mg/kg DZZEA7 35,1070,80

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

EEJ000 **CAS: 61791-14-8** **HR: 2**
ETHOMEEN C/15

PROP: A polyoxyethylene (5%) cocoa amine in which
 alkyl bonds link C₈–C₁₈ carbons, which consists of
 dodecyl (47%), undecyl (18%), decyl (9%), octyl (8%),
 hexadecyl (10%), and octadecyl (5%) (FCTXAV 8,249,70).

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MOD FCTXAV 8,249,70
 orl-rat LD50:750 mg/kg FCTXAV 8,249,70

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

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

EEJ500 **CAS: 61791-24-0** **HR: 2**
ETHOMEEN S/12

PROP: Polyoxyethylene (2%) soya amine alkyl links
 C₁₄–C₁₈ which consists of octadecadienyl (45%),
 octadecynyl (35%), octadecyl(10%) and hexadecyl (10%)
 (FCTXAV 8,249,70).

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MOD FCTXAV 8,249,70
 orl-rat LD50:1500 mg/kg FCTXAV 8,249,70

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

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

EEK000 **CAS: 61791-24-0** **HR: 2**
ETHOMEEN S/15

PROP: Polyoxyethylene (5%) soya amine alkyl links C₁₄-
 C₁₈ which consists of octadecadienyl (45%), octadecenyl
 (35%), octadecyl(10%) and hexadecyl (10%) (FCTXAV
 8,249,70).

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MOD FCTXAV 8,249,70
 orl-rat LD50:1000 mg/kg FCTXAV 8,249,70

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

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

EEK025 **CAS: 61791-24-0** **HR: 2**
ETHOMEEN S/L5

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MOD FCTXAV 8,249,1970
 orl-rat LD50:1 g/kg FCTXAV 8,249,1970

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

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

EEK050 **CAS: 61791-26-2** **HR: 2**
ETHOMEEN T/15

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MOD FCTXAV 8,249,70
 orl-rat LD50:500 mg/kg FCTXAV 8,249,70

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

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

**EEK100 CAS: 59-06-3 HR: D
ETHOPABATE**mf: $C_{12}H_{15}NO_4$ mw: 237.25**PROP:** Odorless white to pink crystals from MeOH (aq).
Mp: 148–149°. Sol in methanol, ethanol, acetone, acetonitrile, isopropanol, p-dioxane, ethyl acetate, and methylene chloride.**SYNS:** 4-ACETAMIDO-2-ETHOLXBENZOIC ACID METHYL ESTER □ 2-ETHOXY-4-ACETAMIDOBENZOID ACID METHYL ESTER □ ETHYL PABATE □ METHYL 4-ACETAMIDO-2-ETHOXYBENZOATE**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**EEK500 CAS: 627-03-2 HR: D
ETHOXYACETIC ACID**mf: $C_4H_8O_3$ mw: 104.12**PROP:** A liquid. D: 1.1021 @ 20°/4°, bp: 206–207°.**SYNS:** ACETIC ACID, ETHOXY- □ 2-ETHOXYACETIC ACID**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.**EEK600 CAS: 97043-02-2 HR: 3
N-(ETHOXYACETYL)DEACETYLTIOCOL-
CHICINE**mf: $C_{24}H_{29}NO_6S$ mw: 459.60**SYNS:** ACETAMIDE, 2-ETHOXY-N-(5,6,7,9-TETRAHYDRO-10-(METHYLTHIO)-9-OXO-1,2,3-TRIMETHOXYBENZO(a)-HEPTALEN-7-YL)-, (S)- □ COLCHICINE, 17-ETHOXY-10-THIO-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:5100 µg/kg JMC MAR 28,1204,85

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x .**EEL000 CAS: 927-80-0 HR: 3
ETHOXY ACETYLENE**mf: C_4H_6O mw: 70.09**PROP:** Lachrymatory liquid. Flash p: 19.4°F, d: 0.8, vap d: 2.4, bp: 50–52°. Insol in water.**SYN:** ETHOXYETHYNE**SAFETY PROFILE:** An eye irritant. Potentially explosive decomposition when heated above 100°C. Potentially explosive reaction with ethyl magnesium iodide. A very dangerous fire hazard when exposed to heat, flame, or oxidizers. To fight fire, use foam, dry chemical, CO_2 . When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.**EEL050 CAS: 135014-87-8 HR: D
4-ETHOXYAMPHETAMINE HYDROCHLORIDE**mf: $C_{11}H_{17}NO \cdot ClH$ mw: 215.75**SYNS:** BENZENEETHANAMINE, 4-ETHOXY- α -METHYL-, HYDROCHLORIDE □ 4-ETHOXY- α -METHYLBENZ-ENEETHANAMINE HYDROCHLORIDE**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x , HCl, and Cl^- .**EEL100 CAS: 1321-31-9 HR: D
ETHOXYANILINE****DOT:** UN 2311mf: $C_8H_{11}NO$ mw: 137.20**PROP:** A solid.**SYNS:** BENZENAMINE, ar-ETHOXY- □ PHENETIDINE □ PHENETIDINES (DOT)**TOXICITY DATA with REFERENCE:**

mmo-sat 730 nmol/plate JJCREP 78,153,87

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .**EEL500 CAS: 10031-82-0 HR: 2
p-ETHOXYBENZALDEHYDE**mf: $C_9H_{10}O_2$ mw: 150.18**PROP:** Colorless. Mp: 13–14°, bp: 247–249°. Misc in alc and ether.**SYNS:** ETHOXYBENZALDEHYDE □ 4-ETHOXYBENZ-ALDEHYDE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H SEV FCTXAV 18,681,80

orl-rat LD50:2100 mg/kg FCTXAV 18,681,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A severe skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.**EEM000 CAS: 938-73-8 HR: 3
2-ETHOXYBENZAMIDE**mf: $C_9H_{11}NO_2$ mw: 165.21**PROP:** Crystals from EtOAc/hexane. Mp: 132–134°.**SYNS:** ANOVIGAM □ ETAMIDE □ ETHBENZAMIDE □ ETHENZAMID □ ETHENZAMIDE □ ETHOSALICYL □ o-ETHOXYBENZAMIDE □ ETOCIL □ ETOSALICIL □ ETOSALICYL □ EUSAL □ H.P. 209 □ KATAGRIPPE □ LINDATOX □ LUCAMIDE □ PIROSOLVINA □ PROTOPYRIN □ TRANCALGYL**TOXICITY DATA with REFERENCE:**

cyt-ham:lng 500 mg/L/48H GMCRCDC 27,95,81

cyt-ham:fbr 500 mg/L ESKHA5 96,55,78

orl-rat LD50:2630 mg/kg ARZNAD 10,820,60

orl-mus LD50:700 mg/kg THERAP 7,27,52

ipr-mus LD50:400 mg/kg JPPMAB 4,872,52

orl-rbt LDLo:1500 mg/kg ARZNAD 10,820,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also AMIDES.**EEN500 CAS: 452-35-7 HR: D**

6-ETHOXY-2-BENZOTHAZOLESULFONAMIDEmf: C₉H₁₀N₂O₃S₂ mw: 258.33**PROP:** Sltly yellow powder. Mp: 192°. Sltly sol in EtOH, CHCl₃ and Et₂O.**SYNS:** ETHOXAZOLAMIDE □ ETHOXYZOLAMIDE**SAFETY PROFILE:** Experimental teratogenic and reproductive effects. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.**EEN600 CAS: 33077-69-9 HR: 3****4-(p-ETHOXYBENZOYL)PYRIDINE**mf: C₁₄H₁₃NO₂ mw: 227.28**SYNS:** p-ETHOXYPHENYL 4-PYRIDYL KETONE □ KETONE, (p-ETHOXYPHENYL) 4-PYRIDYL □ PYRIDINE, 4-(p-ETHOXYBENZOYL)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:490 mg/kg JMCAR 14,551,71

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.**EEN700 CAS: 3921-98-0 HR: 3****1-(4-ETHOXY-2-BUTYNYL)PYRROLIDINE**mf: C₁₀H₁₇NO mw: 167.28**SYNS:** 1-(4-ETHOXYBUT-2-YNYL)-PYRROLIDINE □ PYRROLIDINE, 1-(4-ETHOXY-2-BUTYNYL)-**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:>50 mg/kg BJPCAL 26,56,66

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.**EEO000 CAS: 577-66-2 HR: 3****8-ETHOXYCAFFEINE**mf: C₁₀H₁₄N₄O₃ mw: 238.28**SYNS:** EOC □ 1H-PURINE-2,6-DIONE, 8-ETHOXY-3,7-DIHYDRO-1,3,7-TRIMETHYL-(9CI)**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate MUREAV 60,349,79

sln-dmg-ori 15 mmol/L MUREAV 149,189,85

trn-dmg-ori 15 mmol/L MUREAV 149,189,85

cyt-ham:ovr 17 mmol/L MUREAV 60,349,79

cyt-ham:oth 12 mmol/L/2H-C MUREAV 12,463,71

ivn-mus LD50:56 mg/kg CSLNX* NX#04352

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Poison by intravenous route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also CAFFEINE.**EEO500 CAS: 13684-56-5 HR: 2****3-ETHOXYCARBONYLAMINOPHENYL-N-PHENYLCARBAMATE**mf: C₁₆H₁₆N₂O₄ mw: 300.34**PROP:** Crystals. Mp: 120°.**SYNS:** 3-(AETHOXYCARBONYLAMINOPHENYL)-N-PHENYLCARBAMAT (GERMAN) □ BENTANEX □ BETANAL AM □ BETANEX □ m-CARBANILLOYLOXYCARBANILIC ACID ETHYL ESTER □ DESMEDIPHAM □ EP-475 □ ETHYL-m-HYDROXY-CARBANILATE CARBANILATE (ESTER) □ ETHYL PHENYL-

CARBAMOYLOXYPHENYLCARBAMATE □ SCHERING 38107 □ SN 38107

TOXICITY DATA with REFERENCE:

ori-rat LD50:9600 mg/kg 85ARAE 2,92,77

skn-rbt LDLo:10 g/kg FMCHA2 -,C31,83

ori-qal LD50:2480 mg/kg 85DPAN -,71/76

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. An herbicide. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.**EEO000 CAS: 73987-52-7 HR: 3****ETHOXY CARBONYL DIGOXIN****SYN:** CARBAETHOXYDIGOXIN (GERMAN)**TOXICITY DATA with REFERENCE:**

ori-gpg LD50:3500 µg/kg ARZNAD 15,481,65

ivn-gpg LDLo:1400 µg/kg ARZNAD 15,481,65

SAFETY PROFILE: Poison by ingestion and intravenous routes. See also DIGOXIN.**EEQ000 CAS: 63905-54-4 HR: 3****4-ETHOXYCARBONYL-1-(2-HYDROXY-3-PHENOXYPROPYL) 4-PHENYLPYPERIDINE HYDROCHLORIDE**mf: C₂₃H₂₉NO₄•ClH mw: 419.99**SYNS:** B.D.H. 200 HYDROCHLORIDE □ ISONIPECOTIC ACID, 1-(2-HYDROXY-3-PHENOXYPROPYL)-4-PHENYL-, ETHYL ESTER, HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

ori-mus LD50:419 mg/kg JPPMAB 12,449,60

scu-mus LD50:145 mg/kg JPPMAB 12,449,60

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.**EEQ100 CAS: 60075-74-3 HR: 2****(2-(ETHOXYCARBONYL)-1-METHYL)ETHYL CARBONIC ACID-p-IODOBENZYL ESTER**mf: C₁₄H₁₇IO₅ mw: 392.21**TOXICITY DATA with REFERENCE:**

ori-rat LD50:1700 mg/kg GISAAA 41(6),95,76

ori-mus LD50:583 mg/kg GISAAA 41(6),95,76

ipr-mus LD50:3 g/kg JMCAR 19,1362,76

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of I⁻. See also ESTERS.**EEQ200 CAS: 22936-34-1 HR: 2****o-(4-(1-(((ETHOXYCARBONYL)OXY)IMINO)-ETHYL)PHENYL) o,o-DIETHYL PHOSPHOROTHIOATE**mf: C₁₅H₂₃NO₆PS mw: 376.42**SYNS:** PHOSPHOROTHIOIC ACID, o-(4-(1-(((ETHOXYCARBONYL)OXY)IMINO)ETHYL)PHENYL) o,o-DIETHYL ESTER □ R 15018 □ STAUFFER R 15018**TOXICITY DATA with REFERENCE:**

ori-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.**EEQ500 CAS: 616-97-7 HR: 3**

S-ETHOXYCARBONYLTHIAMINE HYDRO-CHLORIDEmf: C₁₅H₂₂N₄O₄S₂•ClH mw: 422.99**SYNS:** S-AETHOXY-CARBONYLTHIAMIN HYDROCHLORID (GERMAN) □ S-CARBETHOXYTHIAMINE HYDROCHLORIDE □ SECT HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:4250 mg/kg IZVIAK 37,82,67

ivn-mus LD50:339 mg/kg IZVIAK 37,82,67

SAFETY PROFILE: Poison by intravenous route. Mildly toxic by ingestion. When heated to decomposition it emits very toxic fumes of HCl, SO_x and NO_x.**EEQ600 CAS: 94-10-0 HR: 3
p-ETHOXYCHRYSOIDINE**mf: C₁₄H₁₆N₄O mw: 256.34**SYNS:** ACIDOTEST □ 1,3-BENZENEDIAMINE, 4-((4-ETHOXYPHENYL)AZO)- □ CARMURIT □ CYSTURAL □ CYSTURAL B □ DIAMAZOL □ DIAPHENYL □ ETHOXAZENE □ 4-(p-ETHOXYPHENYL)AZO)-m-PHENYLENEDIAMINE □ ETOXAZENE □ m-PHENYLENEDIAMINE, 4-(p-ETHOXY-PHENYL)AZO)- □ PYRASEPTIC □ SALVURON □ SERENIUM □ SN 612 □ UROCARMIN**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:100 mg/kg CSLNX* NX#05083

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.**EER000 CAS: 1586-92-1 HR: 3
ETHOXY DIETHYL ALUMINUM**mf: C₆H₁₅AlO mw: 129.16
(CH₃CH₂)₂AlOCH₃CH₂**SYN:** DIETHYLETHOXYALUMINUM**SAFETY PROFILE:** Ignites spontaneously in air in the pure form or in solutions with concentrations greater than 20%. When heated to decomposition it emits acrid smoke and fumes. See also ALUMINUM COMPOUNDS.**EER400 CAS: 83053-57-0 HR: 2
11-ETHOXY-15,16-DIHYDRO-17-CYCLOPENTA-(a)PHENANTHREN-17-ONE**mf: C₁₉H₁₆O₂ mw: 276.35**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate CRNGDP 3,677,82

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**EER500 CAS: 103-75-3 HR: 3
2-ETHOXY DIHYDROPYRAN**mf: C₇H₁₂O₂ mw: 128.19**PROP:** D: 1.0, bp: 143°, flash p: 111°F (OC).**SYNS:** 2-ETHOXY-2,3-DIHYDRO-γ-PYRAN □ 2-ETHOXY-3,4-DIHYDRO-1,2-PYRAN □ 2-ETHOXY-3,4-DIHYDRO-2H-PYRAN**TOXICITY DATA with REFERENCE:**

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

eye-rbt 50 mg MOD UCDS** 7/15/71

orl-rat LD50:6160 mg/kg UCDS** 7/15/71

ihl-rat LCLo:8000 ppm/4H AIHAAP 23,95,62

skn-rbt LD50:3560 mg/kg UCDS** 7/15/71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by skin contact. Mildly toxic by ingestion and inhalation. A skin and eye irritant. Flammable liquid when exposed to flame, sparks, and oxidizers. To fight fire, use dry chemical, foam, fog. When heated to decomposition it emits acrid smoke and irritating fumes.**EES000 CAS: 15769-72-9 HR: 3
ETHOXYDIISOBUTYLALUMINUM**mf: C₁₀H₂₃AlO mw: 186.28
CH₃CH₂OAl[CH₂CH(CH₃)₂]₂**PROP:** Air and moisture-sensitive colorless viscous liquid. Bp: 122–123° @ 2 mm.**SAFETY PROFILE:** Ignites spontaneously in air. When heated to decomposition it emits acrid smoke and fumes. See also ALUMINUM COMPOUNDS.**EES100 CAS: 69929-16-4 HR: 1
8-ETHOXY-2,6-DIMETHYLOCTENE-2**mf: C₁₂H₂₄O mw: 184.36**PROP:** Clean, sweet rose-like odor.**SYNS:** CITRONELLYL ETHYL ETHER □ 2-OCTENE, 8-ETHOXY-2,6-DIMETHYL-**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTOD7 20,655,82

orl-rat LD50:>5 g/kg FCTOD7 20,655,82

skn-rbt LD50:>5 g/kg FCTOD7 20,655,82

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.**EES200 CAS: 14857-34-2 HR: 3
ETHOXYDIMETHYLSILANE**mf: C₄H₁₂OSi mw: 104.25**PROP:** Bp: 54°, d: 0.757 @ 20°. Flash pt: 23° F**SYNS:** DIMETHYLETHOXY-SILANE (ACGIH) □ SILANE, ETHOXYDIMETHYL-**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:5 g/kg INHTE5 6,151,94

ihl-rat LC:>4000 ppm/4H TOXID9 12,355,92

ihl-rat TCLo:3000 ppm/6H/2W-I INHTE5 6,151,94

ihl-rat TCLo:2000 ppm/6H/13W-I INHTE5 6,151,94

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**ACGIH TLV:** TWA 0.5 ppm; STEL: 1.5 ppm**SAFETY PROFILE:** An inhalation hazard. Experimental reproductive effects. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.**EES300 CAS: 7495-45-6 HR: 2
ETHOXYDIPHENYLACETIC ACID**mf: C₁₆H₁₆O₃ mw: 256.32**PROP:** Plates from Et₂O. Mp: 114–115°.**SYNS:** ACIDE DIPHENYLETHOXYACETIQUE (FRENCH) □ α-ETHOXY-α-PHENYL-BENZENEACETIC ACID (9CI)

(GERMAN) □ CELLOSOLVE ACETATE (DOT) □ CSAC □ EKTASOLVE EE ACETATE SOLVENT □ ETHOXY ACETATE □ 2-ETHOXYETHANOL ACETATE □ 2-ETHOXYETHANOL, ESTER with ACETIC ACID □ 2-ETHOXY-ETHYLACETAAT (DUTCH) □ ETHOXYETHYL ACETATE □ β-ETHOXYETHYL ACETATE □ 2-ETHOXYETHYLE, ACETATE de (FRENCH) □ ETHYL CELLOSOLVE ACETAAT (DUTCH) □ ETHYLENE GLYCOL ETHYL ETHER ACETATE □ ETHYLENE GLYCOL MONOETHYL ETHER ACETATE (MAK, DOT) □ ETHYLGLYKOLACETAT (GERMAN) □ 2-ETOSSIETIL-ACETATO (ITALIAN) □ GLYCOL ETHER EE ACETATE □ GLYCOL MONOETHYL ETHER ACETATE □ OCTAN ETOKSYETYLU (POLISH) □ OXYTOL ACETATE □ POLY-SOLV EE ACETATE

TOXICITY DATA with REFERENCE:

skn-rbt 490 mg open MLD UCDS** 1/13/67
eye-rbt 40 mg MOD UCDS** 1/13/67
orl-rat LD50:2900 mg/kg TXAP9 51,117,79
ihl-rat LC50:12,100 mg/m³/8H AIHAAP 20,364,59
ipr-mus LD50:1420 mg/kg SCCUR* -,2,61
orl-rbt LD50:1950 mg/kg EPASR* 8EHQ-0682-0450
skn-rbt LD50:10,500 mg/kg UCDS** 1/13/67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Glycol ether compounds are on the Community Right-To-Know List.

OSHA PEL: TWA 100 ppm (skin)

ACGIH TLV: TWA 5 ppm (skin); BEI: 100 mg/g creatinine of 2-ethoxyacetic acid in urine end of shift at end of workweek

DFG MAK: 5 ppm (27 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A skin and eye irritant. An experimental teratogen. Other experimental reproductive effects. Flammable liquid when exposed to heat or flame; can react with oxidizing materials. Moderate explosion hazard in the form of vapor when heated. Mild explosions have occurred at the end of distillations. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #53 or NIOSH: Esters I, 1450.

EES500 CAS: 67262-62-8 HR: 3
2-(2-ETHOXYETHYLAMINO)-o-PROPIONO-TOLUIDIDE

mf: C₁₄H₂₂N₂O₂ mw: 250.38

SYN: 2-(2-ETHOXYETHYLAMINO)-2'-METHYL-PROPIONANILIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:275 mg/kg JPMSAE 67,595,78
ivn-mus LD50:38 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.

EES600 CAS: 301644-19-9 HR: 3
N-(2-ETHOXYETHYL)-4,5-DIHYDRO-3-(PHENYL-AMINO)-2H-BENZ(g)INDAZOLE-2-ACETAMIDE

mf: C₂₃H₂₆N₄O₂ mw: 390.49

TOXICITY DATA with REFERENCE:

orl-mus TDLo:50 µg/kg FRMCE8 55,383,2000

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

EET000 CAS: 63716-10-9 HR: 1
ETHOXYETHYL ETHER of PROPYLENE GLYCOL

mf: C₇H₁₆O₃ mw: 148.23

SYN: 3-(2-ETHOXY)ETHOXY-2-PROPANOL

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H MLD JIHTAB 31,60,49
eye-rbt 500 mg JIHTAB 31,60,49
orl-rat LD50:9330 mg/kg JIHTAB 31,60,49
skn-rbt LD50:12 g/kg JIHTAB 31,60,49

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.

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. See also GLYCOL ETHERS.

EET100 CAS: 5417-82-3 HR: 3
(1-ETHOXYETHYLIDENE)MALONONITRILE

mf: C₇H₈N₂O mw: 136.17

SYNS: 1-ETHOXYETHYLIDENEMALONONITRILE □ (1-ETHOXYETHYLIDENE)PROPANEDINITRILE □ MALONONITRILE, (1-ETHOXYETHYLIDENE)-(6Cl,7Cl,8Cl) □ PROPANEDINITRILE, (1-ETHOXYETHYLIDENE)-

TOXICITY DATA with REFERENCE:

orl-rat LDLo:312 mg/kg EPASR* 8EHQ-0487-0663

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EET200 CAS: 123794-11-6 HR: D
3-((1-(2-ETHOXYETHYL)-5-NITRO-1H-IMIDAZOL-2-YL)METHYLENE)-1-METHYL-2-PYRROLIDINONE

mf: C₁₃H₁₈N₄O₄ mw: 294.35

SYN: 2-PYRROLIDINONE, 3-((1-(2-ETHOXYETHYL)-5-NITRO-1H-IMIDAZOL-2-YL)METHYLENE)-1-METHYL-

TOXICITY DATA with REFERENCE:

mic-bac-sat 10 pmol/plate EMMUEG 19,167,92
uns-bac-esc 10 pmol/tube EMMUEG 19,167,92

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

EET500 CAS: 67465-42-3 HR: 3
N-(2-ETHOXY-3-HYDROXYMERCURIPROPYL)-BARBITAL

mf: C₁₃H₂₂HgN₂O₅ mw: 486.96

PROP: IDLH 10 mg/m³ (as Hg).

SYN: HYDROXY(3-(5,5-DIETHYL-2,4,6-TRIOXO-(1H,3H,5H)-PYRIMIDINO)-2-ETHOXYPROPYL)MERCURY

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:18,600 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, ORGANIC and BARBITURATES.

EET550 **HR: D**
2-[1-(ETHOXYIMINO)BUTYL]-5-[2-(ETHYLTHIO)-PROPYL]-3-HYDROXY-2-CYCLOHEXENE-1-ONE

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

EET600 **CAS: 13021-50-6** **HR: 2**
1-ETHOXY-3-ISOPROPOXYPROPAN-2-OL

mf: C₈H₁₈O₃ mw: 162.26

SYN: 1-ETHOXY-3-ISOPROPOXY-2-PROPANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 g/kg AIPTAK 89,145,52

orl-mus LD50:5730 mg/kg AIPTAK 89,145,52

ipr-mus LD50:3180 mg/kg JPETAB 97,414,49

orl-rbt LDLo:6200 mg/kg AIPTAK 89,145,52

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

EEU000 **CAS: 9002-92-0** **HR: 2**
ETHOXYLATED LAURYL ALCOHOL

mf: (C₂H₄O)_n•C₁₂H₂₆O

PROP: White waxy solid. Mp: 41–45°, bp: 100°. Flash pt: >230° C.

SYN: DODECANOL ETHOXYLATED

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD TXAPA9 19,276,71

eye-rbt 100 mg TXAPA9 19,276,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EEU100 **HR: D**
ETHOXYLATED MONO- and DIGLYCERIDES

PROP: Mix of stearate, palmitate, and lesser amounts of myristate partial esters of glycerin condensed with approx. 20 moles of ethylene oxide per mole of α-monoglyceride reaction mixtures. (FCC III) Pale, sltly yellow, oily liquid; mildly bitter taste. Sol in water, alc, xylene; sltly sol in mineral oil, vegetable oil.

SYNS: POLYGLYCERATE (60) □ POLYOXYETHYLENE (20) MONO- and DIGLYCERIDES of FATTY ACIDS

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

EEU500 **CAS: 120-53-6** **HR: 3**
6-ETHOXY-2-MERCAPTOBENZOTHIAZOLE

mf: C₈H₇NOS₂ mw: 197.28

PROP: Mp: 196.5–198.0°

SYN: USAF PD-58

TOXICITY DATA with REFERENCE:

ipr-mus LD50:250 mg/kg NTIS** AD603-561

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.

EEV000 **CAS: 63019-29-4** **HR: 2**
10-ETHOXYMETHYL-1:2-BENZANTHRACENE

mf: C₂₁H₁₈O mw: 286.39

SYN: 7-(ETHOXYMETHYL)BENZ(a)ANTHRACENE

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

EEV100 **CAS: 2041-76-1** **HR: 3**
4-ETHOXY-2-METHYL-3-BUTYN-2-OL

mf: C₇H₁₂O₂ mw: 128.17

CH₃CH₂OC≡CC(CH₃)₂OH

SAFETY PROFILE: Potentially explosive decomposition above 115°C. Traces of acid increase the tendency to explode. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.

EEV150 **CAS: 10138-44-0** **HR: 2**
2-ETHOXY-4-METHYL-2,3-DIHYDRO-4H-PYRAN

mf: C₈H₁₄O₂ mw: 142.22

SYNS: 2-ETHOXY-4-METHYL-3,4-DIHYDROPYRAN □ 2H-PYRAN, 3,4-DIHYDRO-2-ETHOXY-4-METHYL- □ 2H-PYRAN, 2-ETHOXY-3,4-DIHYDRO-4-METHYL-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE-,803,1986

eye-rbt 500 mg/24H MLD 85JCAE-,803,1986

orl-rat LD50:3400 mg/kg AMIHBC 10,61,1954

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

EEV200 **CAS: 87-13-8** **HR: 2**
ETHOXYMETHYLENEMALONIC ACID, ETHYL ESTER

mf: C₁₀H₁₆O₅ mw: 216.26

PROP: Colorless liquid. Bp: 279–281°. Flash pt: 311° F. D: 1.070

SYNS: DIETHYL EMME □ DIETHYL (ETHOXYMETHYLENE)-MALONATE □ MALONIC ACID, (ETHOXYMETHYLENE)-, DIETHYL ESTER □ TL 1483

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD JACTDZ 1,37,90

orl-rat LD50:925 mg/kg JACTDZ 1,37,90

orl-mus LD50:2227 mg/kg JPMSAE 60,1810,71

ihl-mus LCLo:44 mg/m³ NDRC** 30101,11,45

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EEW000 CAS: 123-06-8 HR: 3
ETHOXYMETHYLENE MALONONITRILE

mf: $C_6H_6N_2O$ mw: 122.14

PROP: Beige crystals. Mp: 64–66°.

SYNS: USAF A-9230 □ USAF KF-10

TOXICITY DATA with REFERENCE:

ipr-mus LD50:50 mg/kg NTIS** AD277-689

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

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and CN^- . See also NITRILES.

EEW100 CAS: 15764-24-6 HR: 2
1-(2-ETHOXY-2-METHYLETHOXY)-2-PROPANOL

mf: $C_8H_{18}O_3$ mw: 162.26

SYN: DIPROPYLENE GLYCOL, ETHYL ETHER

TOXICITY DATA with REFERENCE:

orl-rat LD50:3710 mg/kg 38MKAJ 2C,3993,82

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

EEX000 CAS: 63020-27-9 HR: 2
7-ETHOXY METHYL-12-METHYLBENZ(a)-ANTHRACENE

mf: $C_{22}H_{20}O$ mw: 300.42

SYN: 9-METHYL-10-ETHOXYMETHYL-1,2-BENZ-ANTHRACENE

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

EEX100 CAS: 25724-34-9 HR: 3
2-ETHOXY-4-METHYL-TETRAHYDROPYRAN

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

SYNS: 2H-PYRAN, 2-ETHOXY-4-METHYL TETRAHYDRO- □ 2H-PYRAN, TETRAHYDRO-2-ETHOXY-4-METHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:5160 μ L/kg AIHAAP 30,470,69

skn-rbt LD50:>5 mL/kg AIHAAP 30,470,69

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

EEX500 CAS: 22960-71-0 HR: 2
N-ETHOXYMORPHOLINO DIAZENIUM FLUOROBORATE

mf: $C_6H_{13}N_2O_2 \cdot BF_4$ mw: 232.02

TOXICITY DATA with REFERENCE:

scu-rat LD50:639 mg/kg ZKKOBW 80,17,73

SAFETY PROFILE: Moderately toxic by subcutaneous route. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits

very toxic NO_x and F^- . See also BORON COMPOUNDS and FLUORIDES.

EEY000 CAS: 78109-88-3 HR: 3
O-ETHOXY-N-(3-MORPHOLINOPROPYL)-BENZAMIDE

mf: $C_{16}H_{24}N_2O_3$ mw: 292.42

SYN: D-703

TOXICITY DATA with REFERENCE:

scu-mus LD50:150 mg/kg ARZNAD 10,743,60

ivn-mus LD50:160 mg/kg ARZNAD 10,743,60

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

EEY500 CAS: 93-18-5 HR: 3
2-ETHOXYNAPHTHALENE

mf: $C_{12}H_{12}O$ mw: 172.24

PROP: Plates. Mp: 37.5°, bp: 282°.

SYNS: BROMELIA □ ETHYL- β -NAPHTHOLATE □ ETHYL- β -NAPHTHYL ETHER □ ETHYL-2-NAPHTHYL ETHER □ β -NAPHTHOL ETHYL ETHER □ 2-NAPHTHOL ETHYL ETHER □ NEROLIN □ NEROLIN II □ NEROLINE □ NEROLIN NEW

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 13,681,75

orl-rat LD50:3110 mg/kg FCTXAV 13,681,75

ipr-mus LD50:100 mg/kg NTIS** AD691-490

ivn-mus LD50:100 mg/kg CSLNX* NX#00191

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

EEY550 CAS: 3420-97-1 HR: D
p-ETHOXYNITROSOBENZENE

mf: $C_8H_9NO_2$ mw: 151.18

SYNS: p-NITROSOPHENETOLE □ BENZENE, 1-ETHOXY-4-NITROSO- □ PHENETOLE, p-NITROSO-

TOXICITY DATA with REFERENCE:

mic-sat 10 μ Lg/plate MOPMA3 18,117,1980

dnd-rat-lvr 30 μ mol/L CNREA8 44,1098,1984

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

EFA000 CAS: 337-28-0 HR: 2
1-ETHOXY-2,2,3,3,3-PENTAFLUORO-1-PROPANOL

mf: $C_5H_7F_5O_2$ mw: 194.12

TOXICITY DATA with REFERENCE:

orl-mus LD50:1200 mg/kg JMCMA3 13,1212,70

ipr-mus LD50:800 mg/kg JMCMA3 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 very toxic fumes of F^- . See also FLUORIDES.

EFA100 CAS: 622-62-8 HR: 3

4-ETHOXYPHENOLmf: C₈H₁₀O₂ mw: 138.18**PROP:** Leaflets. Mp: 66–67°, bp: 246–247°, d: 1.07 @ 25°/4°.**SYNS:** ETHER MONOETHYLIQUE de l'HYDROQUINONE □ p-ETHOXYPHENOL □ 4-ETHYLOXYPHENOL □ HYDRO-QUINONE MONOETHYL ETHER □ p-HYDROXYPHENETOLE □ PHENOL, 4-ETHOXY-(9CI)**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:250 mg/kg RBMAZ 22,1,52

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. Experimental reproductive effects. An irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**EFA200 CAS: 106463-17-6 HR: 3
R-(-)-5-(2-((2-(2-ETHOXYPHENOXY)ETHYL)-AMINO)PROPYL)-2-METHOXYBENZENE-SULFONAMIDE HYDROCHLORIDE**mf: C₂₀H₂₈N₂O₅S·ClH mw: 445.02**SYNS:** AMSULOSIN HYDROCHLORIDE □ BENZENESULFONAMIDE, 5-(2-((2-(2-ETHOXYPHENOXY)ETHYL)AMINO)-PROPYL)-2-METHOXY-, MONOHYDROCHLORIDE, (R)- □ LY253351 □ (-)-LY 253352 □ TAMUSLOSIN HYDROCHLORIDE □ YM617 □ (-)-YM12617**TOXICITY DATA with REFERENCE:**

orl-rat LD50:650 mg/kg KSRNAM 24,5071,1990

scu-rat LD50:347 mg/kg KSRNAM 24,5071,1990

ivn-rat LD50:70 mg/kg KSRNAM 24,5071,1990

orl-mus LD50:1023 mg/kg YAKUD5 35,2169,1993

scu-mus LD50:254 mg/kg YAKUD5 35,2169,1993

ivn-mus LD50:98 mg/kg YAKUD5 35,2169,1993

orl-dog LD :>1 g/kg KSRNAM 24,5085,1990

SAFETY PROFILE: A poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, SO_x, HCl, and Cl⁻.**EFC000 CAS: 21224-77-1 HR: 3
S-2-((4-(p-ETHOXYPHENYL)-BUTYL)AMINO)-ETHYL THIOSULFATE**mf: C₁₄H₂₃NO₄S₂ mw: 333.50**TOXICITY DATA with REFERENCE:**

orl-mus LD50:980 mg/kg JMCMA 11,1190,68

ipr-mus LD50:22 mg/kg JMCMA 11,1190,68

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also SULFATES.**EFC259 CAS: 55308-64-0 HR: D
2-(3-ETHOXYPHENYL)-5,6-DIHYDRO-s-TRIAZOLO(5,1-a)ISOQUINOLINE**mf: C₁₈H₁₇N₃O mw: 291.38**PROP:** A solid. Mp: 102–103°.**SYNS:** DL 204-IT □ L 11204**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**EFC300 CAS: 5862-77-1 HR: D****4-ETHOXY-m-PHENYLENEDIAMINE**mf: C₈H₁₂N₂O mw: 152.22**SYNS:** 1,3-BENZENEDIAMINE, 4-ETHOXY- □ C.I. 76055 □ 2,4-DIAMINOETHOXYBENZENE □ 2,4-DIAMINOPHENETOLE □ m-PHENYLENEDIAMINE, 4-ETHOXY-**TOXICITY DATA with REFERENCE:**

mic-sat 3 µLg/plate SCIEAS 207,907,1980

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**EFC600 CAS: 85303-98-6 HR: D
5-(m-ETHOXYPHENYL)-3-(o-ETHYLPHENYL)-s-TRIAZOLE**mf: C₁₈H₁₉N₃O mw: 293.40**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**EFC625 CAS: 61001-14-7 HR: D
2-(m-ETHOXYPHENYL)IMIDAZO(2,1-A)ISO-QUINOLINE**mf: C₁₉H₁₆N₂O mw: 288.37**SYNS:** IMIDAZO(2,1-A)ISOQUINOLINE, 2-(m-ETHOXYPHENYL)- □ IMIDAZO(2,1-A)ISOQUINOLINE, 5,6-DIHYDRO-2-(3-ETHOXYPHENYL)-**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.**EFC650 CAS: 72894-24-7 HR: 3
2-(2-(4-((4-ETHOXYPHENYL)METHYLAMINO)-PHENYL)ETHENYL)-1,3,3-TRIMETHYL-3H-INDOLIUM CHLORIDE**mf: C₂₈H₃₁N₂O·Cl mw: 447.06**SYNS:** ASTRAZON RED VIOLET FRR □ CATIONIC RED VIOLET □ 3H-INDOLIUM, 2-(2-(4-((4-ETHOXYPHENYL)-METHYLAMINO)PHENYL)ETHENYL)-1,3,3-TRIMETHYL-, CHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1650 mg/kg GISAAA 51(1),61,86

orl-mus LD50:350 mg/kg GISAAA 51(1),61,86

orl-rbt LD50:3250 mg/kg GISAAA 51(1),61,86

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**EFC700 CAS: 32941-23-4 HR: 3
p-ETHOXYPHENYL 2-PYRIDYLKETONE**mf: C₁₄H₁₃NO₂ mw: 227.28**SYN:** KETONE, p-ETHOXYPHENYL 2-PYRIDYL**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:>500 mg/kg JMCMA 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.**EFC800 CAS: 32921-15-6 HR: 3
p-ETHOXYPHENYL 3-PYRIDYLKETONE**mf: C₁₄H₁₃NO₂ mw: 227.28**SYN:** KETONE, p-ETHOXYPHENYL 3-PYRIDYL

TOXICITY DATA with REFERENCE:

ipr-mus LD50:>1 g/kg JMCAR 14,551,71

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Low toxicity by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.**EFF000 CAS: 150-69-6 HR: 3
4-ETHOXYPHENYLUREA**mf: C₉H₁₂N₂O₂ mw: 180.23**PROP:** Needle-like crystals or plates from water. Mp: 174°.**SYNS:** p-AETHOXYPHYLHARNSTOFF (GERMAN) □ DULCINE □ N-(4-ETHOXYPHENYL)UREA □ p-ETHOXYPHENYLUREA □ NCI-C02073 □ PHENETHYLCARBAMID (GERMAN) □ p-PHENETOLCARBAMID (GERMAN) □ p-PHENETOLCARBAMIDE □ p-PHENETOLECARBAMIDE □ p-PHENETYLUREA □ SUCROL □ SUESSTOFF □ VALZIN**TOXICITY DATA with REFERENCE:**

orl-wmn TDLo:600 mg/kg;CNS MEKLA7 43,105,48

orl-chd LDLo:400 mg/kg MEKLA7 43,105,48

orl-rat LD50:1900 mg/kg NCIMR* NIH-71-E-2144

orl-dog LDLo:1000 mg/kg HBAMAK 4,1345,35

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 12,97,76.**SAFETY PROFILE:** Human poison by ingestion. Moderately toxic experimentally by ingestion. Human systemic effects by ingestion: somnolence, hallucinations, distorted perceptions, and changes in motor activity. In adults 20 to 40 g produces dizziness, nausea, methemoglobinemia, cyanosis, and hypotension. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**EFF500 CAS: 63815-42-9 HR: 3
4-ETHOXY-β-(1-PIPERIDYL)PROPIOPHENONE
HYDROCHLORIDE**mf: C₁₆H₂₃NO₂·ClH mw: 297.86**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:60 mg/kg JPETAB 115,419,55

scu-mus LD50:73 mg/kg ARZNAD 5,559,55

ivn-mus LD50:20 mg/kg JPETAB 115,419,55

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.**EFF000 CAS: 1874-62-0 HR: 1
3-ETHOXY-1,2-PROPANEDIOL**mf: C₅H₁₂O₃ mw: 120.17**SYNS:** α-ETHYL GLYCEROL ETHER □ GLYCEROL-α-ETHYL ETHER**TOXICITY DATA with REFERENCE:**

skn-rbt 530 mg/24H MLD AMIHBC 2,574,50

eye-rbt 106 mg AMIHBC 2,574,50

orl-mus LD50:9350 mg/kg FEPA7 8,477,49

SAFETY PROFILE: Mildly toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**EFF500 CAS: 1569-02-4 HR: 2
1-ETHOXY-2-PROPANOL**mf: C₅H₁₂O₂ mw: 104.17**PROP:** Clear, colorless liquid with mild odor. Flash pt: 40° C.**SYN:** PROPYLENE GLYCOL ETHYL ETHER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4400 mg/kg NPIRI* 1,104,74

skn-rbt LD50:8100 mg/kg NPIRI* 1,104,74

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Mildly toxic by ingestion and skin contact. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.**EFG000 CAS: 111-35-3 HR: 2
3-ETHOXY-1-PROPANOL**mf: C₅H₁₂O₂ mw: 104.17**PROP:** A solid. D: 0.917 @ 15°/4°, bp: 162.1°. Misc in water.**SYNS:** β-PROPYLENE GLYCOL MONOETHYL ETHER □ PROPYLENE GLYCOL-β-MONOETHYL ETHER**TOXICITY DATA with REFERENCE:**

skn-rbt 452 mg open MLD UCDS** 7/28/66

skn-rbt 500 mg/24H MLD 85JCAE -,627,86

eye-rbt 20 mg/24H MOD 85JCAE -,627,86

orl-rat LD50:7 g/kg JIDHAN 23,259,41

skn-rbt LD50:2558 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Moderately toxic by skin contact. Slightly toxic by ingestion. Experimental reproductive effects. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.**EFG500 CAS: 63918-98-9 HR: 3
ETHOXY PROPIONALDEHYDE**mf: C₅H₁₀O₂ mw: 102.15**PROP:** Liquid. Mp: -69.4°, bp: 135.2°, flash p: 100°F (OC), d: 0.918 @ 20°/20°, vap d: 3.63, vap press: 5.5 mm @ 20°.**TOXICITY DATA with REFERENCE:**

skn-rbt 10 mg/24H open JIHTAB 30,63,48

eye-rbt 2 mg open SEV JIHTAB 30,63,48

orl-rat LD50:900 mg/kg JIHTAB 30,63,48

ihl-rat LC50:500 ppm/4H JIHTAB 30,63,48

orl-mus LD50:140 mg/kg ARZNAD 15,841,65

skn-rbt LD50:1000 mg/kg JIHTAB 30,63,48

SAFETY PROFILE: Poison by ingestion. Moderately toxic by inhalation and skin contact. A skin and severe eye irritant. A very dangerous fire hazard 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. See also ALDEHYDES.**EFH000 CAS: 1331-11-9 HR: 2
ETHOXYPROPIONIC ACID**mf: C₅H₁₀O₃ mw: 118.15

PROP: Liquid. Mp: -10.7° , bp: 219° , flash p: 225°F (OC), d: 1.0474, vap d: 4.08.

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open JIHTAB 30,63,48
eye-rbt 250 μg open SEV JIHTAB 30,63,48
orl-rat LD50:4800 mg/kg JIHTAB 30,63,48
skn-rbt LD50:750 mg/kg JIHTAB 30,63,48

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

EFH500 CAS: 14631-45-9 HR: 2
 β -ETHOXYPROPIONITRILE

mf: $\text{C}_5\text{H}_9\text{NO}$ mw: 99.15

TOXICITY DATA with REFERENCE:

orl-rat LD50:2860 mg/kg TNICS* 13,125,73
orl-mus LD50:2200 mg/kg TNICS* 13,125,73

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

EFI000 CAS: 64050-15-3 HR: 2
ETHOXYPROPYLACRYLATE

mf: $\text{C}_8\text{H}_{14}\text{O}_3$ mw: 158.22

SYN: ETHOXYPROPYL ESTER ACRYLIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 4,119,51
eye-rbt 100 mg open AMIHBC 4,119,51
orl-rat LD50:820 mg/kg AMIHBC 4,119,51
ihl-rat LC50:250 ppm/4H AMIHBC 4,119,51
skn-rbt LD50:1410 mg/kg AMIHBC 4,119,51

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

EFJ000 CAS: 628-33-1 HR: 3
1-ETHOXY-2-PROPYLENE

mf: $\text{C}_5\text{H}_8\text{O}$ mw: 84.12



PROP: Liquid with penetrating odor. Bp: 80° . Mod sol in H_2O ; misc in EtOH.

SAFETY PROFILE: Peroxidizes in air to form a product which explodes when heated to 80°C . When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES and ACETYLENE COMPOUNDS.

EFJ500 CAS: 16357-59-8 HR: 3
2-ETHOXY-1(2H)-QUINOLINECARBOXYLIC ACID, ETHYL ESTER

mf: $\text{C}_{14}\text{H}_{17}\text{NO}_3$ mw: 247.32

PROP: A solid. Mp: $63.5-65^{\circ}$.

TOXICITY DATA with REFERENCE:

ipr-mus LD50:32 mg/kg JMCAR 14,49,71

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 ESTERS.

EFJ600 CAS: 3463-21-6 HR: 2
ETHOXSILATRANE

mf: $\text{C}_8\text{H}_{17}\text{NO}_4\text{Si}$ mw: 219.35

SYNS: AETHOXSILATRAN \square 1-ETHOXSILATRANE \square MIGUGEN \square SILICIC ACID, CYCLIC NITRILOTRIETHYLENE ETHYL ESTER \square 2,8,9-TRIOXA-5-AZA-1-SILABICYCLO(3.3.3)-UNDECANE, 1-ETHOXY-

TOXICITY DATA with REFERENCE:

orl-mus LD50:2800 mg/kg PHARAT 26,224,70
ipr-mus LD50:2300 mg/kg PHARAT 26,224,70

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 .

EFK000 CAS: 2593-15-9 HR: 2
5-ETHOXY-3-TRICHLOROMETHYL-1,2,4-THIADIAZOLE

mf: $\text{C}_5\text{H}_5\text{Cl}_3\text{N}_2\text{OS}$ mw: 247.53

PROP: Pale-yellow liquid. Mp: 20° .

SYNS: 5-AETHOXY-3-TRICHLORMETHYL-1,2,4-THIADIAZOL (GERMAN) \square DWELL \square ECHLOMEZOL \square ETHAZOLE (FUNGICIDE) \square ETMT \square ETRIDIAZOLE \square KOBAN \square MF-344 \square OLIN MATHIESON 2,424 \square OM 2424 \square PANSOIL \square TERRACHLOR-SUPER X \square TERRACOAT \square TERRAFLO \square TERRAZOLE \square 3-(TRICHLOROMETHYL)-5-ETHOXY-1,2,4-THIADIAZOLE \square TRUBAN

TOXICITY DATA with REFERENCE:

mmo-sat 400 μg /plate KHFKDF 8,551,80
mma-sat 400 μg /plate KHFKDF 8,551,80
orl-rat LD50:1077 mg/kg 28ZEAL 5,110,76
orl-mus LD50:2000 mg/kg GUCHAZ 6,486,73
orl-rbt LD50:779 mg/kg TXAPA9 56,164,80
skn-rbt LD50:1700 mg/kg FMCHA2 -,C137,83

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Mutation data reported. A fungicide. When heated to decomposition it emits very toxic fumes of Cl^- , SO_x , and NO_x .

EFK500 CAS: 433-27-2 HR: 2
1-ETHOXY-2,2,2-TRIFLUOROETHANOL

mf: $\text{C}_4\text{H}_7\text{F}_3\text{O}_2$ mw: 144.11

TOXICITY DATA with REFERENCE:

orl-mus LD50:600 mg/kg JMCAR 13,1212,70
ipr-mus LD50:600 mg/kg JMCAR 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^- . See also FLUORIDES.

EFL000 CAS: 112-50-5 HR: 1
ETHOXYTRIGLYCOL

mf: $\text{C}_8\text{H}_{18}\text{O}_4$ mw: 178.26

PROP: Bp: 255.4°, flash p: 275°F (OC), d: 1.0208 @ 20°/20°, vap press: 0.01 mm @ 20°.

SYNS: DOWANOL TE □ 2-(2-ETHOXYETHOXY)ETHOXY)-ETHANOL □ ETHOXYTRIETHYLENE GLYCOL □ POLY-SOLV TE □ TRIETHYLENE GLYCOL ETHYL ETHER □ TRIETHYLENE GLYCOL MONOETHYL ETHER □ TRIGLYCOL MONO-ETHYL ETHER

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg AJOPAA 29,1363,46
 orl-rat LD50:10,610 mg/kg 34ZIAG -730,69
 skn-rbt LD50:8 g/kg AMHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Glycol ether compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Mildly toxic by ingestion and skin contact. An eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

EFL500 CAS: 1825-62-3 HR: 3
ETHOXYTRIMETHYLSILANE
 mf: C₅H₁₄OSi mw: 118.28

PROP: Bp: 75.7°, vap press: 100 mm @ 22.1°, vap d: 4.1.

TOXICITY DATA with REFERENCE:

eye-rbt 79 mg JIHTAB 30,332,48
 orl-rat LDLo:1400 mg/kg JIHTAB 30,332,48
 ihl-rat LCLo:4000 ppm/8H JIHTAB 30,332,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and inhalation. An eye irritant. Flammable when exposed to heat or flame; can react with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.

EFL600 CAS: 2117-78-4 HR: 3
3-ETHOXY-1,1,1-TRIPHENYL-4-OXA-2-THIA-3-PHOSPHA-1-STANNAHEXANE 3-SULFIDE
 mf: C₂₂H₂₅O₂PS₂Sn mw: 535.25

SYNS: 4-OXA-2-THIA-3-PHOSPHA-1-STANNAHEXANE, 3-ETHOXY-1,1,1-TRIPHENYL-, 3-SULFIDE □ STANNANE, MERCAPTOTRIPHENYL-, O,O-DIETHYL PHOSPHORODITHIOATE (8CI) □ TIN, DIHYDROGEN PHOSPHORODITHIOATO-S)TRIPHENYL-, O,O-DIETHYL ESTER □ TRIPHENYLTIN-BIS(DIETHYL)DITHIOPHOSPHATE

TOXICITY DATA with REFERENCE:

orl-ckn LD50:230 mg/kg AXVMAW 40,307,86

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of PO_x, SO_x, and Sn.

EFM000 CAS: 625-50-3 HR: 2
ETHYLACETAMIDE
 mf: C₄H₉NO mw: 87.14

PROP: Water white oily liquid. Mp: -32°, bp: 206-208°, flash p: 230°F, d: 0.920 @ 20°/20°, vap d: 3.0. Sol in H₂O, EtOH, and Et₂O.

SYNS: ACETAMIDOETHANE □ N-ETHYLACETAMIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:3130 mg/kg ARZNAD 20,1242,70

ipr-mus LD50:3560 mg/kg ARZNAD 20,1242,70
 ivn-rbt LDLo:9410 mg/kg ARZNAD 20,1242,70
 ivn-ckn LDLo:9600 mg/kg ARZNAD 20,1242,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam. When heated to decomposition it emits toxic fumes of NO_x. See also AMIDES.

EFM500 CAS: 102585-53-5 HR: 2
2-(2-(3-(N-ETHYLACETAMIDO)-2,4,6-TRIODOPHENOXY)ETHOXY)ACETIC ACID SODIUM SALT

mf: C₁₄H₁₆I₃NO₅•Na mw: 682.00

TOXICITY DATA with REFERENCE:

orl-mus LD50:1300 mg/kg FRPSAX 31,349,76
 ivn-mus LD50:550 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⁻, NO_x, and Na₂O. See also IODIDES.

EFN500 CAS: 102585-52-4 HR: 2
2-(2-(3-(N-ETHYLACETAMIDO)-2,4,6-TRIODOPHENOXY)ETHOXY)-2-PHENYL ACETIC ACID SODIUM SALT

mf: C₂₀H₂₀I₃NO₅•Na mw: 758.10

TOXICITY DATA with REFERENCE:

orl-mus LD50:1600 mg/kg FRPSAX 31,349,76
 ivn-mus DL50:405 mg/kg FRPSAX 31,349,76

SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of I⁻, NO_x, and Na₂O. See also IODIDES.

EFO000 CAS: 49642-61-7 HR: 2
2-(2-(3-(N-ETHYLACETAMIDO)-2,4,6-TRIODOPHENOXY)ETHOXY)PROPIONIC ACID SODIUM SALT

mf: C₁₅H₁₈I₃NO₅•Na mw: 696.03

TOXICITY DATA with REFERENCE:

orl-mus LD50:1600 mg/kg FRPSAX 31,349,76
 ivn-mus LD50:425 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⁻, NO_x, and Na₂O.

EFP000 CAS: 23279-54-1 HR: 2
2-(3-(N-ETHYLACETAMIDO)-2,4,6-TRIODOPHENYL)BUTYRIC ACID

mf: C₁₄H₁₆I₃NO₃ mw: 627.01

TOXICITY DATA with REFERENCE:

orl-mus LD50:1260 mg/kg JMC MAR 13,559,70
 ivn-mus LD50:420 mg/kg JMC MAR 13,559,70

SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of I⁻ and NO_x. See also IODIDES.

EFQ500 CAS: 529-65-7 HR: 2**N-ETHYLACETANILIDE**mf: C₁₀H₁₃NO mw: 163.24**PROP:** White crystals, faint odor. Mp: 54°, bp: 258°, d: 0.994, vap d: 5.62.**SYNS:** ACETETHYLANILIDE □ ETHYLACETANILIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:409 mg/kg TXAPA9 19,20,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion.Can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits toxic fumes of NO_x.**EFR000 CAS: 141-78-6 HR: 3****ETHYL ACETATE****DOT:** UN 1173mf: C₄H₈O₂ mw: 88.12CH₃CH₂OCO•CH₃**PROP:** A volatile, flammable, colorless liquid with fragrant fruity odor. Mp: -83.6°, bp: 77.15°, ULC: 85-90, lel: 2.2%, uel: 11%, flash p: 24°F, d: 0.8946 @ 25°, autoign temp: 800°F, vap press: 100 mm @ 27.0°, vap d: 3.04. Misc with alc, ether, glycerin, volatile oils, water @ 54°, and most org solvs. IDLH 2000 ppm [10%LEL].**SYNS:** ACETIC ETHER □ ACETIDIN □ ACETOXYETHANE □ AETHYLACETAT (GERMAN) □ ESSIGESTER (GERMAN) □ ETHYLACETAAT (DUTCH) □ ETHYL ACETIC ESTER □ ETHYLE (ACETATE d') (FRENCH) □ ETHYL ETHANOATE □ ETILE (ACETATO di) (ITALIAN) □ FEMA No. 2414 □ OCTAN ETYLU (POLISH) □ RCRA WASTE NUMBER U112 □ VINEGAR NAPHTHA**TOXICITY DATA with REFERENCE:**

eye-hmn 400 ppm JIHTAB 25,282,43

sln-smc 24,400 ppm MUREAV 149,339,85

cyt-ham:fbr 9 g/L FCTOD7 22,623,84

ihl-hmn TCLo:400 ppm:NOSE,EYE,PUL JIHTAB 25,282,43

orl-rat LD50:5620 mg/kg YKYUA6 32,1241,81

ihl-rat LC50:1600 ppm/8H 14CYAT 2,1879,63

scu-rat LDLo:5000 mg/kg BSIBAC 18,45,43

orl-mus LD50:4100 mg/kg GISAAA 48(4),66,83

ihl-mus LCLo:31 g/m³/2H AGGHAR 5,1,33

ipr-mus LD50:709 mg/kg SCCUR* -,5,61

ihl-cat LCLo:61 g/m³ HBTXAC 1,336,55

scu-cat LD50:3000 mg/kg AGGHAR 5,1,33

orl-rbt LD50:4935 mg/kg IMSUAI 41,31,72

orl-gpg LD50:5500 mg/kg GISAAA 48(4),66,83

ihl-gpg LCLo:77 mg/m³/1H MELAAD 24,166,33

scu-gpg LD50:3000 mg/kg AGGHAR 5,1,33

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**OSHA PEL:** TWA 400 ppm**ACGIH TLV:** TWA 400 ppm; Not Classifiable as a Human Carcinogen**DFG MAK:** 400 ppm (1500 mg/m³)**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Poison by inhalation. Moderately toxic by intraperitoneal and subcutaneous routes. Mildly toxic by ingestion. Human systemic effects by inhalation: olfactory changes, conjunctiva irritation, and pulmonary

changes. Human eye irritant. Mutation data reported. Irritating to mucous surfaces, particularly the eyes, gums, and respiratory passages, and is also mildly narcotic. On repeated or prolonged exposures, it causes conjunctival irritation and corneal clouding. It can cause dermatitis. High concentrations have a narcotic effect and can cause congestion of the liver and kidneys. Chronic poisoning has been described as producing anemia, leucocytosis (transient increase in the white blood cell count), and cloudy swelling, and fatty degeneration of the viscera. A synthetic flavoring substance and adjuvant.

Highly flammable liquid. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Moderate explosion hazard when exposed to flame. Potentially explosive reaction with lithium tetrahydroaluminate. Ignites on contact with potassium tert-butoxide. Violent reaction with chlorosulfonic acid, (LiAlH₂ + 2-chloromethyl furan), oleum. To fight fire, use CO₂, dry chemical, or alcohol foam. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Ethyl Acetate, S49.**EFR100 CAS: 6413-10-1 HR: 1**
ETHYL ACETOACETATE ETHYLENE KETALmf: C₈H₁₄O₄ mw: 174.22**PROP:** Bp: 98° @ 12 mm Hg.**SYNS:** 1,3-DIOXOLANE-2-ACETIC ACID, 2-METHYL-, ETHYL ESTER □ ETHYL 3-OXOBUTYRATE ETHYLENE KETAL □ FRUCTONE □ 2-METHYL-1,3-DIOXOLANE-2-ACETIC ACID ETHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FCTOD7 26,315,88

skn-rbt LD50:>5 g/kg FCTOD7 26,315,88

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.**EFR500 CAS: 62681-13-4 HR: D**
ETHYL-N-(2-ACETOXYETHYL)-N-NITROSO-CARBAMATEmf: C₇H₁₂N₂O₅ mw: 204.21**SYNS:** N-(2-ACETOXYETHYL)-N-NITROSOCARBAMIC ACID ETHYL ESTER □ (2-(ACETOXY)ETHYL)NITROSOCARBAMIC ACID ETHYL ESTER □ N-(2-HYDROXYETHYL)-N-NITROSOCARBAMIC ACID ETHYL ESTER ACETATE**TOXICITY DATA with REFERENCE:**

mmo-sat 2400 pmol/L MUREAV 48,131,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.**EF500 CAS: 141-97-9 HR: 2**
ETHYL ACETYL ACETATEmf: C₆H₁₀O₃ mw: 130.16CH₃CO•CH₂CO•OCH₂CH₃

OSHA PEL: TWA 5 ppm; STEL 25 ppm (skin)
ACGIH TLV: TWA 5 ppm; STEL 15 ppm; Suspected Human Carcinogen

DFG MAK: 5 ppm (21 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Poison by ingestion and inhalation. Moderately toxic by skin contact and intraperitoneal routes. Human systemic effects by inhalation: eye, olfactory, and pulmonary changes. A skin and eye irritant. Characterized in its terminal stages by dyspnea, cyanosis, and convulsive movements. It caused severe local irritation of the gastroenteric tract; and toxic degenerative changes of cardiac, hepatic, renal, and splenic tissues were observed. It gave no evidence of cumulative effects. When applied to the intact skin of rabbits, the ethyl ester caused marked local irritation, erythema, edema, thickening, and vascular damage. Animals subjected to a fairly high concentration of these esters suffered irritation of the mucous membranes of the eyes, nose, and mouth as well as lethargy, dyspnea, and convulsive movements. A substance that migrates to food from packaging materials.

Flammable liquid. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Violent reaction with chlorosulfonic acid. To fight fire, use CO₂, dry chemical, or alcohol foam. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Esters I, 1450.

EFT100 CAS: 25053-63-8 HR: 1
ETHYL ACRYLATE-METHYL METHACRYLATE-METHACRYLIC ACID-ACRYLIC ACID COPOLYMER

mf: (C₅H₈O₂•C₅H₈O₂•C₄H₆O₂•C₃H₄O₂)_x

SYNS: ACRYLIC ACID-ETHYL ACRYLATE-METHACRYLIC ACID-METHYL METHACRYLATE COPOLYMER □ ACRYLIC ACID, POLYMER WITH ETHYL ACRYLATE, METHACRYLIC ACID AND METHYLMETHACRYLATE □ AMERHOLD DR 25 □ AQUEOUS DISPERSION RESIN □ METHACRYLIC ACID, POLYMER WITH ACRYLIC ACID, ETHYL ACRYLATE AND METHYL METHACRYLATE □ 2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH ETHYL 2-PROPENOATE, METHYL 2-METHYL-2-PROPENOATE AND 2-PROPENOIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/4H MLD INHTE5 12,315,2000
 eye-rbt 100 µL MOD INHTE5 12,315,2000
 orl-rat LD :>16 g/kg INHTE5 12,315,2000
 ihl-rat LC50:>1070 mg/m³/4H INHTE5 12,315,2000
 skn-rat LD :>16 g/kg INHTE5 12,315,2000

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

EFT500 CAS: 462-95-3 HR: 3
ETHYLAL

DOT: UN 2373

mf: C₅H₁₂O₂ mw: 104.17

PROP: Bp: 89°, flash p: <69.8°F. Sol in H₂O.

SYN: DIETHOXYMETHANE (DOT)

TOXICITY DATA with REFERENCE:

orl-rbt LD50:2604 mg/kg PSEBAA 29,730,32

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion.

Flammable when exposed to heat or flame; can react vigorously with oxidizers. When heated to decomposition it emits acrid smoke and irritating fumes.

EFU000 CAS: 64-17-5 HR: 3

ETHYL ALCOHOL

DOT: UN 1170/UN 1986/UN 1987

mf: C₂H₆O mw: 46.08

PROP: Clear, colorless, very mobile liquid; fragrant odor and burning taste. Bp: 78.32°, ULC: 70, lel: 3.3%, uel: 19% @ 60°, fp: -117°, flash p: 55.6°F, d: 0.7893 @ 20°/4°, autoign temp: 793°F, vap press: 40 mm @ 19°, vap d: 1.59, refr index: 1.364. Misc in water, alc, chloroform, ether, and most org solvs. IDLH 3300 ppm [10%LEL].

SYNS: ABSOLUTE ETHANOL □ AETHANOL (GERMAN) □ AETHYLALKOHOL (GERMAN) □ ALCOHOL □ ALCOHOL, anhydrous □ ALCOHOL, dehydrated □ ALCOHOLS, n.o.s. (UN 1987) (DOT) □ ALCOHOLS, toxic, n.o.s. (UN 1986) (DOT) □ ALCOOL ETHYLIQUE (FRENCH) □ ALCOOL ETILICO (ITALIAN) □ ALGRAIN □ ALKOHOL (GERMAN) □ ALKOHOLU ETYLOWEGO (POLISH) □ ANHYDROL □ COLOGNE SPIRIT □ ETANOLO (ITALIAN) □ ETHANOL (MAK) □ ETHANOL 200 PROOF □ ETHANOL SOLUTIONS (UN 1170) (DOT) □ ETHYLALCOHOL (DUTCH) □ ETHYL ALCOHOL, anhydrous □ ETHYL ALCOHOL SOLUTIONS (UN 1170) (DOT) □ ETHYL HYDRATE □ ETHYL HYDROXIDE □ ETYLOWY ALKOHOL (POLISH) □ FERMENTATION ALCOHOL □ GRAIN ALCOHOL □ JAYSOL □ JAYSOL S □ METHYL CARBINOL □ MOLASSES ALCOHOL □ NCI-C03134 □ POTATO ALCOHOL □ SD ALCOHOL 23-HYDROGEN □ SPIRIT □ SPIRITS of WINE □ TECSOL

TOXICITY DATA with REFERENCE:

skn-rbt 20 mg/24H MOD 85JCAE -,189,86
 skn-rbt 500 mg/24H SEV 28ZPAK -,34,72
 eye-rbt 500 mg/24H MLD 85JCAE -,189,86
 eye-rbt 100 mg/24H MOD 28ZPAK -,34,72
 eye-rbt 100 mg/4S rms MOD FCTOD7 20,573,82
 mmo-esc 140 g/L MUREAV 130,97,84
 dni-hmn:lym 220 mmol/L PNASA6 79,1171,82
 cyt-mus-orl 40 g/kg NATUAS 302,258,83
 orl-wmn TDLo:41 g/kg (41W preg):REP AJDCAI 129,1075,75
 orl-rat TDLo:4 g/kg (13D preg):TER CYGEDX 15,23,81
 orl-mus TDLo:320 mg/kg/50W-I:ETA CALEDQ 13,345,81
 orl-chd LDLo:2000 mg/kg ATXKA8 17,183,58
 orl-cld TDLo:14,400 mg/kg/30M-I ACPAAN 74,977,85
 orl-man TDLo:700 mg/kg NETOD7 8,77,86
 orl-hmn LDLo:1400 mg/kg NPRI* 1,44,74
 orl-man TDLo:50 mg/kg:GIT JPETAB 56,117,36
 orl-man TDLo:1430 µg/kg:CNS JPETAB 197,488,76
 orl-wmn TDLo:256 g/kg/12W:CNS,END JAMAAP 238,2143,77
 scu-inf LDLo:19,440 mg/kg:CNS,MET AJCPAI 5,466,35
 orl-rat LD50:7060 mg/kg TXAPA9 16,718,70
 ihl-rat LC50:20,000 ppm/10H NPRI* 1,44,74

ipr-rat LD50:3750 mg/kg EVHPAZ 61,321,85
 ivn-rat LD50:1440 mg/kg TXAPA9 18,60,71
 orl-mus LD50:3450 mg/kg GISAAA 32(3),31,67
 ihl-mus LC50:39 g/m³/4H GTPZAB 26(8),82
 ipr-mus LD50:933 mg/kg SCCUR* -,5,61
 scu-mus LD50:8285 mg/kg FAONAU 48A,99,70
 ivn-mus LD50:1973 mg/kg HBTXAC 1,128,56
 orl-dog LDLo:5500 mg/kg HBTXAC 1,130,56
 ipr-dog LDLo:3000 mg/kg BJIMAG 1,207,44
 scu-dog LDLo:6000 mg/kg HBTXAC 1,130,56

CONSENSUS REPORTS: IARC Cancer Review: Human Sufficient Evidence IMEMDT 44,259,88. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 1000 ppm

ACGIH TLV: TWA 1000 ppm; Not Classifiable as a Human Carcinogen

DFG MAK: 500 ppm (960 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid (UN 1987, UN 1170); DOT Class: 3; Label: Flammable Liquid, Poison (UN 1986)

SAFETY PROFILE: Confirmed human carcinogen for ingestion of beverage alcohol. Experimental tumorigenic and teratogenic data. Moderately toxic to humans by ingestion. Moderately toxic experimentally by intravenous and intraperitoneal routes. Mildly toxic by inhalation and skin contact. Human systemic effects by ingestion and subcutaneous routes: sleep disorders, hallucinations, distorted perceptions, convulsions, motor activity changes, ataxia, coma, antipsychotic, headache, pulmonary changes, alteration in gastric secretion, nausea or vomiting, other gastrointestinal changes, menstrual cycle changes, and body temperature decrease. Can also cause glandular effects in humans. Human reproductive effects by ingestion, intravenous, and intrauterine routes: changes in female fertility index. Effects on newborn include: changes in Apgar score, neonatal measures or effects, and drug dependence. Experimental reproductive effects. Human mutation data reported. An eye and skin irritant.

The systemic effect of ethanol differs from that of methanol. Ethanol is rapidly oxidized in the body to carbon dioxide and water, and, in contrast to methanol, no cumulative effect occurs. Though ethanol possesses narcotic properties, concentrations sufficient to produce this effect are not reached in industry. Concentrations below 1000 ppm usually produce no signs of intoxication. Exposure to concentrations over 1000 ppm may cause headache, irritation of the eyes, nose, and throat, and, if continued for an hour, drowsiness and lassitude, loss of appetite, and inability to concentrate. There is no concrete evidence that repeated exposure to ethanol vapor results in cirrhosis of the liver. Ingestion of large doses can cause alcohol poisoning. Repeated ingestions can lead to alcoholism. It is a central nervous system depressant.

Flammable liquid when exposed to heat or flame; can react vigorously with oxidizers. To fight fire, use alcohol foam, CO₂, dry chemical. Explosive reaction with the oxidized coating around potassium metal. Ignites and then explodes on contact with acetic anhydride + sodium hydrogen sulfate. Reacts violently with acetyl bromide (evolves hydrogen bromide), dichloromethane + sulfuric acid + nitrate or nitrite, disulfuryl difluoride,

tetrachlorosilane + water, and strong oxidants. Ignites on contact with disulfuric acid + nitric acid, phosphorus(III) oxide, platinum, potassium-tert-butoxide + acids. Forms explosive products in reaction with ammonia + silver nitrate (forms silver nitride and silver fulminate), magnesium perchlorate (forms ethyl perchlorate), nitric acid + silver (forms silver fulminate), silver nitrate (forms ethyl nitrate), silver(I) oxide + ammonia or hydrazine (forms silver nitride and silver fulminate), sodium (evolves hydrogen gas). Incompatible with acetyl chloride, BrF₃, Ca(OCl)₂, ClO₃, CrO₃, Cr(OCl)₂, (cyanuric acid + H₂O), H₂O₂, HNO₃, (H₂O₂ + H₂SO₄), (I + CH₃OH + HgO), [Mn(ClO₄)₂ + 2,2-dimethoxy propane], Hg(NO₃)₂, HClO₄, perchlorates, (H₂SO₄ + permanganates), HMnO₄, KO₂, KOC(CH₃)₃, AgClO₄, NaH₃N₂, UO₂(ClO₄)₂.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Alcohols I, 1400.

EFU050 CAS: 563-43-9 HR: 1
ETHYL ALUMINUM DICHLORIDE

mf: C₂H₅AlCl₂ mw: 126.95

SYNS: ALUMINUM, DICHLOROETHYL- □ DICHLOROETHYL-ALUMINUM □ DICHLOROMONOETHYLALUMINUM □ ETHYLDICHLOROALUMINUM

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 2 mg(Al)/m³

SAFETY PROFILE: Mildly toxic by inhalation. When heated to decomposition it emits toxic vapors of Cl⁻.

EFU100 CAS: 2938-73-0 HR: 3
ETHYL ALUMINUM DIODIDE

mf: C₂H₅AlI₂ mw: 309.85

SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of I⁻. See also ALUMINUM and IODIDES.

EFU400 CAS: 75-04-7 HR: 3
ETHYLAMINE

DOT: UN 1036/UN 2270

mf: C₂H₇N mw: 45.10

PROP: Colorless gas or liquid; strong ammonia-like odor. Bp: 16.6°, flammable, lel: 4.95%, uel: 20.75%, fp: -80.6°, flash p: -0.4°F, d: 0.662 @ 20°/4°, autoign temp: 725°F, vap d: 1.56, vap press: 400 mm @ 20°. Misc with water, alc, and ether; salted out by NaOH. IDLH 600 ppm.

SYNS: AETHYLAMINE (GERMAN) □ AMINOETHANE □ 1-AMINOETHANE □ ETHANAMINE □ ETHYLAMINE (UN 1036) (DOT) □ ETHYLAMINE, aqueous solution with not <50% but not >70% ethylamine (UN 2270) (DOT) □ ETILAMINA (ITALIAN) □ ETYLOAMINA (POLISH) □ MONOETHYLAMINE (DOT) □ MONOETHYLAMINE, anhydrous (DOT)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,429,86
 eye-rbt 50 ppm/10D-I SEV AMIHBC 3,287,51
 eye-rbt 250 µg/24H SEV 85JCAE -,429,86
 orl-rat LD50:400 mg/kg AMIHBC 10,61,54
 ihl-rat LCLo:3000 ppm/4H AEHLAU 1,343,60
 skn-rbt LD50:390 mg/kg AEHLAU 1,343,60
 ivn-rbt LDLo:350 mg/kg HBAMAK 4,129,35

orl-rat LD50:1000 mg/kg FCTXAV 5,327,67
 ipr-rat LD50:1170 mg/kg TXAPA9 12,486,68
 skn-rbt LD50:360 mg/kg AMIHBC 10,61,54
 orl-mam LD50:1200 mg/kg TXAPA9 8,344,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by skin contact. Moderately toxic by ingestion and intraperitoneal routes. A skin and severe eye irritant. Flammable when exposed to heat or flame; can react vigorously with oxidizers. To fight fire, use alcohol foam, dry chemical, CO₂. When heated to decomposition it emits toxic fumes of NO_x.

EGA600 CAS: 13479-19-1 HR: D
1-((2-(ETHYLAMINO)ETHYL)AMINO)-4-(HYDROXYMETHYL)THIOXANTHEN-9-ONE

mf: C₁₈H₂₀N₂O₂S mw: 328.46

SYNS: DEETHYL HYCANTHONE □ DESETHYLHYCANTH-ONE □ THIOXANTHEN-9-ONE, 1-((2-(ETHYLAMINO)ETHYL)-AMINO)-4-(HYDROXYMETHYL)- □ 9H-THIOXANTHEN-9-ONE, 1-((2-(ETHYLAMINO)ETHYL)AMINO)-4-(HYDROXYMETHYL)- □ WIN 27262 □ WIN 27,262

TOXICITY DATA with REFERENCE:

mor-rat-emb 500 µg/ JTEHD6 1,323,1975

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

EGA650 CAS: 13479-21-5 HR: D
1-ETHYLAMINOETHYLAMINO-4-METHYL-10-THIAXANTHENONE

mf: C₁₈H₂₀N₂OS mw: 312.46

SYNS: DESETHYLLUCANTHONE □ 9H-THIOXANTHEN-9-ONE, 1-((2-(ETHYLAMINO)ETHYL)AMINO)-4-METHYL- □ THIOXANTHEN-9-ONE, 1-((2-(ETHYLAMINO)ETHYL)AMINO)-4-METHYL-

TOXICITY DATA with REFERENCE:

dni-ipr-rat 50 mg/kg IJCNAW 9,484,1972

uns-ipr-rat 50 mg/kg IJCNAW 9,484,1972

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

EGC000 CAS: 52400-55-2 HR: 3
2-(2-(ETHYLAMINO)ETHYL)-2-METHYL-1,3-BENZODIOXOLE HYDROCHLORIDE

mf: C₁₂H₁₇NO₂•ClH mw: 243.76

TOXICITY DATA with REFERENCE:

ivn-rat LD50:40 mg/kg EJMCA5 12,413,77

ipr-mus LD50:100 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.

EGC500 CAS: 42145-91-5 HR: 3
dl-(±)-3-(2-ETHYLAMINO-1-HYDROXYETHYL)PHENYL PIVALATE HYDROCHLORIDE

mf: C₁₅H₂₃NO₃•ClH mw: 301.85

PROP: Crystals from 2-propanol. Mp: 209.4°.

SYNS: 2,2-DIMETHYLPROPANOIC ACID-3-(2-(ETHYLAMINO)-1-HYDROXYETHYL)PHENYL ESTER HYDROCHLORIDE □ dl-(±)α-(ETHYLAMINOMETHYL)-3'-HYDROXYBENZYL ALCOHOL 3-(2,2-DIMETHYLPROPIONATE)HCl □ α-((ETHYLAMINO)-METHYL)-m-HYDROXYBENZYL ALCOHOL 2,2-DIMETHYL-PROPIONATE HYDROCHLORIDE □ ETILEFRINE PIVALATE HYDROCHLORIDE □ K-30052

TOXICITY DATA with REFERENCE:

orl-rat LDLo:240 mg/kg DRFUD4 4,413,79

ivn-rat LDLo:20 mg/kg DRFUD4 4,413,79

orl-mus LDLo:500 mg/kg DRFUD4 4,413,79

ivn-mus LDLo:24 mg/kg DRFUD4 4,413,79

orl-dog LDLo:140 mg/kg DRFUD4 4,413,79

ivn-dog LDLo:8 mg/kg DRFUD4 4,413,79

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

EGD000 CAS: 1610-17-9 HR: 2
2-ETHYLAMINO-4-ISOPROPYLAMINO-6-METHOXY-s-TRIAZINE

mf: C₉H₁₇N₅O mw: 211.31

SYNS: ATRATON □ ATRATONE □ ATROTON □ 4-ETHYLAMINO-6-ISOPROPYLAMINO-2-METHOXY-s-TRIAZINE □ 6-ETHYLAMINO-4-ISOPROPYLAMINO-2-METHOXY-1,3,5-TRIAZINE □ N-ETHYL-6-METHOXY-N'-(1-METHYLETHYL)-1,3,5-TRIAZINE-2,4-DIAMINE □ GEIGY 32,293 □ GESATAMIN □ 2-METHOXY-4-ETHYLAMINO-6-ISOPROPYLAMINO-s-TRIAZINE □ 2-METHOXY-4-ISOPROPYLAMINO-6-ETHYLAMINO-s-TRIAZINE □ PRIMATOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1465 mg/kg FMCHA2 -,C19,83

orl-mus LD50:905 mg/kg 85DPAN -,71/76

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

EGE500 CAS: 709-55-7 HR: 3
α-((ETHYLAMINO)METHYL)-m-HYDROXY-BENZYL ALCOHOL

mf: C₁₀H₁₅NO₂ mw: 181.26

PROP: A solid. Mp: 147–148°.

SYNS: EFFORTIL □ ETHYLADRIANOL □ ETHYL NORADRIANOL □ N-ETHYLNORPHENYLEPHRINE □ ETILEFRINE □ m-HYDROXYPHENYLETHANOLETHYLAMINE □ 1-(3'-HYDROXYPHENYL)-2-ETHYLAMINOETHANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:114 mg/kg AIPTAK 180,155,69

ipr-rat LD50:820 mg/kg OYYAA2 3,27,69

scu-rat LD50:244 mg/kg AIPTAK 180,155,69

idu-rat LD50:200 mg/kg AIPTAK 180,155,69

orl-mus LD50:770 mg/kg ARZNAD 22,869,72

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraduodenal routes. Moderately toxic by intraperitoneal route. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

EGF000 CAS: 943-17-9 HR: 3
α-((ETHYLAMINO)METHYL)-m-HYDROXYBENZYL ALCOHOL HYDROCHLORIDE

mf: C₁₀H₁₅NO₂•ClH mw: 217.72

EGM100 CAS: 42971-09-5 HR: 3**ETHYL APOVINCAMINATE**mf: $C_{22}H_{26}N_2O_2$ mw: 350.50**PROP:** Crystals from benzene or alc. Mp: 148–152° (decomp).**SYNS:** 3- α ,16- α -APOVINCAMINIC ACID ETHYL ESTER \square CAVINTON \square ETHYL APOVINCAMIN-22-OATE \square RGH-4405 \square TCV-3B \square VINPOCETINE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:503 mg/kg ARZNAD 26,1938,76
 ipr-rat LD50:134 mg/kg ARZNAD 26,1938,76
 ivn-rat LD50:42,600 mg/kg ARZNAD 26,1938,76
 orl-mus LD50:534 mg/kg ARZNAD 26,1938,76
 ipr-mus LD50:161 mg/kg ARZNAD 26,1938,76
 ivn-mus LD50:58,700 μ g/kg ARZNAD 26,1938,76

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .**EGM150 CAS: 593-59-9 HR: 2****ETHYLARSINE**mf: C_2H_7As mw: 106.01**SYNS:** ARSINE, ETHYL- \square MONOETHYLARSINE \square TL 425**TOXICITY DATA with REFERENCE:**ihl-mus LCLo:2140 mg/ m^3 /10M NDRC** NDCrc-132,NOV1942**OSHA PEL:** TWA 500 μ g(As)/ m^3 **SAFETY PROFILE:** Moderately toxic by inhalation. When heated to decomposition it emits toxic vapors of As.**EGM200 CAS: 43130-12-7 HR: D****ETHYL AURAMINE NITRATE**mf: $C_{21}H_{29}N_3 \cdot HNO_3$ mw: 386.55**SYNS:** BENZENAMINE, 4,4'-CARBONIMIDOYLBIS(N,N-DIETHYL-, MONONITRATE \square 4,4'-CARBONIMIDOYLBIS(N,N-DIETHYLBENZENAMINE) MONONITRATE \square NITRATE SALT OF ETHYL AURAMINE**TOXICITY DATA with REFERENCE:**

mor-ork-rat 21,840 mg/kg EPASR* 8EHQ-0588-0730

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and HNO_3 .**EGM500 CAS: 871-31-8 HR: 3****ETHYL AZIDE**mf: $C_2H_5N_3$ mw: 71.08**SAFETY PROFILE:** A liquid. Bp: 50°. An explosive sensitive to rapid heating, shock or impact. Has exploded when heated to room temperature. When heated to decomposition it emits toxic fumes of NO_x . See also AZIDES.**EGN000 CAS: 817-87-8 HR: 3****ETHYL AZIDOFORMATE**mf: $C_3H_5N_3O_2$ mw: 115.09
 $CH_3CH_2OCO \cdot N_3$ **PROP:** Bp: 28° @ 20 mm.**SYN:** ETHYL CARBONAZIDATE**SAFETY PROFILE:** Explodes at its boiling point (114°C). When heated to decomposition it emits toxic fumes of NO_x . See also AZIDES.**EGN100 CAS: 81852-50-8 HR: 3****ETHYL-2-AZIDO-2-PROPENOATE**mf: $C_5H_7N_3O_2$ mw: 141.13 $CH_3CH_2OCO \cdot C(N_3)=CH_2$ **SAFETY PROFILE:** Potentially explosive when heated. When heated to decomposition it emits toxic fumes of NO_x . See also AZIDES.**EGN500 CAS: 2549-67-9 HR: 3****2-ETHYLAZIRIDINE**mf: C_4H_9N mw: 71.14**SYNS:** 1,2-BUTYLENIMINE \square 2-ETHYLETHYLENIMINE \square N-METHYLCAPROLACTAM \square 1-METHYLCAPROLACTAM**TOXICITY DATA with REFERENCE:**

ihl-rat LCLo:1000 ppm/3.5H NTIS** AD441-640
 ipr-mus LD50:52 mg/kg NTIS** AD441-640

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. Moderately toxic by inhalation. When heated to decomposition it emits toxic fumes of NO_x .**EGO000 CAS: 56961-62-7 HR: 2****5-ETHYL-1,2-BENZANTHRACENE**mf: $C_{20}H_{16}$ mw: 256.36**SYN:** 8-ETHYLBENZ(a)ANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**EGO500 CAS: 3697-30-1 HR: 2****10-ETHYL-1,2-BENZANTHRACENE**mf: $C_{20}H_{16}$ mw: 256.36**PROP:** Faintly green-yellow crystals from EtOH. Mp: 113.5–114°.**SYN:** 7-ETHYLBENZ(a)ANTHRACENE**TOXICITY DATA with REFERENCE:**mma-sat 50 μ g/plate MUREAV 206,55,88**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**EGN600 CAS: 736-40-3 HR: 2****ETHYL p-BENZAMIDOBENZOATE**mf: $C_{16}H_{15}NO_3$ mw: 269.32**SYN:** BENZOIC ACID, p-BENZAMIDO-, ETHYL ESTER**TOXICITY DATA with REFERENCE:**

ork-rat LDLo:500 mg/kg NCNSA6 5,10,1953

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x .**EGP000 CAS: 18868-66-1 HR: 2****12-ETHYLBENZ(a)ANTHRACENE**mf: $C_{20}H_{16}$ mw: 256.36

PROP: Crystals from EtOH. Mp: 107.4–108.4°.

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

EGP500 CAS: 100-41-4 HR: 3
ETHYL BENZENE

DOT: UN 1175

mf: C₈H₁₀ mw: 106.18

PROP: Colorless liquid; aromatic odor. Bp: 136.2°, fp: –94.9°, flash p: 59°F, d: 0.8669 @ 20°/4°, autoign temp: 810°F, vap press: 10 mm @ 25.9°, vap d: 3.66, lel: 1.2%, uel: 6.8%. Misc in alc and ether; insol in NH₃; sol in SO₂. IDLH 800 ppm [10%LEL].

SYNS: AETHYLBENZOL (GERMAN) □ EB □ ETHYLBENZEEN (DUTCH) □ ETHYLBENZOL □ ETILBENZENE (ITALIAN) □ ETYLOBENZEN (POLISH) □ NCI-C56393 □ PHENYLETHANE

TOXICITY DATA with REFERENCE:

skn-rbt 15 mg/24H open MLD AIHAAP 23,95,62

eye-rbt 100 mg AJOPAA 29,1363,46

sce-hmn:lym 1 mmol/L MUREAV 116,379,83

ihl-hmn TCLo:100 ppm/8H:EYE,CNS,PUL AIHAAP 31,206,70

orl-rat LD50:3500 mg/kg AMIHAB 14,387,56

ihl-rat LCLo:4000 ppm/4H AIHAAP 23,95,62

ihl-mus LCLo:50 g/m³/2H GTPZAB 5(5),3,61

ipr-mus LD50:2272 mg/kg ARTODN 58,106,85

skn-rbt LD50:17,800 mg/kg FCTXAV 13,803,75

ihl-gpg LCLo:10,000 ppm PHRPA6 45,1241,30

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. Community Right-To-Know List.

OSHA PEL: TWA 100 ppm; STEL 125 ppm

ACGIH TLV: TWA 100 ppm; STEL 125 ppm; Confirmed Animal Carcinogen with Unknown Relevance to Humans; BEI: 1.5 g/g creatinine of manelic acid) in urine at end of shift at end of workweek

DFG MAK: 100 ppm (440 mg/m³)

NIOSH REL: (Ethyl Benzene) TWA 100 ppm; STEL 125 ppm

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by inhalation and skin contact. An experimental teratogen. Other experimental reproductive effects. Human systemic effects by inhalation: eye, sleep, and pulmonary changes. An eye and skin irritant. Human mutation data reported. The liquid is an irritant to the skin and mucous membranes. A concentration of 0.1% of the vapor in air is an irritant to human eyes, and a concentration of 0.2% is extremely irritating at first, then causes dizziness, irritation of the nose and throat, and a sense of constriction in the chest. Exposure of guinea pigs to 1% concentration has been reported as causing ataxia, loss of consciousness, tremor of the extremities, and finally death through respiratory failure. The pathological findings were congestion of the brain and lungs with edema.

A very dangerous fire and explosion hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. Emitted from modern building materials

(CENEAR 69,22,91). When heated to decomposition it emits acrid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Hydrocarbons, Aromatic, 1501.

EGQ000 CAS: 93-54-9 HR: 2
α-ETHYLBENZENEMETHANOL

mf: C₉H₁₂O mw: 136.21

SYNS: EJIBIL □ α-ETHYLBENZYL ALCOHOL □ ETHYL PHENYL CARBINOL □ FELICUR □ FELITROPE □ FENICOL □ α-HYDROXYPROPYLBENZENE □ LIVONAL □ PHENICOL □ PHENYCHOLON □ PHENYLAETHYLCARBINOL (GERMAN) □ 1-PHENYLPROPANOL □ 1-PHENYL-1-PROPANOL □ 1-PHENYLPROPYL ALCOHOL □ SH 261

TOXICITY DATA with REFERENCE:

orl-rat LD50:1600 mg/kg ARZNAD 12,347,62

orl-mus LD50:500 mg/kg AIPTAK 116,154,58

scu-mus LD50:700 mg/kg AIPTAK 116,154,58

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

EGQ100 CAS: 5339-67-3 HR: 2
N-ETHYLBENZENESULFONAMIDE

mf: C₈H₁₁NO₂S mw: 185.26

SYN: BENZENESULFONAMIDE, N-ETHYL-

TOXICITY DATA with REFERENCE:

orl-rat LDLo:500 mg/kg NCNSA6 5,39,1953

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

EGR000 CAS: 93-89-0 HR: 2
ETHYL BENZOATE

mf: C₉H₁₀O₂ mw: 150.19

PROP: Colorless liquid; heavy fruity odor. Mp: –34.6°, bp: 213.4°, flash p: >204°F, d: 1.048 @ 20°/20°, fp: –34°, refr index: 1.502–1.506, vap press: 1 mm @ 44.0°, vap d: 5.17, autoign temp: 914°F. Sol in alc, fixed oils, and propylene glycol; insol in glycerin, water @ 212°; misc in petroleum, chloroform, and ether.

SYNS: BENZOIC ETHER □ ESSENCE of NIOBE □ FEMA No. 2422

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 LD50:2100 mg/kg JPETAB 84,358,45

skn-cat LDLo:10 g/kg JPETAB 84,358,45

orl-rbt LD50:2630 mg/kg JPETAB 84,358,45

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EGR500 CAS: 6797-13-3 HR: 2
2-ETHYLBENZOXAZOLE

mf: C₉H₉NO mw: 147.19

decomposition or on contact with acid or acid fumes, it emits highly toxic fumes of Br⁻. See also BROMIDES.

EGV400 CAS: 74-96-4 HR: 3

ETHYL BROMIDE

DOT: UN 1891

mf: C₂H₅Br mw: 108.98

PROP: Colorless, volatile liquid. Mp: -119°, bp: 38.4°, fp: -125.5°, lel: 6.7%, uel: 11.3%, flash p: <-4°F, d: 1.451 @ 20°/4°, autoign temp: 952°F, vap press: 400 mm @ 21°, vap d: 3.76. IDLH 2000 ppm.

SYNS: BROMIC ETHER □ BROMOETHANE □ BROMURE d'ETHYLE □ ETYLU BROMEK (POLISH) □ HALON 2001 □ HYDROBROMIC ETHER □ MONOBROMOETHANE □ NCI-C55481

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1750 mg/kg JPCEAO 320,133,78
ihl-mus LC50:16,230 ppm/1H AMRL** TR-72-62/72
ipr-mus LD50:2850 mg/kg JPCEAO 320,133,78
orl-rat LD50:1350 mg/kg 85GMAT -,65,82
ihl-rat LDLo:148,000 ppm/15M AMHBC 6,435,52

CONSENSUS REPORTS: NTP Carcinogenesis Studies (inhalation); Clear Evidence: mouse NTPTR* NTP-TR-363,89; (inhalation); Some Evidence: rat NTPTR* NTP-TR-363,89. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 200 ppm; STEL 250 ppm

ACGIH TLV: TWA 5 ppm (skin); Animal Carcinogen

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Confirmed carcinogen.

Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by inhalation. An eye and skin irritant. Physiologically, it is an anesthetic and narcotic. Its vapors are markedly irritating to the lungs on inhalation for even short periods. It can produce acute congestion and edema. Liver and kidney damage in humans has been reported. It is much less toxic than methyl bromide, but more toxic than ethyl chloride. It is a preparative hazard. Dangerously flammable by heat, open flame (sparks), oxidizers. Moderately explosive when exposed to flame. Reacts with water or steam to produce toxic and corrosive fumes. Vigorous reaction with oxidizing materials. To fight fire, use CO₂, dry chemical. Readily decomposes when heated to emit toxic fumes of Br⁻. See also BROMIDES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ethyl Bromide, 1011.

EGV450 CAS: 1187-46-8 HR: 3

ETHYL α-BROMO-α-CYANOACETATE

mf: C₅H₆BrNO₂ mw: 192.03

SYN: ACETIC ACID, 2-BROMO-2-CYANO-, ETHYL ESTER

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#00605

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

EGV500 CAS: 4824-78-6 HR: 3
ETHYL BROMOPHOS

mf: C₁₀H₁₂BrCl₂O₃PS mw: 394.06

PROP: Pale-yellow liquid. D: 1.52-1.55 (tech) @ 20°, bp: 122-123° @ 0.004 mm.

SYNS: 4-BROMO-2,5-DICHLOROPHENOL-o-ESTER with O,O-DIETHYL PHOSPHOROTHIOATE □ O-(4-BROMO-2,5-DICHLOROPHENYL)-O,O-DIETHYL PHOSPHOROTHIOATE □ O-(4-BROMO-2,5-DICHLOROPHENYL)-O,O-DIETHYL-PHOSPHOROTHIONATE □ BROMOFOS-ETHYL □ BROMO-POSETHYL □ CELA S-2225 □ O,O-DIAETHYL-O-(4-BROM-2,5-DICHLOR)-PHENYL-MONOTHIOFOSPHAT (GERMAN) □ O,O-DIAETHYL-O-(2,5-DICHLOR-4-BROMPHENYL)THIONO-PHOSPHAT (GERMAN) □ O,O-DIETHYL-O-(4-BROM-2,5-DICHLOR-FENYL)-MONOTHIOFOSFAAT (DUTCH) □ O,O-DIETHYL O-2,5-DICHLORO-4-BROMOPHENYL-PHOSPHORO-THIOATE □ O,O-DIETHYL O-(2,5-DICHLORO-4-BROMOPHENYL) THIOFOSPHATE □ O,O-DIETIL-O-(4-BROMO-2,5-DICHLORO-FENYL)-MONOTIOFOSFATO (ITALIAN) □ ENT 27,258 □ FILARIOL □ NEXAGAN □ OMS-659 □ S 2225 □ THIOPHOSPHATE de O,O-DIETHYLE et de O-(2,5-DICHLORO-4-BROMO) PHENYLE (FRENCH)

TOXICITY DATA with REFERENCE:

orl-rat LD50:52 mg/kg SPEADM 74-1,-,74
ihl-rat LC50:16,600 pph 85DPAN -,71/76
skn-rat LD50:1000 mg/kg WRPCA2 9,119,70
orl-mus LD50:210 mg/kg FMCHA2 -,C37,83
skn-rbt LD50:1366 mg/kg 28ZEAL 5,29,76

CONSENSUS REPORTS: Chlorophenol compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact and inhalation. An insecticide. When heated to decomposition it emits very toxic fumes of Br⁻, PO_x, SO_x, and Cl⁻. See also CHLOROPHENOLS.

EGV550 CAS: 25413-02-9 HR: D
ETHYL (2-BROMOPROPIONAMIDO)ACETATE

mf: C₇H₁₂BrNO₃ mw: 238.11

SYNS: ACETIC ACID, (2-BROMOPROPIONAMIDO)-, ETHYL ESTER □ GLYCINE, N-(2-BROMO-1-OXOPROPYL)-, ETHYL ESTER

TOXICITY DATA with REFERENCE:

mic-sat 4 mg/plate MUREAV 172,29,1986

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

EGV600 CAS: 3404-63-5 HR: 3
2-ETHYLBUTADIENE

mf: C₆H₁₀ mw: 82.16

SYNS: 1,3-BUTADIENE, 2-ETHYL- □ 2-ETHYL-1,3-BUTADIENE □ 1-PENTENE, 3-METHYLENE-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#03509

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

EGW000 CAS: 97-95-0 HR: 3
2-ETHYLBUTANOL

DOT: UN 2275

mf: C₆H₁₄O mw: 102.20

PROP: Clear liquid. Bp: 144-146°, flash p: 135°F (COC), d: 0.8328, vap press: 0.9 mm @ 20°, vap d: 3.4.

SYNS: 2-ETHYLBUTANOL-1 □ 2-ETHYL-1-BUTANOL □ 2-ETHYLBUTYL ALCOHOL □ sec-HEXANOL (DOT) □ sec-HEXYL ALCOHOL □ 3-METHYLOLPENTANE □ sec-PENTYLCARBINOL □ 3-PENTYLCARBINOL □ PSEUDOHEXYL ALCOHOL

TOXICITY DATA with REFERENCE:

skn-rbt 415 mg open MLD UCDS** 12/14/71
 skn-rbt 500 mg/24H MLD 85JCAE -,197,86
 eye-rbt 250 µg open SEV AMIHBC 10,61,54
 orl-rat LD50:1850 mg/kg AMIHBC 10,61,54
 orl-rbt LD50:1200 mg/kg JPETAB 82,377,44
 skn-rbt LD50:1260 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

EGW500 CAS: 760-21-4 HR: 3
2-ETHYL-1-BUTENE

mf: C₆H₁₂ mw: 84.18

PROP: A liquid. Flash p: <-4°, autoign temp: 599°F, d: 0.69, vap d: 2.9, bp: 64.7°.

TOXICITY DATA with REFERENCE:

eye-hmn 5 ppm JOCMA7 2,383,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A human eye irritant. A very dangerous fire hazard when exposed to heat, flames, or oxidizers. To fight fire, use dry chemical, CO₂, foam, spray. When heated to decomposition it emits acrid smoke and irritating fumes.

EGX000 CAS: 4468-93-3 HR: 3
2-(2-ETHYLBUTOXY)ETHANOL

mf: C₈H₁₈O₂ mw: 146.26

PROP: Liquid. Bp: 197°, fp: -90°, flash p: 180°F (OC), d: 0.8954 @ 20°/20°, vap press: 0.17 mm @ 20°, vap d: 5.04.

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 10,61,54
 eye-rbt 250 µg open SEV AMIHBC 10,61,54
 orl-rat LD50:1910 mg/kg AMIHBC 10,61,54
 skn-rbt LD50:320 mg/kg AMIHBC 10,61,54

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

EGX500 CAS: 63907-07-3 HR: 2
N-(2-ETHYLBUTOXYETHOXYPROPYL)-5-NORBORNENE-2,3-DICARBOXIMIDE

mf: C₂₀H₃₄N₂O₄ mw: 366.56

SYN: N-(2-ETHYLBUTOXYETHOXYPROPYL)BICYCLO(2.2.1)HEPTENE-2,3-DICARBOXIMIDE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open SEV AIHAAP 23,95,62
 orl-rat LD50:9500 mg/kg AIHAAP 23,95,62
 skn-rbt LD50:16 g/kg AIHAAP 23,95,62

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

EGX600 CAS: 63716-41-6 HR: 3
2-ETHYLBUTOXYPROPANOL, MIXED ISOMERS

mf: C₉H₂₀O₂ mw: 160.29

SYN: PROPANOL, 2-ETHYLBUTOXY-, MIXED ISOMERS

TOXICITY DATA with REFERENCE:

orl-rat LD50:3560 µL/kg AIHAAP 30,470,69
 skn-rbt LD50:6 mL/kg AIHAAP 30,470,69

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

EGY000 CAS: 10213-74-8 HR: 2
3-(2-ETHYLBUTOXY)PROPIONIC ACID

mf: C₉H₁₈O₃ mw: 174.27

PROP: Water-white liquid, insol in water. D: 0.96 @ 20°/20°, bp: 200° @ 100 mm, vap press: <0.1 mm @ 20°, flash p: 280°F.

SYN: KYSELINA 3-(2-ETHYLBUTOXY)PROPIONOVA

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H SEV AMIHBC 10,61,54
 eye-rbt 750 µg SEV AMIHBC 10,61,54
 orl-rat LD50:3730 mg/kg AMIHBC 10,61,54
 skn-rbt LD50:530 mg/kg AMIHBC 10,61,54

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

EGY500 CAS: 10232-91-4 HR: 2
3-(2-ETHYLBUTOXY)PROPIONITRILE

mf: C₉H₁₇NO mw: 155.27

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg AMIHBC 10,61,54
 orl-rat LD50:2460 mg/kg AMIHBC 10,61,54
 skn-rbt LD50:10 g/kg AMIHBC 10,61,54

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

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

EGZ000 CAS: 3953-10-4 HR: 3
2-ETHYLBUTYLACRYLATE

mf: C₉H₁₆O₂ mw: 156.25

PROP: Clear, colorless liquid. Bp: 82° @ 10 mm, fp: -70°, flash p: 125°F (OC), d: 0.8964 @ 20°/20°, vap press: 1.7 mm @ 20°.

SYNS: 2-ETHYLBUTYL ESTER, ACRYLIC ACID □ 2-ETHYLBUTYLESTER KYSELINY AKRYLOVE □ 2-PROPENOIC ACID-2-ETHYLBUTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open SEV AMIHBC 4,119,51
 eye-rbt 500 mg open AMIHBC 4,119,51
 orl-rat LDLo:6490 mg/kg AMIHBC 4,119,51
 skn-rbt LD50:5500 mg/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EHA000 CAS: 617-79-8 HR: 3
2-ETHYLBUTYLAMINE

mf: C₆H₁₃N mw: 101.22

PROP: Water-white liquid. Bp: 125°, flash p: 64°F (OC), d: 0.739 @ 20°/20°, vap d: 3.5.

SYN: 2-ETHYL-1-BUTANAMINE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open AMIHBC 10,61,54
 skn-rbt 5 mg/24H SEV 85JCAE -,434,86
 eye-rbt 250 µg open SEV AMIHBC 10,61,54
 orl-rat LD50:310 mg/kg GISAAA 39(3),106,74
 ihl-rat LC50:500 ppm/4H 85JCAE -,434,86
 skn-rbt LD50:2000 mg/kg AMIHBC 10,61,54

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. A skin and severe eye irritant. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Keep away from heat and open flame. To fight fire, use dry chemical, CO₂, foam. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

EHA050 CAS: 13360-63-9 HR: 3
N-ETHYLBUTYLAMINE

mf: C₆H₁₃N mw: 101.22

SYNS: BUTYLAMINE, N-ETHYL- □ BUTYLETHYLAMINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:310 mg/kg GISAAA 39(3),106,74
 orl-mus LD50:418 mg/kg GISAAA 39(3),106,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EHA100 CAS: 591-62-8 HR: 3
ETHYL BUTYLCARBAMATE

mf: C₇H₁₅NO₂ mw: 145.23

PROP: A liquid. Fp -22°, bp: 202–203° @ 765.5 mm.

SYNS: BUR □ 1-BUTYLURETHAN □ BUTYLURETHANE □ N-BUTYLURETHANE □ 1-BUTYLURETHANE □ ETHYL-N-BUTYLCARBAMATE

TOXICITY DATA with REFERENCE:

mno-bcs 5 g/L MUREAV 42,19,77
 dnr-bcs 5 g/L MUREAV 42,19,77
 scu-rat TDLo:100 mg/kg (15-21D preg):NEO,TER GANNA2 71,811,80
 ipr-mus LD50:250 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intraperitoneal route. An experimental teratogen. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES and ESTERS.

EHA500 CAS: 628-81-9 HR: 3
ETHYL BUTYL ETHER

DOT: UN 1179

mf: C₆H₁₄O mw: 102.20

PROP: Colorless liquid. Bp: 92°, mp: -124°, flash p: 40°F, d: 0.7528 @ 20°/20°, vap d: 3.52. Insol in water; misc in alc and ether.

SYN: ETHER ETHYLBUTYLIQUE (FRENCH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,248,86
 eye-rbt 500 mg/24H MLD 85JCAE -,248,86
 skn-rbt 10 mg/24H open MLD AMIHBC 4,119,51
 eye-rbt 500 mg open AMIHBC 4,119,51
 orl-rat LD50:1870 mg/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion. A skin and eye irritant. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Keep away from heat and open flame. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

EHA550 CAS: 637-92-3 HR: 1
ETHYL tert-BUTYL ETHER

mf: C₆H₁₄O mw: 102.20

PROP: Mp: -94°, bp: 69–71°.

SYNS: tert-BUTYL ETHYL ETHER □ 1,1-DIMETHYLETHYL ETHYL ETHER □ ETHER, tert-BUTYL ETHYL □ 2-ETHOXY-2-METHYLPROPANE □ ETHYL tert-BUTYL OXIDE □ ETHYL 1,1-DIMETHYLETHYL ETHER □ PROPANE, 2-ETHOXY-2-METHYL-(9CI)

TOXICITY DATA with REFERENCE:

ihl-mus LC50:123 g/m³/15M ANESAV 11,455,50

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 5 ppm

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

EHA600 CAS: 106-35-4 HR: 3
ETHYL BUTYL KETONE

mf: C₇H₁₄O mw: 114.21

PROP: Clear mobile liquid; fatty odor. Mp: -36.7°, bp: 149–152°, flash p: 115°F (OC), d: 0.8198 @ 20°/20°, vap d: 3.93. Misc with alc, ether, water @ 149°. IDLH 1000 ppm.

SYNS: AETHYLBUTYLKETON (GERMAN) □ n-BUTYL ETHYL KETONE □ EPTAN-3-ONE (ITALIAN) □ ETHYLBUTYL-CETONE (FRENCH) □ ETHYLBUTYLKETON (DUTCH) □ ETILBUTILCHETONE (ITALIAN) □ FEMA No. 2545 □ HEPTAN-3-ON (DUTCH, GERMAN) □ HEPTAN-3-ONE □ 3-HEPTANONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 3/12/69
 skn-rbt 500 mg/24H MOD FCTXAV 16,731,78
 eye-rbt 500 mg/24H MLD 85JCAE -,286,86
 eye-rbt 100 mg MLD FCTXAV 16,731,78
 orl-rat LD50:2760 mg/kg JIHTAB 31,60,49
 ihl-rat LCLo:2000 ppm/4H JIHTAB 31,343,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 50 ppm

ACGIH TLV: TWA 50 ppm; STEL 75 ppm

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion and inhalation. A skin and eye irritant. A flammable liquid. Can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. See also KETONES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ketones II (Desorption in 99:1 CS₂:methanol) 1301.

EHC000 CAS: 4549-44-4 HR: 3

ETHYL-N-BUTYLNITROSAMINE

mf: C₆H₁₄N₂O mw: 130.22

SYNS: AETHYL-N-BUTYL-NITROSOAMIN (GERMAN) □ N-ETHYL-N-NITROSOBUTYLAMINE □ N-NITROSO-N-BUTYLETHYLAMINE □ N-NITROSOETHYL-N-BUTYLAMINE

TOXICITY DATA with REFERENCE:

mmo-sat 769 µmol/L ENMUDM 3,11,81
 dns-rat:lv 1 mmol/L ENMUDM 3,11,81
 dni-mus-ivr 20 g/kg ARGEAR 51,605,81
 orl-mus TDLo:2360 mg/kg/34W-C:CAR NATWAY 50,717,63
 orl-rat LD50:380 mg/kg NATWAY 50,100,63
 ivn-rat LD50:380 mg/kg ZEKBAI 69,103,67

SAFETY PROFILE: Poison by ingestion and intravenous 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.

EHC800 HR: 2
ETHYL N-BUTYL-N-NITROSOSUCCINAMATE

mf: C₁₀H₁₈N₂O₄ mw: 230.30

SYNS: N-BUTYL-N-NITROSOSUCCINAMIC ACID ETHYL ESTER □ EBNS □ N-NITROSO-N-(3-CARBOETHOXYPROPYONYL)BUTYLAMINE

TOXICITY DATA with REFERENCE:

scu-rat TDLo:70,500 µg/kg/10W-I:CAR GANNA2 73,687,82

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

EHC900 CAS: 68037-57-0 HR: 3
2-ETHYLBUTYL SILICATE

SYNS: POLYBIS(2-ETHYLBUTYL)SILOXANE □ SILICIC ACID, 2-ETHYLBUTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 7/10/63
 orl-rat LD50:19,700 mg/kg UCDS** 7/10/63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EHD000 CAS: 63019-12-5 HR: 2

α-ETHYL-α',sec-BUTYLSTILBENE

mf: C₂₀H₂₄ mw: 264.44

SYN: α-ETHYL-β-sec-BUTYLSTILBENE

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

EHE000 CAS: 105-54-4 HR: 3

ETHYL n-BUTYRATE

DOT: UN 1180

mf: C₆H₁₂O₂ mw: 116.18

PROP: Colorless liquid; banana-pineapple odor. D: 0.900 @ 0°/4°, refr index: 1.391, mp: -100.8°, fp: -93.3°, bp: 121.6°, flash p: 79°F. Sol in water, fixed oils, propylene glycol; misc in alc and ether; insol in glycerin @ 121°.

SYNS: BUTANOIC ACID ETHYL ESTER □ BUTYRIC ETHER □ ETHYL BUTANOATE □ ETHYL BUTYRATE (DOT,FCC) □ FEMA No. 2427

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,703,74
 orl-rat LD50:13 g/kg FCTXAV 2,327,64
 orl-rbt LD50:5228 mg/kg IMSUAI 41,31,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. Flammable liquid when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

EHE500 CAS: 110-38-3 HR: 2
ETHYL CAPRATE

mf: C₁₂H₂₄O₂ mw: 200.36

PROP: Colorless liquid; oily, brandy odor. Bp: 243°, d: 0.863, refr index: 1.424, vap d: 6.9, flash p: 212°F. Sol in fixed oils; insol in glycerin, propylene glycol @ 243°.

SYNS: CAPRIC ACID ETHYL ESTER □ DECANOIC ACID, ETHYL ESTER □ ETHYL CAPRINATE □ ETHYL DECANOATE (FCC) □ ETHYL DECYLATE □ FEMA No. 2432

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 16,733,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. Combustible liquid when exposed to heat or flame; can react with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes. See ESTERS and ETHERS.

EHF000 CAS: 123-66-0 HR: 3
ETHYL CAPROATE

mf: C₈H₁₆O₂ mw: 144.24

PROP: Colorless liquid; mild wine odor. Bp: 163°, flash p: 130°F (OC), d: 0.867-0.871, refr index: 1.406-1.409,



PROP: Colorless liquid; fruity, pungent odor. Irritant to the eyes. Bp: 143.6°, fp: -26.6°, flash p: 100°F, d: 1.159 @ 20°/4°, vap press: 10 mm @ 37.5°, vap d: 4.3. Insol in water; misc in alc and ether.

SYNS: CHLOROACETIC ACID, ETHYL ESTER □ ETHYL CHLOROACETATE □ ETHYL- α -CHLOROACETATE □ ETHYL CHLOROETHANOATE □ ETHYL MONOCHLORACETATE □ ETHYL MONOCHLOROACETATE

TOXICITY DATA with REFERENCE:

eye-rbt 250 μg /24H SEV 85JCAE -,587,86
scu-mus LD50:250 mg/kg JJPAAZ 3,99,54
skn-rbt LD50:230 mg/kg TXAPA9 42,417,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by skin contact and subcutaneous routes. A severe eye irritant. Questionable carcinogen with experimental neoplastigenic data. Flammable liquid; a dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Will react with water or steam to produce toxic and corrosive fumes. Vigorous reaction with sodium cyanide. To fight fire, use water, foam, CO₂, dry chemical. When heated to decomposition it emits highly toxic fumes of Cl⁻.

EHH000 CAS: 75-00-3 HR: 3
ETHYL CHLORIDE

DOT: UN 1037

mf: C₂H₅Cl mw: 64.52

PROP: Colorless liquid or gas which is volatile at room temp; ether-like odor, burning taste. Bp: 12.3°, lel: 3.8%, uel: 15.4%, fp: -142.5°, flash p: -58°F (CC), d: 0.917 @ 6°/6°, autoign temp: 966°F, vap press: 1000 mm @ 20°, vap d: 2.22; misc in alc and ether. Sltly sol in water. IDLH 3800 ppm [10%LEL].

SYNS: AETHYLCHLORID (GERMAN) □ AETHYLIS □ AETHYLIS CHLORIDUM □ ANODYNON □ CHELEN □ CHLOORETHAAN (DUTCH) □ CHLORETHYL □ CHLORIDUM □ CHLOROAEETHAN (GERMAN) □ CHLOROETHANE □ CHLORURE d'ETHYLE (FRENCH) □ CHLORYL □ CHLORYL ANESTHETIC □ CLOROETANO (ITALIAN) □ CLORURO DI ETILE (ITALIAN) □ ETHER CHLORATUS □ ETHER HYDROCHLORIC □ ETHER MURIATIC □ ETYLU CHLOREK (POLISH) □ HYDROCHLORIC ETHER □ KELENE □ MONOCHLORETHANE □ MURIATIC ETHER □ NARCOTILE □ NCI-C06224

TOXICITY DATA with REFERENCE:

ihl-rat LC50:160 g/m³/2H 85GMAT -,66,82
ihl-mus LC50:146 g/m³/2H 85GMAT -,66,82
ihl-gpg LCLo:40,000 ppm/45M XPHBAO 185,1,29

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Community Right-To-Know List.

OSHA PEL: TWA 1000 ppm

ACGIH TLV: TWA 1000 ppm

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Chloroethane) Handle with caution

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and neoplastigenic data. Mildly

toxic by inhalation. An irritant to skin, eyes, and mucous membranes. The liquid is harmful to the eyes and can cause some irritation. In the case of guinea pigs, the symptoms attending exposure are similar to those caused by methyl chloride, except that the signs of lung irritation are not as pronounced. It gives some warning of its presence because it is irritating, but it is possible to tolerate exposure to it until one becomes unconscious. It is the least toxic of all the chlorinated hydrocarbons. It can cause narcosis, although the effects are usually transient.

A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Severe explosion hazard when exposed to flame. Reacts with water or steam to produce toxic and corrosive fumes. Incompatible with potassium. To fight fire, use carbon dioxide. When heated to decomposition it emits toxic fumes of phosgene and Cl⁻. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

EHH100 CAS: 638-07-3 HR: 3
ETHYL 4-CHLOROACETOACETATE

mf: C₆H₉ClO₃ mw: 164.60

PROP: Light yellow liquid. D: 1.218, mp: -8°, bp: 103° @ 16 mm Hg. Flash pt: 96° C.

SYNS: ACETOACETIC ACID, 4-CHLORO-, ETHYL ESTER □ BUTANOIC ACID, 4-CHLORO-3-OXO-, ETHYL ESTER (9CI) □ ETHYL γ -CHLOROACETOACETATE □ ETHYL 4-CHLORO-3-OXOBUTANOATE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:108 mg/kg OYYAA2 33,695,87
ipr-mus LD50:88 mg/kg OYYAA2 33,695,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. A combustible liquid. When heated to decomposition it emits toxic vapors of Cl⁻.

EHH200 CAS: 687-46-7 HR: 3
ETHYL 2-CHLOROACRYLATE

mf: C₅H₇ClO₂ mw: 134.57

SYNS: ACRYLIC ACID, 2-CHLORO-, ETHYL ESTER □ 2-CHLOROACRYLIC ACID ETHYL ESTER □ ETHYL α -CHLOROACRYLATE □ 2-PROPENOIC ACID, 2-CHLORO-, ETHYL ESTER

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#02176

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of Cl⁻.

EHH500 CAS: 1331-31-3 HR: 3
ETHYLCHLOROBENZENE

mf: C₈H₉Cl mw: 140.62

PROP: Clear, colorless liquid. Mp: -62.6°, bp: 184.3°, flash p: 147°F, d: 1.05 @ 25°/25°, vap press: 1 mm @ 19.2°, vap d: 4.86.

SYN: CHLOROETHYLBENZENE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open JIHTAB 30,63,48
eye-rbt 500 mg AJOPAA 29,1363,46

TOXICITY DATA with REFERENCE:

orl-rat LD50:2600 mg/kg TXAPA9 28,313,74
 skn-rbt LD50:500 mg/kg TXAPA9 28,313,74

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. See also ALDEHYDES and ESTERS.

EHO200 CAS: 10544-63-5 HR: 3
ETHYL CROTONATE

DOT: UN 1862

mf: C₆H₁₀O₂ mw: 114.16

PROP: Bp: 142–143°, d: 0.918, flash p: 36°F.

SYNS: 2-BUTENOIC ACID, ETHYL ESTER □ CROTONIC ACID, ETHYL ESTER □ ETHYLESTER KYSELINY KROTONOVE

TOXICITY DATA with REFERENCE:

eye-rbt 20 mg/24H MOD 85JCAE -,369,86
 orl-rat LD50:3 g/kg NEZAAQ 34,183,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Slightly toxic by ingestion. Corrosive. An eye irritant and lachrymator. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

EHO500 CAS: 483-63-6 HR: 2
N-ETHYL-o-CROTONOTOLUIDINE

mf: C₁₃H₁₇NO mw: 203.31

PROP: Yellow oil. Bp: 153–155°.

SYNS: CROTONYL-N-ETHYL-o-TOLUIDINE □ N-ETHYL-o-CROTONOTOLUIDIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1500 mg/kg 29ZVAB -,35,69
 orl-mus LD50:1600 mg/kg 29ZVAB -,35,69

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

EHO700 CAS: 2884-67-5 HR: 2
2-ETHYL-trans-CROTONYLUREA

mf: C₇H₁₂N₂O₂ mw: 156.21

PROP: Crystals. Mp: 158°.

SYNS: ECTYLUREA □ trans-1-(2-ETHYLCROTONOYL)UREA □ MA-117

TOXICITY DATA with REFERENCE:

orl-rat LD50:1130 mg/kg AIPTAK 114,418,58
 ipr-rat LD50:575 mg/kg AIPTAK 114,418,58
 orl-mus LD50:1280 mg/kg FRPSAX 14,418,58
 ipr-mus LD50:990 mg/kg APSXAS 5,293,68
 orl-dog LD50:1100 mg/kg AIPTAK 114,418,58

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

EHP000 CAS: 95-04-5 HR: 2
cis-(2-ETHYLCROTONYL) UREA

mf: C₇H₁₂N₂O₂ mw: 156.21

PROP: Needles from C₆H₆; crystals from 2-propanol.

Mp: 198°. Sol in conc aq acids and alkalies; very sltly sol in org solvs.

SYNS: ACTINE □ (Z)-N-(AMINOCARBONYL)-2-ETHYL-2-BUTENAMIDE □ ASTYN □ CRONIL □ CROTURAL □ DISTESOL □ DISTESSOL □ ECTIDA □ ECTILUREA □ ECTON □ ECTYDA □ ECTYLCARBAMIDE □ ECTYLUREA □ ECTYN □ ECTYLCARBAMID □ (α-ETHYL-cis-CROTONYL)CARBAMIDE □ 2-ETHYL-cis-CROTONYLUREA □ 2-ETHYLCROTONYLUREA □ EUPLACID □ LEVANIL □ LEVIL □ MA-110 □ NASTYN □ NEOCROSEDIN □ NESTYN □ NEUROPROCIN □ NOSTAL □ NOSTIN □ PACETYN □ SEDAREX □ TRANZER □ U 8771

TOXICITY DATA with REFERENCE:

orl-rat LD50:2500 mg/kg MEIEDD 10,507,83
 ipr-rat LD50:900 mg/kg FEPA7 12,357,53
 orl-mus LD50:2500 mg/kg FRPSAX 14,845,59
 ipr-mus LD50:1780 mg/kg 27ZQAG -,425,72
 orl-dog LD50:2800 mg/kg AIPTAK 114,418,58
 ipr-dog LD50:900 mg/kg FEPA7 12,357,53
 orl-rbt LD50:1200 mg/kg 27ZQAG -,425,72
 ipr-rbt LD50:1400 mg/kg FEPA7 12,357,53
 ipr-gpg LD50:1100 mg/kg FEPA7 12,357,53

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

EHP500 CAS: 105-56-6 HR: 3
ETHYL CYANOACETATE

DOT: UN 2666

mf: C₅H₇NO₂ mw: 113.13

PROP: Colorless to pale straw-colored liquid. Mp: –22.5°, bp: 207°, flash p: 230°F, d: 1.06 @ 25°/25°, vap press: 1 mm @ 67.8°, vap d: 3.9. Insol in H₂O; sol in NH₃ aq.

SYNS: CYANOACETATE ETHYLE (GERMAN) □ CYANOACETIC ACID ETHYL ESTER □ CYANOACETIC ESTER □ ESTERE CIANOACETICO □ ETHYL CYANOACETATE □ ETHYL CYANOETHANOATE □ ETHYLESTER KYSELINY KYANOCTOVE □ MALONIC ACID ETHYL ESTER NITRILE □ USAF KF-25

TOXICITY DATA with REFERENCE:

orl-rat LDLo:400 mg/kg 85JCAE -,921,86
 ipr-mus LD50:500 mg/kg NTIS** AD277-689
 scu-rbt LDLo:1500 mg/kg AIPTAK 5,161,1899
 scu-frg LDLo:4000 mg/kg AIPTAK 5,161,1899

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

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

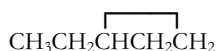
SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal and subcutaneous routes. Combustible when exposed to heat or flame; can react with oxidizing materials. Will react with water or steam to produce toxic and flammable vapors. To fight fire, use CO₂, dry chemical. When heated to decomposition or on contact with acid or acid fumes it emits highly toxic fumes of CN[–]. See also NITRILES.

EHP700 CAS: 7085-85-0 HR: 2
ETHYL CYANOACRYLATE

mf: C₆H₇NO₂ mw: 125.14

mf: C₁₁H₂₁NOS mw: 215.39**PROP:** A liquid with aromatic odor. D: 0.970, bp: 145° @ 10 mm. Sltly sol in H₂O. Misc in Me₂CO and C₆H₆.**SYNS:** CYCLOATE □ CYCLOHEXYLETHYL CARBAMOTHIOLIC ACID-S-ETHYL ESTER □ CYCLOHEXYLETHYLTHIO-CARBAMIC ACID-S-ETHYL ESTER □ S-ETHYL-N-ETHYL-N-CYCLOHEXYLTHIOLCARBAMATE □ EUREX □ HEXYL-THIOCARBAM □ R 2063 □ RO-NEET □ RONIT**TOXICITY DATA with REFERENCE:**

cyt-mus-unr 200 mg/kg TGANAK 16(1),45,82
 orl-rat LD50:1678 mg/kg FAATDF 7,299,86
 ihl-rat LC50:90 g/m³/1H 85JFAN A106,83
 skn-rat LD50:2467 mg/kg FAATDF 7,299,86
 orl-mus LD50:1275 mg/kg GISAAA 51(10),77,86
 skn-rbt LD50:3 g/kg GISAAA 50(3),26,85

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Mutation data reported. An herbicide. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also CARBAMATES.**EHT600 CAS: 2511-00-4 HR: 1****ETHYL 2-CYCLOHEXYLPROPIONATE**mf: C₁₁H₂₀O₂ mw: 184.31**SYNS:** CYCLOHEXANEACETIC ACID, α-METHYL-, ETHYL ESTER □ ETHYL α-METHYLCYCLOHEXANEACETATE □ POIRENATE**TOXICITY DATA with REFERENCE:**ihl-rat LC50:>5400 mg/m³/4H NTIS** OTS0573820**SAFETY PROFILE:** Low toxicity by inhalation. When heated to decomposition it emits acrid smoke and irritating vapors.**EHU000 CAS: 1640-89-7 HR: 3****ETHYL CYCLOPENTANE**mf: C₇H₁₄ mw: 98.16**PROP:** A liquid. Autoign temp: 504°F, lel: 1.1%, uel: 6.7%, bp: 103–104°, mp: –137.9, d: 0.8, vap d: 3.4, flash p: <69.8°F.**SAFETY PROFILE:** Probably an asphyxiant. See ARGON for a description of simple asphyxiants. A very dangerous fire and explosion hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Easily forms explosive mixtures in air. To fight fire, use foam, dry chemical, mist. When heated to decomposition it emits acrid smoke and fumes.**EHU500 CAS: 1191-96-4 HR: 3****ETHYL CYCLOPROPANE**mf: C₅H₁₀ mw: 70.14**PROP:** A volatile liquid. Fp: –149.6°, bp: 36.2°, flash p: <50°F.**SAFETY PROFILE:** A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizers. When heated to decomposition it emits acrid smoke and fumes.**EHU550 CAS: 95266-40-3 HR: 1****ETHYL 4-(CYCLOPROPYLHYDROXYMETHYLENE)-3,5-DIOXOCYCLOHEXANECARBOXYLATE**mf: C₁₃H₁₆O₅ mw: 252.29**SYN:** CYCLOHEXANECARBOXYLIC ACID, 4-(CYCLOPROPYL-HYDROXYMETHYLENE)-3,5-DIOXO-, ETHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4460 mg/kg PEMNDP 9,351,91
 skn-rat LD50:>4 g/kg PEMNDP 9,351,91

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.**EHU600 CAS: 868-59-7 HR: 2****ETHYL CYSTEINE HYDROCHLORIDE**mf: C₅H₁₁NO₂S•ClH mw: 185.69**SYNS:** CYSTEINE ETHYL ESTER HYDROCHLORIDE □ ETHYL ESTER-1-CYSTEINE HYDROCHLORIDE (9CI)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:5 g/kg NIIRDN 6,113,82
 scu-rat LD50:2120 mg/kg NIIRDN 6,113,82
 ivn-rat LD50:725 mg/kg NIIRDN 6,113,82
 orl-mus LD50:3470 mg/kg NIIRDN 6,113,82
 ipr-mus LD50:854 mg/kg CPBTAL 20,721,72
 scu-mus LD50:1550 mg/kg NIIRDN 6,113,82
 ivn-mus LD50:688 mg/kg NIIRDN 6,113,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion, intraperitoneal, intravenous, and subcutaneous routes. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl. See also L-CYSTEINE and ESTERS.**EHV000 CAS: 26747-87-5 HR: 3****ETHYL DECABORANE**mf: C₂H₁₈B₁₀ mw: 150.30**TOXICITY DATA with REFERENCE:**

ihl-rat LC50:23 ppm/4H NTIS** AD224-006
 ihl-mus LC50:6.5 ppm/4H NTIS** AD224-006
 ihl-dog LCLo:14 ppm/3H NTIS** AD224-006

SAFETY PROFILE: Poison by inhalation. See also BORON COMPOUNDS and BORANES.**EHV100 CAS: 3025-30-7 HR: 1****ETHYL (2E,4Z)-DECADIENOATE**mf: C₁₂H₂₀O₂ mw: 196.32**SYNS:** 2,4-DECADIENOIC ACID, ETHYL ESTER, (E,Z)- □ ETHYL (E,Z)-2,4-DECADIENOATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FCTOD7 26,317,88
 skn-rbt LD50:>5 g/kg FCTOD7 26,317,88

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.**EHV200 CAS: 15176-29-1 HR: D****5-ETHYL-2'-DEOXYURIDINE**mf: C₁₁H₁₆N₂O₅ mw: 256.29**SYNS:** AEDURID □ β-5-ETHYLDEOXYURIDINE □ 5-ETHYLDEOXYURIDINE □ EDOXUDINE □ EDU □ 2'-DEOXY-

orl-rat LDLo:>250 mg/kg NCNSA6 5,37,1953

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EID000 CAS: 389-08-2 HR: 3
1-ETHYL-1,4-DIHYDRO-7-METHYL-4-OXO-1,8-NAPHTHYRIDINE-3-CARBOXYLIC ACID

mf: C₁₂H₁₂N₂O₃ mw: 232.26

PROP: Pale buff crystals. Mp: 229–230°. Sol in CHCl₃; mod sol in EtOH and MeOH.

SYNS: ACIDE 1-ETIL-7-METIL-1,8-NAFTIRIDIN-4-ONE-3-CARBOSSILICO (ITALIAN) □ ACIDE NALIDIXICO (ITALIAN) □ ACIDE NALIDIXIQUE (FRENCH) □ BETAXINA □ 3-CARBOXY-1-ETHYL-7-METHYL-1,8-NAPHTHIDIN-4-ONE □ CHINOIN □ CYBIS □ 1,4-DIHYDRO-1-ETHYL-7-METHYL-4-OXO-1,8-NAPHTHYRIDINE-3-CARBOXYLIC ACID □ DIXIBEN □ 1-ETHYL-7-METHYL-1,4-DIHYDRO-1,8-NAPHTHYRIDINE-4-ONE-3-CARBOXYLIC ACID □ 1-ETHYL-7-METHYL-1,4-DIHYDRO-1,8-NAPHTHYRIDIN-4-ONE-3-CARBOXYLIC ACID □ 1-ETHYL-7-METHYL-4-OXO-1,4-DIHYDRO-1,8-NAPHTHYRIDINE-3-CARBOXYLIC ACID □ EUCISTEN □ INNOXALON □ KUSNARIN □ NA □ NALIDIC ACID □ NALIDICRON □ NALIDIXIC ACID □ NALIDIXIN □ NALITUCSAN □ NARIGIX □ NCI-C56199 □ NEGRAM □ NEVIGRAMON □ NICELATE □ NOGRAM □ NSC-82174 □ POLEON □ SPECIFEN □ URALGIN □ URIBEN □ URODIXIN □ UROMAN □ URONEG □ WIN 18,320 □ WINTOMYLON

TOXICITY DATA with REFERENCE:

mno-bcs 100 mg/L MUREAV 95,191,82
 dns-ssp 100 mg/L MGGEAE 187,96,82
 sce-chd-unr 50 mg/kg/10D MUREAV 77,371,80
 dnr-ham:oth 500 mg/L CRNGDP 5,187,84
 orl-rat TDLo:3300 mg/kg (female 7-17D post):REP NKRZAZ 28,484,80
 orl-rat TDLo:173 g/kg/2Y-C:CAR NTPTR* NTP-TR-368,89
 orl-wmn TDLo:160 mg/kg/2D:CNS,END,SKN BMJOAE 2,1518,77
 unr-chd TDLo:1200 mg/kg/20D:BLD 34ZIAG -,414,69
 orl-rat LD50:1160 mg/kg NIIRDN 6,540,82
 ipr-rat LD50:319 mg/kg AACHAX -,117,70
 scu-rat LD50:1584 mg/kg AACHAX -,117,70
 ivn-rat LD50:88,400 µg/kg AACHAX -,117,70
 orl-mus LD50:572 mg/kg TXAPA9 18,185,71
 ipr-mus LD50:871 mg/kg AACHAX -,117,70
 scu-mus LD50:500 mg/kg TXAPA9 18,185,71
 ivn-mus LD50:101 mg/kg AACHAX -,117,70

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and subcutaneous routes. An experimental teratogen. Human systemic effects: convulsions, hyperglycemia, sweating, and blood changes in children. Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Human mutation data reported. Used as an antibacterial agent and urinary tract antiseptic. When heated to decomposition it emits toxic fumes of NO_x.

EID100

HR: 3

ETHYL-3,4-DIHYDROXYBENZENE SULFONATE

mf: C₈H₁₀O₅S mw: 218.22

(OH)₂C₆H₃SO₂OCH₂CH₃

SAFETY PROFILE: Reacts explosively when mixed with acetyl nitrate and oleum. When heated to decomposition it emits toxic fumes of SO_x. See also SULFONATES.

EID150 CAS: 3328-84-5 HR: 3
20-ETHYL-6-β,8-DIHYDROXY-1-α-METHOXY-4-METHYLHETERATISAN-14-ONE

mf: C₂₂H₃₃NO₅ mw: 391.56

SYNS: HETERATISAN-14-ONE, 6,8-DIHYDROXY-20-ETHYL-1-METHOXY-4-METHYL-, (1-α,6-β)- □ HETERATISINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:254 mg/kg CTYAD8 15,180,1984
 ivn-mus LD50:147 mg/kg EJPHAZ 337,165,1997

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

EID200 CAS: 68-90-6 HR: 3
2-ETHYL-3-(3',5'-DIIDO-4'-HYDROXYBENZOYL)-CUMARONE

mf: C₁₇H₁₂I₂O₃ mw: 518.09

SYNS: AETHYL-2-(3',5'-DIJOD-4'-OXYBENZOYL)-3 CUMARON □ ALGOCOR □ AMPLIVIX □ BENZIODARON □ BENZIODARONE □ BENZOFURAN, 3-(3,5-DIIDO-4-HYDROXYBENZOYL)-2-ETHYL- □ CARDIVIX □ CAROFAM □ CORONAL-CRINOS □ 3,5-DIIDO-4-HYDROXYPHENYL 2-ETHYL-3-BENZOFURANYL KETONE □ DILAFURANE □ DILA-VASAL □ KETONE, 3,5-DIIDO-4-HYDROXYPHENYL 2-ETHYL-3-BENZOFURANYL □ L 2329 □ 2329 LABAZ □ RETRANGOR

TOXICITY DATA with REFERENCE:

orl-mus LD50:450 mg/kg YKYUA6 24,431,73
 ipr-mus LD50:130 mg/kg YKYUA6 24,431,73
 ivn-dog LDLo:10 mg/kg ARZNAD 15,1388,65

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. A flammable liquid. When heated to decomposition it emits toxic vapors of I⁻.

EID250 CAS: 4568-83-6 HR: 3
ETHYL-2-(DIIDO-3,5 HYDROXY-4 BENZOYL)5-FURANNE

mf: C₁₃H₁₀I₂O₃ mw: 468.03

SYNS: DB 138 □ 3,5-DIIDO-4-HYDROXYPHENYL 5-ETHYL-2-FURYL KETONE □ KETONE, 3,5-DIIDO-4-HYDROXY-PHENYL 5-ETHYL-2-FURYL

TOXICITY DATA with REFERENCE:

ipr-mus LD50:275 mg/kg AIPTAK 147,497,64
 ivn-gpg LDLo:161 mg/kg AIPTAK 147,497,64

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic vapors of NO_x and I⁻.

EID500 CAS: 2008-41-5 HR: 2
S-ETHYL N,N-DISOBUTYLTHIOCARBAMATE

mf: C₁₁H₂₃NOS mw: 217.41

PROP: A liquid. D: 0.942, bp: 138° @ 21 mm.

SYNS: BIS(2-METHYLPROPYL)CARBAMOTHIOIC ACID-S-ETHYL ESTER □ BUTYLATE □ BUTYLATE □ DIISOBUTYLTHIOCARBAMIC ACID-S-ETHYL ESTER □ DIISOCARB □ S-ETHYL BIS(2-METHYLPROPYL)CARBAMO-THIOATE □ ETHYL-N,N-DIISOBUTYLTHIOCARBAMATE □ S-ETHYLDIISOBUTYLTHIOCARBAMATE □ ETHYL-N,N-DIISOBUTYL THIOL-CARBAMATE □ R-1910 □ STAUFFER R-1910 □ SUTAN

TOXICITY DATA with REFERENCE:

cyt-mus-ori 1 g/kg CYGEDX 14(6),38,80
ori-rat LD50:4000 mg/kg WRPCA 2,119,70
ipr-mus LD50:365 mg/kg JAFCAU 25,404,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal route. Mutation data reported. Used as an herbicide. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also CARBAMATES and ESTERS.

EID600 CAS: 82499-00-1 HR: D
4-ETHYL-6,7-DIMETHOXY-9H-PYRIDO(3,4-B)INDOLE-3-CARBOXYLIC ACID, METHYL ESTER

mf: C₁₇H₁₈N₂O₄ mw: 314.37

SYNS: DMCM □ METHYL 6,7-DIMETHOXY-4-ETHYL-β-CARBOLINE-3-CARBOXYLATE □ METHYL 4-ETHYL-6,7-DIMETHOXY-9H-PYRIDO(3,4-B)INDOLE-3-CARBOXYLATE □ 9H-PYRIDO(3,4-B)INDOLE-3-CARBOXYLIC ACID,4-ETHYL-6,7-DIMETHOXY-, METHYL ESTER

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

EIF000 CAS: 77-81-6 HR: 3
ETHYL DIMETHYLAMIDOCYANOPHOSPHATE

mf: C₅H₁₁N₂O₂P mw: 162.15

PROP: A colorless to brownish liquid. Bp: decomp @ 238°, fp: -49.4°, flash p: 172°F, d: 1.073 @ 25°, vap press: 0.07 mm @ 25°, vap d: 5.63.

SYNS: DIMETHYLAMIDOETHOXYPHOSPHORYL CYANIDE □ DIMETHYLAMINOCYANPHOSPHORSAEUREAETHYLESTER (GERMAN) □ DIMETHYLPHOSPHORAMIDOCYANIDIC ACID, ETHYL ESTER □ ETHYL N,N-DIMETHYLAMINO CYANOPHOSPHATE □ ETHYL DIMETHYLPHOSPHORAMIDOCYANIDATE □ ETHYL-N,N-DIMETHYLPHOSPHORAMIDOCYANIDATE □ GA □ GELAN I □ Le-100 □ MCE □ T-2104 □ TABOON A □ TABUN □ TL 1578 □ TRILON 83

TOXICITY DATA with REFERENCE:

ihl-hmn LCLo:150 mg/m³ SCJUAD 4,33,67
skn-hmn LDLo:23 mg/kg SCJUAD 4,33,67
ivn-hmn LDLo:14 µg/kg SCJUAD 4,33,67
ori-rat LD50:3700 µg/kg NTIS** PB158-508
ihl-rat LC50:304 mg/m³/10M NTIS** PB158-508
skn-rat LDLo:18 mg/kg NTIS** PB158-508
scu-rat LD50:193 µg/kg AIPTAK 262,231,83
ivn-rbt LD50:66 µg/kg NTIS** PB158-508
ims-rat LD50:800 µg/kg JCINAO 37,350,58
ihl-mus LC50:15 mg/m³/30M DEGEA3 15,2179,60
skn-mus LD50:1 mg/kg NTIS** PB158-508
ipr-mus LD50:604 µg/kg 11FYAN 3,69,63
ori-dog LD50:200 µg/kg DEGEA3 15,2179,60

ihl-dog LC50:400 mg/m³/10M NTIS** PB158-508
skn-dog LDLo:30 mg/kg NTIS** PB158-508
ihl-mky LC50:250 mg/m³/10M NTIS** PB158-508
skn-mky LD50:9300 µg/kg NTIS** PB158-508

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

SAFETY PROFILE: Human poison by inhalation, skin contact, and intravenous routes. Experimental poison by ingestion, inhalation, skin contact, subcutaneous, intravenous, intraperitoneal, and intramuscular routes. A nerve gas. Vapor does not penetrate skin; liquid does so rapidly. The primary physiological action is on the sympathetic nervous system, causing a vasoparesis (partial paralysis of the vasomotor nerves, which control the diameter of the blood vessels). Vapors when inhaled can cause nausea, vomiting, and diarrhea, which can be followed by muscular twitching and convulsions. Flammable when exposed to heat or flame; can react with oxidizing materials. When heated to decomposition it emits very toxic fumes of PO_x, CN⁻, and NO_x. See also PARATHION and CYANIDE.

EIF100 CAS: 1117-37-9 HR: 1
ETHYL trans-3-DIMETHYLAMINOACRYLATE

mf: C₇H₁₃NO₂ mw: 143.21

SYN: ACRYLIC ACID, 3-(DIMETHYLAMINO)-, ETHYL ESTER, (E)-

TOXICITY DATA with REFERENCE:

ori-rat LD50:4500 mg/kg ATDAEI 15(Suppl 1),S99,1996

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

EIF450 CAS: 93023-34-8 HR: 2
2'-ETHYL-4-DIMETHYLAMINOAZOBENZENE

mf: C₁₆H₁₉N₃ mw: 253.38

SYNS: ANILINE, p-((o-ETHYLPHENYL)AZO)-N,N-DIMETHYL- □ BENZENAMINE, N,N-DIMETHYL-2'-ETHYL-4-(PHENYL-AZO)- □ BENZENAMINE, 4-((2-ETHYLPHENYL)AZO)-N,N-DIMETHYL- □ N,N-DIMETHYL-p-((o-ETHYLPHENYL)AZO)-ANILINE

TOXICITY DATA with REFERENCE:

ori-rat TDLo:13,541 mg/kg/52W C:CAR CBINA8 53,107,85

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

EIF500 CAS: 20820-80-8 HR: 3
O-ETHYL-S-(2-DIMETHYLAMINOETHYL)-METHYLPHOSPHONOTHIOATE

mf: C₇H₁₈NO₂PS mw: 211.29

SYN: O-AETHYL-S-(2-DIMETHYLAMINOETHYL)-METHYLPHOSPHONOTHIOATE (GERMAN)

TOXICITY DATA with REFERENCE:

ori-rat LD50:122 µg/kg ABMGJ 37,633,78
ipr-rat LD50:54 µg/kg ABMGJ 37,633,78
ivn-rat LD50:17 µg/kg ABMGJ 37,633,78
ims-rat LD50:24 µg/kg ABMGJ 37,633,78

SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, and intramuscular routes.

mf: C₈H₁₂N₂ mw: 136.20**PROP:** Colorless to sltly yellow liquid; roasted-cocoa odor. D: 0.950–0.980, refr index: 1.500, flash p: 154°F. Sol in water, org solvs.**SYN:** FEMA No. 3149**SAFETY PROFILE:** Combustible liquid. When heated to decomposition it emits toxic fumes of NO_x.**EIL200 CAS: 1500-91-0 HR: 3
4-ETHYL-3,5-DIMETHYLPYRROL-2-YL METHYL
KETONE**mf: C₁₀H₁₅NO mw: 165.26**SYNS:** 2-ACETYL-3,5-DIMETHYL-4-ETHYL-PYRROLE □ KETONE, 4-ETHYL-3,5-DIMETHYLPYRROL-2-YL METHYL**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:400 mg/kg JMCAR 11,1251,68

ipr-mus LD50:767 mg/kg JMCAR 11,1251,68

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.**EIL500 CAS: 19481-40-4 HR: 3
ETHYLDIMETHYL SULFONIUM IODIDE
MERCURIC IODIDE ADDITION COMPOUND****PROP:** IDLH 10 mg/m³ (as Hg).**SYN:** DIMETHYLETHYL SULFONIUM IODIDE with MERCURY IODIDE (1:1)**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#01852

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 route. When heated to decomposition it emits very toxic fumes of SO_x, I₂, and Hg. See also MERCURY COMPOUNDS, and IODIDES.**EIL600 CAS: 59897-92-6 HR: 2
ETHYL 3,3-DIMETHYL-4,6,6-TRICHLORO-5-
HEXENOATE**mf: C₁₀H₁₅Cl₃O₂ mw: 273.60**SYN:** 5-HEXENOIC ACID, 3,3-DIMETHYL-4,6,6-TRICHLORO-, ETHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:3166 mg/kg GISAAA 55(7),93,90

orl-mus LD50:3200 mg/kg GISAAA 55(7),93,90

orl-gpg LD50:3600 mg/kg GISAAA 55(7),93,90

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Cl₂.**EIM000 CAS: 17109-49-8 HR: 3
O-ETHYL-S,S-DIPHENYL DITHIOPHOSPHATE**mf: C₁₄H₁₅O₂PS₂ mw: 310.38**PROP:** A clear yellow to light brown liquid. D: 1.23, bp: 154° @ 0.01 mm. Prac insol in water.**SYNS:** O-AETHYL-S,S-DIPHENYL-DITHIOPHOSPHAT (GERMAN) □ BAYER 78418 □ DITHIOPHOSPHORSAURE-O-AETHYL-S,S-DIPHENYLESTER (GERMAN) □ EDDP □

EDIFENPHOS □ EDIPHENPHOS □ O-ETHYL-S,S-DIPHENYL PHOSPHORODITHIOATE □ HINOSAN □ LUTROL □ SRA 7847

TOXICITY DATA with REFERENCE:

cyt-rat-ipr 3 mg/kg MUREAV 321,103,94

cyt-mus-ipr 30 mg/kg CYTOAN 49,833,84

orl-rat LD50:100 mg/kg OYYAA2 2,76,68

ihl-rat LC50:650 mg/m³/4H JPIFAN (17),25,73

ipr-rat LD50:26 mg/kg TXAPA9 23,519,72

orl-mus LD50:143 mg/kg TOIZAG 25,635,78

orl-rbt LD50:350 mg/kg 28ZEAL 5,91,76

orl-gpg LD50:350 mg/kg 28ZEAL 5,91,76

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mutation data reported. A cholinesterase inhibitor. When heated to decomposition it emits very toxic fumes of SO_x and PO_x. See also PARATHION.**EIM100 CAS: 77405-29-9 HR: 3
ETHYLDIPHENYLTIN ACETATE**mf: C₁₆H₁₈O₂Sn mw: 361.03**SYNS:** ACETOXYDIPHENYLETHYLSTANNANE □

STANNANE, ACETOXYDIPHENYLETHYL- □ STANNANE, (ACETYLOXY)ETHYLDIPHENYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:316 mg/kg PHARAT 37,801,1982

ACGIH TLV: TWA 0.1 mg(Sn)/m³. STEL 0.2 mg/m³ (skin). Not classifiable as a human carcinogen**SAFETY PROFILE:** A poison by ingestion. When heated to decomposition it emits toxic vapors of Sn.**EIN000 CAS: 13194-48-4 HR: 3
O-ETHYL-S,S-DIPROPYLPHOSPHORODI-
THIOATE**mf: C₈H₁₉O₂PS₂ mw: 242.36**PROP:** A yellow liquid. D: 1.094 @ 20°/4°, bp: 86–91° @ 0.2 mm. Sltly sol in H₂O; very sol in most org solvs.**SYNS:** ENT 27,318 □ ETHOPROP □ ETHOPROPHOS □ O-ETHYL-S,S-DIPROPYL ESTER, PHOSPHORODITHIOIC ACID □ JOLT □ MOBIL V-C 9-104 □ MOCAP □ PROPHOS □ V-C CHEMICAL V-C 9-104 □ VIRGINIA CAROLINA VC 9-104**TOXICITY DATA with REFERENCE:**

orl-rat LD50:34 mg/kg ARSIM* 20,26,66

skn-rat LD50:60 mg/kg WRPCA2 9,119,70

orl-rbt LD50:55 mg/kg PEMNDP 9,349,91

skn-rbt LD50:26 mg/kg SPEADM 78-1,30,78

orl-pgn LD50:13,300 µg/kg ASTTA8 (680),157,79

orl-ckn LD50:5500 µg/kg TXAPA9 11,49,67

orl-qal LD50:7500 µg/kg ASTTA8 (680),157,79

orl-dck LD50:1260 µg/kg TXAPA9 47,451,79

skn-dck LD50:11 mg/kg TXAPA9 47,451,79

orl-bwd LD50:4210 µg/kg ASTTA8 (680),157,79

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.**SAFETY PROFILE:** Poison by ingestion and skin contact. A cholinesterase inhibitor type of insecticide. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also PARATHION.**EIN500 CAS: 759-94-4 HR: 3
S-ETHYL-N,N-DI-N-PROPYLTHIOCARBAMATE**mf: C₉H₁₉NOS mw: 189.35

PROP: A liquid. D: 0.955 @ 30°, bp: 127° @ 20 mm. Sltly sol in H₂O.

SYNS: S-AETHYL-N,N-DIPROPYLTHIOLCARBAMAT (GERMAN) □ DIPROPYL CARBAMOTHIOIC ACID-S-ETHYL ESTER □ N,N-DIPROPYLTHIOCARBAMIC ACID-S-ETHYL ESTER □ EPTAM □ EPTC □ S-ETHYL-N,N-DIPROPYLTHIOCARBAMATE □ ETHYL DI-N-PROPYLTHIOLCARBAMATE □ ETHYL-N,N-DIPROPYLTHIOLCARBAMATE □ ETHYL-N,N-DI-N-PROPYLTHIOLCARBAMATE □ FDA 1541 □ GENEP EPTC □ R-1608 □ STAUFFER R 1608 □ TORBIN

TOXICITY DATA with REFERENCE:

mno-esc 5 mg/L GNKAA5 22,2416,86
ihl-hmn TCLo:135 mg/m³/90M HYSAAV 36(1-3),196,71
orl-rat LD50:916 mg/kg NTIS** PB82-913299
ihl-rat LCLo:200 mg/m³/4H HYSAAV 36(1-3),196,71
skn-rat LD50:3200 mg/kg GISAAA 36(2),29,71
orl-mus LD50:750 mg/kg HYSAAV 36(1-3),196,71
ivn-mus LD50:320 mg/kg CSLNX* NX#03907
orl-cat LD50:112 mg/kg HYSAAV 36(1-3),196,71
ihl-cat LCLo:400 mg/m³/4H HYSAAV 36(1-3),196,71
skn-rbt LD50:1460 mg/kg WRPCA2 9,119,70
orl-bwd LD50:100 mg/kg TXAPA9 21,315,72

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

SAFETY PROFILE: Poison by ingestion, inhalation, and intravenous routes. Moderately toxic by skin contact route. Mutation data reported. An herbicide. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also CARBAMATES.

EIN550 CAS: 628-39-7 HR: 3

ETHYL DISELENIDE

mf: C₄H₁₀Se₂ mw: 216.06

SYNS: DIETHYL DISELENIDE □ DISELENIDE, DIETHYL

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL/24H MOD NTIS** OTS0555235
orl-rat LD50:90 mg/kg NTIS** OTS0555235
ihl-rat LCLo:2200 mg/m³/45M NTIS** OTS0555235
skn-rbt LCLo:8600 µg/kg NTIS** OTS0555235

SAFETY PROFILE: A poison by ingestion and skin contact. Low toxicity by inhalation. A moderate eye irritant. When heated to decomposition it emits toxic vapors of Se.

EIO000 CAS: 74-85-1 HR: 3

ETHYLENE

DOT: UN 1038/UN 1962

mf: C₂H₄ mw: 28.06

PROP: Colorless gas; odorless and tasteless. Bp: -103.9°, mp: -169.4°, lel: 2.7%, uel: 36%, d: 0.610 @ 0°, autoign temp: 914°F, vap d: 0.98, fp: -181°. Sltly sol in H₂O; very sol in EtOH, Et₂O; sol in Me₂CO and C₆H₆.

SYNS: ACETENE □ ATHYLEN (GERMAN) □ BICARBURETTED HYDROGEN □ ELAYL □ ETHENE □ ETHYLENE, compressed (DOT) □ ETHYLENE, refrigerated liquid (DOT) □ LIQUID ETHYLENE □ OLEFIANT GAS

TOXICITY DATA with REFERENCE:

ihl-mam LCLo:950,000 ppm/5M AEPPAE 138,65,28

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Community Right-To-Know List.

ACGIH TLV: Simple asphyxiant; Not Classifiable as a Human Carcinogen; (Proposed: 100 ppm; Not Classifiable as a Human Carcinogen)

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: Suspected carcinogen. A simple asphyxiant. High concentrations cause anesthesia. A common air contaminant. It is phytotoxic. A very dangerous fire hazard when exposed to heat or flame. Moderate explosion hazard when exposed to flame. A flammable gas. To fight fire, stop flow of gas, use CO₂, dry chemical, or fine water spray. Mixtures with aluminum chloride explode in the presence of nickel catalysts, methyl chloride, or nitromethane. Explosive reaction with bromotrichloromethane (at 120°C/51 bar), carbon tetrachloride (25–100°C/30 bar). Explosive reaction with chlorine catalyzed by sunlight or UV light or in the presence of mercury(I) oxide, mercury(II) oxide, or silver oxide. Mixtures with chlorotrifluoroethylene polymerize explosively when exposed to 50 kV gamma rays at 308 krad/hr. Has been involved in industrial accidents. Violent polymerization is catalyzed by copper above 400°C/54 bar. Incompatible with AlCl₃, (CCl₄ + benzoyl peroxide), (bromotrichloromethane + AlCl₃), O₃, CCl₄, Cl₂, NO_x, tetrafluoroethylene trifluorohydrofluorite. When heated to decomposition it emits acrid smoke and irritating fumes.

EIO500 CAS: 126-39-6 HR: 2

ETHYLENEACETIC ACID

mf: C₆H₁₂O₂ mw: 116.18

PROP: Bp: 117°.

SYNS: CYCLIC ETHYLENE ACETAL-2-BUTANONE □ 2-ETHYL-2-METHYL-1,3-DIOXOLANE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,797,86
eye-rbt 500 mg/24H MLD 85JCAE -,797,86
orl-rat LDLo:2830 mg/kg AIHAAP 23,95,62
ihl-rat LCLo:4000 ppm/4H AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EIP000 CAS: 2274-11-5 HR: 3

ETHYLENE ACRYLATE

mf: C₈H₁₀O₄ mw: 170.18

PROP: Colorless liquid with a penetrating acrid odor. Sol in ethanol, ether and chloroform. Slightly sol in water.

SYNS: ACRYLIC ACID, ETHYLENE ESTER □ ACRYLIC ACID, ETHYLENE GLYCOL DIESTER □ ETHYLDIOL ACRYLATE (RUSSIAN) □ ETHYLENE DIACRYLATE □ ETHYLENE GLYCOL DIACRYLATE □ 2-PROPENOIC ACID-1,2-ETHANEDIYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,372,86
eye-rbt 750 µg/24H SEV 85JCAE -,372,86
msc-mus:lym 16,500 nmol/L EMMUEG 17,264,91
orl-rat LD50:300 mg/kg GTPZAB 24(4),58,80
orl-mus LD50:300 mg/kg GTPZAB 24(4),58,80
ihl-mus LC50:350 mg/kg GTPZAB 24(4),58,80

skn-rbt LD50:570 mg/kg TXAPA9 28,313,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion and inhalation. Moderately toxic by skin contact. A skin and severe eye irritant. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

**EIP050 CAS: 4471-27-6 HR: 1
ETHYLENE AZELATE**

mf: $C_{11}H_{18}O_4$ mw: 214.29

SYNS: AZELAIC ACID, CYCLIC ETHYLENE ESTER □ 1,4-DIOXACYCLOTRIDECANE-5,13-DIONE □ OR 66780

TOXICITY DATA with REFERENCE:

skn-rbt 500 μ L/24H MLD NTIS** OTS0546127

eye-rbt 100 μ L/24H MLD NTIS** OTS0546127

orl-rat LD50:9200 mg/kg NTIS** OTS0546127

skn-rbt LDLo:>7940 mg/kg NTIS** OTS0546127

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

**EIP100 CAS: 4128-83-0 HR: 3
ETHYLENE 1-AZIRIDINEPROPIONATE**

mf: $C_{12}H_{20}N_2O_4$ mw: 256.34

SYNS: 1-AZIRIDINEPROPANOIC ACID, ETHYLENE ESTER □

1-AZIRIDINEPROPIONIC ACID, ETHYLENE ESTER □ ETHANEDIOL, BIS(1-AZIRIDINEPROPIONATE)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#08204

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

**EIP500 CAS: 60784-41-0 HR: 3
1,1'-ETHYLENEBIS(3-(2-CHLOROETHYL)-3-NITROSOUREA)**

mf: $C_8H_{14}Cl_2N_6O_4$ mw: 329.18

SYN: 1,1'-ETHYLENEBIS-CNU

TOXICITY DATA with REFERENCE:

sln-dmg-orl 100 μ mol/L/24H MUREAV 57,297,78

mrc-smc 500 μ mol/L/16H MUREAV 42,45,77

ipr-rat LDLo:29 mg/kg JNCIAM 60,345,78

SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. 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.

**EIQ000 CAS: 124-05-0 HR: 2
ETHYLENE BIS(CHLOROFORMATE)**

mf: $C_4H_4Cl_2O_4$ mw: 186.98

SYNS: 1,2-BIS((CHLOROCARBONYL)OXY)ETHANE □ CARBONCHLORIDE ACID, 1,2-ETHANEDIYL ESTER □ ETHYLENE CHLOROFORMATE □ ETHYLENE GLYCOL DI(CHLOROFORMATE) □ ETHYLENE GLYCOL, BISCHLOROFORMATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1100 mg/kg 37ASAA 4,758,78

ihl-mus LD50:5659 ppm/1H 37ASAA 4,758,78

skn-mus LD50:2000 mg/kg 37ASAA 4,758,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: Poison, Corrosive

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Mildly toxic by inhalation. When heated to decomposition it emits toxic fumes of Cl^- .

**EIQ200 CAS: 4431-24-7 HR: 3
ETHYLENEBIS(DIPHENYLARSINE)**

mf: $C_{26}H_{24}As_2$ mw: 486.34

PROP: Colorless crystals from MeOH or EtOH. Mp: 100–103°.

SYN: ARSINE, ETHYLENEBIS(DIPHENYL)-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#04858

OSHA PEL: TWA 0.5 mg(As)/ m^3

SAFETY PROFILE: Poison by intravenous route. An irritant. When heated to decomposition it emits toxic fumes of As.

**EIQ500 HR: D
ETHYLENEBIS(DITHIOCARBAMATO)MANGANESE and ZINC ACETATE (50:1)**

SYNS: MANEB plus ZINC ACETATE (50:1) □ ZINC ACETATE plus MANEB (1:50)

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

SAFETY PROFILE: An experimental teratogen. When heated to decomposition it emits very toxic fumes of NO_x , ZnO , and SO_x . See also ZINC COMPOUNDS, MANGANESE COMPOUNDS, and CARBAMATES.

**EIR000 CAS: 12122-67-7 HR: 2
ETHYLENE BIS(DITHIOCARBAMATO)ZINC**

mf: $C_4H_6N_2S_4 \cdot Zn$ mw: 275.73

PROP: Moisture and light unstable pale yellow powder or crystals from $CHCl_3$ /EtOH. Sol in CS_2 and Py; very sltly sol in H_2O .

SYNS: ASPOR □ ASPORUM □ BERCEMA □ BLIGHTOX □ BLITEX □ BLIZENE □ CARBADINE □ CHEM ZINEB □ CINEB □ CRITTOX □ CYNKOTOX □ DAISEN □ DIPHER □ DITHANE Z □ DITIAMINA □ ENT 14,874 □ (1,2-ETHANEDIYLBIS-(CARBAMODITHIOATO)) (2^-) ZINC □ 1,2-ETHANEDIYLBIS-(CARBAMODITHIOATO) (2^-) -S,S'-ZINC □ 1,2-ETHANEDIYLBIS-CARBAMODITHIOIC ACID, ZINC COMPLEX □ 1,2-ETHANEDIYLBISCARBAMOTHIOIC ACID, ZINC SALT □ ETHYLENEBIS(DITHIOCARBAMIC ACID), ZINC SALT □ ETHYL ZIMATE □ HEXATHANE □ KUPRATSIN □ KYPZIN □ LIROTAN □ LONACOL □ MICEID □ MILTOX □ MILTOX SPECIAL □ NOVIZIR □ NOVOSIR N □ PAMOSOL 2 FORTE □ PARZATE □ PEROSIN □ POLYRAM Z □ SPERLOX-Z □ THIODOW □ TIEZENE □ TRITOFTOROL □ TSINEB (RUSSIAN) □ Z-78 □ ZEBENIDE □ ZEBTOX □ ZIDAN □ ZIMATE □ ZINC ETHYLENEBISDITHIOCARBAMATE □ ZINC ETHYLENE-1,2-BISDITHIOCARBAMATE □ ZINEB □ ZINK-(N,N'-AETHYLENBIS(DITHIOCARBAMAT)) (GERMAN) □ ZINOSAN

TOXICITY DATA with REFERENCE:

mno-bcs 1 nmol/plate MSERDS 5,93,81

sce-hmn:lym 10 mg/L GESKAC 12,118,79

ipr-mus TDLo:1760 mg/kg (11-21D preg):ETA,TER
VPITAR 30,49,71

orl-hmn LDLo:5 g/kg 85JFAN A420,84

orl-rat LD50:1850 mg/kg GISAAA 31(10),25,66

ihl-rat LCLo:800 mg/m³/4H 85GMAT -,121,82

orl-mus LD50:7600 mg/kg JTEHD6 4,93,78

CONSENSUS REPORTS: IARC Cancer Review:
Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence
IMEMDT 12,245,76. Community Right-To-Know List.
EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion.
Experimental teratogenic and reproductive effects.
Questionable carcinogen with experimental carcinogenic
and tumorigenic data. Human mutation data reported.
Used as a fungicide. When heated to decomposition it
emits very toxic fumes of NO_x, ZnO, and SO_x. See also
ZINC COMPOUNDS and CARBAMATES.

EIR500 CAS: 12275-13-7 HR: 3
ETHYLENEBIS(DITHIOCARBAMIC ACID)
NICKEL(II) SALT

mf: C₄H₆N₂S₄•Ni mw: 269.07

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:250 mg/kg CBCCT* 4,377,52

CONSENSUS REPORTS: NTP 10th Report on
Carcinogens. Nickel and its compounds are on the
Community Right-To-Know List.

NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m³

SAFETY PROFILE: Confirmed human carcinogen.
Poison by intraperitoneal route. When heated to
decomposition it emits very toxic fumes of NO_x and SO_x.
See also NICKEL COMPOUNDS and CARBAMATES.

EIS000 CAS: 62207-76-5 HR: 3
N,N'-ETHYLENE BIS(3-FLUOROSALICYL-
IDENEIMINATO)COBALT(II)

mf: C₁₆H₁₂CoF₂N₂O₂ mw: 361.23

SYNS: BIS(3-FLUOROSALICYLALDEHYDE)-ETHYLENEDI-
IMINE-COBALT □ FLUOMINE □ FLUOMINE DUST

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD NTIS** AD-A083-929

eye-rbt 3 mg NTIS** AD-A083-929

orl-rat LD50:187 mg/kg AMRL** TR-74-78,74

ihl-rat LC50:112 mg/m³/6H AMRL** TR-74-78,74

orl-mus LD50:123 mg/kg AMRL** TR-74-78,74

ihl-mus LC50:416 mg/m³/6H NTIS** AD-A083-929

ihl-gpg LCLo:30 mg/m³/2H AMRL** TR-74-78,74

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

SAFETY PROFILE: Poison by ingestion and
inhalation. A skin and eye irritant. When heated to
decomposition it emits very toxic fumes of F⁻ and NO_x.
See also COBALT COMPOUNDS.

EIS100 CAS: 5451-51-4 HR: 3
ETHYLENE BIS(ODOACETATE)

mf: C₆H₈I₂O₄ mw: 397.94

SYNS: ACETIC ACID, IODO-, DIESTER WITH ETHYLENE
GLYCOL □ ACETIC ACID, IODO-, ETHYLENE ESTER □
ETHYLENE GLYCOL, BIS(ODOACETATE)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:16 mg/kg JNCIAM 31,297,1963

ivn-dog LD50:4940 µg/kg JNCIAM 31,297,1963

SAFETY PROFILE: A poison by intraperitoneal and
intravenous routes. When heated to decomposition it
emits toxic vapors of I⁻.

EIT000 CAS: 67-42-5 HR: 3
(ETHYLENEBIS(OXYETHYLENENITRILO))TETR
ACETIC ACID

mf: C₁₄H₂₄N₂O₁₀ mw: 380.40

SYNS: 1,2-BIS(2-

DICARBOXYMETHYLAMINOETHOXY)ETHANE □ 6,9-DIOXA-
3,12-DIAZATETRADECANEDIOIC ACID, 3,12-BIS(CARBOXY-
METHYL)-(9CI) □ EBONTA □ EGTA □ ETHYLENEDIOXYBIS-
(ETHYLENEAMINO)TETRAACETIC ACID □ ETHYLENE
GLYCOL BIS(AMINOETHYL ETHER)TETRAACETATE □
ETHYLENE GLYCOL BIS(β-AMINOETHYL ETHER)TETRA-
ACETATE □ ETHYLENE GLYCOL BIS(β-AMINOETHYL
ETHER)-N,N'-TETRAACETIC ACID □ ETHYLENE GLYCOL
BIS(2-AMINOETHYL ETHER)TETRAACETIC ACID □
ETHYLENE GLYCOL BIS(2-AMINOETHYL ETHER)-N,N,N',N'-
TETRAACETIC ACID □ GLYCOL-ETHERDIAMINE-
TETRAACETIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:3587 mg/kg TXAPA9 16,807,70

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

CONSENSUS REPORTS: Glycol ether compounds
are on the Community Right-To-Know List. Reported in
EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route.
Moderately toxic by ingestion. When heated to
decomposition it emits toxic fumes of NO_x. See also
GLYCOL ETHERS.

EIT100 CAS: 882-35-9 HR: 3
1,1'-ETHYLENEBIS(PYRIDINIUM)BROMIDE

mf: C₁₂H₁₄N₂•2Br mw: 346.10

SYNS: 1,1'-ETHYLENEDIPIRIDINIUM DIBROMIDE □ G.L. 102
□ P.M. 346 □ PYRIDINIUM, 1,1'-ETHYLENEDI-, DIBROMIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#05031

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.

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

EIT150 CAS: 32588-76-4 HR: 1
ETHYLENE BIS(TETRABROMOPHTHALIMIDE)

mf: C₁₈H₄Br₈N₂O₄ mw: 951.52

SYNS: BT 93 □ BT-93D □ BT 93W □ CITEX BT 93 □ 2,2'-(1,2-
ETHANEDIYL)BIS(4,5,6,7-TETRABROMO-1H-ISOINDOLE-
1,3(2H)-DIONE) □ 1H-ISOINDOLE-1,3(2H)-DIONE, 2,2'-(1,2-
ETHANEDIYL)BIS(4,5,6,7-TETRABROMO- □ PHTHALIMIDE,
N,N'-ETHYLENEBIS(TETRABROMO- □ SAYTEX BT 93 □
SAYTEX BT 93W

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H MLD NTIS** OTS0522916

orl-rat LD50:>7500 mg/kg NTIS** OTS0522912

ihl-rat LC :>203 g/m³/1H NTIS** OTS0522915

skn-rbt LD50:>2 g/kg NTIS** OTS0522917

SAFETY PROFILE: Low toxicity by ingestion, ingestion, inhalation, and skin contact. A mild eye irritant. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.

EIT200 CAS: 18406-41-2 HR: 3
1,2-ETHYLENEBIS(TRIMETHOXY-SILANE)

mf: C₈H₂₂O₆Si₂ mw: 270.48**PROP:** Bp: 103–104°, d: 1.068. Flash pt: 65° C.

SYNS: 1,2-BIS(TRIMETHOXY-SILYL)ETHANE □ 1,4-DISILABUTANE, 1,1,1,4,4,4-HEXAMETHOXY- □ DOW CORNING X1-6145A □ 2,7-DIOXA-3,6-DISILAOCTANE, 3,3,6,6-TETRAMETHOXY- □ HEXAMETHOXYDISILYLETHANE □ 3,3,6,6-TETRAMETHOXY-2,7-DIOXA-3,6-DISILAOCTANE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:2400 ppb/4H TOXID9 14,312,94

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by inhalation. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

EIU000 CAS: 10310-38-0 HR: 1
ETHYLENEBIS(TRIS(2-CYANOETHYL)PHOSPHONIUM BROMIDE)

mf: C₂₀H₂₈N₆P₂•2Br mw: 574.30

SYN: 1,2-ETHANEDIYLBIS(TRIS(2-CYANOETHYL)PHOSPHONIUM DIBROMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:10 g/kg EPASR* 8EHQ-0780-0369

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

SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits very toxic fumes of PO_x, NO_x, and Br⁻. See also CYANIDE and BROMIDES.

EIU800 CAS: 107-07-3 HR: 3
ETHYLENE CHLOROHYDRIN

DOT: UN 1135mf: C₂H₅ClO mw: 80.52

PROP: Colorless liquid; faint, ethereal odor. Mp: -69°, fp: -67.5°, bp: 128.8°, flash p: 140°F (OC), d: 1.197 @ 20°/4°, autoign temp: 797°F, vap press: 10 mm @ 30.3°, vap d: 2.78, lel: 4.9%, uel: 15.9%. Misc in water. IDLH 7 ppm.

SYNS: AETHYLENECHLORHYDRIN (GERMAN) □ 2-CHLOOR-ETHANOL (DUTCH) □ 2-CHLORAETHANOL (GERMAN) □ 2-CHLORETHANOL (GERMAN) □ Δ-CHLOROETHANOL □ 2-CHLOROETHANOL (MAK) □ β-CHLOROETHYL ALCOHOL □ 2-CHLOROETHYL ALCOHOL □ CHLOROETHYLOWY ALKOHOL (POLISH) □ 2-CLOROETANOLO (ITALIAN) □ ETHYLEEN-CHLOORHYDRINE (DUTCH) □ ETHYLENE GLYCOL, CHLOROHYDRIN □ GLICOL MONOCLORIDRINA (ITALIAN) □ GLYCOL CHLOROHYDRIN □ GLYCOLMONO-CHLOORHYDRINE (DUTCH) □ GLYCOL MONOCHLORO-HYDRIN □ GLYCOMONOCHLORHYDRIN □ MONOCHLOR-HYDRINE du GLYCOL (FRENCH) □ 2-MONOCHLORO-ETHANOL □ NCI-C50135

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg/2H MLD TXAPA9 16,382,70

eye-rbt 2 mg SEV AJOPAA 29,1363,46

eye-rbt 33 mg MOD TXAPA9 16,382,70

eye-rbt 9 mg/6H MOD BUYRAI 31,25,77

sln-asn 74,500 μmol/L MUREAV 138,33,84

oms-rat:lvrr 12 g/L JACTDZ 1(3),37,82

ihl-man LCLo:305 ppm/2H JHTAB 26,277,44

orl-rat LD50:71 mg/kg HYSAAV 36,376,71

ihl-rat LC50:290 mg/m³ HYSAAV 26,376,71

ipr-rat LD50:58 mg/kg TXAPA9 21,454,72

scu-rat LD50:84 mg/kg HYSAAV 36(4-6),376,71

orl-mus LD50:81 mg/kg JPMSAE 60,568,71

ihl-mus LC50:385 mg/m³ HYSAAV 36,376,71

skn-mus LD50:18 mg/kg 85GMAT -,66,82

ipr-mus LD50:97 mg/kg JPMSAE 61,19,72

skn-rbt LD50:67 mg/kg JPMSAE 61,19,72

ivn-rbt LDLo:100 mg/kg BJMAG 1,207,44

CONSENSUS REPORTS: NTP Carcinogenesis Studies (dermal); No Evidence: mouse, rat NTPTR* NTP-TR-275,85; Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. EPA Extremely Hazardous Substances List.

OSHA PEL: CL 1 ppm (skin)

ACGIH TLV: CL 1 ppm (skin); Not Classifiable as a Human Carcinogen

DFG MAK: 1 ppm (3.3 mg/m³)**DOT CLASSIFICATION:** 6.1; Label: Poison

SAFETY PROFILE: A poison by ingestion, inhalation, skin contact, intraperitoneal, intravenous, and subcutaneous routes. Moderately toxic to humans by inhalation. It can affect the nervous system, liver, spleen, and lungs. An experimental teratogen. Mutation data reported. A severe eye and mild skin irritant. Flammable liquid when exposed to heat, flame, or oxidizers. To fight fire, use alcohol foam, CO₂, dry chemical. Violent reaction with chlorosulfonic acid, ethylene diamine, sodium hydroxide. Reacts with water or steam to produce toxic and corrosive fumes. Potentially violent reaction with oxidizing materials. When heated to decomposition it emits highly toxic fumes of Cl⁻ and phosgene. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ethylene Chlorohydrin, 2513.

EIU900 CAS: 3741-32-0 HR: 3
ETHYLENE CHLOROTHIOARSENATE(III)

mf: C₂H₄AsClS₂ mw: 202.55

SYNS: 2-CHLORO-4,5-DIHYDRO-1,3,2-DITHIARSENOLE □ 1,3,2-DITHIARSENOLE, 2-CHLORODIHYDRO- □ 1,3,2-DITHIARSOLANE, 2-CHLORO-

TOXICITY DATA with REFERENCE:

orl-rat LDLo:250 mg/kg NCNSA6 5,13,1953

unr-rat LDLo:250 mg/kg JACSAT 68,1860,1946

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of SO_x, As, and Cl⁻.

EIV000 CAS: 64-02-8 HR: 3
N,N'-ETHYLENEDIAMINEDIACETIC ACID
TETRASODIUM SALT

mf: $C_{10}H_{12}N_2O_8 \cdot 4Na$ mw: 380.20

PROP: Amorphous powder.

SYNS: AQUAMOLLIN □ CALSOL □ CELON E □ CELON H □ CELON IS □ CHEELOX BF □ CHEELOX BR-33 □ CHELON 100 □ CHEMCOLOX 200 □ COMPLEXONE □ CONIGON BC □ DISTOL 8 □ EDATHANIL TETRASODIUM □ EDETATE SODIUM □ EDETIC ACID TETRASODIUM SALT □ EDTA, SODIUM SALT □ EDTA TETRASODIUM SALT □ ENDRATE TETRASODIUM □ N,N' -1,2-ETHANEDIYLBIS(N -(CARBOXY-METHYL))GLYCINE TETRASODIUM SALT □ ETHYLENEBIS(-IMINODIACETIC ACID) TETRASODIUM SALT □ ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT □ HAMP-ENE 100 □ HAMP-ENE 215 □ HAMP-ENE 220 □ HAMP-ENE Na4 □ IRGALON □ KALEX □ KEPMPLX 100 □ KOMPLXON □ METAQUEST C □ NERVANAID B LIQUID □ NERVANID B □ NULLAPON B □ NULLAPON BF-78 □ NULLAPON BFC CONC □ PERMA KLEER 50 CRYSTALS □ PERMA KLEER TETRA CP □ QUESTEX 4 □ SEQUESTRENE 30A □ SEQUESTRENE Na 4 □ SEQUESTRENE ST □ SODIUM EDETATE □ SODIUM EDTA □ SODIUM ETHYLENEDIAMINE-TETRAACETATE □ SODIUM ETHYLENEDIAMINE-TETRAACETIC ACID □ SODIUM SALT of ETHYLENEDIAMINE-TETRAACETIC ACID □ SYNTES 12A □ SYNTRON B □ TETRACEMIN □ TETRASODIUM EDTA □ TETRASODIUM ETHYLENEDIAMINETETRAACETATE □ TETRASODIUM ETHYLENEDIAMINETETRAACETATE □ TETRASODIUM (ETHYLENEDINITRILO)TETRAACETATE □ TETRASODIUM SALT of EDTA □ TETRASODIUM SALT of ETHYLENEDIAMINETETRAACETIC ACID □ TETRINE □ TRILON B □ TST □ TYCLAROSOL □ VERSENE 100 □ VERSENE POWDER □ WARKEELATE PS-43

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,306,72

eye-rbt 1900 µg AAOPAF 48,681,52

eye-rbt 100 mg/24H MOD 28ZPAK -,306,72

ipr-mus LD50:330 mg/kg REPMBN 10,391,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x and Na_2O . See also ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT.

EIV100 CAS: 1170-02-1 HR: 3

ETHYLENEDIAMINE-DI(o-HYDROXYPHENYL)ACETIC ACID

mf: $C_{18}H_{20}N_2O_6$ mw: 360.40

SYNS: CHEL 138 □ EDBPHA □ EDDHA □ EDHPA □ N,N' -ETHYLENEBIS(2-(o-HYDROXYPHENYL)GLYCINE) □ ETHYLENEDIAMINE- N,N' -BIS(2-HYDROXYPHENYL)ACETIC ACID □ ETHYLENEDIAMINE-DI(2-HYDROXYPHENYL)-ACETIC ACID □ GLYCINE, N,N' -ETHYLENEBIS(2-(o-HYDROXYPHENYL))-

TOXICITY DATA with REFERENCE:

ipr-rat LD50:175 mg/kg JMCMA 29,1231,86

ivn-rat LD50:47 mg/kg NTIS** PB82-163692

ipr-mus LD50:350 mg/kg NTIS** AD691-490

ivn-mus LD50:53 mg/kg FAATDF 6,292,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EIV700 CAS: 20829-66-7 HR: 3

ETHYLENEDIAMINEDINITRATE

mf: $C_2H_{10}N_4O_6$ mw: 186.12

SYN: 1,2-DIAMMONIOETHANE NITRATE

SAFETY PROFILE: Has been used as a military explosive. When heated to decomposition it emits toxic fumes of NO_x . See also EXPLOSIVES, HIGH; and NITRATES.

EIV750 CAS: 27014-42-2 HR: 1

ETHYLENEDIAMINE ETHOXYLATE

mf: $(C_2H_4O)_n(C_2H_4O)_n(C_2H_4O)_n(C_2H_4O)_n C_{10}H_{24}N_2O_4$

SYNS: EDA 200 □ ETHYLENEDIAMINE ETHYLENE OXIDE ADDUCT □ POLY(OXY-1,2-ETHANEDIYL), α - α' , α'' -(1,2-ETHANEDIYLBIS(NITRILODI-2,1-ETHANEDIYL))TETRAKIS(ω -HYDROXY)- □ VERAMIN ED 4 □ VERAMIN ED 40

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD JACTDZ 1,19,90

eye-rbt 100 mg MLD JACTDZ 1,19,90

orl-rat LD50:9900 mg/kg JACTDZ 1,19,90

skn-rbt LD50:>8 g/kg JACTDZ 1,19,90

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

EIW000 CAS: 333-18-6 HR: 3

ETHYLENEDIAMINE HYDROCHLORIDE

mf: $C_2H_8N_2 \cdot 2ClH$ mw: 133.04

PROP: Monoclinic prisms. Mp: subl. Sol in water; insol in alc and ether.

SYNS: CHLOR-ETHAMINE □ 1,2-DIAMINOETHANE DIHYDROCHLORIDE □ 1,2-ETHANEDIAMINE, DIHYDROCHLORIDE □ ETHYLENEDIAMMONIUM CHLORIDE

TOXICITY DATA with REFERENCE:

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

ims-rat LD50:150 mg/kg EMSUA 8 4,223,46

orl-mus LD50:1620 mg/kg FAATDF 3,512,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intramuscular route. Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. When heated to decomposition it emits very toxic fumes of HCl and NO_x .

EIW500 CAS: 25723-52-8 HR: 2

ETHYLENEDIAMINE SULFATE

mf: $C_2H_8N_2 \cdot 7H_2O_4S$ mw: 746.68

TOXICITY DATA with REFERENCE:

skn-rat LD50:1000 mg/kg KODAK* -,71

orl-rat LDLo:3200 mg/kg KODAK* -,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**EIX000 CAS: 60-00-4 HR: 3
ETHYLENEDIAMINETETRAACETIC ACID**mf: $C_{10}H_{16}N_2O_8$ mw: 292.28**PROP:** Colorless crystals from water (dimorphic). Mp: 220° (decomp @ 240°). Sltly water-sol; insol in common org solvs.**SYNS:** ACIDE ETHYLENEDIAMINETETRAACETIQUE (FRENCH) □ 3,6-BIS(CARBOXYMETHYL)-3,5-DIAZOCTA-NEDIOIC ACID □ CELON A □ CELON ATH □ CHEELOX BF ACID □ CHEMCOLOX 340 □ COMPLEXON II □ EDATHAMIL □ EDETIC ACID □ EDTA (chelating agent) □ EDTA ACID □ ENDRATE □ N,N'-1,2-ETHANEDIYLBIS(N-(CARBOXY-METHYL))GLYCINE □ ETHYLENEDIAMINETETRAACETATE □ ETHYLENEDIAMINE-N,N,N',N'-TETRAACETIC ACID □ ETHYLENEDINITRILOTETRAACETIC ACID □ HAMP-ENE ACID □ HAVIDOTE □ METAQUEST A □ NERVANAID B ACID □ NULLAPON BF ACID □ PERMA KLEER 50 ACID □ QUESTEX 4H □ SEQ 100 □ SEQUESTRENE AA □ SEQUESTRIC ACID □ SEQUESTROL □ TETRINE ACID □ TITRIPLEX □ TRICON BW □ TRILON BW □ VERSENE ACID □ VINKEIL 100 □ WARKEELATE ACID**TOXICITY DATA with REFERENCE:**cyt-mus-ipr 50 mmol/L CISC7 20,28,76
dni-rbt:kdy 250 nmol/L ECREAL 36,92,64
ipr-rat LD50:397 mg/kg AHRTAN 13,295,62
ipr-mus LD50:250 mg/kg NTIS** AD691-490**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Poison by intraperitoneal route. Experimental teratogenic and reproductive effects. Mutation data reported. A general-purpose chelating and complexing agent. When heated to decomposition it emits toxic fumes of NO_x .**EIX500 CAS: 139-33-3 HR: 3
ETHYLENEDIAMINETETRAACETIC ACID,
DISODIUM SALT**mf: $C_{10}H_{14}N_2O_8 \cdot 2Na$ mw: 336.24**PROP:** White crystalline powder. Sol in water.**SYNS:** CHELADRATE □ CHELAPLEX III □ CHELATON III □ COMPLEXON III □ d'E.D.T.A. DISODIQUE (FRENCH) □ DISODIUM DIACID ETHYLENEDIAMINETETRAACETATE □ DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE □ DISODIUM DIHYDROGEN(ETHYLENE-DINITRILO)TETRAACETATE □ DISODIUM EDATHAMIL □ DISODIUM EDETATE □ DISODIUM EDTA (FCC) □ DISODIUM ETHYLENEDIAMINETETRAACETATE □ DISODIUM ETHYLENEDIAMINETETRAACETIC ACID □ DISODIUM (ETHYLENEDINITRILO)TETRAACETATE □ DISODIUM (ETHYLENEDINITRILO)TETRAACETIC ACID □ DISODIUM SALT of EDTA □ DISODIUM SEQUESTRENE □ DISODIUM TETRACEMATE □ DISODIUM VERSENATE □ DISODIUM VERSENE □ EDATHAMIL DISODIUM □ EDETATE DISODIUM □ EDTA, DISODIUM SALT □ ENDRATE DISODIUM □ N,N'-1,2-ETHANEDIYLBIS(N-(CARBOXYMETHYL)GLYCINE) DISODIUM SALT □ ETHYLENEBIS(IMINODIACETIC ACID) DISODIUM SALT □ ETHYLENEDIAMINETETRAACETATE DISODIUM SALT □ (ETHYLENEDINITRILO)-TETRAACETIC ACID DISODIUM SALT □ F 1 (complexon) □ KIRESUTO B □ METAQUEST B □ PERMA KLEER 50 CRYSTALS DISODIUM SALT □ SELEKTON B 2 □ SEQUESTRENE SODIUM 2 □ SODIUM VERSENATE □ TETRACEMATE DISODIUM □

TITRIPLEX III □ TRILON BD □ TRIPLEX III □ VERESENE DISODIUM SALT □ VERSENE SODIUM 2

TOXICITY DATA with REFERENCE:cyt-grh-par 1 mmol/L CISC7 16,18,74
orl-rat LD50:2000 mg/kg FEPA7 27,465,68
orl-mus LD50:2050 mg/kg NYKZAU 52,126S,56
ipr-mus LD50:260 mg/kg NYKZAU 52,126S,56
ivn-mus LD50:56 mg/kg CSLNX* NX#03781
orl-rbt LD50:2300 mg/kg NYKZAU 52,113,56
ivn-rbt LD50:47 mg/kg NYKZAU 52,113,56**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. Mutation data reported. The calcium disodium salt of EDTA is used as a chelating agent in treating lead poisoning. When heated to decomposition it emits toxic fumes of NO_x and Na_2O .**EIY500 CAS: 106-93-4 HR: 3
1,2-ETHYLENE DIBROMIDE****DOT:** UN 1605mf: $C_2H_4Br_2$ mw: 187.88**PROP:** Colorless, heavy liquid; sweet odor. Bp: 131.4°, fp: 9.3°, flash p: none, d: 2.178 @ 20°/4, mp: 10°, vap press: 17.4 mm @ 30°, vap d: 6.48. IDLH 100 ppm.**SYNS:** AETHYLENBROMIDE (GERMAN) □ BROMOFUME □ BROMURO di ETILE (ITALIAN) □ CELMIDE □ DBE □ 1,2-DIBROMAETHAN (GERMAN) □ 1,2-DIBROMOETANO (ITALIAN) □ α,β -DIBROMOETHANE □ sym-DIBROMOETHANE □ 1,2-DIBROMOETHANE (MAK) □ DIBROMURE d'ETHYLENE (FRENCH) □ 1,2-DIBROOMETHAAN (DUTCH) □ DOWFUME 40 □ DOWFUME EDB □ DOWFUME W-8 □ DWUBROMOETAN (POLISH) □ EDB □ EDB-85 □ E-D-BEE □ ENT 15,349 □ ETHYLENE BROMIDE □ FUMO-GAS □ GLYCOL BROMIDE □ GLYCOL DIBROMIDE □ ISCOBROME D □ KOPFUME □ NCI-C00522 □ NEPHIS □ PESTMASTER □ PESTMASTER EDB-85 □ RCRA WASTE NUMBER U067 □ SOILBROM-40 □ SOILBROM-85 □ SOILFUME □ UNIFUME**TOXICITY DATA with REFERENCE:**skn-hmn 1538 mg/24H SEV AGGHAR 8,591,38
skn-rbt 1%/14D SEV AMIHBC 6,158,52
eye-rbt 1% AMIHBC 6,158,52
mmo-sat 1 µg/plate ENMUDM 7(Suppl 5),1,85
mma-esc 333 µg/plate ENMUDM 7(Suppl 5),1,85
skn-mus TDLo:190 g/kg/62W-I:NEO JJIND8 63,1433,79
orl-wmn LDLo:90 mg/kg:GIT,SYS 34ZIAG -,257,69
orl-rat LD50:108 mg/kg SPEADM 74-1,-,74
ihl-rat LC50:14,300 mg/m³/30M FATOBP 8,140,73
skn-rat LD50:300 mg/kg 85DPAN -,71/76
orl-mus LDLo:250 mg/kg TXAPA9 23,288,72
ipr-mus LD50:220 mg/kg JPCEAO 320(1),133,78
orl-rbt LD50:55 mg/kg AMIHBC 6,158,52
skn-rbt LD50:300 mg/kg AMIHBC 6,158,52
rec-rbt LDLo:2500 mg/kg JPETAB 34,223,28
ihl-gpg LCLo:400 ppm/3H AMIHBC 6,158,52**CONSENSUS REPORTS:** NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2A IMEMDT 7,204,87; Animal Sufficient Evidence IMEMDT 15,195,77. NCI Carcinogenesis Bioassay (gavage); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-86,78; NTP

Carcinogenesis Bioassay (inhalation); Clear Evidence: mouse, rat NTPTR* NTP-TR-210,82. EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 20 ppm; CL 30 ppm; Pk 50 ppm/5M/8H

ACGIH TLV: Animal Carcinogen

DFG MAK: DFG TRK: Animal Carcinogen, Suspected Human Carcinogen

NIOSH REL: (EDB) 0.045 ppm; CL 1 mg/m³/15M

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and teratogenic data. Human poison by ingestion. Experimental poison by ingestion, skin contact, intraperitoneal, and possibly other routes. Moderately toxic by inhalation and rectal routes. Human systemic effects by ingestion: hypermotility, diarrhea, nausea or vomiting, decreased urine volume or anuria. Experimental reproductive effects. Human mutation data reported. A severe skin and eye irritant. Implicated in worker sterility. When heated to decomposition it emits toxic fumes of Br⁻. See also ETHYLENE DICHLORIDE and BROMIDES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #02 or NIOSH: Ethylene Dibromide, 1008.

EIY550 CAS: 65313-36-2 HR: 3
ETHYLENEDICESIUM

mf: C₂H₄Cs₂ mw: 293.86

SAFETY PROFILE: Violent reaction on contact with water. When heated to decomposition it emits acrid smoke and irritating fumes. See also CESIUM.

EIY600 CAS: 107-06-2 HR: 3
ETHYLENE DICHLORIDE
DOT: UN 1184

mf: C₂H₄Cl₂ mw: 98.96

PROP: Colorless, clear liquid; pleasant odor, sweet taste. Bp: 83.5°, ULC: 60–70, lel: 6.2%, uel: 15.9%, fp: –35.7°, flash p: 56°F, d: 1.257 @ 20°/4°, autoign temp: 775°F, vap press: 100 mm @ 29.4°, vap d: 3.35, refr index: 1.445 @ 20°. Sol in alc, ether, acetone, carbon tetrachloride; sltly sol in water. IDLH 50 ppm.

SYNS: AETHYLENCHLORID (GERMAN) □ BICHLORURE d'ETHYLENE (FRENCH) □ BORER SOL □ BROCODE □ CHLORURE d'ETHYLENE (FRENCH) □ CLORURO di ETHENE (ITALIAN) □ 1,2-DCE □ DESTRUOL BORER-SOL □ 1,2-DICHLOROETHAAN (DUTCH) □ 1,2-DICHLOR-AETHAN (GERMAN) □ DICHLOREMULSION □ DI-CHLOR-MULSION □ α,β-DICHLOROETHANE □ sym-DICHLOROETHANE □ DICHLORO-1,2-ETHANE (FRENCH) □ 1,2-DICHLOROETHANE □ DICHLOROETHYLENE □ 1,2-DICLOROETANO (ITALIAN) □ DUTCH LIQUID □ DUTCH OIL □ EDC □ ENT 1,656 □ ETHANE DICHLORIDE □ ETHYLEENDICHLORIDE (DUTCH) □ ETHYLENE CHLORIDE □ 1,2-ETHYLENE DICHLORIDE □ GLYCOL DICHLORIDE □ NCI-C00511 □ RCRA WASTE NUMBER U077

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,93,86
eye-rbt 500 mg/24H MLD 85JCAE -,93,86

msc-hmn:lym 100 mg/L MUREAV 142,133,85
slt-mus-ipr 300 mg/kg MUREAV 117,201,83
orl-mus TD:76 g/kg/78W-I:CAR,TER NCITR* NCI-CG-TR-55,78
orl-mus TD:38 g/kg/78W-I:CAR,TER NCITR* NCI-CG-TR-55,78
ihl-hmn TCLo:4000 ppm/H:CNS,PNS,GIT PCOC** -,500,66
orl-hmn LDLo:286 mg/kg:GIT CLCEAL 86,203,47
orl-hmn TDLo:428 mg/kg:GIT,CNS,PUL SOMEAU 22,132,58
orl-man TDLo:892 mg/kg:GIT,LIV WILEAR 28,983,75
orl-man LDLo:714 mg/kg:CNS,CVS,PUL KLWOAZ 48,822,70
orl-rat LD50:670 mg/kg FMCHA2 -,C130,91
ihl-rat LC50:1000 ppm/7H AMIHBC 4,482,51
ipr-rat LD50:807 mg/kg GTPZAB 26(4),26,82
scu-rat LD50:1 g/kg FAONAU 48A,91,70
orl-mus LD50:489 mg/kg TOXID9 1,26,81
ihl-mus LCLo:5000 mg/m³/2H AEPPAE 141,19,29
scu-mus LDLo:380 mg/kg JPETAB 84,53,45
orl-dog LD50:5700 mg/kg FAONAU 48A,91,70
ivn-dog LDLo:175 mg/kg QJPPAL 7,205,34
orl-rbt LD50:860 mg/kg GUHAZ 6,264,73
ihl-rbt LCLo:3000 ppm/7H JPETAB 84,53,45

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Human Limited Evidence IMEMDT 20,429,79; Animal Sufficient Evidence IMEMDT 20,429,79. NCI Carcinogenesis Bioassay (gavage); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-55,78. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 1 ppm; STEL 2 ppm

ACGIH TLV: TWA 10 ppm; Not Classifiable as a Human Carcinogen

DFG MAK: Confirmed Animal Carcinogen, Suspected Human Carcinogen

NIOSH REL: (Ethylene Dichloride) TWA 1 ppm; CL 2 ppm/15M

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. An experimental transplacental carcinogen. A human poison by ingestion. Poison experimentally by intravenous and subcutaneous routes. Moderately toxic by inhalation, skin contact, and intraperitoneal routes. Human systemic effects by ingestion and inhalation: flaccid paralysis without anesthesia (usually neuromuscular blockage), somnolence, cough, jaundice, nausea or vomiting, hypermotility, diarrhea, ulceration or bleeding from the stomach, fatty liver degeneration, change in cardiac rate, cyanosis, and coma. It may also cause dermatitis, edema of the lungs, toxic effects on the kidneys, and severe corneal effects. A strong narcotic. Experimental teratogenic and reproductive effects. A skin and severe eye irritant, and strong local irritant. Its smell and irritant effects warn of its presence at relatively safe concentrations. Human mutation data reported.

Flammable liquid. A dangerous fire hazard if exposed to heat, flame, or oxidizers. Moderately explosive in the form of vapor when exposed to flame. Violent reaction

with Al, N₂O₄, NH₃, dimethylaminopropylamine. Can react vigorously with oxidizing materials and emit vinyl chloride and HCl. To fight fire, use water, foam, CO₂, dry chemicals. When heated to decomposition it emits highly toxic fumes of Cl⁻ and phosgene. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #03 or NIOSH: Hydrocarbons, Halogenated, 1003.

EIY700 CAS: 21322-39-4 HR: 3
3,3'-(ETHYLENEDIIMINODIMETHYLENE)BIS(5,5-DIPHENYLHYDANTOIN)

mf: C₃₄H₃₂N₆O₄ mw: 588.72

SYN: HYDANTOIN, 3,3'-(ETHYLENEDIIMINODIMETHYLENE)BIS(5,5-DIPHENYL-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg DPHFAK 21,113,1969

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

EJA000 CAS: 6943-65-3 HR: 3
ETHYLENE DIISOTHIOURONIUM DIBROMIDE

mf: C₄H₁₀N₄S₂•2BrH mw: 340.14

SYNS: 1,2-ETHANEDIYL ESTER CARBAMIMIDOTHIOIC ACID DIHYDROBROMIDE □ 2,2'-ETHYLENE-BIS-(2-THIOPSEUDO-UREA), DIHYDROBROMIDE □ ETHYLENE DIISOTHIUREA DIHYDROBROMIDE □ 2,2-ETHYLENEDITHIODIPSEUDO-UREA DIHYDROBROMIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:75 mg/kg NTIS** AD691-490

ivn-mus LD50:56 mg/kg CSLNX* NX#02909

par-mus LD50:160 mg/kg THERAP 8,929,53

unr-mus LDLo:200 mg/kg ATMPA2 32,177,38

SAFETY PROFILE: Poison by intraperitoneal, intravenous, parenteral, and possibly other routes. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and HBr. See also BROMIDES.

EJA100 CAS: 3715-67-1 HR: 3
N,N-ETHYLENE-N',N'-DIMETHYLUREA

mf: C₅H₁₀N₂O mw: 114.17

SYNS: 1-AZIRIDINECARBOXAMIDE, N,N-DIMETHYL- □ N,N-DIMETHYL-1-AZIRIDINECARBOXAMIDE □ N-(DIMETHYL-CARBAMOYL)AZIRIDINE □ 1-(DIMETHYLCARBAMYL)-AZIRIDINE □ N,N-DIMETHYLETHYLENEUREA

TOXICITY DATA with REFERENCE:

mmo-ssp 140 mmol/L ADWMAX -,193,62

ipr-rat LD50:200 mg/kg BJPCAL 21,581,63

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

EJA150 CAS: 64047-27-4 HR: 3
3,3'-ETHYLENEDINITRILODI-2-BUTANONE DIOXIME IRON(II) COMPLEX

mf: C₁₀H₁₆N₄O₂•Fe mw: 280.15

SYN: 2-BUTANONE, 3,3'-ETHYLENEDINITRILODI-, DIOXIME, IRON(II) COMPLEX

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:250 mg/kg CBCCT* 4,317,52

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

EJA250 HR: 1
(ETHYLENEDINITRILO)TETRAACETATE DIPOTASSIUM SALT

mf: C₁₀H₁₆N₂O₈•2K mw: 370.48

SYN: DIPOTASSIUM ETHYLENEDIAMINETETRAACETATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD FCTOD7 20,563,82

eye-rbt 100 mg MLD FCTOD7 20,573,82

eye-rbt 100 mg/30S rns MLD FCTOD7 20,573,82

SAFETY PROFILE: A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x and K₂O.

EJA379 CAS: 15708-41-5 HR: 1
((ETHYLENEDINITRILO)TETRAACETATO)-FERATE(1-), SODIUM

mf: C₁₀H₁₂FeN₂O₈•Na mw: 367.08

PROP: Crystals from EtOH (aq).

SYNS: CALMOSINE □ EDATHAMIL MONOSODIUM FERRIC SALT □ FERISAN □ FERRIC SODIUM EDETATE □ FERRIC SODIUM EDTA □ MONOSODIUM FERRIC EDTA □ REXENE □ SEQUESTRENE NaFe IRON CHELATE □ SODIUM FEREDETATE □ SODIUM FERRIC EDTA □ SODIUM IRON EDTA □ SYTRON

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 g/kg CIGET* -,77

orl-mus LD50:5000 mg/kg CIGET* -,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EJA390 CAS: 17100-11-7 HR: 3
(ETHYLENEDINITRILO)TETRAACETIC ACID ALUMINUM COMPLEX

SYNS: ACETIC ACID, (ETHYLENEDINITRILO)TETRA-, ALUMINUM(III)COMPLEX □ ALUMINUM EDTA COMPLEX

TOXICITY DATA with REFERENCE:

ipr-mus LD50:14 mg(Al)/kg PABIAQ 11,853,1963

ACGIH TLV: TWA 2 mg(Al)/m³

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

EJA400 CAS: 29507-62-8 HR: 3
(ETHYLENEDINITRILO)TETRAACETIC ACID ALUMINUM SODIUM SALT

mf: C₁₀H₁₂N₂O₈•Al•Na mw: 338.21

SYNS: ACETIC ACID, (ETHYLENEDINITRILO)TETRA-, ALUMINUMSODIUM SALT □ ETHYLENEDIAMINE-TETRAACETIC ACID, ALUMINUM-SODIUM SALT

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#04823

ACGIH TLV: TWA 2 mg(Al)/m³

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

EJA410 CAS: 17099-80-8 HR: 3
(ETHYLENEDINITRIL)TETRAACETIC ACID
CHROMIUM COMPLEX

PROP: IDLH 25 mg/m³ [as Cr(III)].

SYNS: ACETIC ACID, (ETHYLENEDINITRIL)TETRA-, CHROMIUM(III)COMPLEX □ CHROMIUM EDTA COMPLEX

TOXICITY DATA with REFERENCE:

ipr-mus LD50:291 mg(Cr)/kg PABIAQ 11,853,1963

ACGIH TLV: TWA 0.5 mg(Cr)/m³

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

EJA500 CAS: 25481-21-4 HR: 3
(ETHYLENEDINITRIL)TETRAACETIC ACID
NICKEL(II) COMPLEX

mf: C₁₀H₁₂N₂NiO₈•2H mw: 348.96

SYNS: DIHYDROGEN

(ETHYLENEDIAMINETETRAACETATO(4-))NICKELATE (2-) □ NICKEL(II) EDTA COMPLEX

TOXICITY DATA with REFERENCE:

ipr-mus LD50:88 mg(Ni)/kg PABIAQ 11,853,63

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

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

EJB000 CAS: 5766-67-6 HR: 2
(ETHYLENEDINITRIL)TETRAACETONITRILE

mf: C₁₀H₁₂N₆ mw: 216.28

PROP: Powder. Mp: 132°.

SYNS: ETHYLENEDIAMINETETRAACETONITRILE □ N,N,N',N'-TETRACYANOMETHYLAETHYLENEDIAMIN (GERMAN)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:3030 mg/kg ARZNAD 16,734,66

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

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

EJB100 HR: 3
6,6'-(ETHYLENEDIOXY)BIS(4-AMINOQUINALD-INE) DIHYDROCHLORIDE

mf: C₂₂H₂₂N₄O₂•2ClH mw: 447.40

SYN: BIS-(2-METHYL-4-AMINO-6-QUINOLYLOXY)ETHANE DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1530 mg/kg ANTCAO 2,581,52

ipr-mus LD50:128 mg/kg ANTCAO 2,581,52

scu-mus LD50:130 mg/kg ANTCAO 2,581,52

ivn-mus LD50:12,100 µg/kg ANTCAO 2,581,52

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

EJB500 CAS: 111-21-7 HR: 1
2,2'-(ETHYLENEDIOXY)DI(ETHYL ACETATE)

mf: C₁₀H₁₈O₆ mw: 234.28

SYNS: ACETIC ACID, TRIETHYLENE GLYCOL DIESTER □ 2,2'-ETHYLENEDIOXYDIETHANOL DIACETATE □ TRIETHYLENE GLYCOL, DIACETATE □ TRIGLYCOL, DIACETATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 3/27/69

orl-rat LD50:22,600 mg/kg AIHAAP 30,470,69

skn-rbt LD50:8 g/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion and skin contact. Experimental reproductive effects. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

EJC000 CAS: 52936-25-1 HR: 3
ETHYLENE DIPERCHLORATE

mf: C₂H₄Cl₂O₈ mw: 226.96

(-CH₂OCIO₃)₂

SAFETY PROFILE: A highly sensitive, powerful explosive. Explodes on contact with small amounts of water. Upon decomposition it emits toxic fumes of Cl⁻. See also PERCHLORATES.

EJC025 CAS: 85-00-7 HR: 3
ETHYLENE DIPYRIDILIUM DIBROMIDE

mf: C₁₂H₁₂N₂•2Br mw: 344.08

SYNS: 1,1'-AETHYLENE-2,2'-BIPYRIDINIUM-DIBROMID □ 9,10-DIHYDRO-8A,10-DIAZONIAPHENANTHRENE DIBROMIDE □ 9,10-DIHYDRO-8A,10A-DIAZONIAPHENANTHRENE(1,1'-ETHYLENE-2,2'-BIPYRIDILIUM)DIBROMIDE □ 5,6-DIHYDRO-DIPYRIDO(1,2A, 2,1C)PYRAZINIUM DIBROMIDE □ 6,7-DIHYDROPYRIDO(1,2-A, 2',1'-C)PYRAZINEDIUM DIBROMIDE □ DIPYRIDO(1,2-A, 2',1'-C)PYRAZINEDIUM, 6,7-DIHYDRO-, DIBROMIDE □ DIQUAT DIBROMIDE □ 1,1'-ETHYLENE-2,2'-BIPYRIDILIUM DIBROMIDE □ 1,1'-ETHYLENE-2,2'-DIPYRIDILIUM DIBROMIDE □ ORTHO-DIQUAT □ PP 100 □ PREEGLONE □ REGLONE □ REGLONE □ WEEDTRINE-D

TOXICITY DATA with REFERENCE:

skn-rbt 400 mg/kg/20D MLD BJIMAG 27,51,1970

eye-rbt 10 mg MLD BJIMAG 27,51,1970

mic-sat 100 nmol/plate TOLED5 3,169,1979

dns-hmn-fbr 1 µmol/L MUREAV 42,161,1977

orl-rat LD50:120 mg/kg PRKHDK 1,31,1975

skn-rat LD50:433 mg/kg FAATDF 7,299,1986

ipr-rat LDLo:500 mg/kg PAREAQ 14,225,1962

scu-rat LD50:20 mg/kg PAREAQ 14,225,1962

ivn-rat LDLo:14 mg/kg 26UZAB 6,257,1968/1970

skn-rbt LD50:>500 mg/kg WRPCA 2,919,1970

orl-dck LD50:564 mg/kg DOEAAH 35,25,1979

NIOSH REL: (diquat) TWA 0.5 mg/m³

SAFETY PROFILE: A poison by ingestion, skin contact, and other routes. Experimental reproductive effects. A skin irritant. Human mutation data reported.

EJC035 CAS: 629-17-4 HR: 3**ETHYLENEDITHIOCYANATE**mf: $C_4H_4N_2S_2$ mw: 144.22

SYNS: 1,2-BIS(THIOCYANATO)ETHANE □ 1,2-DITHIOCYANATOETHANE □ 1,2-DITHIOCYANOETHANE □ 1,2-ETHANEDIYL THIOCYANATE □ ETHYLENE THIOCYANATE □ THIOCYANIC ACID, ETHYLENE ESTER □ THIOCYANIC ACID, 1,2-ETHANEDIYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:50 mg/kg NTIS** OTS0555939
 ipr-rat LD50:10 mg/kg NTIS** OTS0555939
 orl-mus LD50:25 mg/kg NTIS** OTS0555939
 ipr-mus LDLo:5 mg/kg NTIS** OTS0555939
 skn-gpg LD50:>20 mL/kg NTIS** OTS0555939

SAFETY PROFILE: A poison by ingestion, skin contact, and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x and SO_x .

EJC050 CAS: 52411-33-3 HR: D**2,2'-(ETHYLENEDITHIO)DIANILINE**mf: $C_{14}H_{16}N_2S_2$ mw: 276.44

SYNS: BENZENAMINE, 2,2'-(1,2-ETHANEDIYLBIS(THIO))BIS- □ BIS(O-AMINOPHENYLTHIO)ETHANE □ CYANACURE □ 2,2'-(1,2-ETHANEDIYLBIS(THIO))BISBENZENAMINE

TOXICITY DATA with REFERENCE:mmo-sat 100 μ g/plate CRNGDP 10,2119,89

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EJC100 CAS: 1852-14-8 HR: 1**1,1'-ETHYLENEDIUREA**mf: $C_4H_{10}N_4O_2$ mw: 146.18

SYNS: ETHANEDIUREA □ N,N"-1,2-ETHANEDIYLBISUREA □ 1,1'-ETHYLENEBISUREA □ ETHYLENEDIUREA □ MONO-ETHYLENEDIUREA □ UREA, N,N"-1,2-ETHANEDIYLBIS-(9CI) □ UREA, 1,1'-ETHYLENEDI-

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:13,140 mg/kg JPETAB 54,188,35

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EJC500 CAS: 107-21-1 HR: 3**ETHYLENE GLYCOL**mf: $C_2H_6O_2$ mw: 62.08

PROP: Colorless, sweet-tasting, hygroscopic, viscid, poisonous liquid. Fp: -13° , mp: -15.6° , bp: 197.5° , lel: 3.2%, flash p: $232^\circ F$ (CC), d: 1.113 @ $25^\circ/25^\circ$, autoign temp: $752^\circ F$, vap d: 2.14, vap press: 0.05 mm @ 20° . Misc in H_2O , EtOH, MeOH, Me_2CO , AcOH, and Py. Immisc in $CHCl_3$, CCl_4 , Et_2O , C_6H_6 , CS_2 , and ligroin.

SYNS: ATHYLENGLYCOL (GERMAN) □ 1,2-DIHYDROXY-ETHANE □ DOWTHERM SR 1 □ 1,2-ETHANEDIOL □ ETHYLENE ALCOHOL □ ETHYLENE DIHYDRATE □ GLYCOL □ GLYCOL ALCOHOL □ LUTROL-9 □ MACROGOL 400 BPC □ M.E.G. □ MONOETHYLENE GLYCOL □ NCI-C00920 □ NORKOOL □ TESCOL □ UCAR 17

TOXICITY DATA with REFERENCE:

eye-rat 12 mg/ $m^3/3D$ TXAPA9 16,646,70
 skn-rbt 555 mg open MLD UCDS** 7/21/65
 eye-rbt 500 mg/24H MLD 85JCAE -,205,86
 eye-rbt 100 mg/1H MLD NTIS** LMF-69
 eye-rbt 12 mg/ $m^3/3D$ TXAPA9 16,646,70
 eye-rbt 1440 mg/6H MOD BUYRAI 31,25,77
 dni-hmn:lym 320 mmol/L PNASA6 79,1171,82
 msc-mus:lym 100 mmol/L PAACA3 21,74,80
 orl-chd TDLo:5500 mg/kg:CNS,PUL,KID PGMJAO 52,598,76
 orl-hmn LDLo:786 mg/kg EJTXAZ 9,373,76
 orl-hmn LDLo:398 mg/kg:CNS,GIT,LIV SMEZA5 26(2),48,83
 ihl-hmn TCLo:10,000 mg/ m^3 :EYE,PUL AGGHAR 5,1,33
 unr-man LDLo:1637 mg/kg 85DCAI 2,73,70
 orl-rat LD50:4700 mg/kg GTPZAB 26(6),28,82
 ipr-rat LD50:5010 mg/kg KRKRDT 9,36,81
 scu-rat LD50:2800 mg/kg NPIRI* 1,49,74
 ivn-rat LD50:3260 mg/kg KRKRDT 9,36,81
 ims-rat LDLo:3300 mg/kg JPETAB 41,387,31
 orl-mus LD50:7500 mg/kg JPETAB 65,89,39
 ipr-mus LD50:5614 mg/kg FEPRA7 6,342,47
 scu-mus LDLo:2700 mg/kg BJIMAG 1,207,44

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: CL 50 ppm

ACGIH TLV: CL 50 ppm (vapor)

DFG MAK: 10 ppm (26 mg/ m^3)

SAFETY PROFILE: Human poison by ingestion. (Lethal dose for humans reported to be 100 mL.) Moderately toxic to humans by an unspecified route. Moderately toxic experimentally by ingestion, subcutaneous, intravenous, and intramuscular routes. Human systemic effects by ingestion and inhalation: eye lachrymation, general anesthesia, headache, cough, respiratory stimulation, nausea or vomiting, pulmonary, kidney, and liver changes. If ingested it causes initial central nervous system stimulation followed by depression. Later, it causes potentially lethal kidney damage. Very toxic in particulate form upon inhalation. An experimental teratogen. Other experimental reproductive effects. Human mutation data reported. A skin, eye, and mucous membrane irritant.

Combustible when exposed to heat or flame; can react vigorously with oxidants. Moderate explosion hazard when exposed to flame. Ignites on contact with chromium trioxide, potassium permanganate, and sodium peroxide. Mixtures with ammonium dichromate, silver chlorate, sodium chlorite, and uranyl nitrate ignite when heated to $100^\circ C$. Can react violently with chlorosulfonic acid, oleum, H_2SO_4 , $HClO_4$, and P_2S_5 . Aqueous solutions may ignite silvered copper wires that have an applied D.C. voltage. To fight fire, use alcohol foam, water, foam, CO_2 , dry chemical. When heated to decomposition it emits acid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ethylene Glycol, 5500.

EJD000 CAS: 3775-85-7 HR: 2**ETHYLENE GLYCOL BIS(2,3-EPOXY-2-**

METHYLPROPYL) ETHERmf: $C_{10}H_{18}O_4$ mw: 202.28**SYNS:** ETHYLENE GLYCOL DI(2,3-EPOXY-2-

METHYLPROPYL)ETHER □ ETHYLENE GLYCOLIDE (2,3-EPOXY-2-METHYLPROPYL)ETHER

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:7460 mg/kg AIHAAP 24,305,63

skn-rbt LD50:3150 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Moderately toxic by skin contact. Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.**EJD600 CAS: 2514-53-6 HR: 1****ETHYLENE GLYCOL BIS(TRICHLORO-ACETATE)**mf: $C_6H_4Cl_6O_4$ mw: 352.80**SYNS:** ACETIC ACID, TRICHLORO-, ETHYLENE ESTER (2:1) □ EGT □ ETHYLENE GLYCOL, BIS(TRICHLOROACETATE) □ ETHYLENGLYKOLTRICHLORACETAT**TOXICITY DATA with REFERENCE:**

orl-rat LD50:7 g/kg FMCHA2 -,C155,91

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of Cl^- .**EJD759 CAS: 111-55-7 HR: 2****ETHYLENE GLYCOL DIACETATE**mf: $C_6H_{10}O_4$ mw: 146.16**PROP:** Colorless liquid or crystals. Mp: -31° , bp: $186-187^\circ$, flash p: $205^\circ F$ (OC), fp: -31° , d: 1.128 @ $0^\circ/4^\circ$, vap press: 1 mm @ 38.3° , vap d: 5.04. Misc in $EtOH$, Et_2O ; sltly sol in H_2O .**SYNS:** 1,2-ETHANEDIOL DIACETATE □ ETHYLENE ACETATE □ ETHYLENE GLYCOL ACETATE □ GLYCOL DIACETATE**TOXICITY DATA with REFERENCE:**

eye-rbt 555 mg AJOPAA 29,1363,46

orl-rat LD50:6850 mg/kg UCDS** 6/6/69

ipr-mus LD50:1190 mg/kg JPETAB 90,338,47

skn-rbt LD50:8480 mg/kg UCDS** 6/6/69

orl-gpg LD50:4940 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Mildly toxic by ingestion and skin contact. An eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, CO_2 , dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.**EJE000 CAS: 7529-27-3 HR: 2****ETHYLENE GLYCOL DIALLYL ETHER**mf: $C_8H_{14}O_2$ mw: 142.22**SYN:** DIALLYLETHETHE ETHYLENGLYKOLU (CZECH)**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H SEV 28ZPAK -,38,72

eye-rbt 250 μg /24H SEV 28ZPAK -,38,72**CONSENSUS REPORTS:** Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A severe skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS and ALLYL COMPOUNDS.**EJE500 CAS: 629-14-1 HR: 3****ETHYLENE GLYCOL DIETHYL ETHER****DOT:** UN 1153mf: $C_6H_{14}O_2$ mw: 118.20**PROP:** Colorless liquid; slight ethereal odor. Mp: -74° , bp: 123.5° , flash p: $95^\circ F$ (OC), d: 0.8417 @ $20^\circ/20^\circ$, autoign temp: $406^\circ F$, vap d: 6.56, vap press: 9.4 mm.**SYNS:** 1,2-DIETHOXYETHANE □ DIETHYL CELLOSOLVE (DOT) □ ETHYL GLYME**TOXICITY DATA with REFERENCE:**

eye-rbt 17 mg AJOPAA 29,1363,46

orl-rat LD50:4390 mg/kg JIHTAB 23,259,41

ihl-rat LCLo:8000 ppm/4H JIHTAB 31,343,49

orl-gpg LD50:2440 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Glycol ether compounds are on the Community Right-To-Know List.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by ingestion. Mildly toxic by inhalation. An experimental teratogen. Experimental reproductive effects. An eye irritant. An aprotic solvent. A very dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO_2 , dry chemical. See also GLYCOL ETHERS and various cellosolve entries.**EJF000 CAS: 629-15-2 HR: 3****ETHYLENE GLYCOL DIFORMATE**mf: $C_4H_6O_4$ mw: 118.10**PROP:** Liquid. Mp: -10° , bp: 177° , flash p: $200^\circ F$ (OC), d: 1.2277 @ $20^\circ/20^\circ$, vap d: 4.07.**SYNS:** ETHYLENE FORMATE □ GLYCOL DIFORMATE**TOXICITY DATA with REFERENCE:**

eye-rbt 5 mg SEV AJOPAA 29,1363,46

orl-rat LD50:1510 mg/kg JIHTAB 23,259,41

orl-gpg LD50:390 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion. A severe eye irritant. Flammable when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO_2 , dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.**EJG000 CAS: 628-96-6 HR: 3****ETHYLENE GLYCOL DINITRATE**mf: $C_2H_4N_2O_6$ mw: 152.08**PROP:** Yellow liquid. Mp: -22.3° , bp: 105.5° @ 19 mm, explodes @ 114° , d: 1.483 @ 8° , vap d: 5.25. IDLH 75 mg/m^3 .**SYNS:** DINITROGLICOL (ITALIAN) □ DINITROGLYCOL □ EGDN □ ETHANEDIOL DINITRATE □ ETHYLENE DINITRATE □ ETHYLENE NITRATE □ ETHYLENGLY-

KOLDINITRAT (CZECH) □ GLYCOLDINITRAAT (DUTCH) □ GLYCOL DINITRATE □ GLYCOL (DINITRATE DE) (FRENCH) □ GLYKOLDINITRAT (GERMAN) □ NITROGLYCOL □ NITROGLYKOL (CZECH)

TOXICITY DATA with REFERENCE:

scu-cat LDLo:50 mg/kg AEPPAE 200,271,42

scu-rbt LDLo:300 mg/kg AEPPAE 200,271,42

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: STEL 0.1 mg/m³ (skin)

ACGIH TLV: TWA 0.05 ppm (skin)

DFG MAK: 0.05 ppm (0.32 mg/m³)

NIOSH REL: (Nitroglycerin) CL 0.1 mg/m³/20M

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: Poison by subcutaneous route. Can cause lowered blood pressure leading to headache, dizziness, and weakness. Used as an explosive. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #43 or NIOSH: Nitroglycerin and Ethylene Glycol Dinitrate, 2507.

EJG500 CAS: 26560-94-1 HR: 2
ETHYLENE GLYCOL MALEATE

mf: C₆H₈O₅ mw: 160.14

PROP: Yellow liquid.

SYNS: ETHYLENE GLYCOL, MONO(HYDROGEN MALEATE) □ 2-HYDROXYETHYL ESTER MALEIC ACID □ MONO(HYDROXYETHYL) ESTER MALEIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,657,86

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

orl-rat LD50:2460 mg/kg AMIHBC 10,61,54

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. See also ESTERS.

EJH000 CAS: 868-77-9 HR: 2
ETHYLENE GLYCOL METHACRYLATE

mf: C₆H₁₀O₃ mw: 130.16

PROP: Bp: 71–73° @ 2 mm.

SYNS: ETHYLENE GLYCOL, MONOMETHACRYLATE □ GLYCOL METHACRYLATE □ GLYCOL MONOMETHACRYLATE □ 2-HYDROXYETHYL ESTER METHACRYLIC ACID □ HYDROXYETHYL METHACRYLATE □ β-HYDROXYETHYL METHACRYLATE □ 2-HYDROXYETHYL METHACRYLATE □ MHOROMER □ MONOMER MG-1 □ MONOMETHACRYLIC ETHER of ETHYLENE GLYCOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:5050 mg/kg GISAAA 54(9),75,89

ipr-rat LD50:1250 mg/kg AMPMAR 36,58,75

orl-mus LD50:3275 mg/kg GISAAA 54(9),75,89

ipr-mus LD50:497 mg/kg JPMSAE 62,778,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion.

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

EJH500 CAS: 109-86-4 HR: 3
ETHYLENE GLYCOL METHYL ETHER

DOT: UN 1188

mf: C₃H₈O₂ mw: 76.11

CH₃OC₂H₄OH

PROP: Colorless liquid; mild, agreeable odor. Misc in water, alc, ether, benzene. Bp: 124.5°, fp: -86.5°, flash p: 115°F (OC), lel: 2.5%, uel: 14%, d: 0.9660 @ 20°/4°, autoign temp: 545°F, vap press: 6.2 mm @ 20°, vap d: 2.62. IDLH 200 ppm.

SYNS: AETHYLENGLYKOL-MONOMETHYLAETHER (GERMAN) □ DOWANOL EM □ EGM □ EGME □ ETHER MONOMETHYLIQUE de l'ETHYLENE-GLYCOL (FRENCH) □ ETHYLENE GLYCOL MONOMETHYL ETHER (MAK, DOT) □ GLYCOL ETHER EM □ GLYCOL METHYL ETHER □ GLYCOL MONOMETHYL ETHER □ JEFFERSOL EM □ MECS □ 2-METHOXY-AETHANOL (GERMAN) □ 2-METHOXYETHANOL (ACGIH) □ METHOXYHYDROXYETHANE □ METHYL CELLOSOLVE (OSHA, DOT) □ METHYL ETHOXOL □ METHYL GLYCOL □ METHYL GLYKOL (GERMAN) □ METHYL OXITOL □ METIL CELLOSOLVE (ITALIAN) □ METOKSYETYLOWY ALKOHOL (POLISH) □ 2-METOSSETANOLO (ITALIAN) □ MONOMETHYL ETHER of ETHYLENE GLYCOL □ POLY-SOLV EM □ PRIST

TOXICITY DATA with REFERENCE:

skn-rbt 483 mg/24H MLD TXAPA9 19,276,71

eye-rbt 500 mg/24H MLD 85JCAE -,623,86

eye-gpg 10 µg MLD JPPMAB 11,150,59

dlt-rat-orl 500 mg/kg ENMUDM 6,390,84

spm-rat-orl 500 mg/kg ENMUDM 6,390,84

spm-mus-orl 500 mg/kg ENMUDM 6,390,84

ihl-rat TCLo:25 ppm/7H (female 7-13D post):REP TJADAB 27,65A,83

orl-mky TDLo:930 mg/kg (female 20-45D post):TER TJADAB 35,66A,87

orl-hmn LDLo:3380 mg/kg JIHTAB 28,267,46

ihl-hmn TCLo:25 ppm:CNS JIHTAB 20,134,38

orl-rat LD50:2460 mg/kg JIHTAB 23,259,41

ihl-rat LC50:1500 ppm/7H NPPIR*1,57,74

ipr-rat LD50:2500 mg/kg NPPIR*1,57,74

ivn-rat LD50:2140 mg/kg AMIHAB 14,114,56

orl-mus LD50:2560 mg/kg GTPZAB 32(3),48,88

ihl-mus LC50:1480 ppm JIHTAB 25,157,43

ipr-mus LD50:2147 mg/kg FEPA7 6,342,47

orl-rbt LD50:890 mg/kg AMIHAB 14,114,56

skn-rbt LD50:1280 mg/kg NPPIR*1,57,74

orl-gpg LD50:950 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Community Right-To-Know List.

OSHA PEL: TWA 25 ppm (skin)

ACGIH TLV: TWA 5 ppm (skin)

DFG MAK: 5 ppm (16 mg/m³)

NIOSH REL: TWA (Glycol Ethers) Reduce to lowest level

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic to humans by ingestion. Moderately toxic experimentally by ingestion, inhalation, skin contact, intraperitoneal, and intravenous routes. Human systemic effects by inhalation: change in

motor activity, tremors, and convulsions. Experimental teratogenic and reproductive effects. A skin and eye irritant. Mutation data reported. When used under conditions that do not require the application of heat, this material probably presents little hazard to health. However, in the manufacture of fused collars which require pressing with a hot iron, cases have been reported showing disturbance of the hemopoietic system with or without neurological signs and symptoms. The blood picture may resemble that produced by exposure to benzene. Two cases reported had severe aplastic anemia with tremors and marked mental dullness. The persons affected had been exposed to vapors of methyl "Cellosolve," ethanol, methanol, ethyl acetate, and petroleum naphtha.

Flammable liquid when exposed to heat or flame. A moderate explosion hazard. Can react with oxidizing materials to form explosive peroxides. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #53 or NIOSH: Alcohols IV, 1403.

EJI000 CAS: 542-59-6 HR: 2
ETHYLENE GLYCOL MONOACETATE

mf: C₄H₈O₃ mw: 104.12

PROP: Colorless, almost odorless liquid. Bp: 187–189°, flash p: 215°F (OC), d: 1.108 @ 15°, vap d: 3.59. Misc in EtOH and H₂O.

SYNS: 1,2-ETHANEDIOL, MONOACETATE □ ETHYLENE GLYCOL ACETATE □ GLYCOL MONOACETATE □ GLYCOL-MONOACETIN □ 2-HYDROXYETHYL ACETATE

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg SEV AJOPAA 29,1363,46
orl-rat LD50:8250 mg/kg JIHTAB 23,259,41
ipr-mus LD50:1310 mg/kg JPETAB 90,338,47
orl-gpg LD50:3800 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A severe eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, foam, water, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

EJI500 CAS: 622-08-2 HR: 2
ETHYLENE GLYCOL MONOBENZYL ETHER

mf: C₉H₁₂O₂ mw: 152.21

PROP: Water-white oily liquid; faint rose-like odor. Mp: –75°, bp: 137–138° @ 17 mm, flash p: 265°F (OC), d: 1.068, autoign temp: 665°F, vap d: 5.25.

SYNS: BENZYL "CELLOSOLVE" □ BENZYLCELOSOLV □ 2-BENZYLOXYETHANOL

TOXICITY DATA with REFERENCE:

eye-rbt 2 mg SEV AJOPAA 29,1363,46
orl-rat LD50:1190 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

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 CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

EJJ000 CAS: 7795-91-7 HR: 2
ETHYLENE GLYCOL MONO-sec-BUTYL ETHER

mf: C₆H₁₄O₂ mw: 118.20

SYN: 2-sec-BUTOXYETHANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:790 mg/kg SCCUR* -,5,61
orl-mus LD50:1660 mg/kg SCCUR* -,5,61

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.

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

EJJ100 CAS: 68586-17-4 HR: 2
ETHYLENE GLYCOL MONO-DICYCLOPENTENYL ETHER

mf: C₁₂H₁₈O₂ mw: 194.30

SYNS: ETHANOL, 2-((2,3,3A,4,7,7A(OR 3A,4,5,6,7,7A)-HEXAHYDRO-4,7-METHANO-1H-INDENYL)OXY)- □ 2-((2,3,3A,4,7,7A(OR 3A,4,5,6,7,7A)-HEXAHYDRO-4,7-METHANO-1H-INDENYL)OXY)ETHANOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/24H MOD NTIS** OTS0534787
eye-rbt 100 µL/24H SEV NTIS** OTS0534787
orl-rat LD50:2500 mg/kg NTIS** OTS0534787
skn-rbt LD50:1 g/kg NTIS** OTS0534787

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

EJJ500 CAS: 110-49-6 HR: 3
ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE

DOT: UN 1189

mf: C₅H₁₀O₃ mw: 118.15

PROP: Colorless liquid; pleasant, sweet, ether odor. Bp: 143°, fp: –70°, flash p: 111°F (CC), d: 1.005 @ 20°/20°, vap d: 4.07, lel: 1.7%, uel: 8.2%. Sol in water. IDLH 200 ppm.

SYNS: ACETATE de l'ETHER MONOMETHYLIQUE de l'ETHYLENE-GLYCOL (FRENCH) □ ACETATE de METHYLE GLYCOL (FRENCH) □ ACETATO di METIL CELLOSOLVE (ITALIAN) □ AETHYLENGLYKOLMETHYLAETHERACETAT (GERMAN) □ ETHYLENE GLYCOL METHYL ETHER ACETATE □ GLYCOL ETHER EM ACETATE □ GLYCOL MONOMETHYL ETHER ACETATE □ MeCsAc □ 2-METHOXYAETHYLACETAT (GERMAN) □ 2-METHOXYETHANOL, ACETATE □ 2-METHOXYETHYL ACETAAT (DUTCH) □ 2-METHOXYETHYL ACETATE (ACGIH) □ 2-METHOXYETHYLE, ACETATE de (FRENCH) □ METHYL CELLOSOLYE ACETAAT (DUTCH) □ METHYL CELLOSOLVE ACETATE (OSHA, DOT) □ METHYL GLYCOL ACETATE □ METHYL GLYCOL MONOACETATE □ METHYLGLYKOLACETAT (GERMAN) □ 2-METOSSIELILACETATO (ITALIAN)

TOXICITY DATA with REFERENCE:

eye-rbt 218 mg MLD UCDS** 3/20/73
 sln-smc 56,600 ppm MUREAV 149,339,85
 ihl-hmn TCLo:1000 mg/m³:EYE,PUL AGGHAR 5,1,33
 orl-rat LD50:3390 mg/kg JIHTAB 30,63,48
 ihl-rat LCLo:7000 ppm/4H JIHTAB 30,63,48
 ipr-rat LDLo:1200 mg/kg JPPMAB 11,150,59
 ihl-cat LCLo:6 g/m³/7H AGGHAR 5,1,33
 scu-cat LDLo:3000 mg/kg AGGHAR 5,1,33
 skn-rbt LD50:5250 mg/kg UCDS** 3/20/73
 orl-gpg LD50:1250 mg/kg JIHTAB 23,259,41
 scu-gpg LDLo:5000 mg/kg AGGHAR 5,1,33

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 25 ppm (skin)

ACGIH TLV: TWA 5 ppm (skin)

DFG MAK: 5 ppm (25 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. Mildly toxic by inhalation and skin contact. Human systemic effects by inhalation: eye lachrymation, cough, and pulmonary changes. Experimental reproductive effects. Mutation data reported. An inhalation irritant in humans. An eye irritant. Flammable liquid when exposed to heat or flame; can react with oxidizing materials. A moderate explosion hazard. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #53 or NIOSH: Methyl Cellosolve Acetate S39.

EJK000 CAS: 10137-96-9 HR: 2
ETHYLENE GLYCOL MONO-2-METHYLPENTYL ETHER

mf: C₈H₁₈O₂ mw: 146.26

SYNS: ETHYLENE GLYCOL MONOMETHYLPENTYL ETHER
 □ 2-METHYLPENTYL CELLOSOLVE □ 2-(2-METHYLPENTYL)-OXY)ETHANOL

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62
 eye-rbt 100 mg SEV 34ZIAG -,729,69
 orl-rat LD50:3730 mg/kg AIHAAP 23,95,62
 skn-rbt LD50:440 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.

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

EJK100 CAS: 53987-27-2 HR: 2
ETHYLENE GLYCOL MONONITRATE VINYL ETHER

mf: C₄H₇NO₄ mw: 133.12

SYNS: ETHANOL, 2-(ETHENYLOXY)-, NITRATE □ 2-(ETHENYLOXY)ETHANOL NITRATE □ 2-(VINILOXY)ETHYL NITRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1840 mg/kg STGNBT-,37,1999

ihl-rat LC50:3850 mg/m³ STGNBT-,37,1999
 ipr-rat LD50:1240 mg/kg STGNBT-,37,1999
 scu-rat LD50:1770 mg/kg STGNBT-,37,1999
 orl-mus LD50:2220 mg/kg STGNBT-,37,1999
 ihl-mus LC50:3310 mg/m³ STGNBT-,37,1999
 ipr-mus LD50:1600 mg/kg STGNBT-,37,1999
 scu-mus LD50:1560 mg/kg STGNBT-,37,1999
 orl-rbt LD50:1410 mg/kg STGNBT-,37,1999

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

EJK500 CAS: 23495-12-7 HR: 1
ETHYLENEGLYCOL MONOPHENYL ETHER PROPIONATE

mf: C₁₁H₁₄O₃ mw: 194.25

SYNS: 2-PHENOXYETHANOL PROPIONATE □ PHENOXYETHYL PROPIONATE □ PROPIONIC ACID-2-PHENOXYETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:4400 mg/kg FCTXAV 14,659,76

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

EJL000 CAS: 10137-98-1 HR: 2
ETHYLENE GLYCOL MONO-2,6,8-TRIMETHYL-4-NONYL ETHER

mf: C₁₄H₃₀O₂ mw: 230.44

SYN: 2-((1-ISOBUTYL-3,5-DIMETHYLHEXYL)OXY)ETHANOL

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62
 orl-rat LD50:5360 mg/kg AIHAAP 23,95,62
 skn-rbt LD50:3150 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.

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

EJL500 CAS: 764-48-7 HR: 2
ETHYLENE GLYCOL MONOVINYL ETHER

mf: C₄H₈O₂ mw: 88.12

SYNS: 2-(ETHENYLOXY)ETHANOL □ ETHYLENE GLYCOL VINYL ETHER □ ETHYLENEGLYCOL MONOVINYL ESTER (RUSSIAN) □ 2-HYDROXYETHYL VINYL ETHER □ MVEEG (RUSSIAN) □ VINILOXYETHANOL □ 2-(VINILOXY)ETHANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:3910 mg/kg GISAAA (3),12,77
 orl-mus LD50:2900 mg/kg GISAAA (3),12,77
 ihl-mus LC50:29 g/m³ GISAAA 39(11),94,74

CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by inhalation. When heated to decomposition

it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

EJL600 CAS: 6192-44-5 HR: 3
ETHYLENE GLYCOL PHENYL ETHER
ACETATE

mf: $C_{10}H_{12}O_3$ mw: 180.22

SYNS: 2-PHENOXYETHANOL ACETATE □ ACETIC ACID 2-PHENOXYETHYL ESTER □ ETHANOL, 2-PHENOXY-, ACETATE □ 2-PHENOXYETHYL ACETATE □ 2-PHENOXYETHYLESTER KYSELINÝ OCTOVE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4900 μ L/kg JPETAB 93,26,48

skn-rat LD50:9 mL/kg JPETAB 93,26,48

orl-mus LD50:3700 μ L/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.

EJM000 CAS: 17622-94-5 HR: 2
ETHYLENE GLYCOL SILICATE

mf: $C_8H_{20}O_8Si$ mw: 272.37

SYNS: TETRAGLYCOL SILICATE □ TETRAKIS(β -HYDROXY-ETHYL)SILICATE □ TETRAKIS(2-HYDROXYETHYL)SILICATE

TOXICITY DATA with REFERENCE:

ivn-dog LDLo:568 mg/kg BIJOAK 27,1007,33

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EJM500 CAS: 111-60-4 HR: 3
ETHYLENE GLYCOL STEARATE

mf: $C_{20}H_{40}O_3$ mw: 328.60

SYNS: CLINDROL SEG □ EMEREST 2350 □ EMPILAN 2848 □ ETHYLENE GLYCOL, MONOSTEARATE □ GLYCOL MONO-STEARATE □ GLYCOL STEARATE □ 2-HYDROXYETHYL ESTER STEARIC ACID □ IVORIT □ LIPO EGMS □ MONTHY-BASE □ MONTHYLE □ PARASTARIN □ PRODHYBASE ETHYL □ S 151 □ SEDETOL □ STEARIC ACID, MONOESTER with ETHYLENE GLYCOL □ TEGO-STEARATE □ USAF KE-11

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD JACTDZ 1(2),1,82

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. A skin irritant. Used in cosmetics. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

EJM900 CAS: 151-56-4 HR: 3
ETHYLENEIMINE

DOT: UN 1185

mf: C_2H_5N mw: 43.08

PROP: Oily, water-white liquid. Pungent ammonia-like odor. Bp: 55–56°, fp: –71.5°, flash p: 12°F, d: 0.832 @ 20°/4°, autoign temp: 608°F, vap press: 160 mm @ 20°, vap d: 1.48, lel: 3.6%, uel: 46%. Misc in water. IDLH 100 ppm.

SYNS: AETHYLENIMIN (GERMAN) □ AMINOETHYLENE □ AZACYCLOPROPANE □ AZIRANE □ AZIRIDIN (GERMAN) □ AZIRIDINE □ DIHYDROAZIRENE □ DIHYDRO-1H-AZIRINE □ DIMETHYLENEIMINE □ DIMETHYLENIMINE □ EI □ ENT 50,324 □ ETHYLEENIMINE (DUTCH) □ ETHYLENE IMINE, INHIBITED (DOT) □ ETHYLENIMINE □ ETHYLIMINE □ ETILENIMINA (ITALIAN) □ RCRA WASTE NUMBER P054 □ TL 337

TOXICITY DATA with REFERENCE:

eye-mus 2 ppm/1M JIHTAB 30,7,48

skn-rbt 10 mg/24H open JIHTAB 30,63,48

eye-rbt 2 mg SEV AJOPAA 29,1363,46

sln-dmg-mul 1 pph/8H-C GNKAA5 21,958,85

mnt-nml-mul 5000 ppm/8D-C MUREAV 125,275,84

cyt-hmn:lng 1 μ mol/L EVSRBT 24,433,81

dns-mus-par 5 mg/kg EVSRBT 24,943,81

dlt-mus-ipr 5 mg/kg EVSRBT 24,943,81

msc-ham:ovr 2 mg/L MUREAV 94,449,82

scu-rat TDLo:20 mg/kg/67D-I:NEO BJPCAL 9,306,54

orl-mus TDLo:6500 μ g/kg/5D-I:CAR VOONAW 27(5),88,81

orl-mus TDLo:235 mg/kg/76W-C:CAR JNCIAM 42,1101,69

scu-rat TD:10 mg/kg/8W-I:ETA BJPCAL 9,306,54

orl-rat LD50:15 mg/kg JIHTAB 23,259,41

ihl-rat LC50:100 mg/m³/2H 85GMAT -67,82

ipr-rat LD50:3500 μ g/kg BJPCAL 21,581,63

ihl-mus LC50:400 mg/m³/2H 85GMAT -,67,82

ihl-rbt LCLo:100 mg/m³/2H 85GMAT -,67,82

skn-rbt LDLo:10 mg/kg 85GMAT -,67,82

ihl-gpg LCLo:25 ppm/8H JIHTAB 30,2,48

skn-gpg LD50:14 mg/kg JIHTAB 30,63,48

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 9,37,75. Community Right-To-Know List. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 1 mg/m³ (skin); Cancer Suspect Agent

ACGIH TLV: TWA 0.5 ppm (skin); Animal Carcinogen

DFG MAK: DFG TRK: Animal Carcinogen, Suspected Human Carcinogen

NIOSH REL: (Ethyleneimine) TWA use 29 CFR 1910.1012

DOT CLASSIFICATION: 6.1; Label: Poison, Flammable Liquid

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. Other experimental reproductive effects. Poison by ingestion, skin contact, inhalation, and intraperitoneal routes. Human mutation data reported. A skin, mucous membrane, and severe eye irritant. An allergic sensitizer of skin. Causes opaque cornea, keratoconus, and necrosis of cornea (experimentally). Has been known to cause severe human eye injury. Drinking of carbonated beverages is recommended as an antidote to this material in stomach.

A very dangerous fire and explosion hazard when exposed to heat, flame, or oxidizers. Reacts violently with acids, aluminum chloride + substituted anilines, acetic acid, acetic anhydride, acrolein, acrylic acid, allyl chloride, CS₂, Cl₂, chlorosulfonic acid, epichlorohydrin, glyoxal,

HCl, HF, HNO₃, oleum, β-propiolactone, Ag, NaOCl, H₂SO₄, vinyl acetate. Reacts with chlorinating agents (e.g., sodium hypochlorite solution) to form the explosive 1-chloroaziridine. Reacts with silver or its alloys to form explosive silver derivatives. Dangerous; heat and/or the presence of catalytically active metals or chloride ions can cause a violent exothermic reaction. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ethylenimine, P&CAM 300.

EJM950 CAS: 9006-26-2 HR: 1
ETHYLENE MALEIC ANHYDRIDE CO-POLYMER

SYNS: EMA 1605 □ ETHYLENE, POLYMER WITH MALEIC ANHYDRIDE □ 2,5-FURANDIONE, POLYMER WITH ETHENE □ MALEIC ANHYDRIDE, POLYMER WITH ETHYLENE □ SHOLEX ET 182 □ POLY(ETHYLENE-MALEIC ANHYDRIDE) □ POLYETHYLENE MALEIC ANHYDRIDE COPOLYMER □ RPC 1022 □ WCZ 628

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H MLD NTIS** OTS0555210
 orl-rat LD :>10 g/kg NTIS** OTS0555210
 skn-rbt LD :>7940 mg/kg NTIS** OTS0555210

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

EJN400 CAS: 13279-24-8 HR: 3
N,N-ETHYLENE-N'-METHYLUREA

mf: C₄H₈N₂O mw: 100.14

SYNS: 1-AZIRIDINECARBOXAMIDE, N-METHYL- □ N-METHYL-1-AZIRIDINECARBOXAMIDE □ N-METHYL-ETHYLENEUREA

TOXICITY DATA with REFERENCE:

ipr-rat LD50:90 mg/kg BJPCAL 21,581,63

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

EJN500 CAS: 75-21-8 HR: 3
ETHYLENE OXIDE

DOT: UN 1040

mf: C₂H₄O mw: 44.06

PROP: Colorless gas at room temperature. Mp: -111.3°, bp: 10.7°, ULC: 100, lel: 3.0%, uel: 100%, flash p: -4°F, d: 0.8711 @ 20°/20°, autoign temp: 804°F, vap press: 1095 mm @ 20°, vap d: 1.52. Misc in water and alc; very sol in ether. IDLH 800 ppm.

SYNS: AETHYLENOXID (GERMAN) □ AMPROLENE □ ANPROLENE □ ANPROLINE □ DIHYDROOXIRENE □ DIMETHYLENE OXIDE □ ENT 26,263 □ E.O. □ 1,2-EPOXYAETHAN (GERMAN) □ EPOXYETHANE □ 1,2-EPOXYETHANE □ ETHENE OXIDE □ ETHYLEENOXIDE (DUTCH) □ ETHYLENE (OXYDE d) (FRENCH) □ ETILENE (OSSIDO d) (ITALIAN) □ ETO □ ETYLENU TLENEK (POLISH) □ FEMA No. 2433 □ MERPOL □ NCI-C50088 □ OXACYCLOPROPANE □ OXANE □ OXIDOETHANE □ α,β-OXIDOETHANE □ OXIRAAN (DUTCH) □ OXIRANE □ OXYFUME □ OXYFUME 12 □ RCRA WASTE NUMBER U115 □ STERILIZING GAS ETHYLENE OXIDE 100% □ T-GAS

TOXICITY DATA with REFERENCE:

skn-hmn 1%/7S AMIHBC 2,549,50
 eye-rbt 18 mg/6H MOD BUYRAI 31,25,77
 mmo-omi 540 mg/L 47YKAF 8,273,84
 dns-hmn:leu 4 mmol/L CBINA8 47,265,83
 sce-hmn:lym 4 pph TCMUD8 6,15,86
 sce-hmn:lym 10 mg/L PHMGBN 25,214,82
 dnd-mus-ipr 100 mg/kg ENMUDM 8(Suppl 6),74,86
 dlt-mus-ihl 500 ppm/6H/4D-C ENMUDM 8,1,86
 ihl-mus TDLo:50 ppm/6H/2Y:CAR tumors NTPTR* NTP-TR-326,87
 ihl-hmn TCLo:12,500 ppm/10S:NOSE JOHYAY 32,409,32
 ihl-wmn TCLo:500 ppm/2M:CNS,GIT,PUL DICPBB 15,384,81
 orl-rat LD50:72 mg/kg SPEADM 78-1,17,78
 ihl-rat LC50:800 ppm/4H 34ZIAG -,258,69
 scu-rat LD50:187 mg/kg GISAAA 48(1),23,83
 ihl-mus LC50:836 ppm/4H NTIS** PB214-270
 ipr-mus LD50:175 mg/kg GISAAA 48(1),23,83
 ivn-mus LD50:290 mg/kg APTOA6 43,69,78
 ihl-dog LC50:960 ppm/4H AMIHAB 13,237,56
 scu-cat LDLo:100 mg/kg HDWU** -,33
 ivn-rbt LDLo:175 mg/kg JOHYAY 32,409,32
 ihl-gpg LC50:1500 mg/m³/4H 85GMAT -,67,82

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2A IMEMDT 7,205,87; Animal Inadequate Evidence IMEMDT 11,157,76; Human Inadequate Evidence IMEMDT 36,189,85; Animal Sufficient Evidence IMEMDT 36,189,85. Community Right-To-Know List. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 1 ppm; Cancer Hazard

ACGIH TLV: TWA 1 ppm; Suspected Human Carcinogen

DFG MAK: DFG TRK: Animal Carcinogen, Suspected Human Carcinogen

NIOSH REL: (Ethylene Oxide) TWA 0.1 ppm; CL 5 ppm/10M/D

DOT CLASSIFICATION: 2.3; Label: Poison Gas, Flammable Gas

SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic, tumorigenic, neoplastigenic, and teratogenic data. Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by inhalation. Human systemic effects by inhalation: convulsions, nausea, vomiting, olfactory and pulmonary changes. Experimental reproductive effects. Mutation data reported. A skin and eye irritant. An irritant to mucous membranes of respiratory tract. High concentrations can cause pulmonary edema.

Highly flammable liquid or gas. Severe explosion hazard when exposed to flame. To fight fire, use alcohol foam, CO₂, dry chemical. Violent polymerization occurs on contact with ammonia, alkali hydroxides, amines, metallic potassium, acids, covalent halides (e.g., aluminum chloride, iron(III) chloride, tin(IV) chloride, aluminum oxide, iron oxide, rust). Explosive reaction with glycerol at 200°. Rapid compression of the vapor with air causes explosions. Incompatible with bases, alcohols, air, m-nitroaniline, trimethyl amine, copper, iron chlorides, iron oxides, magnesium perchlorate, mercaptans, potassium, tin chlorides, contaminants, alkane thiols, bromoethane.

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

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #30, SUPERSEDED BY #50 or NIOSH: Ethylene Oxide, 1614; (Portable GC), 3702.

EJO000 CAS: 8070-50-6 HR: 3
ETHYLENE OXIDE, mixed with CARBON DIOXIDE

DOT: UN 1041/UN 1952

PROP: Contains less than 10% carbon dioxide (NTIS** PB225-283).

SYNS: ANHYDRIDE CARBONIQUE et OXYDE d'ETHYLENE MELANGES (FRENCH) □ ETHYLENE OXIDE and CARBON DIOXIDE MIXTURES (DOT) □ OXYFUME 20 □ OXYFUME 30

TOXICITY DATA with REFERENCE:

ihl-mus LC50:836 ppm/4H NTIS** PB214-270

ihl-dog LC50:973 ppm/4H NTIS** PB214-270

ihl-gpg LCLo:7000 ppm/2.5H PHRPA6 45,1832,30

DOT CLASSIFICATION: 2.1; Label: Flammable Gas (UN 1041)

SAFETY PROFILE: A poison. Mildly toxic by inhalation. Used for the sterilization of vacuum chambers. See also ETHYLENE OXIDE.

EJO025 HR: D
ETHYLENE OXIDE POLYMER

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

EJO500 CAS: 289-14-5 HR: 3
ETHYLENE OZONIDE

mf: C₂H₄O₃ mw: 76.05



SYN: 1,2,4-TRIOXOLANE

SAFETY PROFILE: Explodes violently on heating, friction, or shock. Explodes at room temperature. Stable at 0°C. May explode when poured. When heated to decomposition it emits acrid smoke and irritating fumes. See also OZONE.

EJP000 CAS: 1072-53-3 HR: 2
ETHYLENE SULFATE

mf: C₂H₄O₄S mw: 124.12

PROP: Crystals from CHCl₃. Mp: 96.5–97.5°, bp: 110–142° @ 3 mm.

SYNS: 2,2-DIOXIDE-1,3,2-DIOXATHIOLANE □ ETHYLENE GLYCOL, CYCLIC SULFATE □ GLYCOL SULFATE □ SULFURIC ACID, CYCLIC ETHYLENE ESTER

TOXICITY DATA with REFERENCE:

mmo-sat 1 μmol/plate CBINA8 19,241,77

hma-mus/sat 5 mmol/kg CBINA8 19,241,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x. See also SULFATES and ESTERS.

EJP500 CAS: 420-12-2 HR: 3
ETHYLENE SULFIDE

mf: C₂H₄S mw: 60.12

PROP: Colorless liquid. Bp: 55–56° decomp, d: 1.0368 @ 0°/4°, vap d: 2.07.

SYNS: AETHYLENSULFID (GERMAN) □ 2,3-DIHYDRO-THIURENE □ ETHYLENE EPISULFIDE □ ETHYLENE EPISULPHIDE □ ETHYLENE SULPHIDE □ THIACYCLO-PROPANE □ THIRANE

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg SEV AJOPAA 29,1363,46

orl-rat LD50:178 mg/kg AIHAAP 25,560,64

ihl-rat LC50:690 ppm/6H BECTA6 6,509,71

ipr-rat LD50:42 mg/kg AIHAAP 25,560,64

scu-rat LD50:90 mg/kg ZEKBAI 74,241,70

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 11,257,76. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and subcutaneous routes. Mildly toxic by inhalation. A skin, eye, and mucous membrane irritant. Questionable carcinogen with experimental tumorigenic data. Can react with oxidizing materials. When heated to decomposition, or on contact with acid or acid fumes, it emits highly toxic fumes of SO_x. See also SULFIDES.

EJQ000 CAS: 33813-20-6 HR: 3
ETHYLENE THIURAM MONOSULFIDE

mf: C₄H₄N₂S₃ mw: 176.28

PROP: Yellow crystals or powder from CHCl₃. Mp: 121–124°.

SYNS: 5,6-DIHYDRO-3H-IMIDAZO(2,1-c)-1,2,4-DITHIAZOLE-3-THIONE □ ENDODAN □ ETEM □ ETHYLENE BISTHIURAM MONOSULFIDE □ ETHYLENETHIOCARBAMYL SULFIDE □ ETHYLENE THIURAM MONOSULPHIDE □ ETM □ ETM (heterocycle) □ HORTOCRITT

TOXICITY DATA with REFERENCE:

mma-sat 7500 ng/plate MUREAV 157,13,85

mrc-bcs 2 μg/disc/24H MUREAV 40,19,76

sce-hmn:lym 20 mg/L MUREAV 157,13,85

cyt-ham-orl 93 mg/kg MUREAV 157,13,85

orl-rat LD50:380 mg/kg ATSUDG 4,459,80

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion. Experimental reproductive effects. Human mutation data reported. Used as a pesticide. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also SULFIDES.

EJQ100 CAS: 822-38-8 HR: 2
ETHYLENE TRITHIOCARBONATE

mf: C₃H₄S₃ mw: 136.25

SYNS: CARBONIC ACID, TRITHIO-, CYCLIC ETHYLENE ESTER □ CYCLIC ETHYLENE TRITHIOCARBONATE □ 1,3-DITHIOLANE-2-THIONE □ TRITHIOCARBONIC ACID, CYCLIC ETHYLENE ESTER

TOXICITY DATA with REFERENCE:

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EJQ500 CAS: 105-95-3 HR: 1
ETHYLENE UNDECANE DICARBOXYLATE

mf: C₁₅H₂₆O₄ mw: 270.41

SYNS: ASTRATONE □ EMERESSENCE 1150 □ ETHYLENE BRASSYLATE □ MUSK-T □ TRIDECANEDIOIC ACID, CYCLIC ETHYLENE ESTER □ 1,1'-UNDECANEDICARBOXYLIC ACID ESTER with ETHYLENE GLYCOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 13,91,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EJR500 CAS: 530-35-8 HR: 3
1-N-ETHYLEPHEDRINE HYDROCHLORIDE

mf: C₁₂H₁₉NO•ClH mw: 229.78

PROP: Crystals. Mp: 183–184°.

SYNS: α-(1-(ETHYLMETHYLAMINO)ETHYL)BENZYL ALCOHOL HYDROCHLORIDE (–) □ MENETYL □ 2-METHYLETHYLAMINO-1-PHENYL-1-PROPANOL HYDROCHLORIDE □ NETHAMINE HYDROCHLORIDE □ NOVEDRIN HYDROCHLORIDE □ 1-1-PHENYL-2-METHYLETHYLAMINOPROPAN-1-OL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rbt LDLo:550 mg/kg JPETAB 75,289,42

ivn-rbt LD50:70 mg/kg JAPMA8 39,382,50

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes such as Cl[–] and NO_x.

EJS000 CAS: 19780-35-9 HR: 2
ETHYL-2,3-EPOXYBUTYRATE

mf: C₆H₁₀O₃ mw: 130.16

PROP: A liquid. Bp: 106.5° @ 73 mm.

SYN: 2,3-EPOXYBUTYRIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

mmo-sat 5 g/L MUREAV 89,269,81

orl-rat LD50:500 mg/kg AIHAAP 24,305,63

skn-rbt LDLo:2830 mg/kg AIHAAP 24,305,63

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

EJS100 CAS: 67658-42-8 HR: 3
(8-β)-6-ETHYLERGOLINE-8-ACETAMIDE TARTRATE

mf: C₁₈H₂₃N₃O•C₄H₆O₆ mw: 447.54

SYN: ERGOLINE-8-ACETAMIDE, 6-ETHYL-, (8-β)-, (R-(R*,R*))-, 2,3-DIHYDROXYBUTANEDIOATE (1:1)

TOXICITY DATA with REFERENCE:

orl-rat LD50:38,500 µg/kg CCCCAC 44,3385,79

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

EJT000 CAS: 67466-28-8 HR: 2
ETHYL ESTER of 1,2,5,6-DIBENZANTHRACENE-endo-α,β-SUCCINO GLYCINE

mf: C₃₀H₂₁NO₄ mw: 459.52

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

EJT500 HR: 2
ETHYL ESTER of 3-METHYLCHOLANTHRENE-endo-α,β-SUCCINOGLYCINE

mf: C₂₉H₂₃NO₄ mw: 449.53

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

EJT575 CAS: 64109-72-4 HR: 2
11-β-ETHYLESTRADIOL

mf: C₂₀H₂₈O₂ mw: 300.48

SYNS: ESTRA-1,3,5(10)-TRIENE-3,17-β-DIOL, 11-β-ETHYL- □ 11-β-ETHYLESTRA-1,3,5(10)-TRIENE-3,17-β-DIOL

TOXICITY DATA with REFERENCE:

otr-mus:fbr 30 µmol/L CNREA8 47,2583,87

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

EJT600 CAS: 965-90-2 HR: D
ETHYLESTRENOL

mf: C₂₀H₃₂O mw: 288.52

PROP: Crystals. Mp: 76–78°.

SYNS: DURABOLIN-O □ DURABOLIN □ ETHYLNANDROL □ MAXIBALIN □ MAXIBOLIN □ NEODURABOLIN □ ORABOLIN □ ORG-483 □ ORGABOLIN □ ORGABOLIN

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

EJU000 CAS: 60-29-7 HR: 3
ETHYL ETHER

DOT: UN 1155

mf: C₄H₁₀O mw: 74.14

CH₃CH₂OCH₂CH₃

PROP: A clear, volatile liquid; sweet, pungent odor. Mp: –116.2°, bp: 34.6°, ULC: 100, lel: 1.85%, uel: 36%, flash p: –49°F, d: 0.7135 @ 20°/4°, autoign temp: 320°F, vap press: 442 mm @ 20°, vap d: 2.56. Sol in H₂SO₄; sltly sol in H₂O; misc in most org solvs. IDLH 1900 ppm [10%LEL].

SYNS: AETHER □ ANAESTHETIC ETHER □ ANESTHESIA ETHER □ ANESTHETIC ETHER □ DIAETHYLAETHER (GERMAN) □ DIETHYL ETHER (DOT) □ DIETHYL OXIDE □

DWUETYLOWY ETER (POLISH) □ ETERE ETILICO (ITALIAN)
 □ ETHER □ ETHER ETHYLIQUE (FRENCH) □
 ETHOXYETHANE □ 1,1'-OXYBIETHANE □ OXYDE
 d'ETHYLE (FRENCH) □ RCRA WASTE NUMBER U117 □
 SOLVENT ETHER

TOXICITY DATA with REFERENCE:

eye-hmn 100 ppm JIHTAB 25,282,43
 skn-rbt 360 mg open MLD UCDS** 4/5/73
 eye-rbt 100 mg MOD FEPA7 35,729,76
 skn-gpg 50 mg/24H SEV HIFUAG 22,373,80
 dnr-esc 50 µL/well/16H CBINA8 15,219,76
 dyt-smc 100 mmol/tube HERAY 33,457,47
 oms-ham:fbr 1 pph ANESAV 43,21,75
 orl-man LDLo:260 mg/kg 85DCAI 2,73,70
 orl-hmn LDLo:420 mg/kg 32ZWAA 8,275,74
 ihl-hmn TCLo:200 ppm:NOSE JIHTAB 25,282,43
 orl-rat LD50:1215 mg/kg TXAP9 19,699,71
 ihl-rat LC50:73,000 ppm/2H TXAP9 17,275,70
 ihl-mus LC50:6500 ppm/99M TXAP9 17,275,70
 ipr-mus LD50:2420 mg/kg PWPSA8 27,511,84
 scu-mus LDLo:8 mg/kg HBAMAK 4,1295,35
 ivn-mus LD50:996 mg/kg JPMSAE 67,566,78
 ihl-dog LCLo:76,000 ppm HBAMAK 4,1294,35
 ihl-rbt LCLo:106,000 ppm HBAMAK 4,1294,35
 ipr-gpg LDLo:2000 mg/kg AIHAAP 35,21,74
 scu-frg LDLo:24 g/kg HBAMAK 4,1295,35

CONSENSUS REPORTS: IARC Cancer Review:
 Animal No Adequate Data IMEMDT 7,93,87. Reported
 in EPA TSCA Inventory. EPA Genetic Toxicology
 Program.

OSHA PEL: TWA 400 ppm; STEL 500 ppm

ACGIH TLV: TWA 400 ppm; STEL 500 ppm

DFG MAK: 400 ppm (1200 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic to humans by
 ingestion. Poison experimentally by subcutaneous route.
 Moderately toxic by intraperitoneal and intravenous
 routes. Mildly toxic by inhalation. Human systemic effects
 by inhalation: olfactory changes. Mutation data reported.
 A severe eye and moderate skin irritant. Ethyl ether is not
 corrosive or dangerously reactive. It must not be
 considered safe for individuals to inhale or ingest. It is a
 depressant of the central nervous system and is capable of
 producing intoxication, drowsiness, stupor, and
 unconsciousness. Death due to respiratory failure may
 result from severe and continued exposure.

A very dangerous fire and explosion hazard when
 exposed to heat or flame. A storage hazard. It auto-
 oxidizes to form explosive polymeric 1-oxy-peroxides.
 Explosive reaction with boron triazide, bromine
 trifluoride, bromine pentafluoride, perchloric acid, uranyl
 nitrate + light, wood pulp extracts + heat. Violent reaction
 or ignition on contact with halogens (e.g., bromine,
 chlorine), interhalogens (e.g., iodine heptafluoride),
 oxidants (e.g., silver perchlorate, nitrosyl perchlorate, nitryl
 perchlorate, chromyl chloride, fluorine nitrate,
 permanganic acid, nitric acid, hydrogen peroxide,
 peroxodisulfuric acid, iodine(VII) oxide, sodium peroxide,
 ozone, and liquid air), sulfur and sulfur compounds (e.g.,
 sulfur when dried with peroxidized ether, sulfuryl
 chloride). Can react vigorously with acetyl peroxide, air,
 bromoazide, ClF₃, CrO₃, Cr(OC₂)₂, LiAlH₂, NOClO₄, O₂,

NClO₂, (H₂SO₄ + permanganates), K₂O₂, [(C₂H₅)₃Al +
 air], [(CH₃)₃Al + air]. To fight fire, use alcohol foam, CO₂,
 dry chemical. Used in production of drugs of abuse. When
 heated to decomposition it emits acrid smoke and
 irritating fumes. See also ETHERS.

ANALYTICAL METHOD: For occupational chemical
 analysis use NIOSH: Ethyl Ether, 1610.

EJV000 CAS: 52125-53-8 HR: 2
ETHYL ETHER of PROPYLENE GLYCOL

mf: C₅H₁₂O₂ mw: 104.17

PROP: Vap d: 3.59.

SYNS: ETHOXYPROPANOL □ PROPANOL, ETHOXY-(9CI) □
 PROPYLENE GLYCOL MONOETHYL ETHER

TOXICITY DATA with REFERENCE:

eye-rbt 20 mg AJOPAA 29,1363,46

CONSENSUS REPORTS: Glycol ether compounds
 are on the Community Right-To-Know List.

SAFETY PROFILE: An eye irritant. Combustible
 when exposed to heat or flame; can react with oxidizers.
 When heated to decomposition it emits acrid smoke and
 irritating fumes. See also GLYCOL ETHERS.

EJV400 CAS: 39845-47-1 HR: 2
11-β-ETHYL-17-α-ETHINYLESTRADIOL

mf: C₂₂H₂₈O₂ mw: 324.50

SYN: 11-β-ETHYL-19-NOR-17-α-PREGNA-1,3,5(10)-TRIEN-20-
 YNE-3,17-DIOL

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

EJV500 CAS: 763-69-9 HR: 1
ETHYL-β-ETHOXYPROPIONATE

mf: C₇H₁₄O₃ mw: 146.21

PROP: Liquid. Mp: -100°, bp: 170.1°, flash p: 180°F
 (OC), d: 0.9496 @ 20°/20°, vap d: 5.03.

SYNS: ETHOXYPROPIONIC ACID, ETHYL ESTER □ 3-
 ETHOXYPROPIONIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

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

eye-rbt 500 mg open AMIHBC 4,119,51

orl-rat LD50:5000 mg/kg AMIHBC 4,119,51

skn-rbt LD50:10 g/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

SAFETY PROFILE: Mildly toxic by ingestion and skin
 contact. A skin and eye irritant. 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.

EJW500 CAS: 623-78-9 HR: 2
ETHYL-N-ETHYL CARBAMATE

mf: C₅H₁₁NO₂ mw: 117.17

PROP: A liquid. Bp: 170°.

SYN: ETHYL CARBAMIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

scu-mus LD50:860 mg/kg AJEBAK 45,507,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by subcutaneous routes. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES and ESTERS.

EJW600 CAS: 73928-12-8 HR: 3
ETHYL(5-ETHYLMERCURI-3-(1,2,4-THIADIAZOLYL)THIO)MERCURY(II)

mf: C₆H₁₀Hg₂N₂S₂ mw: 575.48

SYN: MERCURY(II), ETHYL(5-ETHYLMERCURI-3-(1,2,4-THIADIAZOLYL)THIO)-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:18 mg/kg CSLNX* NX#03326

ACGIH TLV: TWA 0.01. STEL 0.03 mg/m³ (skin)

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

EJY000 CAS: 17013-37-5 HR: 3
5-ETHYL-5-(1-ETHYLPROPYL)BARBITURIC ACID

mf: C₁₁H₁₈N₃O₃ mw: 240.32

SYNS: 5-ETHYL-5-(1-ETHYLPROPYL)2,4,6(1H,3H,5H)-PYRIMIDINETRIONE □ ISOMEBUMAL

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:110 mg/kg JPHAA3 26,317,37

ipr-rbt LDLo:75 mg/kg JACSAT 56,1139,34

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

EJZ000 CAS: 102584-01-0 HR: 3
1-ETHYL-4-(p-(p-((1-ETHYLPYRIDINIUM-4-YL)AMINO)-2-AMINOPHENYL)CARBAMOYL)CINNAMAMIDO)ANILINO)PYRIDINIUM, DIBROMIDE

mf: C₃₆H₃₇N₇O₂•2Br mw: 759.62

TOXICITY DATA with REFERENCE:

dnd-mus:lym 1500 nmol/L JMCMAR 22,134,79

ipr-mus LD10:7500 µg/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.

EKA000 CAS: 68772-29-2 HR: 3
1-ETHYL-4-(p-(p-((1-ETHYLPYRIDINIUM-4-YL)-AMINO)BENZAMIDO)ANILINO)QUINOLINIUM DIBROMIDE

mf: C₃₁H₃₁N₅O•2Br mw: 649.49

TOXICITY DATA with REFERENCE:

dnd-mus:lym 1600 nmol/L JMCMAR 22,134,79

ipr-mus LD10:10 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 Br⁻. See also BROMIDES.

EKA500 CAS: 68772-10-1 HR: 3
1-ETHYL-4-(p-((p-((1-ETHYLPYRIDINIUM-4-YL)-AMINO)PHENYL)CARBAMOYL)ANILINO)QUINOLINIUM, DIBROMIDE

mf: C₃₁H₃₁N₅O•2Br mw: 649.49

TOXICITY DATA with REFERENCE:

dnd-mus:lym 2 µmol/L JMCMAR 22,134,79

ipr-mus LD10:15 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 Br⁻. See also BROMIDES.

EKB000 CAS: 20719-23-7 HR: 3
1-ETHYL-4-(p-(p-((p-((1-ETHYLPYRIDINIUM-4-YL)AMINO)PHENYL)CARBAMOYL)CINNAMAMIDO)ANILINO)PYRIDINIUM, DI-p-TOLUENE SULFONATE

mf: C₃₆H₃₆N₆O₂•2C₇H₇O₃S mw: 927.18

TOXICITY DATA with REFERENCE:

dnd-mus:lym 430 nmol/L JMCMAR 22,134,79

ipr-mus LD10:8 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 SO_x and NO_x. See also SULFONATES.

EKC500 CAS: 68772-21-4 HR: 3
1-ETHYL-4-(p-((p-((1-ETHYLPYRIDINIUM-4-YL)PHENYL)CARBAMOYL)ANILINO)-QUINOLINIUM), DI-p-TOLUENE SULFONATE

mf: C₃₁H₃₀N₄O•2C₇H₇O₃S mw: 817.05

TOXICITY DATA with REFERENCE:

dnd-mus:lym 890 nmol/L JMCMAR 22,134,79

ipr-mus LD10:10 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.

EKC990 CAS: 16758-28-4 HR: 3
1-ETHYL-6-((p-(p-((1-ETHYLQUINOLINIUM-6-YL)CARBAMOYL)BENZAMIDO)BENZAMIDO)QUINOLINIUM), DI-p-TOLUENE SULFONATE

mf: C₃₇H₃₃N₅O₃•2C₇H₇O₃S mw: 938.15

TOXICITY DATA with REFERENCE:

dnd-mus:lym 370 nmol/L JMCMAR 22,134,79

ipr-mus LD10:45 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 SO_x and NO_x. See also SULFONATES.

EKD000 CAS: 18355-54-9 HR: 3
1-ETHYL-7-((p-(p-((1-ETHYLQUINOLINIUM-7-YL)CARBAMOYL)BENZAMIDO)BENZAMIDO)QUINOLINIUM), DI-p-TOLUENE SULFONATE

mf: C₃₇H₃₃N₅O₃•2C₇H₇O₃S mw: 938.15

TOXICITY DATA with REFERENCE:

dnd-mus:lym 160 nmol/L JMCMAR 22,134,79

ipr-mus LD10:30 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.

EKF550 **HR: D**
17- α -ETHYLETHYNYL-19-NORTESTOSTERONE

mf: $\text{C}_{22}\text{H}_{30}\text{O}_2$ mw: 326.52

SYN: 17- α -(1-BUTYNYL)-17- β -HYDROXYESTR-4-EN-3-ONE

SAFETY PROFILE: Experimental reproductive effects. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes. See also TESTOSTERONE.

EKF575 **HR: D**
2-ETHYL FENCHOL

mf: $\text{C}_{12}\text{H}_{22}\text{O}$ mw: 182.30

PROP: Pale yellow liquid; camphor, earthy odor. D: 0.946–0.967, refr index: 1.470–1.491. Sol in alc, propylene glycol, fixed oils; insol in water.

SYN: FEMA No. 3491

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

EKF600 **CAS: 29177-84-2** **HR: 2**
ETHYL FLUCLOZEPATE

mf: $\text{C}_{18}\text{H}_{14}\text{ClFN}_2\text{O}_3$ mw: 360.79

PROP: Crystals from ether. Mp: 193–194° (decomp).

SYNS: CM 6912 □ ETHYL-7-CHLORO-5-(α -FLUOROPHENYL)-2,3-DIHYDRO-2-OXO-1H-1,4-BENZODIAZEPINE-3-CARBOXYLATE □ ETHYL LOFLAZEPATE □ VICTAN

TOXICITY DATA with REFERENCE:

ipr-rat LD50:645 mg/kg IJCPB5 19,453,81
 scu-rat LD50:2 g/kg KSRNAM 20,1411,86
 orl-mus LD50:5506 mg/kg KSRNAM 20,1411,86
 ipr-mus LD50:712 mg/kg IJCPB5 19,453,81
 scu-mus LD50:1795 mg/kg KSRNAM 20,1411,86

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. Mildly toxic by ingestion. Experimental teratogenic and reproductive effects. Note: This is a controlled substance (depressant) listed in the U.S. Code of Federal Regulations, Title 21 Part 1308.14 (1985). When heated to decomposition it emits toxic fumes of F^- , Cl^- , and NO_x .

EKG500 **CAS: 459-72-3** **HR: 3**
ETHYL FLUOROACETATE

mf: $\text{C}_4\text{H}_7\text{FO}_2$ mw: 106.11

SYN: ETHYLESTER KYSELINY FLUOROCTOVE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:19 mg/kg 11FYAN 3,59,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of F^- . See also FLUORIDES.

EKI000 **CAS: 353-03-7** **HR: 3**
ETHYL-10-FLUORODECANOATE

mf: $\text{C}_{12}\text{H}_{23}\text{FO}_2$ mw: 218.35

SYNS: ETHYL- ω -FLUORODECANOATE □ ETHYL-9-FLUORONONANECARBOXYLATE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1650 $\mu\text{g}/\text{kg}$ JOCEAH 21,883,56
 par-mus LD50:10 mg/kg JCSOA9 -,1471,49
 par-rbt LD50:200 $\mu\text{g}/\text{kg}$ JCSOA9 -,1471,49

SAFETY PROFILE: Poison by intraperitoneal and parenteral routes. When heated to decomposition it emits toxic fumes of F^- . See also FLUORIDES.

EKJ500 **CAS: 589-79-7** **HR: 3**
ETHYL-6-FLUOROHEXANOATE

mf: $\text{C}_8\text{H}_{15}\text{FO}_2$ mw: 162.23

SYNS: ETHYL- ω -FLUOROHEXANOATE □ ETHYL-5-FLUOROPENTANECARBOXYLATE □ 2'-FLUOROETHYL-6-FLUOROHEXANOATE

TOXICITY DATA with REFERENCE:

scu-mus LD50:4 mg/kg JCSOA9 -,1471,49
 ivn-rbt LD50:200 $\mu\text{g}/\text{kg}$ JCSOA9 -,1471,49

SAFETY PROFILE: Poison by intravenous and subcutaneous routes. When heated to decomposition it emits very toxic fumes of F^- . See also FLUORIDES.

EKK500 **CAS: 332-97-8** **HR: 3**
ETHYL-8-FLUORO OCTANOATE

mf: $\text{C}_{10}\text{H}_{19}\text{FO}_2$ mw: 190.29

SYNS: ETHYL- ω -FLUOROOCCTANOATE □ 8-FLUOROOCCTANOIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1750 $\mu\text{g}/\text{kg}$ JOCEAH 21,883,56
 scu-mus LD50:9 mg/kg NATUAS 172,1139,53
 par-mus LD50:9 mg/kg JCSOA9 -,1471,49

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and parenteral routes. When heated to decomposition it emits toxic fumes of F^- . See also ESTERS and FLUORIDES.

EKK550 **CAS: 371-69-7** **HR: 2**
ETHYL FLUOROSULFATE

mf: $\text{C}_2\text{H}_5\text{FO}_3\text{S}$ mw: 128.12

PROP: Bp: 112–113°.

SAFETY PROFILE: Explodes violently at room temperature. When heated to decomposition it emits toxic fumes of F^- and SO_x . See also FLUORIDES and SULFATES.

EKK600 **CAS: 627-45-2** **HR: 2**
N-ETHYLFORMAMIDE

mf: $\text{C}_3\text{H}_7\text{NO}$ mw: 73.11

SYNS: N-AETHYLFORMAMID □ ETHYLFORMAMIDE □ FORMAMIDE, N-ETHYL- □ N-FORMYLETHYLAMINE

TOXICITY DATA with REFERENCE:

unr-rat LD50:3000 mg/kg ARZNAD 18,645,68
 ipr-mus LD: >1200 mg/kg THERAP 27,873,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EKL000 **CAS: 109-94-4** **HR: 3**

ETHYL FORMATE**DOT:** UN 1190mf: C₃H₆O₂ mw: 74.09

PROP: Colorless, mobile flammable liquid; sharp, pleasant, rum-like odor. Mp: -79°, bp: 54.3°, lel: 2.7%, uel: 13.5%, flash p: -4°F (CC), d: 0.9236 @ 20°/20°, refr index: 1.359, autoign temp: 851°F, vap press: 100 mm @ 5.4°, vap d: 2.55. Misc in EtOH, Et₂O, C₆H₆; sltly sol in and gradually hydrated by H₂O. IDLH 1500 ppm.

SYNS: AETHYLFORMIAT (GERMAN) □ AREGINAL □ ETHYLE (FORMIATE d) (FRENCH) □ ETHYLFORMIAT (DUTCH) □ ETHYL FORMIC ESTER □ ETHYL METHANOATE □ ETILE (FORMIATO di) (ITALIAN) □ FEMA No. 2434 □ FORMIC ACID, ETHYL ESTER □ FORMIC ETHER □ MROWCZAN ETYLU (POLISH)

TOXICITY DATA with REFERENCE:

skn-rbt 460 mg open MLD UCDS** 4/10/68

eye-rbt 100 mg/24H MOD 85JCAE -,350,86

orl-rat LD50:1850 mg/kg FCTXAV 2,327,64

ihl-rat LCLo:8000 ppm/4H AMIHBC 10,61,54

orl-rbt LD50:2075 mg/kg IMSUAI 41,31,72

skn-rbt LD50:20 g/kg FCTXAV 16,637,78

scu-rbt LDLo:1000 mg/kg FCTXAV 16,737,78

orl-gpg LD50:1110 mg/kg FCTXAV 2,327,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 100 ppm**ACGIH TLV:** TWA 100 ppm**DFG MAK:** 100 ppm (310 mg/m³)**DOT CLASSIFICATION:** 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Mildly toxic by skin contact and inhalation. A powerful inhalation irritant in humans. A skin and eye irritant. Questionable carcinogen with experimental tumorigenic data. Highly flammable liquid. A very dangerous fire and explosion hazard when exposed to heat, flame, or oxidizers. To fight fire, use alcohol foam, spray, mist, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ethyl Formate S36.

EKL250 CAS: 74920-78-8 HR: 2**1-ETHYL-1-FORMYLHYDRAZINE**mf: C₃H₈N₂O mw: 88.13

SYNS: EFH □ N-ETHYL-N-FORMYLHYDRAZINE □ FORMIC ACID, 1-ETHYLHYDRAZIDE

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

EKL500 CAS: 2407-43-4 HR: 2**5-ETHYL-2(5H)-FURANONE**mf: C₆H₈O₂ mw: 112.14**SYN:** 4-HYDROXYHEX-2-ENOIC ACID LACTONE

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

EKM000 CAS: 614-99-3 HR: 3**ETHYL FUROATE**mf: C₇H₈O₃ mw: 140.15

PROP: (A) Leaflets. D: 1.117, mp: 34°, bp: 195°, Insol in water; misc in alc and ether. (B) Liquid. D: 1.38, bp: 65-67°.

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:75 mg/kg JPETAB 58,174,36

ivn-mus LD50:180 mg/kg CSLNX* NX#00372

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EKM100 CAS: 831-61-8 HR: 1**ETHYL GALLATE**mf: C₉H₁₀O₅ mw: 198.19

SYNS: BENZOIC ACID, 3,4,5-TRIHYDROXY-, ETHYL ESTER (9CI) □ ETHYLESTER KYSELINY GALLOVE □ ETHYL 3,4,5-TRIHYDROXYBENZOATE □ GALLIC ACID, ETHYL ESTER □ NIPAGALLIN A □ NIPA NO. 48 □ PHYLLEMBLIN □ PROGALLIN A

TOXICITY DATA with REFERENCE:

orl-mus LD50:5810 mg/kg 85JCAE -,668,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EKM200 CAS: 4016-11-9 HR: 3**ETHYL GLYCIDYL ETHER****DOT:** UN 2752mf: C₅H₁₀O₂ mw: 102.15

SYNS: 1,2-EPOXY-3-ETHOXYPROPANE □ 1,2-EPOXY-3-ETHOXYPROPANE (DOT) □ (ETHOXYMETHYL)OXIRANE □ OXIRANE, (ETHOXYMETHYL)-(9CI) □ PROPANE, 1,2-EPOXY-3-ETHOXY-

TOXICITY DATA with REFERENCE:

mmo-sat 8 mmol/L CBINA8 45,153,83

mmo-klp 500 μmol/L MUREAV 89,269,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

EKM500 CAS: 623-50-7 HR: 2**ETHYL GLYCOLATE**mf: C₄H₈O₃ mw: 104.12

PROP: Colorless liquid. D: 1.087, bp: 160°, very sol in alc and ether.

SYN: HYDROXYACETIC ACID ETHYL ESTER**TOXICITY DATA with REFERENCE:**

eye-gpg 10 μg MLD JPPMAB 11,150,59

ipr-rat LDLo:1500 mg/kg JPPMAB 11,150,59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EKN000 CAS: 2642-71-9 HR: 3
ETHYL GUTHION

mf: $C_{12}H_{16}N_3O_3PS_2$ mw: 345.40

PROP: Needles. D: 1.284 @ 20°/4°, mp: 53°, bp: 111° @ 0.001 mm.

SYNS: ATHYL-GUSATHION □ AZINFOS-ETHYL (DUTCH) □ AZINOS □ AZINPHOS-AETHYL (GERMAN) □ AZINPHOS ETHYL □ AZINPHOS-ETILE (ITALIAN) □ BAY 16225 □ BAYER 16259 □ BENZOTRIAZINE derivative of an ETHYL DITHIOPHOSPHATE □ COTNION-ETHYL □ CYRSTHION □ O,O-DIAETHYL-S-(4-OXOBENZOTRIAZIN-3-METHYL)-DITHIOPHOSPHAT (GERMAN) □ O,O-DIAETHYL-S-((4-OXO-3H-1,2,3-BENZOTRIAZIN-3-YL)-METHYL)-DITHIOPHOSPHAT (GERMAN) □ O,O-DIETHYL-S-(4-OXO-3H-1,2,3-BENZOTRI-AZINE-3-YL)-METHYL-DITHIOPHOSPHATE □ O,O-DIETHYL-S-((4-OXO-3H-1,2,3-BENZOTRIAZIN-3-YL)-METHYL)-DITHIO FOSFAAT (DUTCH) □ O,O-DIETHYL-S-(4-OXOBENZOTRIAZ-INO-3-METHYL)PHOSPHORODITHIOATE □ O,O-DIETHYL PHOSPHORODITHIOATE S-ester with 3-(MERCAPTOMETHYL)-1,2,3-BENZOTRIAZIN-4(3H)-ONE □ O,O-DIETHYL-S-((4-OXO-3H-1,2,3-BENZOTRIAZIN-3-IL)-METIL)-DITIOFOSFATO (ITALIAN) □ 3,4-DIHYDRO-4-OXO-3-BENZOTRIAZINYL METHYL O,O-DIETHYL PHOSPHORODITHIOATE □ S-(3,4-DIHYDRO-4-OXO-1,2,3-BENZOTRIAZIN-3-YLMETHYL) O,O-DIETHYL PHOSPHORODITHIOATE □ ENT 22,014 □ ETHYL GUSATHION □ GUSATHION A □ GUTHION (ETHYL) □ R 1513 □ TRIAZOTION (RUSSIAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:7 mg/kg ARSIM* 20,2,66
ihl-rat LC50:390 mg/m³ 85GYAZ -16,71
skn-rat LD50:250 mg/kg GUHAZ 6,24,73
ipr-rat LD50:7500 µg/kg GUHAZ 6,24,73
orl-ckn LD50:34 mg/kg TXAPA9 11,49,67

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.

SAFETY PROFILE: Poison by ingestion, inhalation, skin contact, and intraperitoneal route. A cholinesterase inhibitor type of insecticide. When heated to decomposition it emits toxic fumes of SO_x, PO_x, and NO_x. See also PARATHION.

EKN050 CAS: 106-30-9 HR: 3
ETHYL HEPTANOATE

mf: $C_9H_{18}O_2$ mw: 158.24

PROP: Colorless liquid; wine-brandy odor. D: 0.867–0.872, refr index: 1.411, fp: –66.1°, bp: 188.6°, flash p: 149°F. Misc in alc, chloroform, fixed oils; sltly sol in propylene glycol.

SYNS: COGNAC OIL □ ENANTHYLIC ETHER □ ETHYL ENANTHATE □ ETHYL HEPTANOATE □ ETHYL n-HEPTANOATE □ ETHYL HEPTOATE □ ETHYL HEPTYLATE □ ETHYL OENANTHATE □ ETHYL OENANTHYLATE □ FEMA No. 2437 □ OENANTHIC ETHER

TOXICITY DATA with REFERENCE:

orl-rat LD50:>34,640 mg/kg FCTXAV 2,327,64
skn-rbt LD50:>5 g/kg FCTXAV 19,247,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. Flammable liquid when exposed to heat, sparks, or flame. When heated to decomposition it emits acrid smoke and irritating fumes.

EKN100 CAS: 23489-00-1 HR: 3
1-ETHYL-1-HEPTYLPIPERIDINIUM BROMIDE

mf: $C_{14}H_{30}N^+Br^-$ mw: 292.36

TOXICITY DATA with REFERENCE:

orl-mus LD50:288 mg/kg PSDTAP 15,331,74
ipr-mus LD50:67,934 µg/kg PSDTAP 15,331,74
ivn-mus LD50:4541 µg/kg PSDTAP 15,331,74

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and Br[–]. See also BROMIDES.

EKN500 CAS: 124-03-8 HR: 3
ETHYL HEXADECYL DIMETHYL AMMONIUM BROMIDE

mf: $C_{20}H_{44}N^+Br^-$ mw: 378.56

PROP: Crystals. Sol in H₂O.

SYNS: AMMONYX DME □ BRETOL □ CDA: CETYLCLIDE □ CETYL DIMETHYL ETHYL AMMONIUM BROMIDE □ CETYL ETHYL DIMETHYLAMMONIUM BROMIDE □ DIMETHYL ETHYL HEXADECYL AMMONIUM BROMIDE □ ETHYL CETAB □ RADIOL GERMICIDAL SOLUTION

TOXICITY DATA with REFERENCE:

orl-rat LD50:500 mg/kg PCOC** -,206,66
orl-gpg LD50:158 mg/kg PCOC** -,206,66

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of NO_x, NH₃, and Br[–]. See also BROMIDES.

EKN550 CAS: 78-21-7 HR: D
4-ETHYL-4-HEXADECYL MORPHOLINIUM ETHYL SULFATE

mf: $C_{22}H_{46}NO \cdot C_2H_5O_4S$ mw: 465.82

SYNS: ATLAS G 263 □ BARQUAT CME-A □ CETYLETHYLMORPHOLINIUM ETHOSULFATE □ N-CETYL-N-ETHYLMORPHOLINIUM ETHYLSULFATE □ G 251 □ G 263 □ MORPHOLINIUM, 4-ETHYL-4-HEXADECYL-, ETHYL SULFATE □ SULFURIC ACID, MONOETHYL ESTER, ION(1-), 4-ETHYL-4-HEXADECYLMORPHOLINIUM

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA FIFRA 1988 pesticide subject to registration or re-registration.

SAFETY PROFILE: A pesticide with unreported toxicity. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

EKN600 CAS: 56501-33-8 HR: 3
1-ETHYL-1-HEXADECYLPIPERIDINIUM BROMIDE

mf: $C_{23}H_{48}N^+Br^-$ mw: 418.63

TOXICITY DATA with REFERENCE:

orl-mus LD50:235 mg/kg PSDTAP 15,331,74
ipr-mus LD50:3993 µg/kg PSDTAP 15,331,74
ivn-mus LD50:2296 µg/kg PSDTAP 15,331,74

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition

it emits toxic fumes of NO_x and Br^- . See also BROMIDES.

EKO000 CAS: 63867-09-4 HR: 3
ETHYL HEXAFLUORO-2-BROMOBUTYRATE

mf: $\text{C}_5\text{H}_3\text{BrF}_6\text{O}_2$ mw: 288.99

SYN: 2-BROMO-2,3,3,4,4,4-HEXAFLUOROBUTYRIC ACID METHYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD50:980 mg/kg TXAPA9 12,486,68

ipr-mus LD50:33 mg/kg TXAPA9 14,114,69

orl-mus LD50:980 mg/kg TXAPA9 14,114,69

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Br^- and F^- .

EKO500 CAS: 2212-67-1 HR: 3
sec-ETHYL HEXAHYDRO-1H-AZEPINE-1-CARBOTHIOATE

mf: $\text{C}_9\text{H}_{17}\text{NOS}$ mw: 187.33

PROP: A liquid. D: 1.065 @ 20°/20°, bp: 202° @ 10 mm. Sol in Me_2CO , C_6H_6 , and MeOH ; sltly sol in H_2O .

SYNS: S-AETHYL-N-HEXAHYDRO-1H-AZEPINTHIOLCARBAMAT (GERMAN) □ ETHYL-1-HEXAMETHYLENEIMINECARBOTHIOATE □ S-ETHYL-1-HEXAMETHYLENEIMINOTHIOCARBAMATE □ S-ETHYL-N-HEXAMETHYLENETHIOCARBAMATE □ FELAN □ HYDRAM □ JALAN □ MOLINATE □ MOLMATE □ ORDRAM □ R-4572 □ STAUFFER R-4,572 □ YALAN □ YULAN

TOXICITY DATA with REFERENCE:

cyt-hmn:lym 20 $\mu\text{g}/\text{L}$ CYGEDX 11(4),62,77

orl-rat LD50:369 mg/kg PEMNDP 8,578,87

ihl-rat LC50:2100 $\text{mg}/\text{m}^3/1\text{H}$ 85JFAN A282,83

scu-rat LD50:1167 mg/kg VRDEA5 (1),119,69

scu-rat LD50:1167 mg/kg VRDEA5 (1),119,69

orl-mus LD50:530 mg/kg VRDEA5 (1),119,69

ihl-cat LCLo:200 mg/m^3 GISAAA 35(8),35,70

skn-rbt LD50:3536 mg/kg FMCHA2 -,C173,83

SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion, skin contact, and subcutaneous routes. Experimental reproductive effects. Human mutation data reported. An herbicide. When heated to decomposition it emits very toxic fumes of NO_x and SO_x .

EKO600 CAS: 760-67-8 HR: 2
2-ETHYLHEXANOIC ACID CHLORIDE

mf: $\text{C}_8\text{H}_{15}\text{ClO}$ mw: 162.68

SYNS: 2-ETHYLCAPROYL CHLORIDE □ 2-ETHYLHEXANOYL CHLORIDE □ HEXANOYL CHLORIDE, 2-ETHYL-

TOXICITY DATA with REFERENCE:

ihl-rat LC50:1260 mg/m^3 EPASR* 8EHQ-0387-0656

orl-uns LD50:1500 mg/kg EPASR* 8EHQ-0387-0656

skn-uns LD50:>2 g/kg EPASR* 8EHQ-0387-0656

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and inhalation. Slightly toxic by skin contact. When heated to decomposition it emits toxic vapors of Cl^- .

EKO700 CAS: 139906-72-2 HR: D
(R)-2-ETHYLHEXANOIC ACID SODIUM SALT

mf: $\text{C}_8\text{H}_{15}\text{O}_2\cdot\text{Na}$ mw: 166.22

SYN: HEXANOIC ACID, 2-ETHYL-, SODIUM SALT, (R)-

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

EKQ000 CAS: 104-76-7 HR: 2
2-ETHYLHEXANOL

mf: $\text{C}_8\text{H}_{18}\text{O}$ mw: 130.26

PROP: Clear liquid. Bp: 184–185°, mp: <−76°, flash p: 178°F (81°C), n: (20/D) 1.4300, d: 0.834 @ 20°/20°, vap press: 0.2 mm @ 20°, vap d: 4.49. Sol in about 720 parts water and in many org solvs.

SYNS: 1-AETHYLHEXANOL (GERMAN) □ 2-ETHYL-1-HEXANOL □ 2-ETHYLHEXYL ALCOHOL

TOXICITY DATA with REFERENCE:

skn-rbt 415 mg open MLD UCDS** 11/11/69

skn-rbt 500 mg/24H MOD FCTXAV 17,775,79

eye-rbt 4165 μg SEV AJOPAA 29,1363,46

eye-rbt 20 mg/24H MOD 28ZPAK -,36,72

mmo-sat 500 $\mu\text{mol}/\text{L}$ EVHPAZ 45,111,82

orl-rat LD50:2049 mg/kg AIHAAP 30,470,69

ipr-rat LD50:500 mg/kg HYDRDA 3,201,78

scu-rat LD50:650 mg/kg NPIRI* 1,61,74

par-rat LD50:4600 mg/kg FCTXAV 17,775,79

orl-mus LD50:2500 mg/kg ZHYGAM 20,575,74

ipr-mus LD50:759 mg/kg ZHYGAM 20,575,74

par-mus LD50:1670 mg/kg FCTXAV 17,775,79

orl-rbt LD50:1180 mg/kg ZHYGAM 20,575,74

skn-rbt LD50:1970 mg/kg NPIRI* 1,61,74

orl-gpg LD50:1860 mg/kg ZHYGAM 20,575,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, intraperitoneal, subcutaneous, and parenteral routes. An experimental teratogen. Other experimental reproductive effects. A severe eye and moderate skin irritant. Mutation data reported. A dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use foam, CO_2 , dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.

EKQ500 CAS: 115-82-2 HR: 2
2-ETHYL-1-HEXANOL SILICATE

mf: $\text{C}_{32}\text{H}_{68}\text{O}_4\text{Si}$ mw: 545.09

PROP: Insol in water. Bp: 350–370°, fp: −90°, flash p: 390°F (OC).

SYNS: TETRA(2-ETHYLHEXOXY)SILANE □ TETRA(2-ETHYLHEXYL)ORTHOSILICATE □ TETRA(2-ETHYLHEXYL)SILICATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 7/14/65

eye-rbt 500 mg/24H MLD 85JCAE -,1239,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin and eye irritant. Combustible when exposed to heat or flame. To fight fire, use spray, dry chemical, CO_2 . When heated to decomposition it emits acrid smoke and irritating fumes.

EKQ600 CAS: 26266-68-2 HR: 2

2-ETHYL HEXENALmf: C₈H₁₄O mw: 126.22**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2005 mg/kg GTPZAB 32(3),48,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**EKR000 CAS: 645-62-5 HR: 2****2-ETHYL-2-HEXENAL**mf: C₈H₁₄O mw: 126.22**PROP:** Colorless liquid, powerful odor. Bp: 175°, flash p: 155°F (OC), d: 0.848 @ 20°/4°, vap d: 4.35, vap press: 1.0 mm @ 20°.**SYNS:** 2-ETHYLHEXENAL □ α-ETHYL-β-n-PROPYLACROLEIN □ 2-ETHYL-3-PROPYL ACROLEIN**TOXICITY DATA with REFERENCE:**

skn-rbt 10 mg/24H open JIHTAB 26,269,44

eye-rbt 85 mg AJOPAA 29,1363,46

orl-rat LD50:3000 mg/kg JIHTAB 26,269,44

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A skin, eye, and mucous membrane irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.**EKR500 CAS: 1632-16-2 HR: 3****2-ETHYL-1-HEXENE**mf: C₈H₁₆ mw: 112.24**PROP:** Colorless liquid. Bp: 120°, d: 0.7270 @ 20°/20°, vap d: 3.87.**SYNS:** 2-ETHYL HEXENE-1 □ USAF DO-21**TOXICITY DATA with REFERENCE:**

skn-rbt 100 mg/24H MOD 85JCAE -,14,86

eye-rbt 500 mg/24H MLD 85JCAE -,14,86

ihl-rat LCLo:4000 ppm/4H JIHTAB 31,343,49

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. Mildly toxic by inhalation. A skin and eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.**EKS000 CAS: 5309-52-4 HR: 2****2-ETHYL-2-HEXENOIC ACID**mf: C₈H₁₄O₂ mw: 142.22**TOXICITY DATA with REFERENCE:**

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

eye-rbt 150 µg open SEV AMIHBC 4,119,51

orl-rat LDLo:5660 mg/kg AMIHBC 4,119,51

skn-rbt LD50:2750 mg/kg AMIHBC 4,119,51

SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. A skin and severe eye irritant.

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

EKS100 CAS: 28069-74-1 HR: 1**ETHYL cis-3-HEXENYL ACETAL**mf: C₁₀H₂₀O₂ mw: 172.30**SYNS:** ACETALDEHYDE ETHYL cis-3-HEXENYL ACETAL □ (Z)-1-ETHOXY-1-(3-HEXENYLOXY)ETHANE □ 3-HEXENE, 1-(1-ETHOXYETHOXY)-, (Z)- □ cis-3-HEXENYL ETHYL ACETAL**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:5 g/kg FCTOD7 26,275,88

skn-rbt LD50:>5 g/kg FCTOD7 26,275,88

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.**EKS120 CAS: 54484-73-0 HR: 1****ETHYL HEXYL ACETAL**mf: C₁₀H₂₂O₂ mw: 174.32**SYNS:** ACETALDEHYDE ETHYL HEXYL ACETAL □ 1-ETHOXY-1-HEXYLOXYETHANE □ HEXANE, 1-(1-ETHOXYETHOXY)- □ LIVERIT**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:13,312 mg/kg FCTOD7 26,277,88

skn-rbt LDLo:5 g/kg FCTOD7 26,277,88

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.**EKS150 CAS: 29214-60-6 HR: 1****ETHYL-2-HEXYL ACETOACETATE**mf: C₁₂H₂₂O₃ mw: 214.34**SYNS:** ETHYL 2-ACETYLACAPRYLATE □ ETHYL 2-ACETYLOCTANOATE □ ETHYL α-HEXYLACETOACETATE □ OCTANOIC ACID, 2-ACETYL-, ETHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FCTXAV 13,454,75

skn-rbt LD50:>5 g/kg FCTXAV 13,454,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.**EKS200 CAS: 50601-74-6 HR: 1****2-ETHYLHEXYL ACRYLATE-HYDROXYETHYL ACRYLATE-METHYL ACRYLATE POLYMER**mf: (C₁₁H₂₀O₂•C₅H₈O₃•C₄H₆O₂)_x**SYNS:** 2-PROPENOIC ACID, 2-ETHYLHEXYL ESTER, POLYMER WITH 2-HYDROXYETHYL 2-PROPENOATE AND METHYL 2-PROPENOATE □ RA-2258**TOXICITY DATA with REFERENCE:**

eye-rbt 100 µL/24H MOD NTIS** OTS0538668

orl-rat LD50:>10 g/kg NTIS** OTS0538668

skn-rbt LD50:>7940 mg/kg NTIS** OTS0538668

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

EKS500 CAS: 104-75-6 HR: 3
2-ETHYL HEXYLAMINE
DOT: UN 2276

mf: C₈H₁₉N mw: 129.28

PROP: A clear, miscible liquid. Bp: 169.2°, flash p: 140°F (OC), d: 0.7894 @ 20°/20°, vap press: 1.2 mm @ 20°, vap d: 4.45.

SYN: 1-AMINO-2-ETHYLHEXAN (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 750 µg/24H SEV 85JCAE -,436,86
 eye-rbt 50 µg/24H SEV 85JCAE -,436,86
 skn-rbt 500 mg/24H SEV 28ZPAK -,62,72
 eye-rbt 50 µg/24H SEV 28ZPAK -,62,72
 orl-rat LD50:450 mg/kg UCDS** 2/20/63
 ihl-rat LCLo:250 ppm/4H AEHLAU 1,343,60
 ipr-mus LDLo:4 mg/kg CBCCT* 2,189,50
 skn-rbt LD50:600 mg/kg UCDS** 2/20/63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion, inhalation, and skin contact. Corrosive. A severe skin and eye irritant. Flammable liquid when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

EKT000 CAS: 10137-80-1 HR: 2
N-(2-ETHYLHEXYL)ANILINE

mf: C₁₄H₂₃N mw: 205.3

PROP: Liquid, mild odor. Bp: 194° @ 50 mm, fp: <-70°, flash p: 325°F (COC), d: 0.9119 @ 20°/20°, vap press: <0.01 @ 20°, vap d: 6.9.

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open SEV AIHAAP 23,95,62
 orl-rat LD50:2410 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: Moderately toxic by ingestion. A severe skin irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. Reacts with water or steam to produce toxic fumes. To fight fire, use dry chemical, CO₂, mist or fog. When heated to decomposition it emits toxic fumes of NO_x.

EKT500 CAS: 144-00-3 HR: 3
5-ETHYL-5-HEXYLBARBITURIC ACID SODIUM SALT

mf: C₁₂H₁₉N₂O₃•Na mw: 262.32

SYNS: 5-ETHYL-5-HEXYL-2,4,6-(1H,3H,5H)-PYRIMIDINETRIONE MONOSODIUM SALT □ HEBARAL □ HEXETHAL SODIUM □ ORTAL SODIUM □ SODIUM-5-ETHYL-5-HEXYLBARBITURATE □ SODIUM HEXETHAL □ SODIUM-N-HEXYLETHYL BARBITURATE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:2000 mg/kg JPETAB 60,125,37
 ipr-rat LD50:250 mg/kg MEIEDD 10,680,83
 ivn-rat LDLo:210 mg/kg JPETAB 60,125,37

ipr-mus LDLo:230 mg/kg JPETAB 31,455,27
 scu-dog LDLo:150 mg/kg JPETAB 60,439,37
 ivn-dog LDLo:40 mg/kg JPETAB 60,439,37
 ivn-cat LDLo:50 mg/kg JPETAB 60,439,37
 ipr-rbt LDLo:75 mg/kg JPETAB 60,439,37
 ivn-rbt LDLo:50 mg/kg JPETAB 60,439,37

SAFETY PROFILE: Poison by intraperitoneal, intravenous, and subcutaneous routes. Moderately toxic by ingestion. A sedative and hypnotic agent. When heated to decomposition it emits toxic fumes of NO_x and Na₂O. See also BARBITURATES.

EKT600 CAS: 4248-21-9 HR: 2
2-ETHYLHEXYL CARBAMATE

mf: C₉H₁₉NO₂ mw: 173.29

SYN: CARBAMIC ACID, 2-ETHYLHEXYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:3153 mg/kg CALEDQ 57,37,91

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

EKU000 CAS: 123-04-6 HR: 3
2-ETHYLHEXYL-1-CHLORIDE

mf: C₈H₁₇Cl mw: 148.70

PROP: Colorless liquid. Bp: 172.9°, fp: -135°, flash p: 140°F (OC), d: 0.8833, @ 20°, vap d: 5.14.

SYNS: 1-CHLORO-2-ETHYLHEXANE □ 3-CHLOROMETHYLHEPTANE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD 34ZIAG -,745,69
 skn-rbt 100 mg/24H MOD 85JCAE -,102,86
 eye-rbt 100 mg/24H MLD 85JCAE -,102,86
 orl-rat LD50:7340 mg/kg AMIHBC 4,119,51
 ihl-rat LCLo:2000 ppm/4H AMIHBC 4,119,51
 skn-rbt LD50:15,800 mg/kg 34ZIAG -,745,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion, inhalation, and skin contact. A skin and eye irritant. Flammable liquid 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 highly toxic fumes of phosgene and Cl⁻. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

EKU100 CAS: 2350-24-5 HR: 1
2-ETHYLHEXYL-6-CHLORIDE

mf: C₈H₁₇Cl mw: 148.70

SYN: HEPTANE, 1-CHLORO-5-METHYL-

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 4,119,51
 eye-rbt 500 mg open AMIHBC 4,119,51
 orl-rat LD50:7340 mg/kg AMIHBC 4,119,51
 ihl-rat LCLo:4000 ppm/4H JIDHAN 31,343,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion and inhalation routes. A skin and eye irritant. When heated to decomposition it emits toxic vapors of Cl⁻.

**EKU500 CAS: 5432-61-1 HR: 3
N-(2-ETHYLHEXYL)CYCLOHEXYLAMINE**mf: C₁₄H₂₉N mw: 211.44**PROP:** Insol in water. D: 0.8, bp: 172° @ 20 mm, flash p: 265°F (OC).**TOXICITY DATA with REFERENCE:**

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

orl-rat LDLo:710 mg/kg AIHAAP 23,95,62

skn-rbt LD50:110 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: Poison by skin contact.Moderately toxic by ingestion. A skin irritant. Combustible when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use dry chemical. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.**EKV000 CAS: 94-96-2 HR: 2
ETHYL HEXYLENE GLYCOL**mf: C₈H₁₈O₂ mw: 146.26**PROP:** Practically colorless, somewhat viscous, odorless liquid. Bp: 243.1°, flash p: 260°F (OC), fp: -40°, d: 0.9422 @ 20°/20°, vap press: <0.01 mm @ 20°, vap d: 5.03. Sltly sol in H₂O; misc in CHCl₃, EtOH, and Et₂O.**SYNS:** CARBIDE 6-12 □ COMPOUND 6-12 INSECT REPELL-ENT □ ENT 375 □ ETHOHEXADIOL □ ETHYL HEXANEDIOL □ 2-ETHYLHEXANEDIOL-1,3 □ 2-ETHYLHEXANE-1,3-DIOL □ 2-ETHYL-1,3-HEXANEDIOL □ 2-ETHYL-3-PROPYL-1,3-PROP-ANEDIOL □ 3-HYDROXYMETHYL-n-HEPTAN-4-OL □ 6-12-INSECT REPELLENT □ OCTYLENE GLYCOL □ REPELLENT 612 □ RUTGERS 612**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg MLD 34ZIAG -,731,69

eye-rbt 5 mg SEV AJOPAA 29,1363,46

orl-rat LD50:1400 mg/kg SPEADM 78-1,52,78

orl-mus LD50:1900 mg/kg SPEADM 78-1,52,78

orl-rbt LD50:2600 mg/kg PCOC** -,508,66

skn-rbt LD50:2000 mg/kg 31ZOAD 1,208,68

orl-gpg LD50:1900 mg/kg JPETAB 93,26,48

orl-ckn LD50:1400 mg/kg JPETAB 93,26,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and skin contact. Experimental teratogenic and reproductive effects. A skin and severe eye irritant. Used as an insecticide, insect repellent, and in hair care preparations. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, foam, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.**EKV500 CAS: 141-38-8 HR: 1
2-ETHYLHEXYL EPOXYSTEARATE**mf: C₂₆H₅₀O₃ mw: 410.76**SYNS:** 9,10-EPOXYSTEARIC ACID-2-ETHYLHEXYL ESTER □ 2-ETHYLHEXYL-9,10-EPOXYOCTADECANOATE**TOXICITY DATA with REFERENCE:**

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

orl-rat LD50:30,800 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.**EKW000 CAS: 7425-14-1 HR: 1
2-ETHYLHEXYL-2-ETHYLHEXANOATE**mf: C₁₆H₃₂O₂ mw: 256.48**PROP:** Liquid. Vap d: 8.85.**SYNS:** 2-ETHYLHEXANOIC ACID, 2-ETHYLHEXYL ESTER □ 2-ETHYLHEXYLESTER KYSELINY 2-ETHYLKAPRONOVE**TOXICITY DATA with REFERENCE:**

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

eye-rbt 500 mg AJOPAA 29,1363,46

orl-rat LD50:27 g/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion. A skin and eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.**EKW100 CAS: 60075-72-1 HR: 3
2-ETHYLHEXYL-p-IODOBENZYL CARBONATE**mf: C₁₆H₂₃IO₃ mw: 390.29**SYNS:** CARBONIC ACID, 2-ETHYLHEXYL p-IODOBENZYL ESTER □ CARBONIC ACID, 2-ETHYLHEXYL (4-IODOPHENYL)METHYL ESTER**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:15 mL/kg JMCMA 19,1362,76

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of I₂.**EKW200 CAS: 58240-57-6 HR: 3
2-ETHYLHEXYL (3-ISOCYANATOMETHYLPHENYL)CARBAMAT E**mf: C₁₇H₂₄N₂O₃ mw: 304.43**SYNS:** CARBAMIC ACID, (3-ISOCYANATOMETHYLPHENYL)-, 2-ETHYLHEXYL ESTER □ (3-ISOCYANATOMETHYLPHENYL)-CARBAMIC ACID, 2-ETHYLHEXYL ESTER**TOXICITY DATA with REFERENCE:**

eye-rbt 100 µL/24H SEV NTIS** OTS0534993

orl-rat LD50:>5 mL/kg NTIS** OTS0534993

skn-rbt LD50:>2 mL/kg NTIS** OTS0534993

SAFETY PROFILE: A poison by ingestion and skin contact. A severe eye irritant. When heated to decomposition it emits toxic vapors of NO_x.**EKW300 CAS: 7659-86-1 HR: 3
2-ETHYLHEXYL MERCAPTOACETATE**mf: C₁₀H₂₀O₂S mw: 204.36**SYNS:** 2-ETHYLHEXYL THIOGLYCOLATE □ MERCAPTOACETIC ACID-2-ETHYLHEXYL ESTER □

THIOGLYCOLIC ACID-2-ETHYLHEXYL ESTER □

THIOGLYKOLSAEURE-2-ÄTHYLHEXYL ESTER (GERMAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:303 mg/kg ZHYGAM 20,575,74

ipr-rat LD50:265 mg/kg ZHYGAM 20,575,74

orl-mus LD50:1430 mg/kg ZHYGAM 20,575,74

ipr-mus LD50:865 mg/kg ZHYGAM 20,575,74

orl-rbt LD50:534 mg/kg ZHYGAM 20,575,74

orl-gpg LD50:955 mg/kg ZHYGAM 20,575,74

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x . See also MERCAPTANS and ESTERS.

EKW500 CAS: 688-84-6 HR: 2
2-ETHYLHEXYL METHACRYLATE

mf: $\text{C}_{12}\text{H}_{22}\text{O}_2$ mw: 198.34

SYN: 2-ETHYL-1-HEXYL METHACRYLATE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2614 mg/kg JPMSAE 62,778,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EKW600 CAS: 27247-96-7 HR: 1
2-ETHYLHEXYL NITRATE

mf: $\text{C}_8\text{H}_{17}\text{NO}_3$ mw: 175.26

SYNS: ETHYLHEXYL NITRATE □ NITRIC ACID, 2-ETHYL-HEXYL ESTER □ NITRONAL

TOXICITY DATA with REFERENCE:

orl-rat LDLo:7500 mg/kg NTIS** OTS0570965

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

EKX000 CAS: 7346-61-4 HR: 1
2-ETHYLHEXYL OCTYLPHENYLPHOSPHITE

mf: $\text{C}_{22}\text{H}_{39}\text{O}_3\text{P}$ mw: 382.58

TOXICITY DATA with REFERENCE:

orl-rat LD50:7000 mg/kg 34ZTAG -,659,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EKX500 CAS: 1559-35-9 HR: 2
2-(2-ETHYLHEXYLOXY)ETHANOL

mf: $\text{C}_{10}\text{H}_{22}\text{O}_2$ mw: 174.32

SYN: 2-((2-ETHYLHEXYL)OXY)ETHANOL

TOXICITY DATA with REFERENCE:

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

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

orl-rat LD50:3080 mg/kg AMIHBC 10,61,54

skn-rbt LD50:2120 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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 fumes.

EKY000 CAS: 2549-90-8 HR: 1
4-(2-ETHYLHEXYLOXY)-2-HYDROXYBENZO-PHENONE

mf: $\text{C}_{21}\text{H}_{26}\text{O}_3$ mw: 326.47

SYN: 2-HYDROXY-4-(2'-ETHYLHEXOXY)BENZOFENON (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,100,72

eye-rbt 500 mg/24H MLD 28ZPAK -,100,72

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

EKZ000 CAS: 10213-75-9 HR: 1
3-(2-ETHYLHEXYLOXY)PROPIONITRILE

mf: $\text{C}_{11}\text{H}_{21}\text{NO}$ mw: 183.33

SYN: 3-((2-ETHYLHEXYL)OXY)PROPANENITRILE

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg open AMIHBC 10,61,54

orl-rat LD50:4920 mg/kg AMIHBC 10,61,54

skn-rbt LD50:5990 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: Mildly toxic by ingestion and skin contact. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

ELA000 CAS: 5397-31-9 HR: 3
2-ETHYLHEXYLOXYPROPYLAMINE

mf: $\text{C}_{11}\text{H}_{25}\text{NO}$ mw: 187.37

PROP: Bp: 239°, mp: -90°, flash p: 210°F (OC), d: 0.8483, vap d: 6.47.

SYNS: 2-ETHYLHEXYL-3-AMINOPROPYL ETHER □ 3-((2-ETHYLHEXYL)OXY)PROPYLAMINE

TOXICITY DATA with REFERENCE:

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

eye-rbt 50 µg open SEV AMIHBC 4,119,51

orl-rat LD50:320 mg/kg AMIHBC 4,119,51

skn-rbt LD50:360 mg/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion and skin contact. A severe skin and eye irritant. Combustible when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits toxic fumes of NO_x . See also ETHERS and AMINES.

ELA600 CAS: 24234-06-8 HR: 3
1-ETHYL-1-HEXYLPIPERIDINIUM BROMIDE

mf: $\text{C}_{13}\text{H}_{28}\text{N}^+\text{Br}^-$ mw: 278.33

TOXICITY DATA with REFERENCE:

orl-mus LD50:408 mg/kg PSDTAP 15,331,74

ivn-mus LD50:4496 µg/kg PSDTAP 15,331,74

ipr-mus LD50:42,958 µg/kg PSDTAP 15,331,74

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

ELB000 CAS: 118-60-5 HR: 3
2-ETHYLHEXYL SALICYLATE

mf: $\text{C}_{15}\text{H}_{22}\text{O}_3$ mw: 250.37

SYNS: SALICYLIC ACID-2-ETHYLHEXYL ESTER □ USAF DO-11 □ WMO

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,659,76

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ELB400 CAS: 72214-01-8 HR: 2
2-ETHYLHEXYL SULFATE

mf: $C_8H_{18}O_4S$ mw: 210.32

SYN: SULFURIC ACID, MONO(2-ETHYLHEXYL)ESTER

TOXICITY DATA with REFERENCE:

orl-mus TDLo:1747 g/kg/2Y C:ETA EVHPAZ 65,271,86

orl-rat LD50:4125 mg/kg 34ZIAG -,690,69

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of SO_x .

ELB500 CAS: 103-44-6 HR: 3
2-ETHYLHEXYL VINYL ETHER

mf: $C_{10}H_{20}O$ mw: 156.30

PROP: Liquid. Mp: -100° , bp: 177.5° , flash p: $135^\circ F$ (OC), d: 0.810, autoign temp: $395^\circ F$, vap d: 5.4.

SYNS: 1-ETHENOXY-2-ETHYLHEXANE □ VINYL-2-ETHYLHEXYL ETHER

TOXICITY DATA with REFERENCE:

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

skn-rbt 500 mg open MLD UCDS** 3/23/73

eye-rbt 500 mg open AMIHBC 10,61,54

orl-rat LD50:1350 mg/kg AMIHBC 10,61,54

ihl-rat LCLo:1005 ppm/8H UCDS** 3/23/73

skn-rbt LD50:3560 mg/kg AMIHBC 10,61,54

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and eye irritant. Flammable liquid when exposed to heat or flame; can react with oxidizing materials. Potentially explosive. To fight fire, use alcohol foam, foam, CO_2 , dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

ELC000 CAS: 18413-14-4 HR: 2
ETHYLHYDRAZINE HYDROCHLORIDE

mf: $C_2H_8N_2 \cdot ClH$ mw: 96.58

TOXICITY DATA with REFERENCE:

orl-mus TDLo:11 g/kg/64W-C:CAR IJCNAW 13,500,74

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of HCl and NO_x . See also HYDRAZINE.

ELC500 CAS: 3413-58-9 HR: 3
ETHYLHYDROCUPREINE HYDROCHLORIDE

mf: $C_{21}H_{28}N_2O_2 \cdot ClH$ mw: 376.97

PROP: Rhombic crystals from Me_2CO/Et_2O . Mp: $252-254^\circ$.

SYNS: HYDROCUPREINE ETHYL ESTER HYDROCHLORIDE □ NEUMOLISINA □ NUMOQUIN HYDROCHLORIDE □ OPTOCHIN HYDROCHLORIDE □ OPTOQUINHYDROCHLORIDE □ RHOMBIC

TOXICITY DATA with REFERENCE:

ivn-man TDLo:31 mg/kg/3D:EYE,CVS JPETAB 8,53,16

scu-mus LDLo:500 mg/kg JPETAB 8,53,16

unr-frg LDLo:300 mg/kg JPETAB 8,53,16

SAFETY PROFILE: Poison by unspecified route. Moderately toxic by subcutaneous route. Human systemic effects by intravenous route: visual field changes and arteriolar constriction. An antiseptic. When heated to decomposition it emits very toxic fumes such as Cl^- and NO_x .

ELC600 CAS: 626-86-8 HR: 1
ETHYL HYDROGEN ADIPATE

mf: $C_8H_{14}O_4$ mw: 174.22

SYNS: ADIPIC ACID, MONOETHYL ESTER □ HEXANOIC ACID, MONOETHYL ESTER (9CI) □ MONOETHYL ADIPATE □ MONOETHYLADIPIC ACID ESTER □ MONOETHYL HEXANEDIOATE

TOXICITY DATA with REFERENCE:

orl-uns LD50:4100 mg/kg GTPZAB 21(10),39,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ELD000 CAS: 3031-74-1 HR: 3
ETHYL HYDROPEROXIDE

mf: $C_2H_6O_2$ mw: 62.07

CH_3CH_2OOH

SYNS: ETHYL HYDROGEN PEROXIDE □ HYDROPEROXIDE, ETHYL

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: Explodes violently when superheated. The barium salt is heat- and impact-sensitive. Explosive reaction with hydroiodic acid or finely divided silver. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES.

ELD100 CAS: 38692-98-7 HR: 3
1-ETHYL-3-(HYDROXYACETYL)INDOLE

mf: $C_{12}H_{13}NO_2$ mw: 203.26

SYN: KETONE, 1-ETHYL-3-INDOLYL HYDROXYMETHYL

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:600 mg/kg PCJOAU 6,33,72

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

ELD500 CAS: 2497-34-9 HR: 2
4'-ETHYL-4-HYDROXYAZOBENZENE

mf: $C_{14}H_{14}N_2O$ mw: 226.30

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

ELE500 CAS: 54897-62-0 HR: 2
N-ETHYL-N-(4-HYDROXYBUTYL)NITROSO-AMINE

mf: $C_6H_{14}N_2O_2$ mw: 146.22

SYNS: EHBN □ 4-(ETHYLNITROSOAMINO)-1-BUTANOL

TOXICITY DATA with REFERENCE:

mma-sat 35 µmol/plate CNREA8 37,399,77
 orl-mus TDLo:4900 mg/kg/14W-C:CAR GANNA2
 72,647,81

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 toxic fumes of NO_x. See also NITROSAMINES.

ELE600 CAS: 7159-96-8 HR: 3
ETHYL 3-HYDROXYCARBANILATE

mf: C₉H₁₁NO₃ mw: 181.21

SYNS: CARBAMIC ACID, (3-HYDROXYPHENYL)-, ETHYL ESTER (9CI) □ CARBANILIC ACID, m-HYDROXY-, ETHYL ESTER □ 3-CARBETHOXYAMINOPHENOL □ m-(ETHOXY-CARBONYLAMINO)PHENOL □ 3-(ETHOXYCARBONYLAMINO)PHENOL □ ETHYL m-HYDROXYCARBANILATE □ ETHYL (3-HYDROXYPHENYL)CARBAMATE □ ETHYL N-(3-HYDROXYPHENYL)CARBAMATE □ m-HYDROXYCARBANILIC ACID ETHYL ESTER

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#06547

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.

ELE700 CAS: 98114-63-7 HR: D
(E)-ETHYLHYDROXYDIAZENE POTASSIUM SALT

mf: C₂H₅N₂O•K mw: 112.19

SYNS: DIAZENE, ETHYLHYDROXY-, POTASSIUM SALT, (E)- □ POTASSIUM (E)-PROPANEDIAZOTATE

TOXICITY DATA with REFERENCE:

mic-esc 500 nmol/plate MUREAV 412,99,1998

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

ELE720 CAS: 98114-60-4 HR: D
(Z)-ETHYLHYDROXYDIAZENE POTASSIUM SALT

mf: C₂H₅N₂O•K mw: 112.19

SYNS: DIAZENE, ETHYLHYDROXY-, POTASSIUM SALT, (Z)- □ POTASSIUM Z-PROPANEDIAZOTATE

TOXICITY DATA with REFERENCE:

mic-sat 1 µmol/plate MUREAV 412,99,1998

mic-esc 500 nmol/plate MUREAV 412,99,1998

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

ELF100 CAS: 33765-68-3 HR: 2
16-ETHYL-17-HYDROXYESTER-4-EN-3-ONE

mf: C₂₀H₃₀O₂ mw: 302.50

PROP: Crystals from ether. Mp: 152–153°.

SYNS: 16-β-ETHYL-17-β-HYDROXYESTR-4-EN-3-ONE □ 16-β-ETHYL-17-β-HYDROXY-4-ESTREN-3-ONE □ 16-β-ETHYL-19-NORTESTOSTERONE □ OXENDOLONE □ PROSTETIN □ TSAA 291

TOXICITY DATA with REFERENCE:

ims-rat TDLo:150 mg/kg (female 30D pre):REP YACHDS 7,943,79

orl-rat LD50:12,105 mg/kg YACHDS 7,937,79

ipr-rat LD50:5879 mg/kg YACHDS 7,937,79

orl-mus LD50:5480 mg/kg IYKEDH 12,1204,81

ipr-mus LD50:2925 mg/kg YACHDS 7,937,79

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Experimental reproductive effects. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

ELF110 CAS: 33765-80-9 HR: 1
16-β-ETHYL-17-β-HYDROXYESTER-4-EN-3-ONE ACETATE

mf: C₂₂H₃₂O₃ mw: 344.54

SYNS: 17-β-ACETOXY-16-β-ETHYLESTR-4-EN-3-ONE □ (16-β,17-β)-17-(ACETYLOXY)-16-ETHYL-ESTR-4-EN-3-ONE (9CI) □ TSAA-328

TOXICITY DATA with REFERENCE:

ipr-rat LD50:6100 mg/kg TAKHAA 32,330,73

ipr-mus LD50:7500 mg/kg TAKHAA 32,330,73

ims-mus LDLo:10 g/kg TAKHAA 32,330,73

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

ELF500 CAS: 1164-38-1 HR: 3
ETHYL (2-HYDROXYETHYL)DIMETHYLAMMONIUM BENZILATE CHLORIDE

mf: C₂₀H₂₆NO₃•Cl mw: 363.92

PROP: Crystals from Me₂CO/EtOH. Mp: 213°.

SYNS: BENZILIC ACID, ester with ETHYL (2-HYDROXY-ETHYL)DIMETHYLAMMONIUM CHLORIDE □ BENZILYLOXY-ETHYLDIMETHYLETHYLAMMONIUM CHLORIDE □ E-3 □ N-ETHYL-2-((HYDROXYDIPHENYL-ACETYL)OXY)-N,N-DIMETHYLETHANAMINIUM CHLORIDE □ ETHYL(2-HYDROXYETHYL)DIMETHYLAMMONIUM CHLORIDE BENZILATE □ LACHESIN □ LACHESINE CHLORIDE □ LAXESIN

TOXICITY DATA with REFERENCE:

orl-mus LD50:1 g/kg MEIEDD 10,767,83

ipr-mus LD50:40 mg/kg MEIEDD 10,767,83

scu-mus LD50:160 mg/kg MEIEDD 10,767,83

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Cl₂, NH₃, and NO_x.

ELG000 CAS: 63918-38-7 HR: 3
ETHYL-β-HYDROXYETHYLETHYLENIMONIUM PICRYLSULFONATE

mf: C₆H₁₄NO•C₆H₂N₃O₉S mw: 408.38

SYNS: 1-ETHYL-1-(2-HYDROXYETHYL)AZIRIDINIUM-2,4,6-TRINITROBENZENESULFONATE □ 1-ETHYL-1-(2-HYDROXY-ETHYL)AZIRIDINIUM SALT with 2,4,6-TRINITROBENZENESULFONIC ACID □ ETHYL(2-HYDROXYETHYL)ETHYLENIMONIUM PICRYLSULFONATE □ 1-ETHYL-1-(β-HYDROXYETHYL)ETHYLENIMONIUM PICRYLSULFONATE

TOXICITY DATA with REFERENCE:

scu-mus LD50:5500 µg/kg JPETAB 91,224,47

ivn-mus LD50:5 mg/kg JPETAB 91,224,47

ivn-rbt LDLo:5 mg/kg JPETAB 91,224,47

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFONATES, PICRIC ACID, and NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

ELG100 CAS: 58066-96-9 HR: 3
N-ETHYL-N-(2-HYDROXYETHYL)-3-METHYL-4-NITROSOANILINE

mf: C₁₁H₁₆N₂O₂ mw: 208.29

SYNS: ETHANOL, 2-(ETHYL(3-METHYL-4-NITROSO-PHENYL)AMINO)- □ 2-(ETHYL(3-METHYL-4-NITROSO-PHENYL)AMINO)ETHANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:336 mg/kg NTIS** OTS0555955

orl-mus LD50:179 mg/kg NTIS** OTS0555955

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

ELG500 CAS: 13147-25-6 HR: 3
ETHYL-2-HYDROXYETHYLNITROSAMINE

mf: C₄H₁₀N₂O₂ mw: 118.16

CH₃CH₂N(N:O)C₂H₄OH

SYNS: AETHYL-AETHANOL-NITROSOAMIN (GERMAN) □ EENA □ EHEN □ N-ETHYL-N-HYDROXYETHYLNITROSAMINE □ 2-(ETHYLNITROSAMINO)ETHANOL □ N-NITROSOAETHYLAETHANOLAMIN (GERMAN) □ N-NITROSOETHYLETHANOLAMINE □ N-NITROSOETHYL-2-HYDROXYETHYLAMINE □ N-NITROSO-N-ETHYL-N-(2-HYDROXYETHYL)AMINE

TOXICITY DATA with REFERENCE:

mma-sat 20 µg/plate MUREAV 66,1,79

orl-rat TD:840 mg/kg/2W-C:NEO JJIND8 72,483,84

CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 17,83,78. EPA Genetic Toxicology Program.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Mutation data reported. Explodes when heated to 170°C. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

ELH000 CAS: 62641-68-3 HR: D
ETHYL-N-(2-HYDROXYETHYL)-N-NITROSO-CARBAMATE

mf: C₅H₁₀N₂O₄ mw: 162.17

SYN: N-(2-HYDROXYETHYL)-N-NITROSO CARBAMIC ACID ETHYL ESTER

TOXICITY DATA with REFERENCE:

mmo-sat 800 nmol/L MUREAV 48,131,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.

ELH600 CAS: 119-41-5 HR: 2
ETHYL-7-HYDROXYFLAVONE

mf: C₁₉H₁₆O₅ mw: 324.35

PROP: Crystals from 50% ethanol. Mp: 123–124°. Sol in the usual org solvs; sltly sol in water.

SYNS: 7-α-(ACETOXYETHANE)OXYFLAVONE □ ANGORLISIN □ CORIL □ CORLIN □ COROSANIN □ DILATAN KORE □ DOMUCOR □ EFLOXATE □ ETHYL FLAVONE-7-OXYACETATE □ ETHYL-7-FLAVONOXYACETATE □ ETHYL FLAVON-7-YLOXYACETATE □ ETHYL FLAVONYL-7-OXYACETATE □ FLACETHYLE □ 7-FLAVONE ETHYL HYDROXYACETATE □ FLAVONE-7-ETHYLOXYACETATE □ 7-FLAVONOXYACETIC ACID ETHYL ESTER □ OXIFLAVIL □ ((4-OXO-2-PHENYL-4H-1-BENZOPYRAN-7-YL)OXY)ACETIC ACID ETHYL ESTER □ OXYFLAVIL □ RE 1-0185 □ REC 1-0185 □ RECORDIL

TOXICITY DATA with REFERENCE:

ipr-rat LD50:3200 mg/kg MEIEDD 10,509,83

ipr-mus LD50:3200 mg/kg FRPSAX 13,561,58

ipr-gpg LD50:2 g/kg NIIRDN 6,125,82

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

ELH650 CAS: 69199-05-9 HR: 3
(E)-6-ETHYL-5-HYDROXY-3-(HYDROXY-METHYL)-5,6,7,8-TETRAHYDROCHROMONE

mf: C₁₂H₁₆O₄ mw: 224.28

SYNS: 4H-1-BENZOPYRAN-4-ONE, 5,6,7,8-TETRAHYDRO-6-ETHYL-5-HYDROXY-3-(HYDROXYMETHYL)-, (5S-trans)- □ CHROMONE, 5,6,7,8-TETRAHYDRO-6-ETHYL-5-HYDROXY-3-(HYDROXYMETHYL)-, (E)- □ DIPLODIOL □ DIPLOSPORIN

TOXICITY DATA with REFERENCE:

unr-ckn LD50:88,400 µg/kg JAFCAU 28,135,1980

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

ELH700 CAS: 80-55-7 HR: 2
ETHYL 2-HYDROXYISOBUTYRATE

mf: C₆H₁₂O₃ mw: 132.18

SYNS: ETHYL α-HYDROXYISOBUTYRATE □ ETHYL 2-HYDROXY-2-METHYLPROPANOATE □ ETHYL 2-METHYLLACTATE □ LACTIC ACID, 2-METHYL-, ETHYL ESTER □ 2-METHYLLACTIC ACID ETHYL ESTER □ PROPANOIC ACID, 2-HYDROXY-2-METHYL-, ETHYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

ims-gpg LDLo:2200 mg/kg JPETAB 76,189,42

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

ELH800 CAS: 5219-17-0 HR: D
4-ETHYL-7-HYDROXY-3-(p-METHOXY-PHENYL)COUMARIN

mf: C₁₈H₁₆O₄ mw: 296.34

SYNS: 2H-1-BENZOPYRAN-2-ONE, 4-ETHYL-7-HYDROXY-3-(4-METHOXYPHENYL)- □ COUMARIN, 4-ETHYL-7-HYDROXY-3-(p-METHOXYPHENYL)- □ SC 7801

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

ELI500 CAS: 10029-04-6 HR: 3
ETHYL-2-(HYDROXYMETHYL)ACRYLATE

mf: C₆H₁₀O₃ mw: 130.16**PROP:** A liquid. Bp: 47° @ 0.8 mm.**SYNS:** ETHYL- α -(HYDROXYMETHYL)ACRYLATE \square 2-(HYDROXYMETHYL)ACRYLIC ACID, ETHYL ESTER**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg MOD IHFCAY 6,1,67

eye-rbt 500 mg SEV IHFCAY 6,1,67

orl-rat LD50:620 mg/kg IHFCAY 6,1,67

skn-rbt LD50:360 mg/kg IHFCAY 6,1,67

SAFETY PROFILE: Poison by skin contact.

Moderately toxic by ingestion. A skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

ELI550 CAS: 24683-26-9 HR: 1
ETHYL 4-HYDROXY-2-METHYL-2H-1,2-BENZOTHAZINE-3-CARBOXYLATE 1,1-DIOXIDEmf: C₁₂H₁₃NO₅S mw: 283.32**SYN:** 2H-1,2-BENZOTHAZINE-3-CARBOXYLIC ACID, 4-HYDROXY-2-METHYL-, ETHYL ESTER, 1,1-DIOXIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4800 mg/kg MTPEEI (11),45,1996

ihl-rat LC50:1562 mg/m³ MTPEEI (11),45,1996

orl-gpg LD50:5300 mg/kg MTPEEI (11),45,1996

SAFETY PROFILE: Low toxicity by ingestion and inhalation. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**ELI600 CAS: 39544-02-0 HR: 3**
1-(2-ETHYL-7-(2-HYDROXY-3-((1-METHYLETHYL)AMINO)PROPOXY)-4-BENZOFURANYL) ETHANONEmf: C₁₈H₂₅NO₄ mw: 319.44**SYNS:** ETHANONE, 1-(2-ETHYL-7-(2-HYDROXY-3-((1-METHYLETHYL)AMINO)PROPOXY)-4-BENZOFURANYL)- \square 2-ETHYL-4-ACETYL-7-(2-HYDROXY-3-ISOPROPYLAMINO-PROPOXY)BENZOFURAN \square KETONE, 2-ETHYL-7-(2-HYDROXY-3-(ISOPROPYLAMINO)PROPOXY)-4-BENZOFURANYL METHYL**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:120 mg/kg GWXXBX #2223184

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** A poison by intravenous route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.**ELJ500 CAS: 1005-93-2 HR: 3**
2-ETHYL-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL, CYCLIC PHOSPHATE (1:1)mf: C₆H₁₁O₄P mw: 178.14**PROP:** Crystals from H₂O or Me₂CO. Mp: 207–208°.**SYNS:** 4-AETHYL-1-PHOSPHA-2,6,7-TRIOXABICYCLO(2.2.2)-OCTAN-1-OXID (GERMAN) \square 4-ETHYL-1-PHOSPHA-2,6,7-TRIOXABICYCLO(2.2.2)OCTANE-1-OXIDE \square 4-ETHYL-2,6,7-TRIOXA-1-PHOSPHABICYCLO(2.2.2)OCTANE-1-OXIDE**TOXICITY DATA with REFERENCE:**orl-rat LD50:3080 μ g/kg ARTODN 35,149,76ihl-rat LC50:30 mg/m³/1H ARTODN 35,149,76

skn-rat LD50:50 mg/kg ARTODN 35,149,76

ipr-rat LD50:960 μ g/kg ARTODN 35,149,76orl-mus LD50:3550 μ g/kg ARTODN 35,149,76

ipr-mus LD50:1 mg/kg SCIEAS 182,1135,73

ivn-mus LDLo:500 μ g/kg EJMCA5 13,207,78

orl-dog LD50:1 mg/kg ARTODN 35,149,76

orl-rbt LD50:5 mg/kg ARTODN 35,149,76

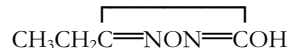
SAFETY PROFILE: Poison by ingestion, inhalation, skin contact, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic fumes of PO_x.**ELJ600 CAS: 22208-25-9 HR: 3**
2-ETHYL-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL TRIACETOACETATEmf: C₁₈H₂₆O₉ mw: 386.44**SYNS:** ACETOACETIC ACID, TRIESTER WITH 2-ETHYL-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL \square ACETOACETIC ACID, 1,1,1-TRIHYDROXY-METHYLPROPANE TRIESTER \square BUTANOIC ACID, 3-OXO-, 2-((1,3-DIOXOBUTOXY)METHYL)-2-ETHYL-1,3-PROPANEDIYL ESTER \square 1,3-PROPANEDIOL, 2-ETHYL-2-(HYDROXYMETHYL)-, TRIACETOACETATE \square TRIMETHYLOLPROPANE TRIACETOACETATE**TOXICITY DATA with REFERENCE:**orl-rat LD50:34,300 μ L/kg TXAPA9 28,313,1974

skn-rbt LD50:>16 mL/kg TXAPA9 28,313,1974

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.**ELK000 CAS: 78330-02-6 HR: 2**
ETHYL-4-HYDROXY-3-MORPHOLINOMETHYL-BENZOATEmf: C₁₃H₁₉NO₄ mw: 253.33**SYN:** 4-HYDROXY-3-MORPHOLINOMETHYLBENZOIC ACID ETHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-mus LDLo:3000 mg/kg ARZNAD 11,85,61

scu-mus LDLo:460 mg/kg ARZNAD 11,85,61

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x.**ELK500 CAS: 34529-29-8 HR: 3**
3-ETHYL-4-HYDROXY-1,2,5-OXADIAZOLEmf: C₄H₆N₂O₂ mw: 114.10**SYN:** 4-ETHYL-3-FURAZANONE**SAFETY PROFILE:** Reaction with sodium hydroxide forms an extremely unstable, explosive sodium salt. When heated to decomposition it emits toxic fumes of NO_x.**ELK600 CAS: 85850-93-7 HR: D**
3-((10-ETHYL-11-(p-HYDROXYPHENYL)DIBENZ-(B,F)OXEPIN-3-YL)OXY)-1,2-PROPANEDIOL HYDRATE (4:1)mf: C₂₅H₂₄O₅•1/4H₂O mw: 408.95**SYN:** 1,2-PROPANEDIOL, 3-((10-ETHYL-11-(p-HYDROXYPHENYL)DIBENZ(B,F)OXEPIN-3-YL)OXY)-, HYDRATE (4:1)**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

ELL500 CAS: 70-70-2 HR: 3**ETHYL-p-HYDROXYPHENYL KETONE**mf: C₉H₁₀O₂ mw: 150.19**PROP:** Needles or prisms from H₂O. Mp: 149°.**SYNS:** FRENANTOL □ FRENOHYPON □ H-365 □ p-HYDROXYPHENYL-1-PROPANONE □ 1-(4-HYDROXYPHENYL)-1-PROPANONE □ HYDROXYPROPIOPHENONE □ p-HYDROXYPROPIOPHENONE □ 4-HYDROXYPROPIOPHENONE □ HYPOPHENON □ p-OXYPROPIOPHENONE □ PAROXON □ PAROXYPROPIONONE □ PHP □ POP □ PROFENONE □ p-PROPIONYLPHENOL □ USAF EK-3302**TOXICITY DATA with REFERENCE:**

ims-rbt TDLo:1600 mg/kg (female 15-30D post):TER AOGNAX 66,286,61

orl-mus LD50:3 mg/kg 85JDAH -,197,74

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

scu-mus LD50:1130 µg/kg AIPTAK 124,212,60

par-frg LD50:91 mg/kg AIPTAK 124,212,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Poison by intraperitoneal, subcutaneous, and parenteral routes. An experimental teratogen. Other experimental reproductive effects. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.**ELL550 CAS: 24643-97-8 HR: D****3-ETHYL-2-(p-HYDROXYPHENYL)-1-METHYL-INDEN-6-OL**mf: C₁₈H₁₈O₂ mw: 266.36**SYNS:** INDENESTROL □ INDENESTROL A □ INDENESTROL A □ (+)-INDENESTROL A □ INDEN-6-OL, 3-ETHYL-2-(p-HYDROXYPHENYL)-1-METHYL- □ 1H-INDEN-6-OL, 3-ETHYL-2-(4-HYDROXYPHENYL)-1-METHYL-**TOXICITY DATA with REFERENCE:**

mnt-ham-emb 10 µmol/L MUREAV 311,85,1994

mnt-dom-oth 10 µmol/L MUREAV 311,85,1994

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**ELL600 CAS: 38906-58-0 HR: 3****ETHYL 3-(m-HYDROXYPHENYL)-1-METHYL-3-PYRROLIDINECARBOXYLATE**mf: C₁₄H₁₉NO₃ mw: 249.34**SYN:** 3-PYRROLIDINECARBOXYLIC ACID, 3-(m-HYDROXYPHENYL)-1-METHYL-, ETHYL ESTER**TOXICITY DATA with REFERENCE:**

ipr-rat LDLo:103 mg/kg JMCMA 15,930,72

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.**ELM000 CAS: 61734-88-1 HR: D****N-ETHYL-N-(3-HYDROXYPROPYL)NITROSAMINE**mf: C₅H₁₂N₂O₂ mw: 132.19**TOXICITY DATA with REFERENCE:**

mma-sat 15 µmol/plate CNREA 8 37,399,77

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. When heated todecomposition it emits toxic fumes of NO_x. See also NITROSAMINES.**ELM500 CAS: 624-85-1 HR: 3****ETHYL HYPOCHLORITE**mf: C₂H₅ClO mw: 80.52CH₃CH₂OCl**PROP:** Mobile, yellow liquid with irritating odor. Bp: 36° @ 752 mm. Misc in Et₂O, CHCl₃, and C₆H₆.**SAFETY PROFILE:** Very unstable. The vapor explodes on contact with flame, spark, or upon rapid heating. The cold liquid explodes on contact with copper. Incompatible with light. When heated to decomposition it emits toxic fumes of Cl⁻. See also HYPOCHLORITES.**ELM600 CAS: 38704-36-8 HR: D****7-ETHYLIDENECYCLOPENT(b)OXIRENO(c)-PYRIDINE HEXAHYDRO DERIV.**mf: C₁₀H₁₃NO mw: 163.24**SYNS:** DIHYDROABIKOVIRMYCIN □ CYCLOPENT(b)-OXIRENO(c)PYRIDINE, 7-ETHYLIDENE-, HEXAHYDRO DERIV.**TOXICITY DATA with REFERENCE:**

mic-sat 100 µLg/plate MUREAV 368,157,1996

dnr-esc 500 µg/L MUREAV 368,157,1996

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**ELN500 CAS: 75-37-6 HR: 3****ETHYLIDENE DIFLUORIDE**mf: C₂H₄F₂ mw: 66.06**PROP:** Colorless gas. Mp: -117.0°, bp: -26.5°, d: 1.004 @ 25°, vap d: 2.28.**SYNS:** ALGOFRENE TYPE 67 □ DIFLUOROETHANE □ 1,1-DIFLUOROETHANE □ ETHYLENE FLUORIDE □ ETHYLIDENE FLUORIDE □ FC 152a □ FREON 152 □ GENETRON 100 □ HALOCARBON 152A**TOXICITY DATA with REFERENCE:**

sln-dmg-ihl 98 pph/10M ENVRAL 7,275,74

ihl-rat LCLo:64,000 ppm/4H JIDHAN 31,343,49

ihl-mus LC50:977 g/m³/2H 85GMAT -,54,82**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Mildly toxic by inhalation. Mutation data reported. Narcotic in high concentration. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. See also FLUORIDES.**ELN600 CAS: 55044-04-7 HR: 3****ETHYLIDENE DINITRATE**mf: C₂H₄N₂O₆ mw: 152.06**SAFETY PROFILE:** A heat-sensitive explosive. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES.**ELO000 CAS: 539-71-9 HR: 2****ETHYLIDENE DIURETHAN**mf: C₈H₁₆N₂O₄ mw: 204.26**PROP:** Needles from H₂O. Sltly sol in H₂O. Mp: 125-126°, bp: 170-178° @ 20 mm.

SYNS: N,N'-ETHYLIDENE-BIS(ETHYL CARBAMATE) □ ETHYLIDENEDICARBAMIC ACID, DIETHYL ESTER

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

ELO500 CAS: 16219-75-3 HR: 2
ETHYLIDENE NORBORNENE

mf: C₉H₁₂ mw: 120.21

PROP: Bp: 70.2–70.4° @ 58 mm.

SYNS: 5-ETHYLIDENEBICYCLO(2.2.1)HEPT-2-ENE □ 5-ETHYLIDENE-2-NORBORNENE

TOXICITY DATA with REFERENCE:

skn-rbt 445 mg open MLD UCDS** 11/28/67
ihl-hmn TCLO:6 ppm/30M:NOSE,EYE,TONG
TXAPA9 20,250,71

orl-rat LD50:2527 mg/kg AIHAAP 30,470,69
ihl-rat LC50:1246 ppm/4H TXAPA9 20,250,71
ihl-rat LC50:1246 ppm/4H TXAPA9 20,250,71
orl-mus LD50:3250 mg/kg GTPZAB 18(10),52,74
ihl-mus LC50:732 ppm/4H TXAPA9 20,250,71
ihl-rbt LC50:3104 ppm/4H TXAPA9 20,250,71
skn-rbt LD50:8189 mg/kg AIHAAP 30,470,69
ihl-gpg LC50:2896 ppm/4H TXAPA9 20,250,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 5 ppm

ACGIH TLV: CL 5 ppm

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by inhalation and skin contact. Human systemic effects by inhalation: conjunctiva, olfactory, and taste changes. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

ELO600 CAS: 27955-94-8 HR: 1
4,4',4''-ETHYLIDYNETRISPENOL

mf: C₂₀H₁₈O₃ mw: 306.38

SYNS: PHENOL, 4,4',4''-ETHYLIDYNETRI- □ PHENOL, 4,4',4''-ETHYLIDYNETRIS- □ TRIS(4-HYDROXYPHENYL)ETHANE

TOXICITY DATA with REFERENCE:

eye-rbt 90 mg MLD NTIS** OTS0530499-1
orl-rat LD50:>5 g/kg NTIS** OTS0530499-1
skn-rat LD50:>2 g/kg NTIS** OTS0530499-1

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

ELP000 CAS: 139-87-7 HR: 2
N-ETHYL-2,2'-IMINODIETHANOL

mf: C₆H₁₅NO₂ mw: 133.22

PROP: A liquid. Mp: –50°, bp: 246–252°.

SYNS: DIETHANOLETHYLAMINE □ ETHANOL, 2,2'-(ETHYLIMINO)BIS-(9CI) □ ETHYLBIS(2-HYDROXYETHYL)-AMINE □ ETHYLDIETHANOLAMINE □ N-ETHYLDI-ETHANOLAMINE □ 2-(N-ETHYL-N-2-HYDROXYETHYL-AMINO)ETHANOL □ 2,2'-(ETHYLIMINO)BISETHANOL □ 2,2'-(ETHYLIMINO)DIETHANOL

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 LD50:4570 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ELP500 CAS: 75-03-6 HR: 3
ETHYL IODIDE

mf: C₂H₅I mw: 155.97

PROP: Clear, refractive, heavy, colorless liquid with ethereal odor; turns brownish-red on exposure to light. Mp: –108°, bp: 72.4°, d: 1.948 @ 15°, vap press: 100 mm @ 18.0°, vap d: 5.38. Misc in org solvs; very sltly sol in H₂O (gradual decomp).

SYNS: ETHYL IODIDE □ ETHYLJODID □ HYDRIODIC ETHER □ IODOETHANE □ JODETHAN

TOXICITY DATA with REFERENCE:

mno-esc 20 µmol/L ARTODN 46,277,80
dnd-esc 1 µmol/L ARTODN 46,277,80
ihl-rat LC50:65,000 mg/m³/30M FAVUAI 7,35,75
ipr-rat LD50:330 mg/kg 85GMAT -,68,82
ipr-mus LD50:560 mg/kg 85GMAT -,68,82
scu-mus LD50:1000 mg/kg JJPAAZ 3,99,54
ipr-gpg LD50:322 mg/kg 85GMAT -,68,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. Mildly toxic by inhalation. Mutation data reported. A skin, eye, and mucous membrane irritant. Narcotic in high concentration. Flammable when exposed to heat or flame, a preparative hazard. Will react with water or steam to produce toxic and corrosive fumes; can react vigorously with oxidizing materials. Incompatible with silver chlorite. To fight fire, use water, CO₂, dry chemical. When heated to decomposition it emits highly toxic fumes of I[–]. See also IODIDES.

ELQ000 CAS: 623-48-3 HR: 3
ETHYL IODOACETATE

mf: C₄H₇IO₂ mw: 214.01

PROP: Dense, colorless liquid. Bp: 179°, d: 1.80, vap press: 0.54 mm @ 20°, vap d: 7.4.

SYNS: ETHYL MONOiodoacetate □ IODOACETIC ACID ETHYL ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LD50:45 mg/kg JNCIAM 31,297,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. A skin, eye, and mucous membrane irritant. Will react with water or steam to produce toxic and corrosive fumes. When heated to decomposition or on contact with acid or acid fumes it emits highly toxic fumes of I[–]. See also IODIDES and ESTERS.

ELQ050 CAS: 60075-64-1 HR: 3
ETHYL p-IODOBENZYL CARBONATE

mf: C₁₀H₁₁IO₃ mw: 306.11

SYNS: CARBONIC ACID, ETHYL p-IODOBENZYL ESTER □ CARBONIC ACID, ETHYL (4-IODOPHENYL)METHYL ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:1700 µL/kg JMC MAR 19,1362,76

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of I⁻.**ELQ100****HR: 3****ETHYL IODOMETHYLARSINE**mf: C₃H₈AsI mw: 245.92CH₃CH₂As(I)CH₃**CONSENSUS REPORTS:** Arsenic and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Arsenic compounds are poisons. Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of I⁻ and As. See also ARSENIC COMPOUNDS and IODIDES.**ELQ200****CAS: 60075-76-5****HR: 3****ETHYL p-IODOPHENYLETHYL CARBONATE**mf: C₁₁H₁₃IO₃ mw: 320.14**SYNS:** CARBONIC ACID, ETHYL p-IODOPHENETHYL ESTER**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:3 mL/kg JMC MAR 19,1362,76

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of I⁻.**ELQ500****CAS: 99-79-6****HR: 2****ETHYL-10-(p-IODOPHENYL)UNDECYLATE**mf: C₁₉H₂₉IO₂ mw: 416.38**PROP:** Viscous liquid. D: 1.240–1.263 @ 20°/20°, bp: 196–198° @ 1 mm. Sltly sol in H₂O; sol in EtOH, C₆H₆, and CHCl₃.**SYNS:** ETHIODAN □ ETHYL 10-(p-IODOPHENYL)UNDECANOATE □ IOFENDYLATE □ IOPHENDYLATE □ MOLSOPAQUE □ MYODIL □ MYODYL □ NEUROTRAST □ PANTOPAQUE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2100 mg/kg DRUGAY 6,65,82

ipr-rat LD50:1130 mg/kg RPTOAN 34,38,71

ipr-mus LD50:5640 mg/kg RPTOAN 34,38,71

ivn-rbt LD50:1 g/kg RPTOAN 34,38,71

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic fumes of I⁻.**ELQ600****CAS: 3737-33-5****HR: 3****ETHYLISOBUTRAZINE HYDROCHLORIDE**mf: C₂₀H₂₆N₂S·ClH mw: 363.00**SYNS:** 2-ETHYL-10-(3-DIMETHYLAMINO-2-METHYLPROPYL)-PHENOTHIAZINE HYDROCHLORIDE □ ETHYMEMAZINE MONOHYDROCHLORIDE □ NUTAL □ PHENOTHIAZINE, 10-(3-(DIMETHYLAMINO)-2-METHYLPROPYL)-2-ETHYL-, MONOHYDROCHLORIDE □ 10H-PHENOTHIAZINE-10-PROPANAMINE, 2-ETHYL-N,N,β-TRIMETHYL-, MONOHYDROCHLORIDE □ SERGETYL**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:110 mg/kg 27ZQAG-,22,1972

ivn-mus LD50:70 mg/kg 27ZQAG-,22,1972

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic vapors of NO_x, SO_x, HCl, and Cl⁻.**ELS000****CAS: 97-62-1****HR: 3****ETHYL ISOBUTYRATE****DOT:** UN 2385mf: C₆H₁₂O₂ mw: 116.18**PROP:** Colorless, volatile liquid; fruity, aromatic odor.

Mp: -88°, bp: 110–111°, d: 0.869, vap press: 40 mm @ 33.8°, vap d: 4.01, refr index: 1.385, flash p: <64.4°F.

SYNS: ETHYL ISOBUTANOATE □ ETHYLISOBUTYRATE (DOT) □ ETHYL-2-METHYLPROPANOATE □ ETHYL-2-METHYLPROPIONATE □ FEMA No. 2428 □ ISOBUTYRIC ACID, ETHYL ESTER □ 2-METHYLPROPIONIC ACID, ETHYL ESTER**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 16,741,78

ipr-mus LD50:800 mg/kg FCTXAV 16,741,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. A skin irritant. Flammable liquid. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.**ELS500****CAS: 109-90-0****HR: 3****ETHYL ISOCYANATE****DOT:** UN 2481mf: C₃H₅NO mw: 71.09**PROP:** Pungent smelling liquid. Bp: 60°, d: 0.90 @ 20°/4°, vap d: 2.45.**SYNS:** ETHYL ISOCYANATE (DOT) □ ISOCYANATOETHANE □ ISOCYANIC ACID, ETHYL ESTER**TOXICITY DATA with REFERENCE:**

mmo-sat 50 µg/plate ABCHA6 44,3017,80

ivn-mus LD50:56 mg/kg CSLNX* NX#02910

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid, Poison; DOT Class: 6.1; Label: Poison; DOT Class: 6.1; Label: Poison, Flammable Liquid; DOT Class: 3; Label: Flammable Liquid, Poison**SAFETY PROFILE:** Poison by intravenous route. Mutation data reported. A flammable liquid. When heated to decomposition it emits toxic fumes of NO_x. See also CYANATES.**ELS600****CAS: 2949-22-6****HR: 3****ETHYL ISOCYANATOACETATE**mf: C₅H₇NO₃ mw: 129.13**SYNS:** ACETIC ACID, ISOCYANATO-, ETHYL ESTER □ CARBETHOXYMETHYL ISOCYANATE □ ETHOXY-CARBONYLMETHYL ISOCYANATE □ ETHYL GLYCOLATE ISOCYANATE □ ISOCYANATOACETIC ACID ETHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1130 mg/kg NTIS** OTS0528334

ihl-rat LC :>760 ppm/6H NTIS** OTS0528334

orl-mus LD50:1600 mg/kg NTIS** OTS0528334

orl-gpg LD50:800 mg/kg NTIS** OTS0528334

ipr-gpg LD50:50 mg/kg NTIS** OTS0528334

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

ELT000 CAS: 624-79-3 HR: 3
ETHYL ISOCYANIDE

mf: C₃H₅N mw: 55.08
 CH₃CH₂N=C:

PROP: Colorless liquid. D: 0.7402 @ 20°/4°, mp: <−66°, bp: 79°. Sltly sol in water and org solvs.

SYNS: ETHYL ISONITRILE □ ISOCYANOETHANE

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

SAFETY PROFILE: Probably very toxic. Can explode upon heating. When heated to decomposition it emits toxic fumes of CN[−]. See also NITRILES.

ELT100 CAS: 1983-99-9 HR: 2
ETHYL 4-ISOCYANOENZOATE

mf: C₁₀H₉NO₂ mw: 175.20

SYNS: BENZOIC ACID, p-ISOCYANO-, ETHYL ESTER □ BENZOIC ACID, 4-ISOCYANO-, ETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD :>5 g/kg USXXAM #3422190

scu-mus LD :>1 g/kg USXXAM #3422190

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

ELT500 CAS: 106-67-2 HR: 2
2-ETHYLISOHEXANOL

mf: C₈H₁₈O mw: 130.26

SYNS: 2-ETHYL-4-METHYLPENTANOL □ 2-ETHYL-4-METHYL-1-PENTANOL

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:4290 mg/kg AIHAAP 23,95,62

orl-mus LDLo:1600 mg/kg KODAK* -,71

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.

ELU000 CAS: 1570-45-2 HR: 3
ETHYL ISONICOTINATE

mf: C₈H₉NO₂ mw: 151.18

PROP: Bp: 219–220°.

SYNS: ISONICOTINIC ACID, ETHYL ESTER □ 4-PYRIDINE-CARBOXYLIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#03434

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ELX000 CAS: 76-76-6 HR: 3
ETHYL ISOPROPYLBARBITURIC ACID

mf: C₉H₁₄N₂O₃ mw: 198.25

PROP: Needles. Mp: 197–198°.

SYNS: 5-ETHYL-5-ISOPROPYLBARBITURIC ACID □ 5-ETHYL-5-(1-METHYLETHYL)-2,4,6-(1H,3H,5H)-PYRIMIDINETRIONE □ IPRAL □ IRENAL □ PROBARBITAL □ PROBARBITONE □ VASALGIN

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:110 mg/kg JPETAB 44,325,32

scu-rat LDLo:110 mg/kg JPETAB 26,371,25

ipr-mus LDLo:250 mg/kg 27ZWAY -,36

orl-cat LDLo:140 mg/kg 27ZWAY -,36

orl-rbt LDLo:150 mg/kg JPETAB 44,337,32

ipr-rbt LDLo:110 mg/kg JPETAB 44,325,32

scu-rbt LDLo:200 mg/kg JACSAT 45,243,23

ivn-rbt LDLo:140 mg/kg JPPGAR 30,364,32

orl-bwd LD50:24 mg/kg TXAPA9 21,315,72

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

ELX100 HR: 3
ETHYL ISOPROPYL FLUOROPHOSPHONATE

mf: C₅H₁₂FOP mw: 138.14

SYN: ISOPROPYL ETHANE FLUOROPHOSPHONATE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:260 mg/m³/10M NTIS** PB158-508

ihl-mus LC50:245 mg/m³/5M NTIS** PB158-508

skn-mus LD50:1700 µg/kg NTIS** PB158-508

scu-mus LD50:400 µg/kg NTIS** PB158-508

ihl-dog LC50:230 mg/m³/10M NTIS** PB158-508

ihl-mky LC50:210 mg/m³/10M NTIS** PB158-508

ihl-cat LC50:170 mg/m³/10M NTIS** PB158-508

ihl-rbt LC50:230 mg/m³/10M NTIS** PB158-508

ihl-gpg LC50:350 mg/m³/10M NTIS** PB158-508

SAFETY PROFILE: Poison by inhalation, skin contact, and subcutaneous routes. When heated to decomposition it emits toxic fumes of F[−] and PO_x. See also ESTERS.

ELX500 CAS: 16339-04-1 HR: 2
ETHYL ISOPROPYLNITROSAMINE

mf: C₅H₁₂N₂O mw: 116.19

PROP: Bp: 70° @ 11 mm.

SYNS: AETHYL-ISOPROPYL-NITROSAMIN (GERMAN) □ 1-METHYL-N-NITROSODIETHYLAMINE □ N-NITROSOETHYLISOPROPYLAMINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1100 mg/kg NATWAY 50,100,63

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

ELX525 CAS: 542-85-8 HR: D
ETHYL ISOTHIOCYANATE

mf: C₃H₅NS mw: 87.15

SYNS: ETHANE, ISOTHIOCYANATO-(9CI) □ ETHYL MUSTARD OIL □ ISOTHIOCYANATOETHANE □ ISOTHIOCYANIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

mno-sat 100 µg/plate ABCHA6 44,3017,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ELX527 CAS: 17126-65-7 HR: 3

ETHYL 4-ISOTHIOCYANATOBUTANOATE

mf: C₇H₁₁NO₂S mw: 173.25

SYNS: BUTYRIC ACID, 4-ISOTHIOCYANATO-, ETHYL ESTER
□ BUTANOIC ACID, 4-ISOTHIOCYANATO-, ETHYL ESTER □
E-41B □ ETHYL 4-ISOTHIOCYANATOBUTYRATE □ ETHYL-4-ISOTHIOCYANATOBUTANOATE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:140 mg/kg TXYAC 145,217,2000

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

ELX530 CAS: 24066-82-8 HR: 3

ETHYL ISOTHIOCYANOACETATE

mf: C₅H₇NO₂S mw: 145.19

SYNS: ACETIC ACID, ISOTHIOCYANATO-, ETHYL ESTER □
CARBETHOXYMETHYL ISOTHIOCYANATE □ CARBO-
ETHOXYMETHYL ISOTHIOCYANATE □ ETHYL
ISOTHIOCYANOACETATE

TOXICITY DATA with REFERENCE:

scu-rat LDLo:350 mg/kg AIPTAK 35,314,29

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ELY550 CAS: 22722-03-8 HR: 3

S-ETHYLISOTHIURONIUM HYDROGEN SULFATE

mf: C₃H₁₀N₂O₄S₂ mw: 202.24



SYN: ETHYL CARBAMMONIOTHIOATE HYDROGEN SULFATE

SAFETY PROFILE: Reacts with chlorine to produce the dangerously explosive nitrogen trichloride. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also SULFATES.

ELY575 CAS: 21704-44-9 HR: 3
S-ETHYLISOTHIURONIUM METAPHOSPHATE

mf: C₃H₈N₂S•HO₃P mw: 184.17

SYNS: CARBAMIMIDOTHIOIC ACID, ETHYL ESTER with
METAPHOSPHORIC ACID (1:1) □ 2-ETHYL-2-THIO-
PSEUDOURA with METAPHOSPHORIC ACID (1:1)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:338 mg/kg FATOAO 43,212,80

orl-mus LD50:2490 mg/kg FATOAO 43,212,80

ipr-mus LD50:455 mg/kg FATOAO 43,212,80

scu-mus LD50:472 mg/kg FATOAO 43,212,80

ims-mus LD50:450 mg/kg FATOAO 43,212,80

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

ELY700 CAS: 106-33-2 HR: 2

ETHYL LAURATE

mf: C₁₄H₂₈O₂ mw: 228.37

PROP: Colorless, oily liquid; fruity-floral odor. D: 0.858, refr index: 1.430, bp: 163° @ 25 mm, flash p: 212°F. Misc in alc, chloroform, ether; insol in water @ 269°.

SYNS: ETHYL DODECANOATE □ FEMA No. 2441

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

ELZ000 CAS: 10339-55-6 HR: 1

ETHYL LINALOOL

mf: C₁₁H₂₀O mw: 168.31

SYN: 3,7-DIMETHYL-16-NONADIEN-3-OL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,767,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ELZ050 CAS: 40910-49-4 HR: 1

ETHYLLINALYL ACETAL

mf: C₁₄H₂₆O₂ mw: 226.40

SYNS: ACETALDEHYDE ETHYL LINALYL ACETAL □ 3,7-DIMETHYL-3-(1-ETHOXYETHOXY)-1,6-OCTADIENE □ ELINTAAL □ 1-ETHOXY-1-LINALYLOXETHANE □ 1,6-OCTADIENE, 3,7-DIMETHYL-3-(1-ETHOXYETHOXY)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTOD7 26,281,88

skn-rbt LD50:>5 g/kg FCTOD7 26,281,88

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.

ELZ100 CAS: 35960-85-0 HR: 3

ETHYLLITHIUM

mf: C₂H₅Li mw: 36.00

SAFETY PROFILE: Ignites spontaneously in air. See also LITHIUM COMPOUNDS. When heated to decomposition it emits acrid smoke and irritating fumes.

EMA000 CAS: 10467-10-4 HR: 3

ETHYL MAGNESIUM IODIDE

mf: C₂H₅IMg mw: 180.27



SAFETY PROFILE: Mixtures with ethoxyacetylene in ether are explosive. When heated to decomposition it emits toxic fumes of I⁻. See also IODIDES and MAGNESIUM COMPOUNDS.

EMA500 CAS: 105-53-3 HR: 2

ETHYL MALONATE

mf: C₇H₁₂O₄ mw: 160.19

PROP: Clear, colorless liquid; fruit-like odor. Bp: 198.9°, fp: -49.8°, flash p: 200°F (OC), d: 1.055 @ 20°/4°, refr index: 1.413-1.416, vap press: 1 mm @ 40.0°, vap d: 5.52. Sol in fixed oils, propylene glycol; sltly sol in alc, water; insol in glycerin, mineral oil @ 200°.

SYNS: CARBETHOXYACETIC ESTER □ DICARBETHOXY-METHANE □ DIETHYL MALONATE (FCC) □ DIETHYL PROPANEDIOATE □ FEMA No. 2375 □ MALONIC ACID, DIETHYL ESTER □ MALONIC ESTER □ METHANEDICARBOXYLIC ACID, DIETHYL ESTER □ PROPANEDIOIC ACID, DIETHYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,745,76
 orl-rat LD50:15 g/kg AIHAAP 30,470,69
 orl-mus LD50:6400 mg/kg BIJOAK 34,1196,40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. Combustible liquid when exposed to heat or flame; can react with oxidizing materials. To fight fire, use water to blanket fire, foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

EMA600 CAS: 4940-11-8 HR: 2
ETHYL MALTOL

mf: C₇H₈O₃ mw: 140.15

PROP: White crystalline powder; sweet fruity taste. Mp: 90°. Sol in water, alc, propylene glycol, chloroform.

SYNS: 2-ETHYL-3-HYDROXY-4H-PYRAN-4-ONE □ 2-ETHYL PYROMECONIC ACID □ 3-HYDROXY-2-ETHYL-4-PYRONE

TOXICITY DATA with REFERENCE:

mmo-sat 1 mg/plate MUREAV 67,367,79
 orl-rat LD50:1150 mg/kg TXAPA9 15,604,69
 orl-mus LD50:780 mg/kg TXAPA9 15,604,69
 scu-mus LD50:910 mg/kg CPBTAL 22,1008,74
 orl-ckn LD50:1270 mg/kg TXAPA9 15,604,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

EMB000 CAS: 774-40-3 HR: 2
ETHYL MANDELATE

mf: C₁₀H₁₁O₂ mw: 163.21

PROP: Crystals.

SYNS: MANDELIC ACID, ETHYL ESTER □ MANDELSAEUREAETHYLESTER (GERMAN)

TOXICITY DATA with REFERENCE:

eye-rbt 5 mg AJOPAA 29,1363,46
 orl-rat LD50:3750 mg/kg ARZNAD 12,347,62

SAFETY PROFILE: Moderately toxic by ingestion. An eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

EMB100 CAS: 75-08-1 HR: 3
ETHYL MERCAPTAN

DOT: UN 2363

mf: C₂H₆S mw: 62.14

PROP: Colorless, volatile liquid with penetrating garlic-like odor. Fp: -148°, mp: -121°, bp: 36.1°, lel: 2.8%, uel: 18.2%, d: 0.83907 @ 20°/4°, autoign temp: 570°F, vap d:

2.14, flash p: <-0.4°F. Sol in EtOH, Et₂O, alkalies; very sltly sol in H₂O. IDLH 500 ppm.

SYNS: AETHANETHIOL (GERMAN) □ AETHYLMERCAPTAN (GERMAN) □ ETANTIOLO (ITALIAN) □ ETHAANTHIOLO (DUTCH) □ ETHANETHIOL □ ETHYL HYDROSULFIDE □ ETHYLMERCAPTAAN (DUTCH) □ ETHYLMERKAPTAN (CZECH) □ ETHYL SULFHYDRATE □ ETHYL THIOALCOHOL □ ETILMERCAPTANO (ITALIAN) □ LPG ETHYL MERCAPTAN 1010 □ THIOETHANOL □ THIOETHYL ALCOHOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,982,86
 eye-rbt 84 mg AIHAAP 19,171,58
 eye-rbt 100 mg/24H MOD 85JCAE -,982,86
 orl-rat LD50:1960 mg/kg 28ZPAK -,166,72
 ihl-rat LC50:4420 ppm/4H AIHAAP 19,171,58
 ipr-rat LD50:450 mg/kg AIHAAP 19,171,58
 ihl-mus LD50:2770 mg/kg AIHAAP 19,171,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.5 ppm

ACGIH TLV: TWA 0.5 ppm

DFG MAK: 0.5 ppm (1.3 mg/m³)

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

DOT CLASSIFICATION: 3; Label: Flammable Liquid; DOT Class: 6.1; Label: Poison, Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and intraperitoneal routes. A skin and eye irritant. Inhalation causes central nervous system effects in humans. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. A moderate explosion hazard when exposed to spark or flame. Violent reaction with Ca(OCl)₂. Will react with water or steam to produce toxic and flammable vapors. To fight fire, use CO₂, dry chemical. When heated to decomposition or on contact with acid or acid fumes it emits highly toxic fumes of SO_x. See also MERCAPTANS.

EMB200 CAS: 623-51-8 HR: 3
ETHYL-2-MERCAPTOACETATE

mf: C₄H₈O₂S mw: 120.18

PROP: Bp: 156-158°.

SYNS: ETHYL MERCAPTOACETATE □ ETHYL-α-MERCAPTOACETATE □ ETHYL MERCAPTOACETIC ACID □ ETHYL THIOGLYCOLATE □ MERCAPTOACETIC ACID ETHYL ESTER □ THIOGLYCOLIC ACID ETHYL ESTER □ THIOGLYKOLSAEURE-AETHYLESTER (GERMAN) □ USAF EK-2070

TOXICITY DATA with REFERENCE:

ork-rat LD50:178 mg/kg ZHYGAM 20,575,74
 ipr-rat LD50:176 mg/kg ZHYGAM 20,575,74
 ipr-mus LD50:100 mg/kg NTIS** AD277-689

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x. See also MERCAPTANS.

EMC000 CAS: 5840-95-9 HR: 3
ETHYL (2-MERCAPTOETHYL) CARBAMATE S-ESTER with O,O-DIMETHYL PHOSPHORODITHIOATE

mf: $C_7H_{16}NO_4PS_2$ mw: 273.33

SYNS: (2-((DIETHOXYPHOSPHINOTHIOYL)THIO)ETHYL)CARBAMIC ACID, ETHYL ESTER □ S-(O,O-DIMETHYLPHOSPHORODITHIOATE) of N-(2-MERCAPTOETHYL)ETHYL CARBAMATE □ ENT 25,801 □ ETHYL (2-((DIETHOXYPHOSPHINOTHIOYL)THIO)ETHYL)CARBAMATE □ ETHYL-N-(2-(O,O-DIMETHYLPHOSPHORODITHIOYL)ETHYL)CARBAMATE □ (2-MERCAPTOETHYL)CARBAMIC ACID, ETHYL ESTER, S-ESTER with O,O-DIMETHYL PHOSPHORODITHIOATE □ R-3422-S □ STAUFFER R-3442-S

TOXICITY DATA with REFERENCE:

orl-rat LD50:108 mg/kg 28ZEAL 4,220,69
orl-mus LDLo:470 mg/kg AECTCV 14,111,85
orl-ckn LD50:255 mg/kg TXAPA9 7,606,65

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of NO_x , PO_x , and SO_x . See also CARBAMATES.

EMC100 CAS: 74789-25-6 HR: 3
ETHYL 2-(MERCAPTOMETHYLTHIO)ACETATE
S-TER with OETHYLMETHYLPHOSPHONOTHIOATE

mf: $C_8H_{17}O_4PS_2$ mw: 272.34

SYN: ACETIC ACID, 2-(MERCAPTOMETHYLTHIO)-, ETHYL ESTER, S-ESTER with O-ETHYL METHYLPHOSPHONOTHIOATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:25 mg/kg BACCAT 29(5,Pt2),838,1980

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

EMC500 CAS: 5427-20-3 HR: 3
9-ETHYL-6-MERCAPTOPURINE

mf: $C_7H_8N_4S$ mw: 180.25

SYNS: 9-ETHYL-1,9-DIHYDRO-6H-PURINE-6-THIONE □ 9-ETHYL-6-MP □ 9-ETHYL-9H-PURINE-6-THIOL □ 9-ETHYL-9H-PURINE-6(1H)-THIONE □ NSC-14575

TOXICITY DATA with REFERENCE:

ipr-rat LD50:400 mg/kg ADTEAS 3,181,68
ipr-mus LD50:289 mg/kg NCISP* JAN86

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x . See also MERCAPTANS.

EMD000 CAS: 109-62-6 HR: 3
ETHYLMERCURIC ACETATE

mf: $C_4H_8HgO_2$ mw: 288.71

PROP: Crystals from CCl_4 . Mp: 69–69.8°. IDLH 10 mg/ m^3 (as Hg).

SYNS: (ACETATO-O)ETHYLMERCURY □ ETHYLMERKURIACETAT

TOXICITY DATA with REFERENCE:

orl-ckn LDLo:29 mg/kg TXAPA9 3,459,61

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

OSHA PEL: TWA 0.01 mg(Hg)/ m^3 ; STEL 0.03 mg/ m^3 (skin)

ACGIH TLV: TWA 0.01 mg(Hg)/ m^3 ; BEI: 35 μ g/g creatinine total inorganic mercury in urine preshift; 15

μ g/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Organo) TWA 0.01 mg/ m^3 ; STEL 0.03 mg/ m^3 (skin)

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

EME000 CAS: 21082-50-8 HR: 3
ETHYLMERCURIC CYSTEINE

mf: $C_5H_{11}NO_2S \cdot Hg$ mw: 349.82

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

SYN: ETHYL(HYDROGEN CYSTEINATO)MERCURY

TOXICITY DATA with REFERENCE:

cyt-hmn:hla 1 mg/L JJEMAG 39,47,69
scu-rat LD50:131 mg/kg JJEMAG 39,47,69

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

OSHA PEL: TWA 0.01 mg(Hg)/ m^3 ; STEL 0.03 mg/ m^3 (skin)

ACGIH TLV: TWA 0.01 mg(Hg)/ m^3 ; BEI: 35 μ g/g creatinine total inorganic mercury in urine preshift; 15 μ g/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

SAFETY PROFILE: Poison by subcutaneous route. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x , SO_x , and Hg. See also MERCURY COMPOUNDS.

EME025 CAS: 63869-03-4 HR: 3
ETHYLMERCURIC DICYANDIAMIDE

mf: $C_4H_8HgN_4$ mw: 312.75

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

SYNS: ETHYLMERCURY DICYANDIAMIDE □ ETHYLMERKURIDIKYANDIAMID □ MERCURY, (3-CYANO GUANIDINO)ETHYL-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:19 mg/kg OCHRAI 15,5,1963

ACGIH TLV: TWA 0.01. STEL 0.03 mg/ m^3 (skin)

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

EME050 CAS: 2597-93-5 HR: 3
ETHYLMERCURICHILORENDIMIDE

mf: $C_{11}H_7Cl_6HgNO_2$ mw: 598.48

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

SYNS: 50-CS-46 □ EMMI □ N-(ETHYLMERCURI)-1,4,5,6,7,7-HEXACHLOROBICYCLO(2.2.1)HEPT-5-ENE-2,3-DICARBOXIMIDE □ N-ETHYLMERCURI-3,4,5,6,7,7-HEXACHLORO-3,6-ENDOMETHYLENE-1,2,3,6- TETRAHYDROPHthalIMIDE □ N-ETHYLMERCURI-1,2,3,6-TETRAHYDRO-3,6-ENDOMETHANO-3,4,5,6,7,7-HEXACHLOROPHTHALIMIDE □ 1,4,5,6,7,7-HEXACHLORO-N-(ETHYLMERCURI)-5-NORBORNENE-2,3-DICARBOXIMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:150 mg/kg PCOC** -,465,66

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, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of Cl⁻, Hg, and NO_x. See also MERCURY COMPOUNDS.

EME100 CAS: 2235-25-8 HR: 3
ETHYLMERCURIC PHOSPHATE

mf: C₂H₇HgO₄P mw: 326.65

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: EMP □ ETHYLMERCURY PHOSPHATE □ GRANOSAN M □ LIGNASAN □ N. I. CERESAN □ RUBERON □ SOILSIN

TOXICITY DATA with REFERENCE:

orl-hmn LDLo:8614 µg/kg/13W TXCYAC 6,155,76

orl-rat LD50:48 mg/kg NYKZAU 59,452,63

orl-mus LD50:48 mg/kg NYKZAU 59,452,63

scu-mus LD50:76 mg/kg CAJPBD 7,53,67

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

OSHA PEL: TWA 0.01 mg(Hg)/m³; STEL 0.03 mg/m³ (skin)

ACGIH TLV: TWA 0.01 mg(Hg)/m³; BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

SAFETY PROFILE: Human poison by ingestion. Experimental poison by subcutaneous route. An experimental teratogen. When heated to decomposition it emits toxic fumes of PO_x and Hg. See also MERCURY COMPOUNDS and PHOSPHATES.

EME500 CAS: 517-16-8 HR: 3
ETHYLMERCURY-p-TOLUENE SULFONAMIDE

mf: C₁₅H₁₇HgNO₂S mw: 475.98

PROP: Crystals from EtOH; pungent, garlic-like odor. Mp: 156°. Practically insol in water. IDLH 10 mg/m³ (as Hg).

SYNS: CERESAN M □ COMPOUND-1452-F □ EMTS □ N-ETHYLMERCURI-N-PHENYL-p-TOLUENESULFONAMIDE □ N-(ETHYLMERCURI)-p-TOLUENESULFONANILIDE □ N-(ETHYLMERCURI)-p-TOLUENESULFONANILIDE □ ETHYL-MERCURY p-TOLUENESULFANILIDE □ ETHYL-MERCURY-p-TOLUENESULFONANILIDE □ ETHYL(N-PHENYL-p-TOLUENESULFONAMIDO)MERCURY □ ETHYL(N-PHENYL-p-TOLUENESULFONAMIDO)MERCURY □ ETHYL(p-TOLUENESULFONANILIDATO)MERCURY □ GRANOSAN M □ (N-PHENYL-p-TOLUENESULFONAMIDO)ETHYLMERCURY

TOXICITY DATA with REFERENCE:

sln-dmg-orl 40 mg/kg MUREAV 40,31,76

orl-rat LD50:100 mg/kg PCOC** -,204,66

ipr-mus LD50:128 mg/kg TOIZAG 7,71,60

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 intraperitoneal route. Mutation data reported. A fungicide. When heated to decomposition it emits very toxic fumes of Hg, NO_x, and SO_x. See also MERCURY COMPOUNDS.

EME600 CAS: 2654-47-9 HR: 3
ETHYLMERCURY TOLUENESULFONATE

mf: C₈H₁₀HgO₃S mw: 386.83

PROP: IDLH 10 mg/m³ (as Hg).

SYN: MERCURY, ETHYL(TOLUENESULFONATO)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:28 mg/kg NHTIA7 31,207,1950

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin)

NIOSH REL: (MERCURY, ORGANO) TWA 0.01 mg/m³. STEL 0.03 mg/m³ (Sk)

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

EMF000 CAS: 97-63-2 HR: 3
ETHYL METHACRYLATE

DOT: UN 2277

mf: C₆H₁₀O₂ mw: 114.16

PROP: A liquid. Mp: <-75°, bp: 119°, lel: 1.8%, uel: saturation, flash p: 68°F (OC), d: 0.911 @ 25°/25°, vap d: 3.94.

SYNS: ETHYL METHACRYLATE, INHIBITED (DOT) □ ETHYL-α-METHYL ACRYLATE □ ETHYL-2-METHYLACRYLATE □ ETHYL-2-METHYL-2-PROPENOATE □ 2-METHYL-2-PROPENOIC ACID, ETHYL ESTER □ RCRA WASTE NUMBER U118 □ RHOPLEX AC-33 (Rohm and Haas)

TOXICITY DATA with REFERENCE:

skn-rbt 10 g/kg open JIHTAB 23,343,41

orl-rat LD50:14,800 mg/kg JIHTAB 23,343,41

ihl-rat LC50:8300 ppm/4H JTEHD6 16,811,85

ipr-rat LD50:1223 mg/kg JDREAF 51,1632,72

scu-rat LDLo:25 g/kg JIHTAB 23,343,41

orl-mus LD50:7836 mg/kg TOLED5 11,125,82

ipr-mus LD50:1369 mg/kg JPMSAE 62,778,73

orl-rbt LDLo:3630 mg/kg JIHTAB 23,343,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by inhalation. Experimental teratogenic and reproductive effects. A skin irritant. A very dangerous fire and explosion hazard when exposed to heat, sparks, 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.

EMF500 CAS: 62-50-0 HR: 3
ETHYL METHANESULFONATE

mf: C₃H₈O₃S mw: 124.17

SYNS: EMS □ ENT 26,396 □ ETHYL ESTER of METHANE-SULFONIC ACID □ ETHYL ESTER of METHYLSULFONIC ACID □ ETHYL ESTER of METHYLSULPHONIC ACID □ ETHYL METHANESULPHONATE □ ETHYL METHANSULFONATE □ ETHYL METHANSULPHONATE □ HALF-MYLERAN □ METHANESULPHONIC ACID ETHYL ESTER □ METHYL-SULFONIC ACID, ETHYL ESTER □ NSC-26805 □ RCRA WASTE NUMBER U119

TOXICITY DATA with REFERENCE:

sln-dmg-orl 500 ppm ENMUDM 7(Suppl 3),76,85
 oms-hmn:lym 400 μmol/L MUREAV 155,75,85
 ipr-rat LD50:350 mg/kg CPBTAL 8,807,60
 orl-mus LD50:470 mg/kg MUREAV 223,373,89
 ipr-mus LD50:435 mg/kg CBINA8 3,117,71

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 7,245,74. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. Poison by ingestion and intraperitoneal routes. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of SO_x. See also SULFONATES and ESTERS.

EMF600 CAS: 64988-06-3 HR: 1
ETHYL o-METHOXYBENZYL ETHER

mf: C₁₀H₁₄O₂ mw: 166.24

SYNS: BENZENE, 1-(ETHOXYMETHYL)-2-METHOXY- □ 1-(ETHOXYMETHYL)-2-METHOXYBENZENE □ ETHYL 2-METHOXYBENZYL ETHER □ o-METHOXYBENZYL ETHYL ETHER □ 2-METHOXYBENZYL ETHYL ETHER

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5 g/kg FCTOD7 30,33S,92
 skn-rbt LD50:>5 g/kg FCTOD7 30,33S,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.

EMG000 CAS: 102504-44-9 HR: 3
2'-ETHYL-2-(2-METHOXY BUTYLAMINO) PROPIONANILIDE

mf: C₁₆H₂₆N₂O₂ mw: 278.44

TOXICITY DATA with REFERENCE:

ipr-mus LD50:150 mg/kg JPMSAE 67,595,78
 ivn-mus LD50:26 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.

EMG500 CAS: 67262-69-5 HR: 3
2'-ETHYL-3-(2-METHOXYETHYL)AMINO-BUTYRANILIDE HYDROCHLORIDE

mf: C₁₅H₂₄N₂O₂•ClH mw: 300.87

TOXICITY DATA with REFERENCE:

ipr-mus LD50:225 mg/kg JPMSAE 67,595,78
 ivn-mus LD50:40 mg/kg JPMSAE 67,595,78

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

EMH000 CAS: 67262-72-0 HR: 3
2'-ETHYL-4-(2-METHOXYETHYL)AMINO-BUTYRANILIDE HYDROCHLORIDE

mf: C₁₅H₂₄N₂O₂•ClH mw: 300.87

TOXICITY DATA with REFERENCE:

ipr-mus LD50:400 mg/kg JPMSAE 67,595,78
 ivn-mus LD50:80 mg/kg JPMSAE 67,595,78

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

EMH500 CAS: 67262-71-9 HR: 3
2'-ETHYL-3-(2-METHOXYETHYL)AMINO-3-METHYLBUTYRANILIDE CYCLAMATE

mf: C₁₆H₂₆N₂O₂•C₆H₁₃NO₃S mw: 457.70

SYN: 2'-ETHYL-3-(2-METHOXYETHYL)AMINO-3-METHYLBUTYRANILIDE CYCLOHEXANE SULFAMATE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:125 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 very toxic fumes of NO_x and SO_x.

EMI000 CAS: 67262-64-0 HR: 3
2'-ETHYL-2-(2-METHOXYETHYLAMINO)-PROPIONANILIDE

mf: C₁₄H₂₂N₂O₂ mw: 250.38

TOXICITY DATA with REFERENCE:

ipr-mus LD50:250 mg/kg JPMSAE 67,595,78
 ivn-mus LD50:38 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.

EMI500 CAS: 102504-45-0 HR: 3
2'-ETHYL-2-(2-METHOXYETHYLAMINO)-PROPIONANILIDE HYDROCHLORIDE

mf: C₁₄H₂₂N₂O₂•ClH mw: 286.84

TOXICITY DATA with REFERENCE:

ipr-mus LD50:250 mg/kg JPMSAE 67,595,78
 ivn-mus LD50:65 mg/kg JPMSAE 67,595,78

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

**EMI510 CAS: 63134-20-3 HR: 3
N-ETHYL-N-(2-METHOXYETHYL)-3-METHYL-4-NITROSOANILINE**mf: C₁₂H₁₈N₂O₂ mw: 222.32

SYNS: BENZENAMINE, N-ETHYL-N-(2-METHOXYETHYL)-3-METHYL-4-NITROSO- □ N-ETHYL-N-(2-METHOXYETHYL)-4-NITROSO-m-TOLUIDINE

TOXICITY DATA with REFERENCE:

eye-rbt 100 uL/24H SEV NTIS** OTS 0546491

orl-rat LDLo:800 mg/kg NTIS** OTS0546491

ipr-rat LDLo:100 mg/kg NTIS** OTS0546491

orl-mus LDLo:400 mg/kg NTIS** OTS0546491

ipr-mus LDLo:100 mg/kg NTIS** OTS0546491

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. A severe eye irritant. When heated to decomposition it emits toxic vapors of NO_x.**EMI525 CAS: 18839-90-2 HR: D
4-(1-ETHYL-2-(4-METHOXYPHENYL)-1-BUTENYL)PHENOL (E)-**mf: C₁₈H₂₀O₂ mw: 268.38

SYNS: DIETHYLSTILBESTROL MONOMETHYL ETHER □ PHENOL, 4-(1-ETHYL-2-(4-METHOXYPHENYL)-1-BUTENYL)-, (E)- □ 4-STILBENOL, α-α'-DIETHYL-4'-METHOXY-, (E)-(8CI)

TOXICITY DATA with REFERENCE:

slu-ham-lng 30 μmol/L MUREAV 263,269,91

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**EMI530 CAS: 156482-87-0 HR: 2
N-(2-(5-ETHYL-2-METHOXYPHENYL)ETHYL)-PROPIONAMIDE**mf: C₁₄H₂₁NO₂ mw: 235.33

SYN: PROPANAMIDE, N-(2-(5-ETHYL-2-METHOXYPHENYL)-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.**EMI550 CAS: 10606-42-5 HR: 2
ETHYL 3-METHOXYPROPIONATE**mf: C₆H₁₂O₃ mw: 132.18

SYNS: ETHYL 3-METHOXYPROPANOATE □ PROPANOIC ACID, 3-METHOXY-, ETHYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

orl-rat LDLo:3500 mg/kg EPASR* 8EHQ-0486-0599

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**EMJ500 CAS: 54350-48-0 HR: 1
ETHYL all-trans-9-(4-METHOXY-2,3,6-TRIMETHYLPHENYL)-3,7-DIMETHYL-2,4,6,8-NONATETRAENOATE**mf: C₂₃H₃₀O₃ mw: 354.53**PROP:** A solid. Mp: 104–105°.

SYNS: 3,7-DIMETHYL-9-(4-METHOXY-2,3,6-TRIMETHYLPHENYL)-2,4,6,8-NONANETETRAENOIC ACID ETHYL ESTER □ ETHYL ETRINOATE □ ETRETINATE □ Ro 10-9359 □ TIGASON

TOXICITY DATA with REFERENCE:

sce-hmn:fbr 5 mg/L MUREAV 58,317,78

orl-hmn TDLo:78 mg/kg/26W-I:SKN ARZNAD 32,842,82

orl-wmn TDLo:60 mg/kg/17W-I:SKN CUTIBC 35,466,85

orl-wmn TDLo:80 μg/kg/8D-I:SKN,SYS BJDEAZ 112,373,85

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Human systemic effects: dermatitis, nail and hair changes, increased body temperature. Experimental teratogenic and reproductive effects. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**EMJ600 CAS: 69427-41-4 HR: 1
ETHYL (13-cis)-9-(4-METHOXY-2,3,6-TRIMETHYLPHENYL)-3,7-DIMETHYL-2,4,6,8-NONATETRAENOATE**mf: C₂₃H₃₀O₃ mw: 354.53

SYNS: 2,4,6,8-NONATETRAENOIC ACID, 9-(4-METHOXY-2,3,6-TRIMETHYLPHENYL)-3,7-DIMETHYL-, ETHYL ESTER, (Z,E,E,E)- □ RO 13-7837

TOXICITY DATA with REFERENCE:

orl-rat LD50:>4 g/kg YACHDS 10,5033,82

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**EMK600 CAS: 689-93-0 HR: 3
ETHYL METHYL ARSINE**mf: C₃H₉As mw: 120.03CH₃CH₂AsHCH₃**CONSENSUS REPORTS:** Arsenic and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Arsenic compounds are poisons. Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of As. See also ARSENIC COMPOUNDS and ARSINE.**EML500 CAS: 17982-67-1 HR: D
ETHYL METHYL AZIDOMETHYL PHOSPHONATE**mf: C₄H₁₀N₃O₃P mw: 179.14

SYN: AZIDOMETHYLPHOSPHONIC ACID, ETHYL METHYL ESTER

TOXICITY DATA with REFERENCE:

mmo-sat 5 μL/plate MUREAV 28,405,75

mmo-esc 5 μL/plate MUREAV 28,405,75

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of PO_x and NO_x.**EML600 CAS: 64265-57-2 HR: 2
2-ETHYL-2-((3-(2-METHYL-1-AZIRIDINYL)-1-OXOPROPYL) METHYL)-1,3-PROPANEDIYL ESTER 2-METHYL-1-AZIRIDINEPROPANOIC ACID**mf: C₂₄H₄₁N₃O₆ mw: 467.68

SYNS: C-80343 □ CROSSLINKER CX 100 □ CX 100 □ IONAC PFAZ 322 □ PFAZ 322 □ XAMA-2

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/4H MLD NTIS** OTS0537200

ihl-rat LCLo:1 g/m³/4H NTIS** OTS0537200

skn-rbt LDLo:2 g/kg NTIS** OTS0537200

SAFETY PROFILE: Moderately toxic by inhalation skin contact. A mild skin irritant. When heated to decomposition it emits toxic vapors of NO_x.

EMM000 CAS: 63039-89-4 HR: 2**7-ETHYL-9-METHYLBENZ(c)ACRIDINE**mf: C₂₀H₁₇N mw: 271.38

SYNS: 3-METHYL-10-ETHYLBENZ(c)ACRIDINE □ 3-METHYL-10-ETHYL-7,8-BENZACRIDINE (FRENCH)

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

EMM500 CAS: 16354-50-0 HR: 2
7-ETHYL-12-METHYLBENZ(a)ANTHRACENEmf: C₂₁H₁₈ mw: 270.39**TOXICITY DATA with REFERENCE:**

cyt-rat-ivn 50 mg/kg GANNA2 64,637,73

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

EMN000 CAS: 16354-55-5 HR: 2
12-ETHYL-7-METHYLBENZ(a)ANTHRACENEmf: C₂₁H₁₈ mw: 270.39**TOXICITY DATA with REFERENCE:**

cyt-rat-ivn 50 mg/kg GANNA2 64,637,73

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

EMO000 CAS: 10137-87-8 HR: 3
N-ETHYL(α-METHYLBENZYL)AMINEmf: C₁₀H₁₅N mw: 149.26**SYN:** N-ETHYL-α-METHYLBENZYLAMINE**TOXICITY DATA with REFERENCE:**

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

orl-rat LDLo:350 mg/kg AIHAAP 23,95,62

skn-rbt LDLo:890 mg/kg AIHAAP 23,95,62

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

EMO500 CAS: 125-42-8 HR: 3
5-ETHYL-5-(1-METHYL-1-BUTENYL)-BARBITURATEmf: C₁₁H₁₆N₂O₃ mw: 224.29**PROP:** A solid. Mp: 162–163°.

SYNS: 5-ETHYL-5-(1-METHYL-1-BUTENYL)BARBITURIC ACID
□ 5-ETHYL-5-(1-METHYL-1-BUTENYL)-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:190 mg/kg JACSAT 61,776,39

ipr-mus LD50:180 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.

EMO875 CAS: 17013-35-3 HR: 3
5-ETHYL-5-(1-METHYL-2-BUTENYL)-BARBITURIC ACIDmf: C₁₁H₁₆N₂O₃ mw: 224.29**TOXICITY DATA with REFERENCE:**

orl-rat LD50:20 mg/kg JNPCAS 1,31,37

ipr-rat LD50:3 mg/kg JNPCAS 1,31,59

ipr-mus LD50:21 mg/kg JNPCAS 1,31,59

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

EMP500 CAS: 21149-87-1 HR: 3
5-ETHYL-5-(3-METHYL-2-BUTENYL)-BARBITURIC ACID SODIUM SALTmf: C₁₁H₁₅N₂O₃•Na mw: 246.27**TOXICITY DATA with REFERENCE:**

ipr-cat LDLo:6 mg/kg NATUAS 163,447,49

ivn-cat LDLo:6 mg/kg NATUAS 163,447,49

ipr-rbt LDLo:6 mg/kg NATUAS 163,447,49

ivn-rbt LDLo:6 mg/kg NATUAS 163,447,49

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and Na₂O. See also BARBITURATES.

EMP550 CAS: 22457-23-4 HR: 2
ETHYL 2-METHYLBUTYL KETOXINEmf: C₈H₁₇NO mw: 143.26

SYNS: 3-HEPTANONE, 5-METHYL-, OXIME □ 5-METHYL-3-HEPTANONE OXIME □ STEMONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3800 mg/kg FCTOD7 30,87S,92

skn-rbt LDLo:5 g/kg FCTOD7 30,87S,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EMP600 CAS: 7452-79-1 HR: 2
ETHYL 2-METHYLBUTYRATEmf: C₇H₁₄O₂ mw: 130.19

PROP: Colorless liquid; strong, apple-like odor. D: 0.861–0.866, refr index: 1.396, bp: 133.5°, flash p: 153°F. Sol in alc, propylene glycol; misc in fixed oils; very sltly sol in water.

SYN: FEMA No. 2443

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

EMQ500 CAS: 105-40-8 HR: 2
ETHYL-N-METHYLCARBAMATEmf: C₄H₉NO₂ mw: 103.14**PROP:** Needles. Mp: 54°, bp: 170°.

SYNS: ETHYLESTER KYSELINY METHYLKARBAMINOVE □ ETHYL METHYL CARBAMATE □ METHYL CARBAMIC ACID, ETHYL ESTER □ N-METHYL URETHAN □ METHYL-URETHANE □ N-METHYLURETHANE

TOXICITY DATA with REFERENCE:

mic-mus:lym 5 mmol/L MUREAV 174,285,86
scu-mus LD50:1360 mg/kg AJEBAK 45,507,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by subcutaneous route. Experimental teratogenic effects. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

EMR000 CAS: 2698-38-6 HR: 2
ETHYL-2-METHYL-4-CHLOROPHENOXY-ACETATE

mf: C₁₁H₁₃ClO₃ mw: 228.69

PROP: A liquid. Bp: 115–117° @ 1 mm.

SYNS: 4-CHLORO-2-METHYLPHENOXYACETIC ACID, ETHYL ESTER □ ((4-CHLORO-*o*-TOLYL)OXY)ACETIC ACID, ETHYL ESTER □ MCPA-ETHYL □ MCPPE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1290 mg/kg YKYUA6 30,985,79

SAFETY PROFILE: Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of Cl⁻. See also ESTERS.

EMR100 CAS: 1942-78-5 HR: 3
***o*-ETHYL-S-(3-METHYL-4-CHLOROPHENYL)-ETHYL PHOSPHONODITHIOATE**

mf: C₁₁H₁₆ClOPS₂ mw: 294.81

SYNS: S-(4-CHLORO-3-METHYLPHENYL) *o*-ETHYL ETHYLPHOSPHONODITHIOATE □ ENT 27,045 □ N 4446 □ PHOSPHONODITHIOIC ACID, ETHYL-, S-(4-CHLORO-*m*-TOLYL) *o*-ETHYL ESTER □ PHOSPHONODITHIOIC ACID, ETHYL-, S-(4-CHLORO-3-METHYLPHENYL) *o*-ETHYL ESTER □ STAUFFER N-4446

TOXICITY DATA with REFERENCE:

orl-rat LD50:4300 µg/kg NTIS** OTS0543898
skn-rbt LD50:12,900 µg/kg NTIS** OTS0543898

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

EMR500 CAS: 19105-63-6 HR: 3
2-ETHYL-8-METHYL-2,8-DIAZASPIRO(4,5)-DECANE-1,3-DIONE HYDROBROMIDE

mf: C₁₁H₁₈N₂O₂•BrH mw: 291.23

TOXICITY DATA with REFERENCE:

orl-mus LD50:660 mg/kg 27ZQAG -,298,72
ivn-mus LD50:250 mg/kg 27ZQAG -,298,72
ivn-dog LD50:2500 µg/kg 27ZQAG -,298,72
ivn-cat LD50:2 mg/kg 27ZQAG -,298,72
ivn-rbt LD50:3700 µg/kg 27ZQAG -,298,72

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

EMR600 CAS: 39562-70-4 HR: 3
ETHYL METHYL 1,4-DIHYDRO-2,6-DIMETHYL-4-(*m*-NITROPHENYL)-3,5-PYRIDINEDICARBOXYLATE

mf: C₁₈H₂₀N₂O₆ mw: 360.40

PROP: A solid. Mp: 158–159°.

SYNS: BAY e 5009 □ 1,4-DIHYDRO-2,6-DIMETHYL-4-(3-NITROPHENYL)-3,5-PYRIDINEDICARBOXYLIC ACID ETHYL METHYL ESTER □ NITRENDIPINE □ 3,5-PYRIDINEDICARBOXYLIC ACID, 1,4-DIHYDRO-2,6-DIMETHYL-4-(3-NITROPHENYL)-, ETHYL METHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:15,370 mg/kg OYYAA2 36,121,88
ipr-rat LD50:205 mg/kg OYYAA2 36,121,88
scu-rat LD50:5166 mg/kg OYYAA2 36,121,88
ivn-rat LD50:12,600 µg/kg 52EDA6 -,25,84
orl-mus LD50:2540 mg/kg 52EDA6 -,25,84
ipr-mus LD50:303 mg/kg OYYAA2 36,121,88
scu-mus LD50:7613 mg/kg OYYAA2 36,121,88
ivn-mus LD50:34,500 µg/kg FRPSAX 42,697,87
orl-dog LD50:250 mg/kg 52EDA6 -,25,84

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

EMS000 CAS: 6030-03-1 HR: 2
4'-ETHYL-2-METHYL-4-DIMETHYLAMINOAZOBENZENE

mf: C₁₇H₂₁N₃ mw: 267.41

SYN: 4'-ETHYL-N,N-DIMETHYL-4-(PHENYLAZO)-*m*-TOLUIDINE

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

EMS100 CAS: 82801-81-8 HR: D
N-ETHYL-3,4-METHYLENEDIOXY-MPHETAMINE

mf: C₁₂H₁₇NO₂ mw: 207.30

SYNS: 1,3-BENZODIOXOLE-5-ETHANAMINE, N-ETHYL-*α*-METHYL-, (+)- □ 1,3-BENZODIOXOLE-5-ETHANAMINE, N-ETHYL-*α*-METHYL- □ N-ETHYL-*α*-METHYL-1,3-BENZODIOXOLE-5-ETHANAMINE □ EVE □ MDE □ (+)-MDE □ MDEA □ METHYLENEDIOXYETHAMPHETAMINE □ METHYLENEDIOXYETHYLAMPHETAMINE □ 3,4-METHYLENEDIOXY-ETHYLAMPHETAMINE

TOXICITY DATA with REFERENCE:

orl-man LDLo:19 mg/kg; CNS, PUL FSINDR 91,91,1998

SAFETY PROFILE: Human systemic effects. When heated to decomposition it emits toxic vapors of NO_x.

EMT000 CAS: 540-67-0 HR: 3
ETHYL METHYL ETHER

DOT: UN 1039

mf: C₃H₈O mw: 60.11

PROP: Colorless liquid or gas at room temp. Bp: 10.8°, lel: 2.0%, uel: 10.1%, flash p: -35°F (CC), d: 0.7260 @ 0°/4°, autoign temp: 374°F, vap d: 2.07.

SYNS: ETHOXYMETHANE □ ETHYL METHYL ETHER (DOT) □ METHOXYETHANE □ METHYL ETHYL ETHER (DOT)

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: Has anesthetic properties. A very dangerous fire and moderate explosion hazard when exposed to heat or flame; can react vigorously with oxidizing materials (e.g., air, O₂). To fight fire, use alcohol foam, CO₂, dry chemical. See also ETHERS.

EMT100 CAS: 51308-73-7 HR: 2
ETHYL (4-(1-METHYLETHYL)PHENYL)METHYL
3-PYRIDINYLCARBONIMIDODITHIOATE

mf: C₁₈H₂₂N₂S₂ mw: 330.54

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

TOXICITY DATA with REFERENCE:

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

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

EMT500 CAS: 139-88-8 HR: 2
7-ETHYL-2-METHYL-4-HENDECANOL SULFATE
SODIUM SALT

mf: C₁₄H₂₉O₄S•Na mw: 316.48

PROP: A waxy solid. Sltly water-sol.

SYNS: 7-ETHYL-2-METHYL-4-UNDECANOL SULFATE SODIUM SALT □ OBLITEROL □ SODIUM-7-ETHYL-2-METHYL-4-UNDECANOL SULFATE □ SODIUM-7-ETHYL-2-METHYL-UNDECYL-4-SULFATE □ SODIUM-2-METHYL-7-ETHYL-UNDECANOL-4-SULFATE □ SODIUM-2-METHYL-7-ETHYL-UNDECYL SULFATE-4 □ SODIUM SOTRADECOL □ SOTRA-EC-OL □ STS □ TERGITOL □ TERGITOL ANIONIC 4 □ TERGIT-L PENETRANT 4 □ TROMBOVAR □ VARICOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open SEV UCDS** 12/13/63

eye-rbt 250 µg MLD AROPAW 34,99,45

orl-rat LD50:1250 mg/kg JIHTAB 23,478,41

orl-gpg LD50:650 mg/kg JIHTAB 23,478,41

skn-gpg LD50:650 mg/kg JIHTAB 23,478,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. An eye and severe skin irritant. When heated to decomposition it emits toxic fumes of SO_x and Na₂O. See also SULFATES.

EMT600 CAS: 5921-54-0 HR: 3
ETHYL METHYL KETONE AZINE

mf: C₈H₁₆N₂ mw: 140.26

SYNS: 2-BUTANONE, AZINE □ 2-BUTANONE, (1-METHYLPROPYLIDENE)HYDRAZONE □ METHYLETHYL KETAZINE □ METHYL ETHYL KETONE AZINE □ METHYL ETHYL KETONE KETAZINE

TOXICITY DATA with REFERENCE:

ihl-mus LC:>2500 mg/kg NDRC** NDCrc-132,FEB42

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

EMU500 CAS: 96-29-7 HR: 3
ETHYL METHYL KETOXIME

mf: C₄H₉NO mw: 87.14



PROP: A liquid. D: 0.9232 @ 20°/4°, mp: -29.5°, bp: 152°.

SYNS: 2-BUTANONE, OXIME □ ETHYL METHYL KETONE OXIME □ ETHYL-METHYLKETONOXIM □ MEK-OXIME □ METHYL ETHYL KETOXIME □ SKINO #2 □ TROYKYD ANTI-SKIN B □ USAF AM-3 □ USAF DO-44 □ USAF EK-906

TOXICITY DATA with REFERENCE:

scu-rat LD50:2702 mg/kg NJMSAG 29,393,67

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. May explode if heated. Reacts with sulfuric acid to form an explosive product. When heated to decomposition it emits toxic fumes of NO_x.

EMV000 CAS: 31217-72-8 HR: 3
N-ETHYL-2-METHYLMALEIMIDE

mf: C₇H₉NO₂ mw: 139.17

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:37 mg/kg JMC MAR 15,534,72

ice-rat LDLo:8 mg/kg JMC MAR 15,534,72

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

EMW000 CAS: 66968-89-6 HR: 3
5-ETHYL-1-METHYL-5-(1-METHYLPROPENYL)-
ARBUTURIC ACID

mf: C₁₁H₁₆N₂O₃ mw: 224.29

TOXICITY DATA with REFERENCE:

orl-mus LD50:285 mg/kg JACSAT 61,353,39

ipr-mus LD50:210 mg/kg JACSAT 61,353,39

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

EMW100 HR: 3
N-ETHYL-6-METHYL-α-(METHYLSULFONYL)-
ERGOLINE-8-β-PROPIONAMIDE

mf: C₂₁H₂₉N₃O₃S mw: 403.59

SYN: ERGOLINE-8-β-PROPIONAMIDE, N-ETHYL-6-METHYL-α-(METHYLSULFONYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:400 mg/kg ARZNAD 33,1094,83

SAFETY PROFILE: Poison by ingestion.

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

EMY000 CAS: 10024-78-9 HR: 3
4-ETHYL-1-METHYLOCTYLAMINE

mf: C₁₁H₂₅N mw: 171.37

SYNS: 2-AMINO-5-ETHYLNONANE □ 1-METHYL-4-ETHYLOCTYLAMINE

TOXICITY DATA with REFERENCE:

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

skn-rbt 5 mg/24H SEV 85JCAE -,437,86

eye-rbt 50 µg open SEV AMIHBC 10,61,54

1700 EMY100 2-ETHYL-1-(3-METHYL-1-OXO-2-BUTENYL)PIPERIDINE

orl-rat LD50:730 mg/kg AMIHBC 10,61,54

skn-rbt LD50:380 mg/kg AMIHBC 10,61,54

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 AMINES.

EMY100 CAS: 95524-59-7 HR: 1
2-ETHYL-1-(3-METHYL-1-OXO-2-BUTENYL)-
PIPERIDINE

mf: C₁₂H₂₁NO mw: 195.34

SYNS: AI3-36175-Ga □ PIPERIDINE, 2-ETHYL-1-(3-METHYL-1-OXO-2-BUTENYL)-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD NTIS** AD-A002-053

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

EMZ000 CAS: 106-67-2 HR: 2
2-ETHYL-4-METHYL-1-PENTANOL

mf: C₈H₁₈O mw: 130.26

SYNS: 2-ETHYLISOHEXANOL □ 2-ETHYL-4-METHYLPENTANOL

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:4290 mg/kg AIHAAP 23,95,62

orl-mus LDLo:1600 mg/kg KODAK* 21MAY71

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.

ENA000 CAS: 67526-05-0 HR: 3
5-ETHYL-5-(1-METHYL-1-PENTENYL)-
BARBITURIC ACID

mf: C₁₂H₁₈N₂O₃ mw: 238.32

TOXICITY DATA with REFERENCE:

orl-mus LD50:210 mg/kg JACSAT 61,776,39

ipr-mus LD50:160 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.

ENA500 CAS: 70299-48-8 HR: 3
ETHYL METHYL PEROXIDE

mf: C₃H₈O₂ mw: 76.10
 CH₃CH₂OOCH₃

PROP: Volatile liquid with ethereal odor. Bp: 40° @ 740 mm.

SAFETY PROFILE: Both the liquid and the vapor are shock-sensitive explosives. Also explodes on superheating. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES.

ENB000 CAS: 2058-66-4 HR: 2
N-ETHYL-N-METHYL-p-(PHENYLAZO)ANILINE

mf: C₁₅H₁₇N₃ mw: 239.35

SYNS: p-ETHYLMETHYLAMINOAZOBENZENE □ N-ETHYL-N-METHYL-p-AMINOAZOBENZENE □ 4-ETHYLMETHYL-

AMINOAZOBENZENE □ N-METHYL-N-ETHYL-p-AMINOAZOBENZENE □ 4-(METHYLETHYL)AMINOAZOBENZENE

TOXICITY DATA with REFERENCE:

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

orl-rat TDLo:4684 mg/kg/17W-C:CAR JEMEAV 87,139,48

orl-rat TD:2100 mg/kg/16W-C:ETA CNREA8 8,141,48

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

ENB100 CAS: 68214-81-3 HR: D
2-(ETHYL(3-METHYL-4-(PHENYLAZO)PHENYL)-
AMINO)ETHANOL

mf: C₁₇H₂₁N₃O mw: 283.41

SYN: ETHANOL, 2-(ETHYL(3-METHYL-4-(PHENYLAZO)-PHENYL)AMINO)-

TOXICITY DATA with REFERENCE:

mmo-sat 100 µg/plate EPASR* 8EHQ-0288-0719

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ENB500 CAS: 115-38-8 HR: 3
5-ETHYL-N-METHYL-5-PHENYLBARBITURIC
ACID

mf: C₁₃H₁₄N₂O₃ mw: 246.29

PROP: A solid. Mp: 176°.

SYNS: ENFENEMAL □ ENPHENEMAL □ N-ETHYLMETHYL-PHENYLBARBITURIC ACID □ 5-ETHYL-1-METHYL-5-PHENYLBARBITURIC ACID □ 5-ETHYL-1-METHYL-5-PHENYL-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE □ 5-ETHYL-5-PHENYL-N-METHYLBARBITURIC ACID □ ISONAL □ ISONAL (ROUSSEL) □ MEBARAL □ MEBEREL □ MENTA-BAL □ MEPHOBARBITAL □ MEPHOBARBITONE □ MEPHYTAL □ METHYL-CALMINAL □ 1-METHYL-5-ETHYL-5-PHENYLBARBITURIC ACID □ METHYLPHENOBARBITAL □ N-METHYLPHENOBARBITAL □ 1-METHYLPHENOBARBITAL □ METHYLPHENOBARBITONE □ N-METHYLPHENOBARBITOL □ METHYLPHENYL-BARBITURIC ACID □ N-METHYL-5-PHENYL-5-ETHYLBARBITAL □ 1-METHYL-5-PHENYL-5-ETHYLBARBITURIC ACID □ METHYLFENEMAL □ METYNA □ MORBUSAN □ PHEMETONE □ PHEMITON □ PHEMITONE □ 5-PHENYL-5-ETHYL-3-METHYLBARBITURIC ACID □ PROMINAL

TOXICITY DATA with REFERENCE:

unr-wmn TDLo:3360 mg/kg (1-40W preg):TER LANCAO 2,839,72

ipr-rat LD50:130 mg/kg PHMCAA 5,237,63

orl-mus LD50:300 mg/kg HPPAAL 19,241,61

orl-cat LD50:230 mg/kg NIIRDN 6,851,82

orl-rbt LD50:400 mg/kg NIIRDN 6,851,82

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. A human teratogen by an unspecified route with developmental abnormalities of the cardiovascular (circulatory) system. When heated to decomposition it emits toxic NO_x. See also BARBITURATES.

ENC000 CAS: 77-83-8 HR: 2
ETHYL METHYLPHENYLGLYCIDATE

mf: C₁₂H₁₄O₃ mw: 206.26

PROP: Colorless to yellowish liquid; strawberry-like odor. D: 1.086–1.112, refr index: 1.504–1.513, flash p: 273°F. Sol in fixed oils, propylene glycol; insol in glycerin.

SYNS: C-16 ALDEHYDE □ EMPG □ α-β-EPOXY-β-METHYLHYDROCINNAMIC ACID, ETHYL ESTER □ ETHYL α,β-EPOXY-β-METHYLHYDROCINNAMATE □ ETHYL 2,3-EPOXY-3-METHYL-3-PHENYLPROPIONATE □ ETHYL ESTER of 2,3-EPOXY-3-PHENYLBUTANOIC ACID □ FEMA No. 2444 □ FRAESEOL □ 3-METHYL-3-PHENYLGLYCIDIC ACID ETHYL ESTER □ STRAWBERRY ALDEHYDE

TOXICITY DATA with REFERENCE:

cyt-ham:ovr 50 mg/L EMMUEG 10(Suppl 10),1,87

sce-ham:ovr 16 mg/L EMMUEG 10(Suppl 10),1,87

orl-rat LD50:5470 mg/kg FCTXAV 2,327,64

orl-gpg LD50:4050 mg/kg FCTXAV 2,327,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. Mutation data reported. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

ENC500 CAS: 5696-06-0 HR: 2 5-ETHYL-1-METHYL-5-PHENYLHYDANTOIN

mf: C₁₂H₁₄N₂O₂ mw: 218.28

PROP: A solid. Mp: 210°.

SYNS: DELTOIN □ METHETOIN

TOXICITY DATA with REFERENCE:

orl-mus LD50:500 mg/kg 29ZVAB -,75,69

orl-rbt LD50:1400 mg/kg 29ZVAB -,75,69

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

ENC600 CAS: 18886-42-5 HR: 3 α-ETHYL-1-METHYL-α-PHENYL-3-PYRROL- IDINEMETHANOL PROPIONATE FUMARATE

mf: C₁₇H₂₅NO₂•C₄H₄O₄ mw: 391.51

SYNS: AHR-1767 □ α-1-(1-METHYL-3-PYRROLIDINYL)-1-PHENYLPROPYL PROPIONATE FUMARATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:460 mg/kg AIPTAK 178,446,69

ipr-rat LD50:120 mg/kg AIPTAK 178,446,69

orl-mus LD50:230 mg/kg AIPTAK 178,446,69

ipr-mus LD50:144 mg/kg AIPTAK 178,446,69

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

END000 CAS: 104-89-2 HR: 3 5-ETHYL-2-METHYLPIPERIDINE

mf: C₈H₁₇N mw: 127.26

SYNS: COPELLIDIN □ 3-ETHYL-6-METHYLPIPERIDINE

TOXICITY DATA with REFERENCE:

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

skn-rbt 5 mg/24H SEV 85JCAE -,846,86

eye-rbt 250 µg SEV AMIHBC 10,61,54

orl-rat LD50:540 mg/kg AMIHBC 10,61,54

ihl-rat LCLo:250 ppm/4H AMIHBC 10,61,54

skn-rbt LD50:630 mg/kg AMIHBC 10,61,54

scu-rbt LDLo:100 mg/kg BDCGAS 34,2408,01

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by ingestion, skin contact, and inhalation. A severe skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

END500 CAS: 77791-37-8 HR: 3 N-ETHYL-2-(2-METHYLPIPERIDINO)-N-(1-(2,4- XYLYLOXY)-2-PROPYL) ACETAMIDE HYDROCHLORIDE

mf: C₂₁H₃₄N₂O₂•ClH mw: 383.03

SYN: C 2103

TOXICITY DATA with REFERENCE:

eye-rbt 2% MLD ARZNAD 9,70,59

scu-mus LD50:317 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 NO_x and HCl.

ENE000 CAS: 16468-98-7 HR: 2 5-ETHYL-5-(1-METHYLPROPENYL)- BARBITURIC ACID

mf: C₁₀H₁₄N₂O₃ mw: 210.26

TOXICITY DATA with REFERENCE:

orl-mus LD50:550 mg/kg JACSAT 61,353,39

ipr-mus LD50:490 mg/kg JACSAT 61,353,39

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

ENE500 CAS: 55283-68-6 HR: 1 N-ETHYL-N-(2-METHYL-2-PROPENYL)-2,6- DINITRO-4-(TRIFLUOROMETHYL)- BENZENAMINE

mf: C₁₃H₁₄F₃N₃O₄ mw: 333.30

PROP: Yellow-orange crystals. Mp: 55–56°. Very sltly sol in H₂O; sol in most org solvs.

SYNS: EL-161 □ ETHALFLURLIN □ ETHALFLURALIN □ SOMILAN □ SONALAN □ SONALEN

TOXICITY DATA with REFERENCE:

orl-rat LD50:10,000 mg/kg 85ARAE 2,52,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ENF000 CAS: 78-28-4 HR: 2 1-ETHYL-1-METHYLPROPYL CARBAMATE

mf: C₇H₁₅NO₂ mw: 145.23

PROP: Needles from EtOH (aq) with camphoraceous odor. Mp: 56–58°, bp: 35° @ 1 mm. Sol in EtOH, Et₂O, C₆H₆; sltly sol in H₂O.

SYNS: DIETHYL METHYL CARBINOLURETHAN □ tert-HEXANOL CARBAMATE □ METHYL DIETHYL CARBINOLURETHAN □ 3-METHYL-3-PENTANOL CARBAMATE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:430 mg/kg 27ZQAG -,413,72

orl-mus LD50:760 mg/kg 27ZQAG -,413,72

ipr-mus LD50:550 mg/kg QISAAP 21,223,60

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

ENF050 CAS: 86073-23-6 HR: 3
***o*-ETHYL S-1-METHYLPROPYL S-1,1-DIMETHYLETHYL PHOSPHORODITHIOATE**

mf: C₁₀H₂₃O₂PS₂ mw: 270.42

SYNS: S-sec-BUTYL S-tert-BUTYL *o*-ETHYL PHOSPHORODITHIOATE □ PHOSPHORODITHIOIC ACID, S-(1,1-DIMETHYLETHYL) *o*-ETHYL S-(1-METHYLPROPYL) ESTER

TOXICITY DATA with REFERENCE:

ocu-rbt LDLo:50 µL/kg NTIS** OTS0539735

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

ENF100 CAS: 82558-50-7 HR: 3
N-(3-(1-ETHYL-1-METHYLPROPYL)-5-ISOXAZOLYL)-2,6-DIMETHOXYBENZAMIDE

mf: C₁₈H₂₄N₂O₄ mw: 332.44

SYNS: BENZAMIZOLE □ BENZAMIDE, 2,6-DIMETHOXY-N-(3-(1-ETHYL-1-METHYLPROPYL)-5-ISOXAZOLYL)- □ 2,6-DIMETHOXY-N-(3-(1-ETHYL-1-METHYLPROPYL)-5-ISOXAZOLYL)BENZAMIDE □ EL 107 □ FLEXIDOR □ ISOXABEN □ NA 8318

TOXICITY DATA with REFERENCE:

orl-rat LD50:>10 g/kg PBCWDF -,47,1982

ihl-rat LC50:>1990 mg/m³ PBCWDF -,47,1982

ipr-rat LD50:>2 g/kg 85JFAN A670,1984

orl-mus LD50:>10 g/kg PBCWDF -,47,1982

ipr-mus LD50:>5 g/kg 85JFAN A670,1984

orl-dog LD50:>5 g/kg DEVEAA 39(233),2,1985

skn-rbt LD50:>200 mg/kg PBCWDF -,47,1982

SAFETY PROFILE: A poison by skin contact.

Moderately toxic by inhalation and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x.

ENF200 CAS: 15707-23-0 HR: 2
2-ETHYL-3-METHYLPYRAZINE

mf: C₇H₁₀N₂ mw: 122.17

PROP: Colorless to sltly yellow liquid; strong, raw potato odor. D: 0.980–0.999 @ 20°, refr index: 1.502. Sol in water, org solvs.

SYN: FEMA No. 3155

TOXICITY DATA with REFERENCE:

orl-rat LD50:600 mg/kg DCTODJ 3,249,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ENF300 CAS: 206439-01-2 HR: D
2-ETHYL-6-METHYLQUINONEIMINE

mf: C₉H₁₁NO mw: 149.21

SYNS: 2,5-CYCLOHEXADIEN-1-ONE, 3-ETHYL-4-IMINO-5-METHYL- □ 3-ETHYL-4-IMINO-5-METHYL-2,5-CYCLOHEXADIEN-1-ONE

TOXICITY DATA with REFERENCE:

sce-hmn-lym 300 nmol/L MUREAV 395,159,1997

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

ENG500 CAS: 77-67-8 HR: 2
2-ETHYL-2-METHYLSUCCINIMIDE

mf: C₇H₁₁NO₂ mw: 141.19

SYNS: AETHOSUXIMIDE (GERMAN) □ ASAMID □ ATYSMAL □ CAPITUS □ CI 366 □ EMESIDE □ EPILEO PETIT MAL □ ETHOSUCCIMIDE □ ETHOSUCCINIMIDE □ ETHOSUXIDE □ ETHOSUXIMIDE □ 3-ETHYL-3-METHYLPYRROLIDINE-2,5-DIONE □ 3-ETHYL-3-METHYL-2,5-PYRROLIDINE-DIONE □ α-ETHYL-α-METHYLSUCCINIMIDE □ ETHYMAL □ ETOMAL □ ETOSUXIMIDA □ H-490 □ H 940 □ MESENTOL □ 3-METHYL-3-ETHYLPYRROLIDINE-2,5-DIONE □ γ-METHYL-γ-ETHYLSUCCINIMIDE □ PEMAL □ PEMALIN □ PENTINIMID □ PETINIMID □ PETNIDAN □ PM 671 □ PYKNOLEPSINUM □ RONTON □ SIMATIN(E) □ SUCCIMAL □ SUCCIMITIN □ SUXILEP □ SUXIMAL □ SUXIN □ SUXINUTIN □ THETAMID □ THIOPEMAL □ ZARAONDAN □ ZARODAN □ ZARONDAN-SAFT □ ZARONTIN □ ZARTALIN

TOXICITY DATA with REFERENCE:

cyt-hmn:lyms 30 mg/L MUREAV 204,623,88

orl-rat TDLo:66,600 µg/kg (6-14D preg):REP 40YJAX -,59,70

orl-mus LD50:1530 mg/kg EPILAK 4(4),66,63

ipr-mus LD50:1752 mg/kg EPILAK 29,198,88

scu-mus LD50:1810 mg/kg NIIRDN 6,117,82

ivn-mus LD50:780 mg/kg NEPHBW 24,427,85

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

ENH000 CAS: 73696-65-8 HR: 3
N-ETHYL-N'-(3-METHYL-2-THIAZOLIDINYL-IDENE)UREA

mf: C₇H₁₃N₃OS mw: 187.29

TOXICITY DATA with REFERENCE:

orl-mus LD50:203 mg/kg JMCMA 23,773,80

ivn-mus LD50:1110 mg/kg JMCMA 23,773,80

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

ENI175 CAS: 2591-57-3 HR: 3
ETHYLMETHYLTHIOPHOS

mf: C₉H₁₂NO₃PS mw: 245.25

SYNS: O-ETHYL-O-METHYL-O-p-NITROFENYLESTER KYSELNY THIOFOSFORECNE □ O-METHYL O-ETHYL O-p-NITROPHENYL THIOPHOSPHATE □ METHYLETHYLTHIOFOS □ METHYLETHYLTHIOPHOS □ PHOSPHOROTHIOIC ACID, O-ETHYL O-METHYL O-(4-NITROPHENYL) ESTER (9CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:2800 µg/kg 85GMAT -,83,82

orl-mus LD50:4200 µg/kg 85GMAT -,83,82

orl-cat LD50:5600 µg/kg 85GMAT -,83,82

skn-rbt LDLo:200 mg/kg 85GMAT -,83,82

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

ENI500 CAS: 3568-56-7 HR: 3
O-ETHYL-O-(4-METHYLTHIO-m-TOLYL)
METHYLPHOSPHORAMIDOTHIOATE

mf: C₁₁H₁₈NO₂PS₂ mw: 291.39

SYNS: BAY 34042 □ ENT 25,610 □ 4-(METHYLTHIO)-m-CRESOL-O-ESTER with O-ETHYL METHYLPHOSPHORAMIDOTHIOATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 mg/kg TXAPA9 21,315,72

orl-bwd 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, PO_x, and SO_x.

ENJ000 CAS: 458-24-2 HR: 3
N-ETHYL-α-METHYL-m-(TRIFLUOROMETHYL)-
PHENETHYLAMINE

mf: C₁₂H₁₆F₃N mw: 231.29

SYNS: FENFLURAMINE □ 3-(TRIFLUOROMETHYL)-N-ETHYL-α-METHYL PHENETHYL AMINE

TOXICITY DATA with REFERENCE:

orl-hmn LDLo:50 mg/kg LANCAO 2,1306,69

orl-man TDLo:4286 µg/kg:ANS,CNS THERAP 34,205,79

orl-rat LD50:130 mg/kg JMCMA 18,177,75

orl-mus LD50:170 mg/kg ISYAM* -,75,70

ipr-mus LD50:53 mg/kg ISYAM* -,75,70

orl-dog LD50:100 mg/kg ISYAM* -,75,70

SAFETY PROFILE: A human poison by ingestion. An experimental poison by ingestion and intraperitoneal routes. Human systemic effects by ingestion: hallucinations, distorted perceptions, and autonomic nervous system effects (an adrenergic stimulant). Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also AMINES.

ENJ500 CAS: 4171-13-5 HR: 2
2-ETHYL-3-METHYLVALERAMIDE

mf: C₈H₁₇NO mw: 143.26

PROP: A solid. Mp: 114–115°.

SYNS: ETHYLMETHYL VALERAMIDE □ VALMETHAMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:760 mg/kg 27ZQAG -,429,72

ipr-rat LD50:580 mg/kg 27ZQAG -,429,72

orl-mus LD50:999 mg/kg NYKZAU 62,404,66

ipr-mus LD50:540 mg/kg 27ZQAG -,429,72

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

ENJ600 CAS: 64529-56-2 HR: 2
ETHYL METRIBUZIN

mf: C₉H₁₆N₄OS mw: 228.35

SYNS: 4-AMINO-6-(1,1-DIMETHYLETHYL)-3-(ETHYLTHIO)-1,2,4-TRIAZIN-5(4H)-ONE □ BAY DIC 1559 □ BAY SMY 1500 □ ETHIOZIN □ LEKTAN □ SMY 1500 □ 1,2,4-TRIAZIN-5(4H)ONE, 4-AMINO-6-(1,1-DIMETHYLETHYL)-3-(ETHYLTHIO)- □ TYCOR

TOXICITY DATA with REFERENCE:

orl-rat LD50:1280 mg/kg PBCWDF -,35,85

skn-rat LD50:>5 g/kg FMCHA2 -,C37,91

orl-mus LD50:1 g/kg PEMNDP 9,27,91

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.

ENK000 CAS: 76-58-4 HR: 3
ETHYLMORPHINE

mf: C₁₉H₂₃NO₃ mw: 313.43

PROP: A solid. Mp: 199–201°.

SYNS: CODETHYLIN □ (5-α,6-α)-7,8-DIDEHYDRO-4,5-EPOXY-3-ETHOXY-17-METHYLMORPHINAN-6-OL □ DIONIN □ DIONINE □ 3-o-ETHYLMORPHINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:810 mg/kg JPPMAB 25,929,73

ipr-rat LD50:110 mg/kg PHARAT 31,655,76

scu-rat LD50:200 mg/kg JPPMAB 25,929,73

ivn-rat LD50:62 mg/kg JPPMAB 25,929,73

ipr-mus LD50:120 mg/kg APFRAD 8,261,50

scu-mus LD50:136 mg/kg 28ZNAE 138,8,38

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

ENK500 CAS: 6746-59-4 HR: 3
ETHYL MORPHINE HYDROCHLORIDE
DIHYDRATE

mf: C₁₉H₂₃NO₃•ClH•2H₂O mw: 385.93

PROP: White, microscopic, crystalline powder. Mp: 125° (decomp), vap d: 13.3.

SYNS: 7,8-DIDEHYDRO-4,5-α-EPOXY-3-ETHOXY-17-METHYLMORPHINAN-6-α-OL HYDROCHLORIDE DIHYDRATE □ DIONIN □ ETHYLMORPHINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

scu-mus LD50:200 mg/kg 29ZVAB -,53,69

scu-rbt LDLo:550 mg/kg HBAMAK 4,1289,35

scu-gpg LDLo:300 mg/kg HBAMAK 4,1289,35

SAFETY PROFILE: Poison by subcutaneous route. Can be habit forming. An experimental teratogen. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also CODEINE and MORPHINE.

ENL000 CAS: 100-74-3 HR: 3
N-ETHYLMORPHOLINE

mf: C₆H₁₃NO mw: 115.20

PROP: Colorless liquid. Bp: 138°, flash p: 89.6°F (OC), d: 0.916 @ 20°/20°, vap d: 4.00. IDLH 100 ppm.

SYNS: 4-ETHYLMORPHOLINE □ NEM

TOXICITY DATA with REFERENCE:

skn-rbt 453 mg open MLD UCDS** 11/3/71

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

orl-rat LD50:1780 mg/kg DTLWS* 4,190,82

orl-mus LD50:1200 mg/kg TPKVAL 15,116,79

ihl-mus LC50:18,000 mg/m³/2H TPKVAL 15,116,79

ivn-mus LD50:180 mg/kg CSLNX* NX#04778

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 5 ppm (skin)

ACGIH TLV: TWA 5 ppm (skin)**SAFETY PROFILE:** Poison by intravenous route. Moderately toxic by ingestion. Mildly toxic by inhalation. A skin and severe eye irritant. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use alcohol foam, foam, CO₂, dry chemical. When heated to decomposition it emits toxic fumes of NO_x.**ENL100 CAS: 309-29-5 HR: 3**
1-ETHYL-4-(2-MORPHOLINOETHYL)-3,3-DIPHENYL-2-PYRROLIDINONEmf: C₂₄H₃₀N₂O₂ mw: 378.56**SYNS:** AHR-619 □ DOPRAM □ DOXAPRAM □ 2-PYRROLIDINONE, 1-ETHYL-4-(2-MORPHOLINOETHYL)-3,3-DIPHENYL- □ 2-PYRROLIDINONE, 1-ETHYL-4-(2-(4-MORPHOLINYL)-ETHYL)-3,3-DIPHENYL-(9CI)**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:268 mg/kg JPPMAB 30,522,78

SAFETY PROFILE: Poison by intraperitoneal route. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.**ENL500 CAS: 58050-49-0 HR: 3**
ETHYL-N-(4-MORPHOLINOMETHYL)-CARBAMATEmf: C₈H₁₆N₂O₃ mw: 188.26**TOXICITY DATA with REFERENCE:**

ims-rat LD50:300 mg/kg ZKKOBW 84,227,75

ipr-mus LD50:500 mg/kg ZKKOBW 84,227,75

SAFETY PROFILE: Poison by intramuscular route. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.**ENL850 CAS: 124-06-1 HR: 2**
ETHYL MYRISTATEmf: C₁₆H₃₂O₂ mw: 256.42**PROP:** Colorless to pale-yellow liquid; waxy odor or crystals from (Me₂CO). D: 0.857, mp: 12.3°, bp: 295°, refr index: 1.434, flash p: 212°F.**SYN:** FEMA No. 2445**SAFETY PROFILE:** Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.**ENL860 CAS: 1127-76-0 HR: 1**
1-ETHYLNAPHTHALENEmf: C₁₂H₁₂ mw: 156.24**SYN:** NAPHTHALENE, 1-ETHYL-**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:5 g/kg 28ZRAQ -,55,60

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**ENL862 CAS: 939-27-5 HR: 1**
2-ETHYLNAPHTHALENEmf: C₁₂H₁₂ mw: 156.24**SYN:** NAPHTHALENE, 2-ETHYL-**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:5 g/kg 28ZRAQ -,55,60

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**ENL900 CAS: 2122-70-5 HR: 2**
ETHYL 1-NAPHTHYLACETATEmf: C₁₄H₁₄O₂ mw: 214.28**SYNS:** ETHYL 1-NAPHTHALENEACETATE □ 1-NAPHTHALENEACETIC ACID, ETHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:3580 mg/kg PESTC* 9,10,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**ENM000 CAS: 4366-50-1 HR: 3**
1-ETHYL-1-(1-NAPHTHYL)-2-THIOUREAmf: C₁₃H₁₄N₂S mw: 230.35**SYN:** USAF EK-7162**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.**ENM500 CAS: 625-58-1 HR: 3**
ETHYL NITRATEmf: C₂H₅NO₃ mw: 91.08**PROP:** Colorless liquid, pleasant odor, sweet taste. Mp: -112°, bp: 87.7°, rel: 3.8%, flash p: 50°F (CC), d: 1.004 @ 20°/4°, vap d: 3.14. Sol in water.**SYNS:** NITRIC ACID, ETHYL ESTER □ NITRIC ETHER**TOXICITY DATA with REFERENCE:**

mmo-sat 10 μmol/plate FCTOD7 21,707,83

mma-sat 10 μmol/plate FCTOD7 21,707,83

sln-dmg-ihl 1200 ppm/3D FCTOD7 21,707,83

ipr-cat LD50:300 mg/kg 85JCAE -,393,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by intraperitoneal route. Mutation data reported. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. A moderate explosion hazard when exposed to heat (explodes @ 185°F). To fight fire, use foam, CO₂, dry chemical, water to blanket fire. Incompatible with Lewis acids. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES and ESTERS.**ENN000 CAS: 109-95-5 HR: 3**
ETHYL NITRITE**DOT:** UN 1194mf: C₂H₅NO₂ mw: 75.08**PROP:** Colorless or yellowish liquid or gas; highly aromatic, ethereal odor. Decomp on standing. Very sltly sol in water; misc in alc and ether. Bp: 17°, rel: 3.0%, uel:

50%, explodes at 194°F, flash p: -31°F (CC), d: 0.900 @ 15.5°, autoign temp: 194°F, vap d: 2.59. Can explode >90°C.

SYNS: ETHYLESTER KYSELINY DUSITE □ ETHYL NITRITE □ ETHYL NITRITE SOLUTIONS (DOT) □ NITROSYL ETHOXIDE □ NITROUS ETHER □ NITROUS ETHYL ETHER

TOXICITY DATA with REFERENCE:

ihl-rat LC50:160 ppm/4H FAATDF 8,101,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison

SAFETY PROFILE: Poison by inhalation and ingestion. Narcotic in high concentrations. Lowers blood pressure. Methemoglobinemia has been reported. A very dangerous fire and severe explosion hazard when exposed to heat or flame. A powerful oxidizer. May explode when heated above 90°C. Highly dangerous when heated to decomposition or on contact with acid or acid fumes. To fight fire, use foam, CO₂, dry chemical, or water spray. When heated to decomposition it emits toxic fumes of NO_x. See also NITRITES and ETHERS.

ENN100 CAS: 626-35-7 HR: 2
ETHYL NITROACETATE

mf: C₄H₇NO₄ mw: 133.12

SYN: ACETIC ACID, NITRO-, ETHYL ESTER

TOXICITY DATA with REFERENCE:

ipr-rat LD50:2275 mg/kg VINIT* #6802-83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ENN200 CAS: 85068-73-1 HR: 2
2-(ETHYLNITROAMINO)ETHANOL NITRATE (ESTER)

mf: C₄H₉N₃O₅ mw: 179.16

SYNS: ETHANOL, 2-(ETHYLNITROAMINO)-, NITRATE (ESTER) □ N-ETHYL-2-NITRATOETHYL NITRAMINE

TOXICITY DATA with REFERENCE:

skn-rbt LD50:>2 g/kg NTIS** AD-A252-109

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

ENN500 CAS: 41735-30-2 HR: 3
5-(N-ETHYL-N-NITRO)AMINO-3-(5-NITRO-2-FURYL)-s-TRIAZOLE

mf: C₈H₈N₆O₅ mw: 268.22

SYN: N-NITRO-N-(3-(5-NITRO-2-FURYL)-s-TRIAZOL-5-YL)ETHYLAMINE

TOXICITY DATA with REFERENCE:

orl-mus LD50:600 mg/kg JMCMAR 16,312,73

ipr-mus LD50:150 mg/kg JMCMAR 16,312,73

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

ENO000 CAS: 99-77-4 HR: 3

ETHYL-p-NITROBENZOATE

mf: C₉H₉NO₄ mw: 195.19

PROP: Triclinic crystals or leaflets from ethanol. Mp: 57°. Insol in water; sol in alc and ether.

SYN: ETHYL NITROBENZOATE, PARA ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LD50:250 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. An insecticide. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

ENO100 CAS: 838-57-3 HR: 1
ETHYL (4-NITROBENZOYL)ACETATE

mf: C₁₁H₁₁NO₅ mw: 237.23

SYNS: ACETIC ACID, (p-NITROBENZOYL)-, ETHYL ESTER □ BENZENEPROPANOIC ACID, 4-NITRO-β-OXO-, ETHYL ESTER (9CI) □ ETHYL (p-NITROBENZOYL)ACETATE □ ETHYL 4-NITRO-β-OXOBENZENEPROPANOATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:8620 mg/kg GISAAA 51(1),79,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ENO200 CAS: 39562-16-8 HR: 2
ETHYL 2-(m-NITROBENZYLIDENE)-ACETOACETATE

mf: C₁₃H₁₃NO₅ mw: 263.27

SYNS: CINNAMIC ACID, α-ACETYL-m-NITRO-, ETHYL ESTER □ BUTENOIC ACID, 2-(3-(3-NITROPHENYL)METHYLENE)-3-OXO-, ETHYL ESTER □ ETHYL α-ACETYL-β-(m-NITROPHENYL)ACRYLATE □ ETHYL 2-(3-NITROBENZYLIDENE)ACETOACETATE □ ETHYL 3-NITROBENZYLIDENEACETOACETATE □ 3-NITROBENZYLIDENE ETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LDLo:2 g/kg IJTOFN 19,331,2000

ihl-rat LC50:>4857 mg/m³/4H IJTOFN 19,331,2000

skn-rat LD50:>2 g/kg IJTOFN 19,331,2000

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

ENO300 CAS: 275795-11-4 HR: D
3-ETHYL-4-NITROBIPHENYL

mf: C₁₄H₁₃NO₂ mw: 227.28

SYN: 1,1'-BIPHENYL, 3-ETHYL-4-NITRO-

TOXICITY DATA with REFERENCE:

mic-sat 20 µLg/plate MUREAV 467,55,2000

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

ENP000 CAS: 39197-62-1 HR: D
N-ETHYL-N'-NITROGUANIDINE

mf: C₃H₈N₄O₂ mw: 132.15

SYN: 1-ETHYL-3-NITROGUANIDINE

TOXICITY DATA with REFERENCE:

cyt-ham:lng 1 g/L ATSUDG (4),41,80

cyt-ham:fbr 2 g/L/48H MUREAV 48,337,77

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

ENP100 CAS: 2872-52-8 HR: 1
2-(ETHYL(4-((4-NITROPHENYL)AZO)PHENYL)-AMINO)ETHANOL

mf: C₁₆H₁₈N₄O₃ mw: 314.38

SYNS: ACETAMINE SCARLET B □ ACETATE FAST SCARLET B □ ACETOQUINONE LIGHT SCARLET BLZ □ AMACEL SCARLET GB □ CALCOSYN BRILLIANT SCARLET BN □ CELLITON DISCHARGE SCARLET B □ CELLITON SCARLET B (6CI) □ CELLITON SCARLET BA-CF □ CELUTATE SCARLET BH □ CIBACET SCARLET 2B □ CIBACET SCARLET BRN □ CIBACET SCARLET BS □ C.I. 11110 □ CILLA SCARLET B □ C.I. SOLVENT RED 14 □ DIACELLITON FAST SCARLET B □ DIACELLITON SCARLET B □ DISPERSE RED 1 □ DISPERSE RED ZH □ DISPERSE SCARLET B □ DISPERSE SCARLET ZH □ DISPERSIVE RUBY ZH □ DISPERSOL FAST SCARLET B □ DISPERSOL SCARLET B □ DURGACET SCARLET B □ EASTONE SCARLET BG □ ENIACYL SCARLET B □ ETHANOL, 2-(ETHYL(4-((4-NITROPHENYL)AZO)PHENYL)AMINO)-(9CI) □ FENACET SCARLET B □ INTERCHEM ACETATE SCARLET B □ INTERCHEM HISPERS SCARLET BH □ KAYALON FAST SCARLET B □ MICROSETILE SCARLET B □ MIKETON FAST SCARLET B □ MONOCEL SCARLET B □ NACELAN SCARLET CSB □ NEOSETILE SCARLET B □ NYLOQUINONE RED N □ RELITON SCARLET BA □ SAFARITONE SCARLET B □ SCARLET RELITON BA □ SERINYL HOISERY SCARLET BD □ SERISOL FAST SCARLET BD □ SETACYL SCARLET B □ SETACYL SCARLET 2BD □ SETACYL SCARLET RNA □ SILOTRAS SCARLET TSR □ SUPRACET FAST SCARLET B □ TERTRANESE SCARLET N-B □ WO 4

TOXICITY DATA with REFERENCE:

ipr-rat LD50:7470 mg/kg GTPZAB 30(1),50,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ENQ000 CAS: 546-71-4 HR: 3
ETHYL-4-NITROPHENYL ETHYLPHOSPHONATE

mf: C₁₀H₁₄NO₅P mw: 259.22

SYNS: ARMINE □ ETHOXY-4-NITROPHENYLOXY-ETHYLPHOSPHINEOXIDE □ ETHYLPHOSPHONIC ACID ETHYL-p-NITROPHENYL ESTER

TOXICITY DATA with REFERENCE:

scu-rat LD50:330 µg/kg FATOAO 42(3),299,79

ivn-rat LD50:250 µg/kg FATOAO 42(3),299,79

ipr-mus LD50:1862 µg/kg PHARAT 35,806,80

scu-mus LD50:330 µg/kg RPTOAN 42,106,79

ivn-mus LD50:250 µg/kg RPTOAN 42,106,79

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x and PO_x. See also ESTERS.

ENQ500 CAS: 3015-75-6 HR: 3
ETHYL-p-NITROPHENYLPENTYL-PHOSPHONATE

mf: C₁₃H₂₀NO₅P mw: 301.31

SYN: p-NITROPHENYL ETHYL PENTYLPHOSPHONATE

TOXICITY DATA with REFERENCE:

ivn-rbt LD50:118 µg/kg BCPA6 13,1229,64

ivn-gpg LD50:299 µg/kg BCPA6 13,1229,64

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

ENQ600 CAS: 3058-46-6 HR: 2
ETHYL 2-NITROPHENYL SULFIDE

mf: C₈H₉NO₂S mw: 183.24

SYNS: BENZENE, 1-(ETHYLTHIO)-2-NITRO- □ CP 13842 □ ETHYL o-NITROPHENYL SULFIDE □ SULFIDE, ETHYL o-NITROPHENYL

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/24H MLD NTIS** OTS0546285

eye-rbt 100 µL/24H MOD NTIS** OTS0546285

orl-rat LD50:930 mg/kg NTIS** OTS0546285

skn-rbt LDLo:1900 mg/kg NTIS** OTS0546285

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

ENR000 CAS: 35363-12-3 HR: 2
3-ETHYL-4-NITROPYRIDINE-1-OXIDE

mf: C₇H₈N₂O₃ mw: 168.17

TOXICITY DATA with REFERENCE:

dnd-mus:fbr 500 µmol/L CNREA8 35,521,75

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

ENR500 CAS: 65986-80-3 HR: 2
(ETHYLNITROSAMINO)METHYL ACETATE

mf: C₅H₁₀N₂O₃ mw: 146.17

SYNS: ACETOXYMETHYLETHYLNITROSAMINE □ N-(ACETOXY)METHYL-N-ETHYLNITROSAMINE □ N-ACETOXYMETHYL-N-NITROSOETHYLAMINE □ N-(1-ACETOXYMETHYL)-N-NITROSOETHYL AMINE □ AETHYL ACETOXYMETHYLNITROSAMIN (GERMAN) □ EAMN □ ETHYL ACETOXYMETHYLNITROSAMINE □ N-ETHYL-N-(ACETOXYMETHYL)NITROSAMINE

TOXICITY DATA with REFERENCE:

mno-esc 1 µmol/plate GANNA2 71,124,80

dnr-bcs 5 µmol/plate GANNA2 70,663,79

dns-rat:oth 10 µmol/L CBINA8 53,99,85

dnd-mus:fbr 70 µmol/L GANNA2 73,565,82

msc-ham:lng 100 µmol/L GANNA2 72,531,81

scu-rat TDLo:50 mg/kg/10W-I:CAR JCROD7 104,13,82

orl-rat LD50:810 mg/kg ZKKOBW 91,317,78

SAFETY PROFILE: Moderately toxic by ingestion. 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.

ENS000 CAS: 41735-29-9 HR: 3
5-(N-ETHYL-N-NITROSO)AMINO-3-(5-NITRO-2-FURYL)-s-TRIAZOLE

mf: C₈H₈N₆O₄ mw: 252.22**SYN:** N-(3-(5-NITRO-2-FURYL)-s-TRIAZOL-5-YL)-N-NITROSOETHYLAMINE**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:235 mg/kg JMCMAR 9,42,66

orl-mus LD50:440 mg/kg JMCMAR 16,312,73

ipr-mus LD50:150 mg/kg JMCMAR 16,312,73

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.**ENS500 CAS: 20689-96-7 HR: 3
N-ETHYL-N-NITROSOBENZYLAMINE**mf: C₉H₁₂N₂O mw: 164.23**SYNS:** N-NITROSO-N-ETHYLBENZYLAMINE (GERMAN) □ N-NITROSO-N-ETHYLBENZYLAMINE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:250 mg/kg ZKKOBW 92,235,78

SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES and N-NITROSO COMPOUNDS.**ENT000 CAS: 32976-88-8 HR: 2
N-ETHYL-N-NITROSOBIURET**mf: C₄H₈N₄O₃ mw: 160.16**SYNS:** ENBU □ ETHYLNITROSOBIURET □ N-NITROSO-N-ETHYL BIURET**TOXICITY DATA with REFERENCE:**

orl-rat TDLo:100 mg/kg (22D preg):CAR,TER

IARCCD 4,45,73

orl-rat TD:100 mg/kg (15D preg):ETA,TER ZKKOBW 76,45,71

orl-rat LD50:1050 mg/kg IARCCD 4,45,73

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic, and tumorigenic data. Experimental teratogenic effects. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.**ENT500 CAS: 38434-77-4 HR: 3
ETHYLNITROSOCYANAMIDE**mf: C₃H₅N₃O mw: 99.11**SYNS:** N-CYANO-N-NITROSOETHYLAMINE □ ENC □ NITROSOETHANECARBAMONITRILE**TOXICITY DATA with REFERENCE:**

mmo-sat 1 µmol/L MUREAV 48,131,77

orl-rat TDLo:1800 mg/kg/52W-I:NEO JJIND8 62,1523,79

ipr-rat LD50:15 mg/kg JOCEAH 38,1325,73

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Poison by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. Many N-nitroso compounds are carcinogens. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also N-NITROSO COMPOUNDS and NITRILES.**ENU000 CAS: 4245-77-6 HR: 2
N-ETHYL-N-NITROSO-N'-NITROGUANIDINE**mf: C₃H₇N₅O₃ mw: 161.15**SYNS:** N-AETHYL-N'-NITRO-N-NITROSOGUANIDIN (GERMAN) □ ENNG □ N-ETHYL-N'-NITRO-N-NITROSOGUANIDINE □ NSC-38191**TOXICITY DATA with REFERENCE:**

mma-sat 5 µg/plate TCMUE9 1,13,84

mmo-esc 2 µg/plate KSRNAM 19,4465,85

pic-esc 200 µg/L TCMUE9 1,91,84

sce-hmn:lym 1 µmol/L NGCJAK 15,1085,80

dnd-ham:ovr 20 µmol/L MUREAV 132,41,84

sce-ham-orl 10 mg/kg MUREAV 113,33,83

sce-ham:lng 10 mg/L CNREA8 44,3270,84

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.**ENU500 CAS: 72505-63-6 HR: D
2-ETHYL-3-NITROSOTHAZOLIDINE**mf: C₅H₁₀N₂O mw: 114.17**SYNS:** ENT □ 2-ETHYL-N-NITROSOTHAZOLIDINE □ N-NITROSO-2-ETHYLTHIAZOLIDINE**TOXICITY DATA with REFERENCE:**

mmo-sat 1 mg/L JAFCAU 28,62,80

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.**ENV000 CAS: 759-73-9 HR: 3
1-ETHYL-1-NITROSOUREA**mf: C₃H₇N₃O₂ mw: 117.13**PROP:** Pale-yellow crystals. Mp: 103° (decomp).**SYNS:** AENH (GERMAN) □ AETHYLNITROSO-HARNSTOFF (GERMAN) □ ENU □ N-ETHYL-N-NITROSOCARBAMIDE □ ETHYLNITROSOUREA □ N-ETHYL-N-NITROSO-UREA □ NEU □ NITROSOETHYLUREA □ NSC-45403 □ RCRA WASTE NUMBER U176**TOXICITY DATA with REFERENCE:**

dni-hmn:hla 100 µmol/L MUREAV 92,427,82

cyt-ham-orl 100 mg/kg TRENAP 36,396,85

orl-rat TDLo:10 mg/kg (female 19D post):NEO,TER CALEDQ 2,93,76

skn-rat TDLo:350 mg/kg (female 16-22D

post):NEO,TER ZEKBAI 81,169,74

ipr-rat TDLo:10 mg/kg (female 15D post):NEO,TER SCIEAS 218,682,82

ivn-rat TDLo:50 mg/kg (15D preg):CAR,TER ZEKBAI 73,371,70

unr-rat TDLo:5 mg/kg (13D preg):ETA,TER XENOBH 3,271,73

ipr-mus TDLo:20 mg/kg (19D preg):CAR,TER VOONAW 23(3),41,77

par-mus TDLo:100 mg/kg/(18D preg):ETA,TER PAACA3 17,122,76

par-mus TDLo:58,565 µg/kg (18D preg):CAR,TER JNCIAM 51,1965,73

ipr-dog TDLo:100 mg/kg (53D preg):ETA,TER CALEDQ 12,161,81

ivn-dog TDLo:30 mg/kg (59D preg):ETA,TER
ZAPPAN 121,54,77
ipr-rbt TDLo:100 mg/kg (15-24D preg):NEO,TER
JJIND8 65,607,80
ivn-rbt TDLo:80 mg/kg (25D preg):NEO,TER
BEXBAN 85,369,78
par-rbt TDLo:160 mg/kg (25D preg):ETA,TER
ZAPPAN 121,54,77
ivn-pig TDLo:120 mg/kg (20-31D preg):ETA,TER
ARGEAR 34,25,69
orl-ham TDLo:60 mg/kg (11D preg):ETA,TER
ZEKBAI 71,320,68
ipr-ham TDLo:800 mg/kg (16D preg):NEO,TER
ZKKOBW 90,233,77
ivn-ham TDLo:80 mg/kg (15D preg):ETA,TER
ZAPPAN 121,54,77
ipr-rat TD:10 mg/kg (21D preg):NEO,REP JSONDX
5,396,84
ivn-rat TD:20 mg/kg/(12D preg):ETA,TER NAGZAC
54,130,79
ivn-rbt TD:150 mg/kg (8-10D preg):ETA,TER
ZKKOBW 89,331,77
ivn-rat TD:10 mg/kg (16D preg):ETA,TER ANPTAL
34,21,76
ivn-rat TD:20 mg/kg (17D preg):ETA,TER CALEDQ
1,345,76
ivn-rbt TD:70 mg/kg (25D preg):ETA,TER NEOLA4
25,453,78
orl-rat LD50:300 mg/kg PPTCBY 2,73,72
scu-rat LD50:240 mg/kg ZEKBAI 74,141,70
ivn-rat LD50:240 mg/kg NATUAS 222,1064,69
orl-mus LD50:960 mg/kg MUREAV 223,377,89
ipr-mus LD50:490 mg/kg MUREAV 223,377,89
CONSENSUS REPORTS: NTP 10th Report on
Carcinogens. IARC Cancer Review: Group 2A IMEMDT
7,56,87; Human Limited Evidence IMEMDT 17,191,78;
Animal Sufficient Evidence IMEMDT 17,191,78;
IMEMDT 1,135,72. EPA Genetic Toxicology Program.
Community Right-To-Know List. Reported in EPA TSCA
Inventory.
SAFETY PROFILE: Confirmed carcinogen with
experimental carcinogenic, neoplastigenic, tumorigenic,
and teratogenic data. Poison by ingestion, subcutaneous,
intraperitoneal, and intravenous routes. Human mutation
data reported. When heated to decomposition it emits
toxic fumes of NO_x. See also N-NITROSO
COMPOUNDS.

ENV500 CAS: 139-94-6 HR: 3
1-ETHYL-3-(5-NITRO-2-THIAZOLYL) UREA

mf: C₆H₈N₄O₃S mw: 216.24

PROP: A solid. Mp: 228° (decomp).

SYNS: N-ETHYL-N'-(5-NITRO-2-THIAZOLYL)UREA □
HEPZIDE □ NCI-C03792 □ NITHIAZID □ NITHIAZIDE

TOXICITY DATA with REFERENCE:

mno-sat 75 µg/plate ENMUDM 5(Suppl 1),3,83
mma-sat 75 µg/plate ENMUDM 5(Suppl 1),3,83
orl-mus LD50:2150 mg/kg NCILB* NIH-NCI-E-C-72-
3252,73

CONSENSUS REPORTS: IARC Cancer Review:
Group 3 IMEMDT 7,56,87; Animal Limited Evidence
IMEMDT 31,179,83. NCI Carcinogenesis Bioassay (feed);
Clear Evidence: mouse, rat NCITR* NCI-CG-TR-146,79.

SAFETY PROFILE: Suspected carcinogen with
experimental carcinogenic data. Moderately toxic by
ingestion. Mutation data reported. When heated to
decomposition it emits very toxic fumes of NO_x and PO_x.

ENW000 CAS: 123-29-5 HR: 2
ETHYL NONANOATE

mf: C₁₁H₂₂O₂ mw: 186.33

PROP: Colorless liquid; fruity, cognac odor. D:
0.863–0.867, refr index: 1.420, flash p: 185°F. Misc with
alc, propylene glycol; insol in water.

SYNS: ETHYL NONYLATE □ ETHYL PELARGONATE □
FEMA No. 2447 □ NONANOIC ACID, ETHYL ESTER □ WINE
ETHER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,747,78
orl-gpg LD50:24 g/kg FCTXAV 2,327,64

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin
irritant. Combustible liquid. When heated to
decomposition it emits acrid smoke and irritating fumes.

ENW500 CAS: 103-08-2 HR: 1
5-ETHYL-2-NONANOL

mf: C₁₁H₂₄O mw: 172.35

SYN: (3-ETHYL-N-HEPTYL)METHYLCARBINOL

TOXICITY DATA with REFERENCE:

skn-rbt 415 mg open MLD UCDS** 2/21/58
eye-rbt 42 mg MOD UCDS** 2/21/58
skn-rbt LD50:4760 mg/kg UCDS** 2/21/58

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

ENX000 CAS: 10137-90-3 HR: 1
5-ETHYL-3-NONEN-2-ONE

mf: C₁₁H₂₀O mw: 168.31

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 LD50:8120 mg/kg AMIHBC 10,61,54
skn-rbt LD50:8480 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.

ENX100 CAS: 23489-02-3 HR: 3
1-ETHYL-1-NONYLPIPERIDINIUM BROMIDE

mf: C₁₆H₃₄N•Br mw: 320.42

TOXICITY DATA with REFERENCE:

orl-mus LD50:162 mg/kg PSDTAP 15,331,74
ipr-mus LD50:42,955 µg/kg PSDTAP 15,331,74
ivn-mus LD50:3895 µg/kg PSDTAP 15,331,74

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

ENX500 CAS: 3198-07-0 HR: 3
ETHYLNORADRENALINE HYDROCHLORIDE

mf: C₁₀H₁₅NO₃•ClH mw: 233.72

SYNS: α -(1-AMINOPROPYL)PROTocatechuyl Alcohol Hydrochloride \square Bronkephrine Hydrochloride \square Butanefrine Hydrochloride \square 1-(3,4-Dihydroxyphenyl)-2-amino-1-butanol Hydrochloride \square 1-(3,4-Dihydroxyphenyl)-1-hydroxy-2-aminobutane Hydrochloride \square E.N.E. \square E.N.S. \square Ethyl Norepinephrine Hydrochloride \square α -EthylNorepinephrine Hydrochloride \square EthylNorsuprarenin Hydrochloride

TOXICITY DATA with REFERENCE:

scu-hmn TDLo:36 μ g/kg:CVS JPETAB 81,269,44
ivn-hmn TDLo:9 μ g/kg:CVS JPETAB 81,269,44
ims-hmn TDLo:18 μ g/kg:CVS JPETAB 81,269,44
scu-rat LDLo:160 mg/kg JPETAB 81,269,44
ivn-mus LD50:117 mg/kg JPETAB 81,269,44

SAFETY PROFILE: Poison by intravenous and subcutaneous routes. Human systemic effects by subcutaneous, intravenous, and intramuscular routes: heart rate change, blood pressure decrease, and pulse pressure increase. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x . See also NOREPINEPHRINE.

ENX575 CAS: 16320-04-0 HR: D
ETHYLNORGESTRIENONE

mf: $\text{C}_{21}\text{H}_{24}\text{O}_2$ mw: 308.45

PROP: Crystals from C_6H_6 /cyclohexane. Mp: 154°.

SYNS: 13-ETHYL-17- α -ETHINYL-17-HYDROXYGON-4,9,11-TRIEN-3-ONE \square 13-ETHYL-17-HYDROXY-18,19-DINOR-17- α -PREGNA-4,9,11-TRIEN-20-YN-3-ONE \square GESTRIGONE \square GESTRINONE \square R-2323 \square RU 2323

TOXICITY DATA with REFERENCE:

orl-rat LDLo:1 g/kg YACHDS 16,701,88
ipr-rat LDLo:1 g/kg YACHDS 16,701,88
ipr-mus LDLo:1 g/kg YACHDS 16,701,88

SAFETY PROFILE: Human reproductive effects by ingestion, implant or intravaginal routes: menstrual cycle changes and disorders, and changes in female fertility. An experimental teratogen. Other experimental reproductive effects. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes.

ENX600 CAS: 52-78-8 HR: D
17-ETHYL-19-NORTESTOSTERONE

mf: $\text{C}_{20}\text{H}_{30}\text{O}_2$ mw: 302.50

PROP: Crystals from methanol. Mp: 140–141°. Insol in water; sol in alc, benzene, ether, ethyl acetate.

SYNS: 8022 C.B. \square 17-ENT \square 17- α -ETHYL-17-HYDROXY-NORANDROSTENONE \square 17- α -ETHYL-17-HYDROXY-4-NORANDROSTEN-3-ONE \square 17- α -ETHYL-17-HYDROXY-19-NORANDROST-4-EN-3-ONE \square 17- α -ETHYL-19-NORTESTOSTERONE \square 17-HYDROXY-19-NORPREGN-4-EN-3-ONE \square 17-HYDROXY-19-NOR-17- α -PREGN-4-EN-3-ONE \square 17- β -HYDROXY-19-NOR-17- α -PREGN-4-EN-3-ONE \square NILEVA \square NILEVAR \square NORETHANDROLONE \square 19-NORETHYL-TESTOSTERONE \square 19-NOR-17- α -ETHYLTESTOSTERONE \square 17- α -NORTESTOSTERONE \square PRONABOL \square SC 5914 \square SOLEVAR

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Human male reproductive effects by ingestion: impotence, changes in spermatogenesis, testes, epididymis and sperm duct. Human female

reproductive effects by ingestion: changes in menstrual cycle and fertility. An experimental teratogen. Other reproductive effects in experimental animals. A steroid. When heated to decomposition it emits acrid smoke and fumes.

ENX875 CAS: 56501-34-9 HR: 3
1-ETHYL-1-OCTADECYLPYPERIDINIUM BROMIDE

mf: $\text{C}_{25}\text{H}_{50}\text{N}^+\text{Br}^-$ mw: 444.67

TOXICITY DATA with REFERENCE:

orl-mus LD50:238 mg/kg PSDTAP 15,331,74
ipr-mus LD50:1847 μ g/kg PSDTAP 15,331,74
ivn-mus LD50:4493 μ g/kg PSDTAP 15,331,74

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and Br^- . See also BROMIDES.

ENY000 CAS: 106-32-1 HR: 2
ETHYL OCTANOATE

mf: $\text{C}_{10}\text{H}_{20}\text{O}_2$ mw: 172.30

PROP: Colorless liquid; wine-brandy fruit odor. D: 0.865–0.869, refr index: 1.417, flash p: 185°F. Sol in fixed oils; sltly sol in propylene glycol; insol in glycerin, water @ 209°.

SYNS: ETHYL CAPRYLATE \square ETHYL OCTYLATE \square FEMA No. 2449 \square OCTANOIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,763,76
orl-rat LD50:25,960 mg/kg FCTXAV 14,763,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

ENY100 CAS: 23489-01-2 HR: 3
1-ETHYL-1-OCTYLPYPERIDINIUM BROMIDE

mf: $\text{C}_{15}\text{H}_{32}\text{N}^+\text{Br}^-$ mw: 306.328

TOXICITY DATA with REFERENCE:

orl-mus LD50:210 mg/kg PSDTAP 15,331,74
ivn-mus LD50:4793 μ g/kg PSDTAP 15,331,74
ipr-mus LD50:48,453 μ g/kg PSDTAP 15,331,74

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

ENY200 CAS: 8047-99-2 HR: 2
N-ETHYL-2(OR 4)-METHYLBENZENE-SULFONAMIDE

mf: $\text{C}_9\text{H}_{13}\text{NO}_2\text{S}$ mw: 199.29

SYNS: KETJENFLEX 8 \square BENZENESULFONAMIDE, N-ETHYL-2(OR 4)-METHYL- \square SANTICIZER 8

TOXICITY DATA with REFERENCE:

eye-rbt 100 μ g MLD NTIS** OTS0545880
orl-rat LD50:2250 mg/kg NTIS** OTS0545880
orl-rbt LDLo:2 g/kg NTIS** OTS0545880
skn-rbt LD :>10 g/kg NTIS** OTS0545880

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. A mild eye irritant. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

ENY500 CAS: 122-51-0 HR: 3
ETHYL ORTHOFORMATE

DOT: UN 2524

mf: C₇H₁₆O₃ mw: 148.23

PROP: Clear liquid; pungent sweet odor. Fp: 30°, bp: 145.9°, flash p: 86°F (CC), d: 0.895 @ 20°/20°, vap press: 10 mm @ 40.5°, vap d: 5.11.

SYNS: AETHON □ ETHONE □ ETHYLESTER KYSELINY ORTHOMRAVENCÍ (CZECH) □ 1,1',1'-(METHYLIDYNE-TRIS(OXY))TRIS(ETHANE) □ ORTHOFORMIC ACID, ETHYL ESTER □ ORTHOFORMIC ACID, TRIETHYL ESTER □ ORTHOMRAVENCAN ETHYLNATY (CZECH) □ TRIETHOXY-METHANE □ TRIETHYL ORTHOFORMATE

TOXICITY DATA with REFERENCE:

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

skn-rbt 500 mg/24H MLD 85JCAE -,352,86

eye-rbt 100 mg/24H MOD 85JCAE -,352,86

eye-rbt 100 mg/24H MOD 28ZPAK -,44,72

orl-rat LD50:2920 mg/kg 28ZPAK -,44,72

ihl-rat LCLo:4000 ppm/8H AMIHBC 4,119,51

skn-rbt LD50:20 g/kg AMIHBC 4,119,51

scu-rbt LD50:20 g/kg FCTXAV 17,917,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by inhalation, skin contact, and subcutaneous routes. A skin and eye irritant. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

ENZ000 CAS: 97-81-4 HR: 2
ETHYL-3-OXATRICYCLO-(3.2.1.0^{2,4})OCTANE-6-CARBOXYLATE

mf: C₁₀H₁₄O₃ mw: 182.24

SYNS: 3,4-EPOXY-2,5-ENDOMETHYLENECYCLOHEXANE-CARBOXYLIC ACID, ETHYL ESTER □ 5,6-EPOXY-2-NORBORNANECARBOXYLIC ACID, ETHYL ESTER □ 3-OXATRICYCLO(3.2.1.0^{2,4})OCTANE-6-CARBOXYLIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:4760 mg/kg AIHAAP 24,305,63

skn-rbt LD50:3540 mg/kg AIHAAP 24,305,63

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

EOA000 CAS: 35629-44-8 HR: 3
1-ETHYL-3-(2-OXAZOLYL)UREA

mf: C₆H₉N₃O₂ mw: 155.18

TOXICITY DATA with REFERENCE:

orl-mus LD50:400 mg/kg JMCAR 14,1075,71

ipr-mus LD50:300 mg/kg JMCAR 14,1075,71

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

EOA500 CAS: 17243-64-0 HR: 2
cis-2-(3-ETHYL-4-OXO-5-PIPERIDINO-2-THIAZOLIDINYLIDENE)ACETIC ACID

mf: C₁₂H₁₈N₃O₃S mw: 270.38

PROP: Crystals. Mp: 86–87°.

SYNS: Z-(3-AETHYL-4-OXO-5-PIPERIDINO-THIAZOLIDIN-2-YLIDENE)-ESSIGSAURE-AETHYLESTER (GERMAN) □ ETHYL 3-ETHYL-4-OXO-5-PIPERIDINO-Δ^{2,4}-THIAZOLIDINEACETATE □ ETHYL (Z)-(3-ETHYL-4-OXO-5-PIPERIDINO-THIAZOLIDIN-2-YLIDENE)ACETATE □ (Z)-2-(3-ETHYL-4-OXO-5-PIPERIDINO-2-THIAZOLIDINYLIDENE) ACETIC ACID □ (3-ETHYL-4-OXO-5-(1-PIPERIDINYL)-2-THIAZOLIDINYLIDENE)ACETIC ACID ETHYL ESTER □ Go 919 □ PIPOZOLIN □ PIPOZOLINE □ PROBILIN □ W 3699

TOXICITY DATA with REFERENCE:

orl-rat LD50:3256 mg/kg ARZNAD 27,467,77

orl-mus LD50:1070 mg/kg ARZNAD 27,467,77

SAFETY PROFILE: Moderately toxic by ingestion. A choleric agent. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

EOB000 CAS: 17243-64-0 HR: 2
2-(3-ETHYL-4-OXO-5-PIPERIDINO-2-THIAZOLIDINYLIDENE)ACETIC ACID ETHYL ESTER

mf: C₁₄H₂₂N₂O₃S mw: 298.44

TOXICITY DATA with REFERENCE:

orl-rat LD50:3256 mg/kg ARZNAD 27,463,77

orl-mus LD50:1310 mg/kg ARZNAD 27,463,77

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also ESTERS.

EOB050 HR: D
ETHYL OXYHYDRATE

PROP: Colorless liquid; sharp rum-like odor. Misc in alc, glycerin, propylene glycol.

SYNS: FEMA No. 2996 □ RUM ETHER □ SALICYLALDEHYDE

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

EOB100 CAS: 28853-06-7 HR: 3
ETHYL PENTABORANE (9)

mf: C₂H₁₃B₅ mw: 91.17

SAFETY PROFILE: Ignites spontaneously in air. See also BORANES and BORON COMPOUNDS.

EOB200 CAS: 56501-32-7 HR: 3
1-ETHYL-1-PENTADECYLPIPERIDINIUM BROMIDE

mf: C₂₂H₄₆N•Br mw: 404.60

TOXICITY DATA with REFERENCE:

orl-mus LD50:195 mg/kg PSDTAP 15,331,74

ipr-mus LD50:3096 µg/kg PSDTAP 15,331,74

ivn-mus LD50:4692 µg/kg PSDTAP 15,331,74

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and Br^- . See also BROMIDES.

EOB300 CAS: 609-27-8 HR: 3

3-ETHYL-2-PENTANOL

mf: $\text{C}_7\text{H}_{16}\text{O}$ mw: 116.23

SYN: 2-PENTANOL, 3-ETHYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#03027

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EOD000 CAS: 22750-93-2 HR: 3

ETHYL PERCHLORATE

mf: $\text{C}_2\text{H}_5\text{ClO}_4$ mw: 128.52

$\text{CH}_3\text{CH}_2\text{OClO}_3$

PROP: Oil. Bp: 74° .

SYN: PERCHLORIC ACID, ETHYL ESTER

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: Possibly the most explosive chemical known. Very sensitive to impact, friction, and heat. Upon decomposition it emits toxic fumes of Cl^- . See also PERCHLORATES.

EOD500 CAS: 66922-67-6 HR: 2

ETHYLPHENACETIN

mf: $\text{C}_{12}\text{H}_{17}\text{NO}_2$ mw: 207.30

SYN: N-ETHYL-p-ACETOPHENETIDIDE

TOXICITY DATA with REFERENCE:

orl-rbt LDLo:2500 mg/kg AEXPBL 33,216,1894

orl-gpg LDLo:2700 mg/kg AEXPBL 33,216,1894

orl-frg LDLo:4545 mg/kg AEXPBL 33,216,1894

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

EOE000 CAS: 10510-77-7 HR: D

5-ETHYLPHENAZINIUM ETHYLSULFATE

mf: $\text{C}_{14}\text{H}_{13}\text{N}_2 \cdot \text{C}_2\text{H}_5\text{O}_4\text{S}$ mw: 334.42

SYNS: N-ETHYLPHENAZONIUM ETHOSULFATE □ PHENAZINE ETHOSULFATE

TOXICITY DATA with REFERENCE:

mmo-sat 100 $\mu\text{g}/\text{plate}$ MUREAV 40,203,76

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x . See also SULFATES.

EOE100 CAS: 123-07-9 HR: 3

4-ETHYLPHENOL

mf: $\text{C}_8\text{H}_{10}\text{O}$ mw: 122.18

SYN: PHENOL, p-ETHYL-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:138 mg/kg JMCAR 18,868,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

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

EOE200 CAS: 72490-01-8 HR: 3

ETHYL (2-(4-PHENOXYPHENOXY)ETHYL)-CARBAMATE

mf: $\text{C}_{17}\text{H}_{19}\text{NO}_4$ mw: 301.37

SYNS: ABG 6215 □ CARBAMIC ACID, (2-(4-PHENOXYPHENOXY)ETHYL)-, ETHYL ESTER □ FENOXYCARB □ INSEGAR □ LOGIC □ (2-(4-PHENOXYPHENOXY)ETHYL)CARBAMIC ACID ETHYL ESTER □ PICTYL □ RO 13-5223 □ VARIKILL

TOXICITY DATA with REFERENCE:

orl-rat LD50:16,800 mg/kg FMCHA2 -,C137,91

ihl-rat LC50:>480 mg/ m^3 NNGADV 16,709,91

skn-rat LD50:>2 g/kg DOVEAA 39(236),26,85

orl-mus LD50:>5 g/kg NNGADV 16,709,91

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

EOF500 CAS: 101491-82-1 HR: 3

N-ETHYL-N-(1-PHENOXY-2-PROPYL)CARBAMIC ACID-2-(DIETHYLAMINO)ETHYL ESTER HYDROCHLORIDE

mf: $\text{C}_{18}\text{H}_{30}\text{N}_2\text{O}_3 \cdot \text{ClH}$ mw: 358.96

SYN: C 2137

TOXICITY DATA with REFERENCE:

eye-rbt 2% MOD ARZNAD 9,113,59

scu-mus LD50:210 mg/kg ARZNAD 9,113,59

SAFETY PROFILE: Poison by subcutaneous route. An eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x . See also ESTERS.

EOG000 CAS: 101491-83-2 HR: 3

N-ETHYL-N-(1-PHENOXY-2-PROPYL)CARBAMIC ACID-2-(2-METHYLPIPERIDINO)-ETHYL ESTER HYDROCHLORIDE

mf: $\text{C}_{20}\text{H}_{32}\text{N}_2\text{O}_3 \cdot \text{ClH}$ mw: 385.00

SYN: C 2126

TOXICITY DATA with REFERENCE:

eye-rbt 2% MLD ARZNAD 9,113,59

scu-mus LD50:300 mg/kg ARZNAD 9,113,59

SAFETY PROFILE: Poison by subcutaneous route. An eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and HCl . See also CARBAMATES.

EOG500 CAS: 101651-79-0 HR: 3

N-ETHYL-N-(1-PHENOXY-2-PROPYL)-2-(2-METHYLPIPERIDINO) ACETAMIDE HYDROCHLORIDE

mf: $\text{C}_{19}\text{H}_{30}\text{N}_2\text{O}_2 \cdot \text{ClH}$ mw: 354.97

SYNS: C 2054 □ N-ETHYL-2-(METHYLPIPERIDINO)-N-(1-PHENOXY-2-PROPYL)ACETAMIDE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

eye-rbt 2% MLD ARZNAD 9,70,59

scu-mus LD50:165 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 NO_x and HCl.

EOG600 CAS: 174689-39-5 HR: 3
3-(2-ETHYLPHENOXY)-1-((1S)-1,2,3,4-TETRAHYDRONAPHTH-1-YLAMINO)-(2S)-2-PROPANOL OXALATE

mf: C₂₁H₂₇NO₂•C₂H₂O₄ mw: 415.49

SYN: 2-PROPANOL, 1-(2-ETHYLPHENOXY)-3-(((1S)-1,2,3,4-TETRAHYDRO-1-NAPHTHALENYL)AMINO)-, (2S)-, ETHANE-DIONATE (1:1) (SALT)

TOXICITY DATA with REFERENCE:

ipr-rat TDLo:1 mg/kg BIPBU* 24,995,2001

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

EOH000 CAS: 101-97-3 HR: 2
ETHYL PHENYLACETATE

mf: C₁₀H₁₂O₂ mw: 164.22

PROP: Colorless liquid; sweet, honey odor. Bp: 227°, d: 1.033 @ 20°, refr index: 1.496–1.500, vap d: 5.67, flash p: 100°C. Sol in fixed oils; insol in glycerin, propylene glycol, water.

SYNS: BENZENEACETIC ACID, ETHYL ESTER (9CI) □ ETHYL BENZENEACETATE □ ETHYL PHENACETATE □ ETHYL-2-PHENYLETHANOATE □ ETHYL-α-TOLUATE □ FEMA No. 2452 □ PHENYLACETIC ACID, ETHYL ESTER □ α-TOLUIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

dnr-bcs 21 mg/disc OIGZSE 34,267,85

orl-rat LD50:3300 mg/kg FCTXAV 13,99,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Combustible liquid. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

EOH100 CAS: 587-02-0 HR: 3
3-ETHYLPHENYLAMINE

mf: C₈H₁₁N mw: 121.20

SYNS: ANILINE, m-ETHYL- □ BENZENAMINE, 3-ETHYL-(9CI) □ m-ETHYLANILINE □ 3-ETHYLANILINE □ 3-ETHYLBENZENAMINE

TOXICITY DATA with REFERENCE:

orl-qal LD50:750 mg/kg AECTCV 12,355,1983

orl-brd LD50:316 mg/kg AECTCV 12,355,1983

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

EOH500 CAS: 2058-67-5 HR: 2
N-ETHYL-p-(PHENYLAZO)ANILINE

mf: C₁₄H₁₅N₃ mw: 225.32

SYNS: EAB □ 4-(ETHYLAMINOAZOBENZENE) □ N-ETHYL-4-AMINOAZOBENZENE □ N-ETHYL-4-(PHENYLAZO)-BENZENAMINE

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

EOI000 CAS: 17010-65-0 HR: 2
p-((m-ETHYLPHENYL)AZO)-N,N-DIMETHYLANILINE

mf: C₁₆H₁₉N₃ mw: 253.38

SYNS: N,N-DIMETHYL-p-((m-ETHYLPHENYL)AZO)ANILINE □ N,N-DIMETHYL-p-(3'-ETHYLPHENYL)AZO)ANILINE □ N,N-DIMETHYL-3'-ETHYL-4-(PHENYL)AZO)BENZENAMINE □ 3'-ETHYL-DAB □ 3'-ETHYL-4-DIMETHYLAMINOAZOBENZENE

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

EOI500 CAS: 5302-41-0 HR: 2
p-((p-ETHYLPHENYL)AZO)-N,N-DIMETHYLANILINE

mf: C₁₆H₁₉N₃ mw: 253.38

SYNS: N,N-DIMETHYL-4'-ETHYL-4-AMINOAZOBENZENE □ N,N-DIMETHYL-p-((4-ETHYLPHENYL)AZO)ANILINE □ 4'-ETHYL-DAB □ 4'-ETHYL-4-DIMETHYLAMINOAZOBENZENE

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

EOJ000 CAS: 55398-27-1 HR: 2
p-(4-ETHYLPHENYL)AZO)-N-METHYLANILINE

mf: C₁₅H₁₇N₃ mw: 239.35

SYNS: 4'-ETHYL-N-METHYL-4-AMINOAZOBENZENE □ N-METHYL-4'-ETHYL-p-AMINOAZOBENZENE

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

EOJ500 CAS: 6368-72-5 HR: 2
N-ETHYL-1-((p-(PHENYLAZO)PHENYL)AZO)-2-NAPHTHYLAMINE

mf: C₂₄H₂₁N₅ mw: 379.50

SYNS: CERES RED 7B □ C.I. 26050 □ C.I. SOLVENT RED 19 □ N-ETHYL-1-((p-(PHENYLAZO)PHENYL)AZO)-2-NAPHTHALENE-AMINE □ N-ETHYL-1-((4-(PHENYLAZO)PHENYL)AZO)-2-NAPHTHALENE-AMINE □ N-ETHYL-1-((4-(PHENYLAZO)-PHENYL)AZO)-2-NAPHTHYLAMINE □ FAT RED 7B □ HEXATYPE CARMINE B □ LACQUER RED V3B □ OIL VIOLET □ ORGANOL BORDEAUX B □ (PHENYL)AZO-4-PHENYL)AZO)-1-ETHYLAMINO-2-NAPHTHALENE □ 1-(4-PHENYL)AZO-PHENYL)AZO)-2-ETHYLAMINONAPHTHALENE □ SOLVENT RED 19 □ SPECIAL BLUE X 2137 □ SUDAN RED 7B □ SUDANROT 7B □ TYPOGEN CARMINE

TOXICITY DATA with REFERENCE:

mma-sat 500 µg/plate EPASR* 8EHQ-0982-0455

mma-mus:lym 300 mg/L EPASR* 8EHQ-0982-0455

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 8,253,75. Reported in EPA TSCA Inventory.

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

EOK000 CAS: 50-06-6 HR: 3
5-ETHYL-5-PHENYLBARBITURIC ACID

mf: C₁₂H₁₂N₂O₃ mw: 232.26

PROP: Crystals in three modifications, one stable and two unstable. Mp: 156–157°. Sol in EtOH; mod sol in Et₂O; sltly sol in CHCl₃; prac insol in C₆H₆.

SYNS: ACIDO-5-FENIL-5-ETILBARBITURICO (ITALIAN) □ ADONAL □ AGRYPNAL □ AMYLOFENE □ APHENYLBARBIT □ AUSTROMINAL □ BARBAPIL □ BARBENYL □ BARBILEHAE (BARBILETTAE) □ BARBIPHENYL □ BARBITA □ BARBONAL □ BARBOPHEN □ BARTOL □ BIALMINAL □ CABRONAL □ CALMINAL □ CODIBARBITA □ CRATECIL □ DEZIBARBITUR □ DORMIRAL □ DUNERYL □ ENSODORM □ EPIDORM □ EPISEDAL □ ESKABARB □ 5-ETHYL-5-PHENYL-2,4,6-(1H,3H,5H)PYRIMIDINETRIONE □ ETILFEN □ FENBITAL □ FENOBARBITAL □ FENYLETTAE □ GARDEPANYL □ GLYSOLETTEN □ HAPLOS □ HENNOLETTEN □ HYPNOGEN □ HYPNO-TABLINEETEN □ LEFEBAR □ LEPHEBAR □ LEPINAL □ LINASEN □ LIQUITAL □ LUBERGAL □ LUMEN □ LUMESSETTES □ LUMINAL □ LUMOFRIDETTEN □ LURAMIN □ NEUROBARB □ NORTIL □ NOVA-PHENO □ PARKOTAL □ PHENAEMAL □ PHENOBAL □ PHENOBARBITAL □ PHENOBARBITONE □ PHENOBARBITURIC ACID □ PHENOLURIC □ PHENOMET □ PHENONYL □ PHENOTURIC □ PHENYLETHYLBARBITURATE □ PHENYL-ETHYL-BARBITURIC ACID □ 5-PHENYL-5-ETHYLBARBITURIC ACID □ PHENYLETHYLMALONYLUREA □ PHENYLETTEN □ PHENYRAL □ PHOB □ POLCOMINAL □ PROMPTONAL □ SEDA-TABLINEN □ SEDICAT □ SEDIZORIN □ SEDOFEN □ SEDONAL □ SEDOPHEN □ SEVENAL □ SK-PHENOBARBITAL □ SOMBUTOL □ SOMNOLETTEN □ SOMNOSAN □ SOMONAL □ STARIFEN □ STENTAL EXTENTABS □ TALPHENO □ THENOBARBITAL □ THEOMINAL □ TRIABARB □ TRIDEZIBARBITUR □ VERSOMNAL □ ZADONAL

TOXICITY DATA with REFERENCE:

mno-sat 100 µg/plate MUREAV 147,255,85
 cyt-hmn:lym 388 mg/L AGMGAK 21,305,72
 otr-ham:emb 100 mg/L PMRSDJ 5,665,85
 orl-wmn TDLo:46 mg/kg CPEDAM 24,678,85
 orl-wmn LDLo:25,272 µg/kg/13D-I CMAJAX 33,635,35
 orl-chd TDLo:10 mg/kg:CNS AJDCAI 130,507,76
 orl-hmn TDLo:18 mg/kg:SKN,PUL,MET JAMAAP 116,700,41
 orl-man LDLo:6485 µg/kg/2W-I:SKN,MET AIMEAS 13,1243,40
 ims-inf TDLo:50 mg/kg PEDIAU 77,848,86
 orl-rat LD50:162 mg/kg TXAPA9 18,185,71
 ipr-rat LD50:151 mg/kg ARZNAD 30,477,80
 scu-rat LD50:200 mg/kg AEPPAE 152,341,30
 ivn-rat LD50:209 mg/kg ARTODN 40,211,78
 rec-rat LD50:284 mg/kg AACRAT 46,395,67
 orl-mus LD50:137 mg/kg PCJOAU 10,41,76
 ipr-mus LD50:128 mg/kg FRPSAX 14,269,59
 scu-mus LD50:228 mg/kg ARZNAD 30,477,80
 ivn-mus LD50:218 mg/kg AIPTAK 191,405,71
 orl-dog LD50:150 mg/kg SMWOAS 85,305,55

CONSENSUS REPORTS: EPA Genetic Toxicology Program. IARC Cancer Review: Group 2B IMEMDT 7,313,87; Animal Sufficient Evidence IMEMDT 7,313,87; Human Inadequate Evidence IMEMDT 13,157,77.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. A human poison by ingestion. An experimental poison by ingestion, intraperitoneal, subcutaneous, intravenous, and rectal routes. Human systemic effects by ingestion: somnolence, motor activity

changes, pulmonary changes, allergic dermatitis, and fever. Human reproductive effects by ingestion: drug dependence and other postnatal measures or effects. Human teratogenic effects include developmental abnormalities of the central nervous system, body wall, musculoskeletal, respiratory, gastrointestinal, and urogenital systems. Experimental reproductive effects. Human mutation data reported. Used as a drug in the treatment of epilepsy, and as a hypnotic and sedative. When heated to decomposition it emits toxic fumes of NO_x. See also BARBITURATES.

EOK500 CAS: 21224-57-7 HR: 3 S-2-((4-(p-ETHYLPHENYL)BUTYL)AMINO)-ETHYL THIOSULFATE

mf: C₁₄H₂₃NO₃S₂ mw: 317.50

TOXICITY DATA with REFERENCE:

orl-mus LD50:1000 mg/kg JMCMA 11,1190,68
 ipr-mus LD50:15 mg/kg JMCMA 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.

EOK550 CAS: 13037-20-2 HR: 3 ETHYL PHENYLDITHIOCARBAMATE

mf: C₉H₁₁NS₂ mw: 197.33

PROP: Plates from EtOH. Mp: 60–61°. Very sol in EtOH; insol in H₂O.

SYNS: S-AETHYL-N-PHENYL-DITHIOCARBAMAT □ CARBAMODITHIOIC ACID, PHENYL-, ETHYL ESTER □ CARBANILIC ACID, DITHIO-, ETHYL ESTER □ DITHIOCARBANILIC ACID ETHYL ESTER □ ETHYL N-PHENYLDITHIOCARBAMATE □ ZEPIC

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:300 mg/kg ARZNAD 16,1092,66

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

EOK600 CAS: 121-39-1 HR: 2 ETHYL PHENYLGLYCIDATE

mf: C₁₁H₁₂O₃ mw: 192.23

PROP: Colorless liquid; strong strawberry odor. D: 1.120, refr index: 1.516–1.521. Sol in alc, chloroform, ether; insol in water.

SYNS: ETHYL-α,β-EPOXYHYDROCINNAMATE □ ETHYL-α,β-EPOXY-α-PHENYLPROPIONATE □ ETHYL-3-PHENYLGLYCIDATE □ FEMA No. 2454

TOXICITY DATA with REFERENCE:

otr-mus:fbr 103 mg/L MUREAV 138,1,84
 msc-ham:ovr 103 mg/L MUREAV 138,1,84
 orl-rat LD50:2300 mg/kg FCTXAV 13,101,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

EOL000 CAS: 631-07-2 HR: 3 ETHYLPHENYLHYDANTOIN

mf: C₁₁H₁₂N₂O₂ mw: 204.25**PROP:** Colorless, odorless, crystalline powder. Mp: 199–200°.**SYNS:** 5-ETHYL-5-PHENYLHYDANTOIN □ 5-ETHYL-5-PHENYL-2,4-IMIDAZOLIDINEDIONE □ NIRVANOL**TOXICITY DATA with REFERENCE:**

orl-mus LDLo:500 mg/kg LDTU** -,31

scu-mus LDLo:500 mg/kg HDTU** -,33

scu-dog LDLo:200 mg/kg HBAMAK 4,1289,35

scu-frg LDLo:100 mg/kg HBAMAK 4,1289,35

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by ingestion. A skin, eye, and mucous membrane irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. When heated to decomposition it emits toxic fumes such as NO_x.**EOL050 CAS: 65567-32-0 HR: 3
I-5-ETHYL-5-PHENYLHYDANTOIN**mf: C₁₁H₁₂N₂O₂ mw: 204.25**PROP:** Crystals from EtOH (aq). Mp: 235–237°.**SYNS:** (-)-5-ETHYL-5-PHENYLHYDANTOIN □ HYDANTOIN, 5-ETHYL-5-PHENYL-, (-) □ 2,4-IMIDAZOLIDINEDIONE, 5-ETHYL-5-PHENYL-, (R)- (9CI) □ (-)-NIRVANOL □ I-NIRVANOL □ (R)-NIRVANOL**TOXICITY DATA with REFERENCE:**

orl-cld TDLo:105 mg/kg;SKN,SYN JPETAB 47,209,33

ipr-mus LD50:500 mg/kg BBIADT 46,623,87

scu-rbt LDLo:125 mg/kg JPETAB 47,209,33

scu-gpg LDLo:400 mg/kg JPETAB 47,209,33

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by intraperitoneal route. Human systemic effects by ingestion: allergic dermatitis, increased body temperature. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**EOL100 CAS: 86-35-1 HR: 2
3-ETHYL-5-PHENYLHYDANTOIN**mf: C₁₁H₁₂N₂O₂ mw: 204.25**PROP:** Stout prisms from water. Mp: 94°. Sparingly sol in cold water, more sol in hot water. Freely sol in alc, ether, benzene, dil aq solns of alkali hydroxides.**SYNS:** ETHOTOIN □ 1-ETHYL-2,5-DIOXO-4-PHENYLIMIDAZOLIDINE □ 3-ETHYL-5-PHENYLIMIDAZOLIDIN-2,4-DIONE □ PEGANONE □ PEGOANONE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1500 mg/kg NIIRDN 6,117,82

ipr-rat LD50:625 mg/kg NIIRDN 6,117,82

scu-rat LD50:1 g/kg NIIRDN 6,117,82

orl-mus LD50:1750 mg/kg NIIRDN 6,117,82

ipr-mus LD50:923 mg/kg NIIRDN 6,117,82

scu-mus LD50:1060 mg/kg NIIRDN 6,117,82

SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. Experimental teratogenic effects. When heated to decomposition it emits toxic fumes of NO_x.**EOL100 CAS: 14546-38-4 HR: D
4-ETHYLPHENYLHYDROXYLAMINE**mf: C₈H₁₁NO mw: 137.20**SYNS:** BENZENAMINE, 4-ETHYL-N-HYDROXY- □ N-(p-ETHYLPHENYL)HYDROXYLAMINE □ N-(4-ETHYLPHENYL)-HYDROXYLAMINE □ HYDROXYLAMINE, N-(p-ETHYL-PHENYL)-**TOXICITY DATA with REFERENCE:**

mic-esc 10 μmol/L MUREAV 151,201,1985

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**EOL500 CAS: 93-55-0 HR: 3
ETHYL PHENYL KETONE**mf: C₉H₁₀O mw: 134.19**PROP:** Water-white to light amber liquid or crystals. Mp: 19–20°, bp: 218.0°, d: 1.009 @ 25°/25°, vap press: 1 mm @ 50.0°. Insol in water; misc in alc, ether.**SYNS:** PHENYL ETHYL KETONE □ 1-PHENYL-1-PROPANONE □ PROPIONYLBENZENE □ PROPIOPHENONE □ USAF EK-1235**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD 85JCAE -,291,86

eye-rbt 500 mg/24H MLD 85JCAE -,291,86

orl-rat LD50:4490 mg/kg TXAPA9 28,313,74

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

scu-mus LD50:2250 mg/kg ARZNAD 5,559,55

skn-rbt LD50:4490 mg/kg TXAPA9 28,313,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Poison by intraperitoneal route. Moderately toxic by subcutaneous route. Mildly toxic by ingestion and skin contact. A skin and eye 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 irritating fumes. See also KETONES.**EOL600 CAS: 69095-83-6 HR: 2
5-(2-ETHYLPHENYL)-3-(3-METHOXYPHENYL)-s-TRIAZOLE**mf: C₁₇H₁₇N₃O mw: 279.37**SYNS:** DL 111 □ DL-111-IT □ (3-ETHYLPHENYL)-5-(3-METHOXYPHENYL)-1,2,4-TRIAZOLE □ 3-(o-ETHYLPHENYL)-5-(m-METHOXYPHENYL)-s-TRIAZOLE □ 3-(2-ETHYLPHENYL)-5-(3-METHOXYPHENYL)-1H-1,2,4-TRIAZOLE □ 5-(2-ETHYLPHENYL)-3-(3-METHOXYPHENYL)-1H-1,2,4-TRIAZOLE**TOXICITY DATA with REFERENCE:**

scu-ham TDLo:1500 μg/kg (female 5D post):TER CCPTAY 33,263,86

ims-mky TDLo:10 mg/kg (female 53-56D post):REP 45JVAR -,344,80

ipr-rat LD50:1180 mg/kg 45JVAR -,344,80

scu-rat LD50:3190 mg/kg DRFUD4 7,875,82

ims-rat LD50:2000 mg/kg DRFUD4 7,875,82

ipr-mus LD50:650 mg/kg 45JVAR -,344,80

scu-mus LD50:3910 mg/kg DRFUD4 7,875,82

scu-ham LD50:2000 mg/kg DRFUD4 7,875,82

SAFETY PROFILE: Moderately toxic by intraperitoneal, subcutaneous and intramuscular routes. An experimental teratogen. Experimental reproductive effects. Used as a non-hormonal post implantation antifertility agent. When heated to decomposition it emits toxic fumes of NO_x.

EOL700 CAS: 42790-35-2 HR: 2
4-ETHYL-N-(PHENYLMETHYLENE)BENZEN-AMINE N-OXIDEmf: C₁₅H₁₅NO mw: 225.31**SYNS:** BENZYLIDENE-4-ETHYLBENZENEAMINE N-OXIDE

□ BENZENAMINE, 4-ETHYL-N-(PHENYLMETHYLENE)-, N-OXIDE

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL MLD NTIS** OTS0546390

orl-rat LD50:1345 mg/kg NTIS** OTS0546390

skn-gpg LD50:>1 g/kg NTIS** OTS0546390

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A mild eye irritant. When heated to decomposition it emits toxic vapors of NO_x.**EOM000 CAS: 2240-14-4 HR: 3**
N-ETHYL-3-PHENYL-2-NORBORNANAMINE HYDROCHLORIDEmf: C₁₅H₂₁N•ClH mw: 251.83**PROP:** Crystals from Me₂CO. Mp: 192°.**SYNS:** 2-AETHYLAMINO-3-PHENYL-NOR-CAMPHAN

(GERMAN) □ 2-ETHYLAMINO-3-PHENYL-NORCAMPHANE

HYDROCHLORIDE □ FENCAMFAMINE HYDROCHLORIDE □

H 610 □ NORCAMPHANE

TOXICITY DATA with REFERENCE:

orl-rat LD50:83 mg/kg JOPDAB 69,663,66

scu-rat LD50:69 mg/kg ARZNAD 11,20,61

ivn-rat LD50:24 mg/kg ARZNAD 11,20,61

orl-mus LD50:135 mg/kg ARZNAD 11,20,61

scu-mus LD50:86 mg/kg ARZNAD 11,20,61

ivn-mus LD50:16 mg/kg ARZNAD 11,20,61

orl-dog LD50:30 mg/kg ARZNAD 11,20,61

ivn-dog LD50:15 mg/kg ARZNAD 11,20,61

orl-cat LD50:34 mg/kg ARZNAD 11,20,61

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. A central nervous system stimulant. When heated to decomposition it emits very toxic fumes of HCl and NO_x.**EOM100 CAS: 5075-13-8 HR: 3**
ETHYL P-PHENYLPHOSPHONCHLORIDOTHIOATEmf: C₈H₁₀ClOPS mw: 220.66**SYNS:** PHENYLPHOSPHONCHLORIDOTHIOIC ACID O-ETHYL ESTER □ PHOSPHONCHLORIDOTHIOIC ACID, PHENYL-, O-ETHYL ESTER**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#06040

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, SO_x, PO_x, and Cl⁻.**EOM600 CAS: 85303-87-3 HR: D**
3-(o-ETHYLPHENYL)-5-PIPERONYL-s-TRI-AZOLEmf: C₁₇H₁₅N₃O₂ mw: 293.35**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**EOM650 CAS: 296269-54-0 HR: 3**
α-(5-ETHYL-1-PHENYL-1H-PYRAZOL-4-YL)-1-PIPERIDINEBUTANOLmf: C₂₀H₂₉N₃O mw: 327.47**TOXICITY DATA with REFERENCE:**

orl-mus TDLo:200 mg/kg FRMCE8 55,219,2000

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**EOM700 CAS: 5556-57-0 HR: 2**
(±)-5-ETHYL-5-PHENYLPYRROLID-2-ONEmf: C₁₂H₁₅NO mw: 189.28**SYN:** (±)-5-ETHYL-5-PHENYL-2-PYRROLIDINONE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:600 mg/kg BJPCAL 25,790,65

orl-mus LD50:812 mg/kg JMCMA9 9,52,66

ipr-mus LD50:750 mg/kg BJPCAL 25,790,65

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.**EON000 CAS: 593-68-0 HR: 3**
ETHYL PHOSPHINEmf: C₂H₇P mw: 62.05CH₃CH₂PH₂**PROP:** Colorless volatile liquid with unpleasant odor. Bp: 25°, d: 1, vap d: 2.14.**SYN:** PHOSPHINOETHANE**SAFETY PROFILE:** Probably a poison. A very dangerous fire hazard when exposed to heat or flame; ignites spontaneously in air. Ignites on contact with concentrated acids. To fight fire, use foam, CO₂, dry chemical. Explodes on contact with chlorine; bromine; or fuming nitric acid. Can react vigorously with oxidizing materials. When heated to decomposition it emits highly toxic fumes of PO_x and phosphine. See also PHOSPHINE.**EON500 CAS: 35335-60-5 HR: 3**
ETHYL PHOSPHONAMIDOTHIONIC ACID-4-(METHYLTHIO)-m-TOLYL ESTER**SYN:** BAY HOL 0574**TOXICITY DATA with REFERENCE:**

orl-bwd LD50:13,300 µg/kg AEECTCV 12,355,83

orl-bwd LD50:3200 µg/kg TXAPA9 26,154,73

skn-bwd LD50:75 mg/kg TXAPA9 26,154,73

SAFETY PROFILE: Poison by ingestion and skin contact. When heated to decomposition it emits very toxic fumes of PO_x, SO_x, and NO_x. See also ESTERS.**EON600 CAS: 15536-01-3 HR: 3**
ETHYL PHOSPHONIC ACID, METHYL *p*-NITROPHENYL ESTERmf: C₉H₁₂NO₅P mw: 245.19**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1500 µg/kg TXAPA9 18,542,71

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and PO_x.**EOO000 CAS: 2984-65-8 HR: 3**

ETHYL PHOSPHONODITHIOIC ACID-O-METHYL-S-(p-TOLYL) ESTERmf: C₁₀H₁₅OPS₂ mw: 246.34**SYNS:** BAY 42903 □ BAYER 42903 □ ENT 27,250 □ O-METHYL-S-(4-METHYLPHENYL) ETHYLPHOSPHONODITHIOATE □ N 4328 □ STAUFFER N-4328**TOXICITY DATA with REFERENCE:**

orl-rat LD50:93 mg/kg ARSIM* 20,22,66
 orl-mus LDLo:710 mg/kg AECTCV 14,111,85
 orl-gpg LDLo:25 mg/kg JEENAI 61,1261,68
 scu-gpg LDLo:25 mg/kg JEENAI 61,1261,68
 orl-bwd LD50:5600 µg/kg TXAPA9 21,315,72

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also ESTERS.**EOP500 CAS: 50335-09-6 HR: 3
ETHYL PHOSPHONOTHIOIC ACID-(2-DIETHYL-AMINOMETHYL)-4,6-DICHLOROPHENYL ESTER****SYN:** BAY 50519**TOXICITY DATA with REFERENCE:**

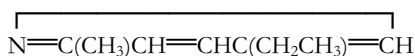
orl-bwd LD50:4200 µg/kg TXAPA9 26,154,73
 skn-bwd LD50:5600 µg/kg TXAPA9 26,154,73

SAFETY PROFILE: Poison by ingestion and skin contact. When heated to decomposition it emits very toxic fumes of PO_x, SO_x, and Cl⁻. See also ESTERS.**EOP600 CAS: 993-43-1 HR: 2
ETHYL PHOSPHONOTHIOIC DICHLORIDE
DOT: NA 2927**mf: C₂H₅Cl₂PS mw: 163.00**SYNS:** DICHLOROETHYLPHOSPHINE SULFIDE □ ETHYL PHOSPHONOTHIOIC DICHLORIDE, anhydrous (DOT) □ ETHYLPHOSPHONOTHIONIC DICHLORIDE □ ETHYLPHOSPHONOTHIOYL DICHLORIDE □ ETHYLTHIONOPHOSPHONYL DICHLORIDE □ ETHYLTHIOPHOSPHONIC DICHLORIDE □ PHOSPHONOTHIOIC DICHLORIDE, ETHYL-**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 6.1; Label: Poison, Corrosive**SAFETY PROFILE:** A corrosive. When heated to decomposition it emits toxic vapors of SO_x, PO_x, and Cl⁻.**EOQ000 CAS: 1498-40-4 HR: 2
ETHYL PHOSPHONOUS DICHLORIDE
DOT: UN 2845**mf: C₂H₅Cl₂P mw: 130.94**PROP:** A liquid with pungent, foul odor. D: 1.26 @ 20°/4°, bp: 111–112° @ 722 mm.**SYNS:** DICHLOROETHYLPHOSPHINE □ DICHLOROMETHYLPHOSPHINE □ ETHYL PHOSPHONOUS DICHLORIDE, anhydrous (DOT) □ TL 373**TOXICITY DATA with REFERENCE:**ihl-mus LCLo:1990 mg/m³/10M NDRC** NDCrc-132,Sept,42**DOT CLASSIFICATION:** 6.1; Label: Poison, Spontaneously Combustible**SAFETY PROFILE:** Moderately toxic by inhalation. Corrosive. A severe irritant to skin, eyes, and mucousmembranes. When heated to decomposition it emits very toxic fumes of PO_x, Cl⁻, and phosphine. See also PHOSPHINE.**EOQ500 CAS: 36031-66-0 HR: 3
ETHYL PHOSPHORAMIDIC ACID-2,4-DICHLOROPHENYL ESTER**mf: C₈H₁₀Cl₂NO₃ mw: 239.09**SYN:** DOWCO 161**TOXICITY DATA with REFERENCE:**

orl-pgn LD50:75 mg/kg TXAPA9 21,315,72
 orl-dck LD50:13 mg/kg TXAPA9 21,315,72
 orl-bwd LD50:7500 µg/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 ESTERS.**EOR000 CAS: 1498-51-7 HR: 2
ETHYL PHOSPHORODICHLORIDATE
DOT: NA 2927**mf: C₂H₅Cl₂O₂P mw: 162.94**PROP:** Colorless pungent liquid. D: 1.38, bp: 167°.**SYNS:** DICHLOROPHOSPHORIC ACID, ETHYL ESTER □ PHOSPHORODICHLORIDIC ACID, ETHYL ESTER**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 6.1; Label: Poison, Corrosive**SAFETY PROFILE:** A corrosive material that is very toxic to tissue. A severe eye, skin, and mucous membrane irritant. When heated to decomposition it emits very toxic fumes of Cl⁻ and PO_x.**EOQ500 CAS: 5022-29-7 HR: 3
N-ETHYLPHTHALIMIDE**mf: C₁₀H₉NO₂ mw: 175.20**PROP:** Needles from EtOH. Mp: 78–79°, bp: 285° @ 758 mm.**TOXICITY DATA with REFERENCE:**

orl-rat LD:>500 mg/kg NCNSA6 5,23,53
 ivn-mus LD50:320 mg/kg CSLNX* NX#04571

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.**EOR525 HR: D
ETHYLPHTHALYL ETHYL GLYCOLATE****SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**EOS000 CAS: 104-90-5 HR: 3
5-ETHYL-α-PICOLINE****DOT:** UN 2300mf: C₈H₁₁N mw: 121.20**PROP:** Liquid. Bp: 174°, d: 0.9184 @ 23°/4°, flash p: 165° (OC).

SYNS: ALDEHYDECOLLIDINE □ ALDEHYDINE □ COLLIDINE, ALDEHYDECOLLIDINE □ 3-ETHYL-6-METHYLPYRIDINE □ 5-ETHYL-2-METHYLPYRIDINE □ 5-ETHYL-2-PICOLINE □ MEP □ 2-METHYL-5-ETHYLPYRIDINE □ 6-METHYL-3-ETHYLPYRIDINE □ METHYL ETHYL PYRIDINE (DOT) □ 2-METHYL-5-ETHYLPYRIDINE (DOT)

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open SEV AMIHBC 4,119,51
skn-rbt 500 mg open SEV UCDS** 6/29/66
eye-rbt 250 µg open SEV AMIHBC 4,119,51
orl-rat LD50:368 mg/kg 85GMAT -,83,82
ihl-rat LCLo:1000 ppm/4H AMIHBC 4,119,51
scu-rat LD50:826 mg/kg 85GMAT -,83,82
orl-mus LD50:282 mg/kg 85GMAT -,83,82
scu-mus LD50:294 mg/kg 85GMAT -,83,82
skn-rbt LD50:1000 mg/kg UCDS** 6/29/66
skn-gpg LD50:2500 mg/kg 85JCAE -,846,86

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

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. Moderately toxic by skin contact. Mildly toxic by inhalation. Corrosive. A severe skin and eye irritant. Flammable when exposed to heat or flame; can react vigorously with oxidizers. Potentially explosive reaction with nitric acid at 145°C/14.5 bar. To fight fire, use alcohol foam. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

EOS100 CAS: 72320-60-6 HR: 3
2-(4-ETHYL-1-PIPERAZINYL)-4-PHENYL-QUINOLINE DIHYDROCHLORIDE

mf: C₂₁H₂₃N₃•2ClH mw: 390.39
SYN: D 1308

TOXICITY DATA with REFERENCE:

orl-mus LD50:568 mg/kg AIPAK 245,283,80
ipr-mus LD50:119 mg/kg AIPAK 245,283,80
ivn-mus LD50:38 mg/kg AIPAK 245,283,80

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

EOS500 CAS: 766-09-6 HR: 3
1-ETHYLPYPERIDINE

DOT: UN 2386

mf: C₇H₁₅N mw: 113.23

PROP: A liquid. D: 0.824 @ 20°/4°, bp: 128°, flash p: 66.2°F.

SYN: N-AETHYLPYPERIDIN (GERMAN)

TOXICITY DATA with REFERENCE:

eye-rbt 50 mg/5M BJMAG 23,153,66
ivn-mus LD50:56 mg/kg CSLNX* NX#00374
scu-rbt LDLo:100 mg/kg BDCGAS 34,2408,01

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intravenous and subcutaneous routes. An eye irritant. A very dangerous fire hazard when exposed to heat or flame; can react

vigorously with oxidizing materials. When heated to decomposition it emits toxic fumes of NO_x.

EOU500 CAS: 77791-38-9 HR: 3
N-ETHYL-2-(PIPERIDINO)-N-(1-(2,4-XYLYLOXY)-2-PROPYL)ACETAMIDE HYDROCHLORIDE

mf: C₂₀H₃₂N₂O₂•ClH mw: 369.00

SYN: C 2102

TOXICITY DATA with REFERENCE:

eye-rbt 2% MLD ARZNAD 9,70,59
scu-mus LD50:157 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 NO_x and HCl.

EOV000 CAS: 78219-57-5 HR: 3
1-ETHYL-4-PIPERIDYL-p-AMINO BENZOATE HYDROCHLORIDE

mf: C₁₄H₂₀N₂O•ClH mw: 268.82

SYN: p-AMINO-BENZOIC ACID 1-ETHYL-4-PIPERIDYL ESTER, HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:35 mg/kg JACSAT 51,922,29
scu-mus LDLo:25 mg/kg JACSAT 51,922,29

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

EOW000 CAS: 78219-58-6 HR: 3
1-ETHYL-4-PIPERIDYL BENZOATE HYDROCHLORIDE

mf: C₁₄H₁₉NO₂•ClH mw: 269.80

SYN: BENZOIC ACID-1-ETHYL-4-PIPERIDYL ESTER, HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:25 mg/kg JACSAT 51,922,29
scu-mus LDLo:300 mg/kg JACSAT 51,922,29

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

EOY000 CAS: 129-77-1 HR: 3
1-ETHYL-3-PIPERIDYL DIPHENYLACETATE HYDROCHLORIDE

mf: C₂₁H₂₅NO₂•ClH mw: 359.93

PROP: A solid. Mp: 195–196°.

SYNS: AN 1087 □ DACTIL □ DACTIL HYDROCHLORIDE □ DIPHENYLACETIC ACID-1-ETHYL-3-PIPERIDYL ESTER HYDROCHLORIDE □ 1-ETHYL-3-PIPERIDINOL DIPHENYLACETATE HYDROCHLORIDE □ 1-ETHYL-3-PIPERIDINYL ESTER-α-PHENYLBENZENEACETIC ACID HYDROCHLORIDE □ N-ETHYL-3-PIPERIDYL DIPHENYLACETATE HYDROCHLORIDE □ 1-ETHYL-3-PIPERIDYL ESTER-α-PHENYLBENZENEACETIC ACID HYDROCHLORIDE □ J.B. 305 □ PIPERIDILATE HYDROCHLORIDE □ PIPERIDOLATE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ivn-rat LD50:19 mg/kg 29ZVAB -,97,69
orl-mus LD50:1040 mg/kg CLDND* 104,269,52
ivn-dog LD50:35 mg/kg 29ZVAB -,97,69

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

EOY100 CAS: 78219-33-7 HR: 3
 β -2-(N-ETHYLPIPERIDYL)ETHYLBENZOATE
HYDROCHLORIDE

mf: $\text{C}_{16}\text{H}_{23}\text{NO}_2 \cdot \text{ClH}$ mw: 297.86

SYNS: BENZOIC ACID-2-(1-ETHYL-2-PIPERIDYL)ETHYL ESTER HYDROCHLORIDE \square β -(1-ETHYL-2-PIPERIDYL)ETHYLBENZOATE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

scu-mus LDLo:1700 mg/kg ANESAV 1,305,40

ivn-mus LDLo:46 mg/kg JACSAT 61,961,39

ivn-rbt LDLo:20 mg/kg ANESAV 1,305,40

isp-rbt LDLo:29,980 $\mu\text{g/kg}$ ANESAV 1,305,40

scu-gpg LDLo:439 mg/kg ANESAV 1,305,40

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

EOY500 CAS: 928-55-2 HR: 3
ETHYL-1-PROPENYL ETHER

mf: $\text{C}_5\text{H}_{10}\text{O}$ mw: 86.15

PROP: Flash p: $>19^\circ\text{F}$ (OC), d: 0.8, bp: 158°F .

SYN: ETHYL PROPENYL ETHER

TOXICITY DATA with REFERENCE:

skn-rbt 8276 $\mu\text{g/24H}$ open MLD AIHAAP 23,95,62

eye-rbt 500 mg/24H MLD 85JCAE -,248,86

orl-rat LD50:4660 mg/kg TXAPA9 28,313,74

ihl-rat LCLo:8000 ppm/4H TXAPA9 28,313,74

skn-rbt LD50:3970 mg/kg TXAPA9 28,313,74

SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion and inhalation. A skin and eye irritant. A very dangerous fire hazard when exposed to heat, flame, or oxidizers. To fight fire, use water spray or mist, dry chemical, foam, CO_2 . When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

EPB500 CAS: 105-37-3 HR: 3
ETHYL PROPIONATE

DOT: UN 1195

mf: $\text{C}_5\text{H}_{10}\text{O}_2$ mw: 102.15

PROP: Colorless liquid; fruity, rum odor. Mp: -72.6° , bp: 99° , flash p: 54°F (CC), d: 0.891 @ $20^\circ/4^\circ$, fp: -73° , refr index: 1.383, autoign temp: 824°F , vap press: 40 mm @ 27.2° , vap d: 3.52, lel: 1.9%, uel: 11%. Misc with alc, ether, propylene glycol; sol in water and fixed oils.

SYNS: FEMA No. 2456 \square PROPIONATE d'ETHYLE (FRENCH) \square PROPIONIC ACID, ETHYL ESTER \square PROPIONIC ETHER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,749,78

eye-rbt 100 mg MOD JACTDZ 1,161,92

orl-rat LD50:8732 mg/kg JACTDZ 1,174,92

skn-rbt LDLo:14,256 mg/kg JACTDZ 1,174,92

ipr-rat LD50:1200 mg/kg FCTXAV 16,749,78

ipr-mus LD50:1300 mg/kg 14CYAT 2,1879,63

orl-rbt LD50:3500 mg/kg 14CYAT 2,1879,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A skin and eye irritant. A flammable liquid. A very dangerous fire and explosion hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use foam, CO_2 , dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

EPC000 CAS: 67050-97-9 HR: 3
5-ETHYL-5-(1-PROPYL-1-BUTENYL)-
BARBITURIC ACID

mf: $\text{C}_{13}\text{H}_{20}\text{N}_2\text{O}_3$ mw: 252.35

TOXICITY DATA with REFERENCE:

orl-mus LD50:220 mg/kg JACSAT 61,776,39

ipr-mus LD50:130 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.

EPC050 CAS: 623-85-8 HR: 2
ETHYL-N,N-PROPYLCARBAMATE

mf: $\text{C}_6\text{H}_{13}\text{NO}_2$ mw: 131.20

PROP: Bp: $191.5\text{--}192.5^\circ$.

SYN: N,N-PROPYL ETHYL CARBAMATE

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:6500 mg/kg/13W-I:ETA JNCIAM 9,35,48

scu-mus LD50:540 mg/kg AJEBAK 45,507,67

SAFETY PROFILE: Moderately toxic by subcutaneous route. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x . See also CARBAMATES.

EPC100 HR: 2
N-ETHYL-N-PROPYLCARBAMOYL CHLORIDE

mf: $\text{C}_6\text{H}_{12}\text{ClNO}$ mw: 293.61

SAFETY PROFILE: Probably an eye, skin, and mucous membrane irritant. Vigorous reaction with water evolves large amounts of gases. Releases HCl in contact with water. When heated to decomposition it emits toxic fumes of Cl^- and NO_x .

EPC115 HR: 3
**ETHYL N-((5R,8S,10R)-6-PROPYL-8-ERGOLIN-
 YL)CARBAMATE**

mf: $\text{C}_{20}\text{H}_{27}\text{N}_3\text{O}_2$ mw: 341.50

SYNS: ERGOLINE-8-CARBAMIC ACID, 6-PROPYL-, ETHYL ESTER, (8S)- \square (8S)-6-PROPYLERGOLINE-8-CARBAMIC ACID ETHYL ESTER

TOXICITY DATA with REFERENCE:

mno-sat 400 $\mu\text{g/L}$ CCCCAK 52,2983,87

ivn-mus LD50:11,400 $\mu\text{g/kg}$ CCCCAK 52,2983,87

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

EPC125 CAS: 628-32-0 HR: 3
ETHYL PROPYL ETHER
DOT: UN 2615

mf: C₅H₁₂O mw: 88.15

PROP: A liquid. D: 0.8, bp: 63.6°, flash p: <-4°F, lel: 1.7%, uel: 9%.

SYNS: 1-ETHOXYPROPANE □ ETHYL n-PROPYL ETHER □ PROPANE, 1-ETHOXY-(9CI) □ PROPYL ETHYL ETHER

TOXICITY DATA with REFERENCE:

ihl-mus LC50:220 g/m³/15M ANESAV 11,455,50

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A slight inhalation hazard. Very dangerous fire and explosion hazard when exposed to heat or open flame. To fight fire, use alcohol foam. When heated to decomposition it emits acrid smoke and fumes. See also ETHERS.

EPC130 CAS: 20195-06-6 HR: 3
ETHYL PROPYL PHOSPHOROTHIOATE

mf: C₇H₁₇O₃PS mw: 212.27

SYNS: DIETHYL S-PROPYL PHOSPHOROTHIOATE □ PHOSPHOROTHIOIC ACID, o,o-DIETHYL S-PROPYL ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LD50:28,100 µg/kg BICAW 7,1555,1968

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

EPC135 CAS: 66859-63-0 HR: 2
2-ETHYL-2-PROPYLTHIOBUTYRAMIDE

mf: C₉H₁₉NOS mw: 189.35

TOXICITY DATA with REFERENCE:

orl-mus LD50:1576 mg/kg JMCAR 6,351,63

ipr-mus LD50:419 mg/kg JMCAR 6,351,63

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

EPC150 CAS: 55365-87-2 HR: 3
O-ETHYL PROPYLTHIOCARBAMATE

mf: C₆H₁₃NOS mw: 147.26

SYN: EPTAM

TOXICITY DATA with REFERENCE:

orl-rat LD50:1660 mg/kg 85GMAT -,68,82

skn-rat LD50:3200 mg/kg 85GMAT -,69,82

orl-mus LD50:750 mg/kg 85GMAT -,68,82

orl-cat LD50:112 mg/kg 85GMAT -,68,82

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also CARBAMATES and ESTERS.

EPC175 CAS: 38524-82-2 HR: 3
O-ETHYL-S-PROPYL-O-(2,4,6-TRICHLORO-PHENYL)PHOSPHOROTHIOATE

mf: C₁₁H₁₄Cl₃O₃PS mw: 363.63

SYNS: ENT 29,118 □ RH-8218 □ ROHM & HAAS RH-218 □ TH-218 □ TRIFENOFOS

TOXICITY DATA with REFERENCE:

orl-rat LD50:200 mg/kg SPEADM 78-1,35,78

skn-rat LD50:250 mg/kg SPEADM 78-1,35,78

orl-mus LD50:200 mg/kg PCBPS 6,85,76

skn-rbt LD50:108 mg/kg SPEADM 78-1,35,78

SAFETY PROFILE: Poison by ingestion and skin contact. When heated to decomposition it emits toxic fumes of PO_x, Cl⁻, and SO_x.

EPC200 CAS: 36950-85-3 HR: D
20-ETHYLPROSTAGLANDIN F2-α

mf: C₂₂H₃₈O₅ mw: 382.60

SYNS: 20-ETHYL-PGF2-α □ ICI 74205 □ racemic-ICI 74205

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

EPC500 CAS: 297-97-2 HR: 3
ETHYL PYRAZINYL PHOSPHOROTHIOATE

mf: C₈H₁₃N₂O₃PS mw: 248.26

PROP: Amber liquid or oil. Mp: -1.7°, bp: 80°, n: (25/D) 1.5131, vap press @ 30°: 0.003 mm Hg. Sltly sol in water; misc with most org solvs.

SYNS: AC 18133 □ AMERICAN CYANAMID 18133 □ CL 18133 □ CYNEM □ O,O-DIAETHYL-O-(PYRAZIN-2YL)-MONOTHIO-PHOSPHAT (GERMAN) □ O,O-DIAETHYL-O-(2-PYRAZINYL)-THIONOPHOSPHAT (GERMAN) □ O,O-DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIOATE □ DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE □ O,O-DIETHYL-O-2-PYRAZINYL PHOSPHOTHIONATE □ O,O-DIETHYL-O-PYRAZINYL THIOPHOSPHATE □ EN 18133 □ ENT 25,580 □ EXPERIMENTAL NEMATOCIDE 18,133 □ NEMAFOS □ NEMAPHOS □ NEMATOCIDE □ PHOSPHOROTHIOIC ACID-O,O-DIETHYL-O-2-PYRAZINYL ESTER □ PYRAZINOL-O-ESTER with O,O-DIETHYL PHOSPHOROTHIOATE □ RCRA WASTE NUMBER P404 □ THIONAZIN □ ZINOPHOS

TOXICITY DATA with REFERENCE:

orl-rat LD50:3500 µg/kg TXAPA9 14,515,69

skn-rat LD50:8 mg/kg SPEADM 78-1,46,78

ocu-rbt LDLo:50 mg/kg 85GYAZ -,36,71

skn-gpg LD50:10 mg/kg GUCHAZ 6,498,73

orl-pgn LD50:2370 µg/kg ASTTA8 (680),157,79

orl-qal LD50:3160 µg/kg ASTTA8 (680),157,79

orl-dck LD50:1680 µg/kg TXAPA9 47,451,79

skn-dck LD50:7 mg/kg TXAPA9 47,451,79

orl-bwd LD50:2420 µg/kg ASTTA8 (680),157,79

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

Community Right-To-Know List.

SAFETY PROFILE: Poison by ingestion, skin contact, and ocular routes. A cholinesterase inhibitor type of insecticide. When heated to decomposition it emits highly toxic fumes of NO_x, PO_x, and SO_x. See also PARATHION.

EPC700 CAS: 2687-91-4 HR: 2
1-ETHYL-2-PYRROLIDINONE

mf: C₆H₁₁NO mw: 113.18

PROP: A liquid. Bp: 97° @ 20 mm, d: 0.992, flash p: 169°F.

SYNS: N-ETHYLPYRROLIDINONE □ N-ETHYL-PYRROLIDONE □ 2-PYRROLIDINONE, 1-ETHYL-

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MOD FCTOD7 26,475,88

orl-rat LD50:1350 mg/kg FCTOD7 26,475,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EPC875 HR: 3
N-ETHYL-2-(PYRROLIDINYL)-o-ACETO-TOLUIDIDE HYDROCHLORIDE

mf: C₁₅H₂₂N₂O•ClH mw: 282.85

SYN: C 5124

TOXICITY DATA with REFERENCE:

eye-rbt 2% MLD ARZNAD 8,609,58
 ipr-rat LD50:63 mg/kg ARZNAD 8,609,58
 scu-mus LD50:87 mg/kg ARZNAD 8,609,58

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

EPC950 CAS: 75236-19-0 HR: 2
4'-ETHYL-4-N-PYRROLIDINYL AZOBENZENE

mf: C₁₈H₂₁N₃ mw: 279.42

SYN: PYRROLIDINE, 1-(p-((p-ETHYLPHENYL)AZO)PHENYL)-

TOXICITY DATA with REFERENCE:

mma-sat 10 µg/plate CRNGDP 3,559,82
 orl-rat TDLo:11 g/kg/34W C:CAR CRNGDP 1,419,80

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

EPC999 CAS: 19137-90-7 HR: 3
3(1-ETHYL-2-PYRROLIDINYL)INDOLE HYDROCHLORIDE

mf: C₁₄H₁₈N₂•ClH mw: 250.80

TOXICITY DATA with REFERENCE:

ipr-rat LD50:71 mg/kg JMCAR 7,415,64
 ipr-mus LD50:56 mg/kg JMCAR 7,415,64

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

EPD100 CAS: 53583-79-2 HR: 3
N-((1-ETHYL-2-PYRROLIDINYL)METHYL)-5-(ETHYLSULFONYL)-o-ANISAMIDE

mf: C₁₇H₂₆N₂O₄S mw: 354.51

SYNS: o-ANISAMIDE, N-((1-ETHYL-2-PYRROLIDINYL)-METHYL)-5-(ETHYLSULFONYL)- □ BARNETIL □ BENZAMIDE, N-((1-ETHYL-2-PYRROLIDINYL)METHYL)-5-(ETHYLSULFONYL)-2-METHOXY- □ LIN 1418 □ SULTOPRIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:665 mg/kg DRFUD4 10,758,85
 ipr-mus LD50:300 mg/kg EJMCA5 17,437,82

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 SO_x.

EPD500 CAS: 15676-16-1 HR: 3
N-((1-ETHYL-2-PYRROLIDINYL)METHYL)-5-SULFAMOYL-o-ANISAMIDE

mf: C₁₅H₂₃N₃O₄S mw: 341.47

PROP: A solid. Mp: 175–182° (decomp). Insol in H₂O, Et₂O, CHCl₃, and C₆H₆.

SYNS: ABILIT □ AIGLONYL □ 5-(AMINOSULFONYL)-N-((1-ETHYL-2-PYRROLIDINYL)METHYL)-2-METHOXYBENZAMIDE □ COOLSPAN □ DOBREN □ DOGMATIL □ DOGMATYL □ EGLONYL □ N-((1-ETHYL-2-PYRROLIDINYL)METHYL)-2-METHOXY-5-SULFAMOYLBENZAMIDE □ GUASTIL □ MIRADOL □ MIRBANIL □ MISULVAN □ OMPERAN □ PYRKAPPL □ R.D. 1403 □ SERNEVIN □ SPLOTIN □ SULPIRID □ SULPİRIDE □ SULPYRID □ SURSUMID □ TRILAN

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:2143 µg/kg/D:CNS,GIT,MET JMGZAI 10(7),11,73

ims-hmn TDLo:1429 µg/kg/D:CNS,GIT,MET JMGZAI 10(7),11,73

orl-rat LD50:9800 mg/kg JMGZAI 10(7),11,73

ipr-rat LD50:210 mg/kg NIIRDN 6,384,82

scu-rat LD50:360 mg/kg NIIRDN 6,384,82

ivn-rat LD50:40 mg/kg IYKEDH 4,193,73

orl-mus LD50:1700 mg/kg NIIRDN 6,384,82

ipr-mus LD50:231 mg/kg ARZNAD 27,404,77

scu-mus LD50:290 mg/kg NIIRDN 6,384,82

ivn-mus LD50:48 mg/kg IYKEDH 4,193,73

orl-dog LD50:2 g/kg JMGZAI 10(7),11,73

scu-dog LD50:350 mg/kg JMGZAI 10(7),11,73

ivn-dog LD50:137 mg/kg JMGZAI 10(7),11,73

orl-rbt LD50:4 g/kg JMGZAI 10(7),11,73

scu-rbt LD50:2 g/kg JMGZAI 10(7),11,73

ivn-rbt LD50:63 mg/kg JMGZAI 10(7),11,73

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous and intravenous routes. Moderately toxic by ingestion. Human systemic effects by ingestion and intramuscular route: tremors, hypermotility, diarrhea and fever. Experimental reproductive effects. Used as a digestive aid and psychotropic drug. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

EPD600 CAS: 606-55-3 HR: 3
1-ETHYLQUINALDINIUM IODIDE

mf: C₁₂H₁₄N•I mw: 299.17

SYN: QUINALDINIUM, 1-ETHYL-, IODIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:18 mg/kg CSLNX* NX#01580

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and I⁻.

EPF500 CAS: 7648-01-3 HR: 3
3-ETHYLRHODANINE

mf: C₅H₇NOS₂ mw: 161.25

PROP: A solid. Mp: 36–36.5°.

SYN: 3-ETHYLRHODANIN

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:150 mg/kg ARZNAD 19,558,69

orl-mus LD50:940 mg/kg FRZKAP 17(1),36,62

ivn-mus LD50:180 mg/kg CSLNX* NX#03762

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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.

EPF550 CAS: 78-10-4 HR: 3
ETHYL SILICATE

DOT: UN 1292

mf: C₈H₂₀O₄Si mw: 208.37

PROP: Colorless liquid. Mp: -77°, bp: 165-166°, flash p: 125°F (52°C), d: 0.933 @ 20°/4°, n: (25/D) 1.3818. Viscosity 0.6 cps. Practically insol in water with slow decomp. Miscible with alc. IDLH 700 ppm.

SYNS: ETHYL ORTHOSILICATE □ ETYLU KRZEMIAN (POLISH) □ EXTREMA □ SILICATE D'ETHYLE (FRENCH) □ SILICIC ACID TETRAETHYL ESTER □ TEOS □ TETRAETHOXYSILOXANE □ TETRAETHYL ORTHOSILICATE □ TETRAETHYL ORTHOSILICATE (DOT) □ TETRAETHYL SILICATE □ TETRAETHYL SILICATE (DOT)

TOXICITY DATA with REFERENCE:

eye-hmn 3000 ppm JIHTAB 22,288,40
 skn-rbt 500 mg/24H MOD UCDS** 7/23/70
 eye-rbt 500 mg/24H MLD 85JCAE -,1231,86
 eye-gpg 2500 ppm/2H SEV JIHTAB 22,288,40
 orl-rat LD50:6270 mg/kg JIHTAB 31,60,49
 ihl-rat LCLo:1000 ppm/4H JIHTAB 31,343,49
 skn-rbt LD50:5878 mg/kg UCDS** 7/23/70
 ivn-rbt LDLo:200 mg/kg INMEAF 6,660,37
 ihl-gpg LCLo:700 ppm/6H JIHTAB 22,288,40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 10 ppm

ACGIH TLV: TWA 10 ppm

DFG MAK: 10 ppm (86 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intravenous route.

Moderately toxic by other routes. A skin, mucous membrane, and severe eye irritant. Narcotic in high concentrations. Flammable liquid when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

EPF600 CAS: 676-54-0 HR: 3
ETHYL SODIUM

mf: C₂H₅Na mw: 52.05

PROP: Colorless crystals. Decomp below mp. Insol.

SAFETY PROFILE: The powder ignites spontaneously in air. When heated to decomposition it emits toxic fumes of Na₂O.

EPF700 CAS: 111-61-5 HR: 1
ETHYL STEARATE

mf: C₂₀H₄₀O₂ mw: 312.60

SYNS: ETHYL OCTADECANOATE □ ETHYL n-OCTADECANOATE □ STEARIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,781,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EPF800 CAS: 3691-71-2 HR: D
α-ETHYL-4,4'-STILBENEDIOL

mf: C₁₆H₁₆O₂ mw: 240.32

SYNS: ETHYLSTILBESTROL □ ETHYLSTILBOESTROL □ 4,4'-STILBENEDIOL, α-ETHYL-

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

EPG000 CAS: 7525-62-4 HR: 3
m-ETHYLSTYRENE

mf: C₁₀H₁₂ mw: 132.22

PROP: Water-white liquid. Bp: 191.5°, fp: -127°, d: 0.8955 @ 20°, vap press: 2.17 mm @ 40°, vap d: 4.56.

SYNS: m-ETHYL VINYL BENZEN (CZECH) □ m-ETHYL VINYL BENZENE

TOXICITY DATA with REFERENCE:

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

SAFETY PROFILE: 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.

EPH000 CAS: 352-93-2 HR: 3
ETHYL SULFIDE

DOT: UN 2375

mf: C₄H₁₀S mw: 90.20

PROP: Liquid; garlic-like odor. Mp: -102°, fp: -102.05°, bp: 92-93°, d: 0.837 @ 20°/4°, vap d: 3.11, flash p: 14°F. Insol in water.

SYNS: DIETHYLSULFID (CZECH) □ DIETHYL SULFIDE (DOT) □ DIETHYLTHIOETHER □ ETHYL MONOSULFIDE □ ETHYLTHIOETHANE □ ETHYL THIOETHER □ SULFODOR (CZECH) □ 3-THIAPENTANE □ 1,1'-THIOBISETHANE □ THIOETHYL ETHER

TOXICITY DATA with REFERENCE:

skn-rbt 20 mg/24H MOD 85JCAE -,991,86
 eye-rbt 500 mg/24H MLD 85JCAE -,991,86
 orl-rat LD50:5930 mg/kg 28ZPAK -,170,72

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 very dangerous fire hazard when exposed to heat, flame, or sparks; can react vigorously with oxidizers. Reacts with water, steam, acids, or acid fumes to produce toxic and flammable vapors. To fight fire, use water spray or mist, dry chemical, CO₂, foam. When heated to decomposition it yields highly toxic fumes of SO_x. See also SULFIDES.

EPH500 CAS: 5827-05-4 HR: 3
S-(ETHYLSULFINYL)METHYL O,O-DIISOPROPYL PHOSPHORODITHIOATE

mf: C₉H₂₁O₃PS₃ mw: 304.45

SYNS: APHIDAN □ O,O-DIISOPROPYL-S-ETHYLSULFINYL-METHYLDITHIOPHOSPHATE □ O,O-DIISOPROPYL-S-

ETHYLSULFINYLMETHYL PHOSPHORODITHIOATE □ S-ETHYLSULFINYLMETHYL-O,O-DIISOPROPYLDITHIOFOSFAT □ IPSP □ METHANETHIOL, (ETHYLSULFINYL)-, S-ESTER WITH O,O-DIISOPROPYLPHOSPHORODITHIOATE □ PHOSPHORODITHIOIC ACID, S-((ETHYLSULFINYL)METHYL) O,O-DIISOPROPYL ESTER □ PSP 204

TOXICITY DATA with REFERENCE:

orl-rat LD50:25 mg/kg PEMNDP 8,361,87
 skn-rat LD50:28 mg/kg PEMNDP 8,361,87
 orl-mus LD50:85 mg/kg 28ZEAL 4,176,69
 skn-mus LD50:1300 mg/kg PEMNDP 8,361,87

SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits toxic vapors of PO_x and SO_x.

EPI000 CAS: 513-12-2 HR: 1
ETHYLSULFONYLETHANOL

mf: C₄H₁₀O₃S mw: 138.20

PROP: Hygroscopic crystals, water-sol. D: 1.24 @ 20°/4°, mp: 43°, bp: 153° @ 2.5 mm, flash p: 371°F.

SYNS: ESE □ 2-(ETHYLSULFONYL)ETHANOL □ ETHYLSULFONYLETHYL ALCOHOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:18 g/kg 34ZIAG -,259,69
 orl-mus LDLo:14 g/kg 34ZIAG -,259,69
 ipr-mus LDLo:10 g/kg 34ZIAG -,259,69

SAFETY PROFILE: Mildly toxic by ingestion and intraperitoneal routes. Combustible when exposed to heat or flame. To fight fire, use water, foam, CO₂, dry chemical. When heated to decomposition it emits highly toxic fumes of SO_x.

EPI300 CAS: 842-00-2 HR: 2
4-(ETHYLSULFONYL)-1-NAPHTHALENE SULFONAMIDE

mf: C₁₂H₁₃NO₄S₂ mw: 299.38

SYNS: ENS □ 4-ETHYLSULPHONYLNAPHTHALENE-1-SULFONAMIDE □ 4-ETHYLSULPHONYLNAPHTHALENE-1-SULPHONAMIDE □ HPA

TOXICITY DATA with REFERENCE:

dns-mus-orl 20 mg/kg BIJOAK 111,12P,69
 oms-mus-orl 20 mg/kg BIJOAK 111,12P,69
 cyt-mus-orl 40 mg/kg CTKIAR 2,249,69
 orl-mus TDLo:4200 mg/kg/50W-C:CAR BJCAAI 23,772,69
 orl-mus TD:440 mg/kg/52W-C:NEO JNCIAM 51,2007,73

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

EPI400 CAS: 67465-28-5 HR: 3
3-(3-ETHYLSULFONYL)PENTYL PIPERIDINO KETONE

mf: C₁₃H₂₅NO₃S mw: 275.45

SYN: KETONE, 3-(3-ETHYLSULFONYL)PENTYL PIPERIDINO

TOXICITY DATA with REFERENCE:

ipr-mus LD50:387 mg/kg JMCMAR 6,351,63

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

EPI500 CAS: 70-29-1 HR: 2
ETHYL SULFOXIDE

mf: C₄H₁₀OS mw: 106.20

PROP: A liquid. Mp: 4–6°, bp: 88–89° @ 15 mm.

SYNS: DESO □ DIETHYL SULPHOXIDE □ ETHANE-1,1'-SULFINYLBIS

TOXICITY DATA with REFERENCE:

orl-rat LD50:5650 mg/kg COREAF 260,327,65
 ipr-rat LD50:4370 mg/kg COREAF 260,327,65
 ivn-rat LD50:4990 mg/kg COREAF 260,327,65
 orl-mus LD50:3610 mg/kg COREAF 260,327,65
 ipr-mus LD50:2500 mg/kg IJRBA3 3,41,61
 ivn-mus LD50:4370 mg/kg COREAF 260,327,65

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

EPJ000 CAS: 20941-65-5 HR: 2
ETHYL TELLURAC

mf: C₂₀H₄₀N₄S₈•Te mw: 720.72

PROP: Orange-yellow powder. D: 1.44, mp: 108–118°.

SYNS: DIETHYLDITHIOCARBAMIC ACID TELLURIUM SALT □ NCI-C02857 □ TELLURIUM DIETHYLDITHIOCARBAMATE □ TETRAKIS(DIETHYLCARBAMODITHIOATO-S,S)TELLURIUM □ TETRAKIS(DIETHYLDITHIOCARBAMATO)TELLURIUM

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 12,115,76. NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-152,79; Results Indefinite: mouse, rat NCITR* NCI-CG-TR-152,79. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 mg(Te)/m³

ACGIH TLV: TWA 0.1 mg(Te)/m³

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and Te. See also TELLURIUM COMPOUNDS and CARBAMATES.

EPJ600 CAS: 56501-31-6 HR: 3
1-ETHYL-1-TETRADECYLPYPERIDINIUM BROMIDE

mf: C₂₁H₄₄N•Br mw: 309.57

TOXICITY DATA with REFERENCE:

orl-mus LD50:140 mg/kg PSDTAP 15,331,74
 ipr-mus LD50:11,984 µg/kg PSDTAP 15,331,74
 ivn-mus LD50:5091 µg/kg PSDTAP 15,331,74

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

EPK000 CAS: 15547-17-8 HR: 3
2-ETHYL-5,6,7,8-TETRAHYDROANTHRA-QUINONE

mf: C₁₆H₁₆O₂ mw: 240.32

SYNS: 6-ETHYL-1,2,3,4-TETRAHYDRO-9,10-ANTHRACENEDIONE □ USAF SO-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. When heated to decomposition it emits acrid smoke and irritating fumes.

EPL000 CAS: 101651-73-4 HR: 3
1-ETHYL-2,2,6,6-TETRAMETHYL-4-(N-ACETYL-N-PHENYL)PIPERIDINE

mf: C₁₉H₃₀N₂O mw: 302.51

SYNS: 4-(N-ACETYL)PHENYLAMINO-1-ETHYL-2,2,6,6-TETRAMETHYLPIPERIDINE □ N-(1-ETHYL-2,2,6,6-TETRAMETHYLPIPERIDIN-4-YL)ACETANILIDE

TOXICITY DATA with REFERENCE:

scu-mus LD50:590 mg/kg PCJOAU 8,82,74

ivn-mus LD50:86 mg/kg PCJOAU 8,82,74

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

EPL600 HR: 3
1-ETHYL-2,2,6,6-TETRAMETHYLPIPERIDINE HYDROCHLORIDE

mf: C₁₁H₂₃N•ClH mw: 205.81

SYN: COMPOUND 26539 HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:180 mg/kg BJPCAL 13,501,58

ipr-mus LD50:58 mg/kg BJPCAL 13,501,58

ivn-mus LD50:52 mg/kg BJPCAL 13,501,58

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

EPL700 HR: 3
1-ETHYL-2,2,6,6-TETRAMETHYLPIPERIDINE HYDROGEN TARTRATE

mf: C₁₁H₂₃N•C₄H₆O₄ mw: 287.45

SYN: 1-ETHYL-2,2,6,6-TETRAMETHYL-PIPERIDINE TARTRATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:236 mg/kg BJPCAL 13,501,58

ipr-mus LD50:73 mg/kg BJPCAL 13,501,58

ivn-mus LD50:63 mg/kg BJPCAL 13,501,58

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

EPM000 CAS: 52098-56-3 HR: 3
1-ETHYL-2,2,6,6-TETRAMETHYL-4-(N-PROPIONYL-N-BENZYLAMINO)PIPERIDINE

mf: C₂₁H₃₄N₂O mw: 330.57

SYN: 4-(N-PROPIONYL)BENZYLIMINO-1-ETHYL-2,2,6,6-TETRAMETHYLPIPERIDINE

TOXICITY DATA with REFERENCE:

scu-mus LD50:520 mg/kg PCJOAU 8,82,74

ivn-mus LD50:100 mg/kg PCJOAU 8,82,74

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

EPM550 HR: 3
1-ETHYL-1,1,3,3-TETRAMETHYLTETRAZENIUM

mf: C₆H₁₇BF₄N₄ mw: 232.03



SAFETY PROFILE: An explosive salt. When heated to decomposition it emits toxic fumes of F⁻ and NO_x. See also BORON COMPOUNDS.

EPM590 HR: 3
2-ETHYLTETRAZOLE

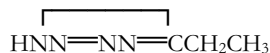
mf: C₃H₆N₄ mw: 98.11



SAFETY PROFILE: Explodes on contact with aluminum hydride. When heated to decomposition it emits toxic fumes of NO_x.

EPM600 CAS: 50764-78-8 HR: 3
5-ETHYLTETRAZOLE

mf: C₃H₆N₄ mw: 98.11



SAFETY PROFILE: Explodes on contact with aluminum hydride. When heated to decomposition it emits toxic fumes of NO_x.

EPN500 CAS: 4147-51-7 HR: 1
2-ETHYLTHIO-4,6-BIS(ISOPROPYLAMINO)-s-TRIAZINE

mf: C₁₁H₂₁N₅S mw: 255.43

PROP: A solid. Mp: 104–106°.

SYNS: 2,4-BIS(ISOPROPYLAMINO)-6-ETHYLTHIO-s-TRIAZINE

□ COTOFOR □ DIPROPETRYN □ DIPROPETRYNE □ 6-(ETHYLTHIO)N,N'-BIS(1-METHYLETHYL)-1,3,5-TRIAZINE-2,4-DIAMINE □ GS-16068 □ SANCAP

TOXICITY DATA with REFERENCE:

orl-rat LD50:7144 mg/kg FMCHA2 -,C210,83

skn-rbt LD50:10 g/kg CIGET* -,77

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

EPN600 CAS: 27205-24-9 HR: 2
3-(ETHYLTHIO)BUTYRALDEHYDE

mf: C₆H₁₂OS mw: 132.24

SYNS: BUTYRALDEHYDE, 3-(ETHYLTHIO)- □ BUTANAL, 3-(ETHYLTHIO)- □ 3-(ETHYLTHIO)BUTANAL □ β-(ETHYLTHIO)BUTYRALDEHYDE

TOXICITY DATA with REFERENCE:

eye-rbt 100 μL/24H NTIS** OTS0555120

orl-rat LD50:2997 mg/kg NTIS** OTS0555159

ihl-rat LC :>5510 mg/m³/4H NTIS** OTS0555160

skn-rat LD :>2 g/kg NTIS** OTS0555155

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Low toxicity by inhalation. An eye irritant. When heated to decomposition it emits toxic vapors of SO_x.

EPP000 CAS: 542-90-5 HR: 3
ETHYL THIOCYANATE

mf: C₃H₅NS mw: 87.15

PROP: A liquid. D: 1.020 @ 16°, mp: -85.5°, bp: 145°.

Insol in water; misc in alc and ether.

SYNS: AETHYL RHODANID (GERMAN) □ ETHYL RHODANATE □ ETHYL SULFOCYANATE □ THIOCYANATOETHANE □ THIOCYANIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LDLo:200 mg/kg JIHTAB 18,310,36
scu-rat LDLo:40 mg/kg JIHTAB 18,310,36
ipr-mus LD50:10 mg/kg JJPAAZ 3,99,54
scu-mus LDLo:70 mg/kg JJPAAZ 3,99,54
ivn-mus LD50:18 mg/kg CSLNX* NX#02865
orl-cat LDLo:10 mg/kg JIHTAB 18,310,36
scu-rbt LDLo:15 mg/kg AEPPAE 150,257,30

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Community Right-To-Know List. Reported in EPA TSCA Inventory.

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

EPP500 CAS: 110-77-0 HR: 2
2-(ETHYLTHIO)ETHANOL

mf: C₄H₁₀OS mw: 106.20

PROP: Bp: 182-184°.

SYNS: ETHYL-2-HYDROXYETHYL SULFIDE □ ETHYL-2-HYDROXYETHYL THIOETHER □ β-ETHYLMERKAPTO-ETHANOL (CZECH) □ β-HYDROXYDIETHYL SULFIDE

TOXICITY DATA with REFERENCE:

skn-rbt 2 mg/24H SEV 85JCAE -,998,86
eye-rbt 750 µg/24H SEV 28ZPAK -,171,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A severe skin and eye irritant. When heated to decomposition it emits toxic fumes of SO_x. See also SULFIDES.

EPQ000 CAS: 536-33-4 HR: 3
2-ETHYLTHIOISONICOTINAMIDE

mf: C₈H₁₀N₂S mw: 166.26

PROP: Yellow crystals from EtOH. Mp: 164-166° (decomp). Very sltly sol in Et₂O; sltly sol in MeOH and EtOH; sol in Py.

SYNS: AETINA □ AETIVA □ AMIDAZIN □ BAYER 5312 □ ETH □ ETHIMIDE □ ETHINA □ ETHINAMIDE □ ETHIONIAMIDE □ α-ETHYLISONICOTINIC ACID THIOAMIDE □ 2-ETHYLISONICOTINIC ACID THIOAMIDE □ 2-ETHYLISONICOTINIC THIOAMIDE □ α-ETHYLISONICOTINOYL-THIOAMIDE □ ETHYLISOTHIAMIDE □ α-ETHYLISOTHIONICOTINAMIDE □ 2-ETHYLISOTHIONICOTINAMIDE □ 2-ETHYL-4-PYRIDINECARBOTHIOAMIDE □ 2-ETHYL-4-THIOAMIDYLPYRIDINE □ 2-ETHYL-4-THIOCARBAMOYL-PYRIDINE □ α-ETHYLTHIOISONICOTINAMIDE □ ETHY-ONAMIDE □ ETIMID □ ETIOCIDAN □ ETIONAMID □ ETIONIZINA □ ETP □ FATOLIAMID □ F.I. 58-30 □ IRIDOCIN □ IRIDOZIN □ ISOTHIN □ ISOTIAMIDA □ ITIOCIDE □ NCI-C01694 □ NICOTIN □ NISOTIN □ NIZOTIN □ RIGENICID □ SERTINON □ TEBERUS □ TH 1314 □ THIANIDE □ THIOAMIDE □ THIONIDEN □ TRECATOR □ TRESCATYL □ TRESCAZIDE □ TUBERMIN □ TUBEROID □ TUBEROSON

TOXICITY DATA with REFERENCE:

cyt-ham:fbr 400 mg/L ESKHA5 96,55,78

cyt-ham:lng 540 mg/L GMCRCDC 27,95,81
orl-hmn TDLo:856 mg/kg/LIV ARDSBL 84,890,61
orl-hmn TDLo:482 mg/kg/5W:LIV ARDSBL 87,896,63
orl-rat LD50:1320 mg/kg NIIRDN 6,111,82
ipr-rat LD50:490 mg/kg NIIRDN 6,111,82
scu-rat LD50:1350 mg/kg NIIRDN 6,111,82
orl-mus LD50:1000 mg/kg FEPRA7 21,452,62
ipr-mus LD50:1350 mg/kg DPHFAK 23,383,71
scu-mus LD50:1580 mg/kg NIIRDN 6,111,82
scu-gpg LD50:550 mg/kg UBZHD4 52,593,80

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 13,83,77. NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-46,78.

SAFETY PROFILE: A human systemic poison. Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. Human systemic effects by ingestion: jaundice and liver function impairment. It affects the human peripheral nervous system. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. Used to treat tuberculosis. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

EPR000 CAS: 29973-13-5 HR: 3
(2-ETHYLTHIOMETHYLPHENYL)-N-METHYL-CARBAMATE

mf: C₁₁H₁₅NO₂S mw: 225.33

PROP: Yellow oil or solid. D: 1.147 @ 20°/4°, mp: 33.4°. Sltly sol in H₂O.

SYNS: BAY-HOX-1901 □ CRONETON □ ETHIOFENCARB □ ETHIOPHENCARP □ 2-ETHYLMERCAPTOMETHYLPHENYL-N-METHYLCARBAMATE □ 2-((ETHYLTHIO)METHYL)PHENOL METHYLCARBAMATE □ 2-((ETHYLTHIO)METHYL)PHENYL METHYLCARBAMATE □ HOX 1901

TOXICITY DATA with REFERENCE:

orl-rat LD50:200 mg/kg FMCHA2 -,C64,83
ihl-rat LCLo:97 mg/m³ GISAAA 49(10),23,84
skn-rat LD50:1000 mg/kg FMCHA2 -,C64,83
orl-mus LD50:71 mg/kg 85ALAU -,106,76
ihl-cat LCLo:97 mg/m³ GISAAA 49(10),23,84
skn-rbt LD50:2500 mg/kg GISAAA 49(10),23,84

SAFETY PROFILE: Poison by ingestion and inhalation routes. Moderately toxic by skin contact. An insecticide. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also CARBAMATES.

EPR100 CAS: 99422-01-2 HR: 3
5-((2-ETHYLTHIO)PROPYL)-2-(1-OXOPROPYL)-1,3-CYCLOHEXANEDIONE

mf: C₁₄H₂₂O₃S mw: 270.42

SYNS: 1,3-CYCLOHEXANEDIONE, 5-(2-(ETHYLTHIO)PROPYL)-2-(1-OXOPROPYL)- □ RE-45550

TOXICITY DATA with REFERENCE:

orl-rat LD50:170 mg/kg EPASR* 8EHQ-0186-0584

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EPR200 CAS: 70303-46-7 HR: 2
(ETHYLTHIO)TRIOCTYLSTANNANEmf: C₂₆H₅₆SSn mw: 519.57**SYNS:** STANNANE, (ETHYLTHIO)TRIOCTYL- □
TRIOCTYL(ETHYLTHIO)STANNANE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:2945 mg/kg RPTOAN 42,73,79

OSHA PEL: TWA 0.1 mg(Sn)/m³**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³
(skin)**NIOSH REL:** (Organotin Compounds): 10H TWA 0.1
mg(Sn)/m³**SAFETY PROFILE:** Moderately toxic by
intraperitoneal route. When heated to decomposition it
emits toxic fumes of SO_x and Sn.**ANALYTICAL METHOD:** For occupational chemical
analysis use NIOSH: Organotin Compounds 5504.**EPR600 CAS: 625-53-6 HR: 3**
ETHYL THIOUREAmf: C₃H₈N₂S mw: 104.19**SYN:** 1-ETHYLTHIOUREA**TOXICITY DATA with REFERENCE:**

mmo-sat 150 µg/plate ABCHA6 44,3017,80

dnr-omi 10 mg/plate BIZNAT 95,463,76

orl-rat LD50:100 mg/kg JPETAB 90,260,47

orl-mus LDLo:500 mg/kg TJADAB 23,335,81

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.**SAFETY PROFILE:** Poison by ingestion.
Experimental teratogenic effects. Mutation data reported.
When heated to decomposition it emits toxic fumes of
SO_x and NO_x.**EPS000 CAS: 1066-57-5 HR: 3**
ETHYLTIN TRICHLORIDEmf: C₂H₅Cl₃Sn mw: 254.11**PROP:** Colorless liquid. Mp: -10°, bp: 196–198°.**SYNS:** AETHYLZINNTRICHLORID (GERMAN) □
ETHYLTRICHLOROSTANNANE □ ETHYLTRICHLOROTIN □
MONOETHYLTIN TRICHLORIDE □ TRICHLOROETHYL-
STANNANE □ TRICHLOROETHYLTIN**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:200 mg/kg TRIPA7 -,73

ipr-rat LDLo:200 mg/kg BJPCAL 10,16,55

ipr-mus LD50:79 mg/kg TXAPA9 8,337,66

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2
mg(Sn)/m³ (skin).**NIOSH REL:** (Organotin Compounds) TWA 0.1
mg(Sn)/m³**SAFETY PROFILE:** Poison by ingestion and
intraperitoneal routes. When heated to decomposition it
emits toxic fumes of Cl₂. See also TIN COMPOUNDS
and CHLORIDES.**ANALYTICAL METHOD:** For occupational chemical
analysis use NIOSH: Organotin Compounds 5504.**EPS500 CAS: 611-14-3 HR: 3**
2-ETHYLTOLUENEmf: C₉H₁₂ mw: 120.21**PROP:** Autoign temp: 824°F, d: 0.88, vap d: 4.15, bp:
164.1°.**SYNS:** 1-ETHYL-2-METHYLBENZENE □ o-ETHYL-
METHYLBENZENE □ o-ETHYLTOLUENE □ o-
METHYLETHYLBENZENE**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:5000 mg/kg 28ZRAQ -,57,60

ihl-mus LC50:54 g/m³/4H 85GMAT -,69,82

ihl-cat LC50:50 g/kg/2H 85GMAT -,69,82

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion and
inhalation. Flammable when exposed to heat, flame or
oxidizers. To fight fire, use water spray or mist, dry
chemical, CO₂. When heated to decomposition it emits
acid smoke and irritating fumes.**EPS600 CAS: 620-14-4 HR: 2**
m-ETHYLTOLUENEmf: C₉H₁₂ mw: 120.19**SYN:** BENZENE, 1-ETHYL-3-METHYL-**TOXICITY DATA with REFERENCE:**ihl-mus LC50:54,000 mg/m³/4H VCVGH*,173,1990ihl-cat LC50:50,000 mg/m³/2H VCVGH*,173,1990

ipr-rat LD50:1,122 mg/kg VCVGH*,173,1990

SAFETY PROFILE: Moderately toxic by
intraperitoneal route. Low toxicity by inhalation. When
heated to decomposition it emits acid smoke and
irritating vapors.**EPT000 CAS: 622-96-8 HR: 3**
p-ETHYLTOLUENEmf: C₉H₁₂ mw: 120.21**PROP:** A liquid. Mp: -62.4°, bp: 162.2°, autoign temp:
887°F.**SYNS:** 1-ETHYL-4-METHYLBENZENE □ p-ETHYLMETHYL-
BENZENE □ 4-ETHYLTOLUENE □ p-METHYLETHYL-
BENZENE □ 4-METHYLETHYLBENZENE**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:5000 mg/kg 28ZRAQ -,57,60

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion.
Flammable when exposed to heat or flame; can react
vigorously with oxidizing materials. To fight fire, use water
spray or mist, dry chemical, CO₂. When heated to
decomposition it emits acid smoke and irritating fumes.**EPT100 CAS: 102-27-2 HR: 3**
N-ETHYL-m-TOLUIDINEmf: C₉H₁₁N mw: 135.23**SYNS:** BENZENAMINE, N-ETHYL-3-METHYL- □ N-ETHYL-3-
METHYLBENZENAMINE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:580 mg/kg GTPZAB 30(1),50,86

orl-mus LD50:280 mg/kg GTPZAB 30(1),50,86

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.**SAFETY PROFILE:** A poison by ingestion. When
heated to decomposition it emits toxic vapors of NO_x.

EPT500 CAS: 17010-63-8 HR: 2
***p*-((3-ETHYL-*p*-TOLYL)AZO)-*N,N*-DIMETHYL-ANILINE**mf: C₁₇H₂₁N₃ mw: 267.41**SYNS:** *N,N*-DIMETHYL-*p*-(3'-ETHYL-4'-METHYLPHENYL)AZO)ANILINE □ *N,N*-DIMETHYL-*p*-((3-ETHYL-*p*-TOLYL)AZO)ANILINE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**EPU000 CAS: 17010-62-7 HR: 2**
***p*-((4-ETHYL-*m*-TOLYL)AZO)-*N,N*-DIMETHYL-ANILINE**mf: C₁₇H₂₁N₃ mw: 266.40**SYNS:** *N,N*-DIMETHYL-*p*-(4'-ETHYL-3'-METHYLPHENYL-AZO)ANILINE □ *N,N*-DIMETHYL-*p*-((4-ETHYL-*m*-TOLYL)AZO)ANILINE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**EPV000 CAS: 101491-84-3 HR: 3**
***N*-ETHYL-*N*-(1-(*o*-TOLYLOXY-2-PROPYL)-CARBAMIC ACID)-2-(2-METHYLPIPERID-INO)ETHYL ESTER HYDROCHLORIDE**mf: C₂₁H₃₄N₂O₃•ClH mw: 399.03**SYN:** C 2138**TOXICITY DATA with REFERENCE:**

eye-rbt 2% MOD ARZNAD 9,113,59

scu-mus LD50:250 mg/kg ARZNAD 9,113,59

SAFETY PROFILE: Poison by subcutaneous route. An eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also CARBAMATES and ESTERS.**EPW000 CAS: 50707-40-9 HR: 3**
1-ETHYL-3-*p*-TOLYLTRIAZENEmf: C₉H₁₃N₃ mw: 163.25**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:200 mg/kg StoGD# 27May75

SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x.**EPW500 CAS: 80-40-0 HR: 2**
ETHYL TOSYLATEmf: C₉H₁₂O₃S mw: 200.27**PROP:** Crystals from alc. Mp: 33°, bp: 173° @ 15 mm, flash p: 316°F (CC), d: 1.17, vap d: 6.98.**SYNS:** ETHYL-*p*-METHYL BENZENESULFONATE □ ETHYL PTS □ ETHYL-*p*-TOLUENESULFONATE □ ETHYL-*p*-TOSYLATE □ *p*-TOLUOLSULFONSAEUREAETHYL ESTER (GERMAN)**TOXICITY DATA with REFERENCE:**

mmo-sat 2000 µg/plate JNCIAM 62,893,79

mma-sat 4700 µg/plate PNASA6 72,5135,75

dnr-esc 50 mg/L JNCIAM 62,873,79

mrc-smc 1 pph JNCIAM 62,901,79

otr-ham:emb 500 µg/L CRNGDP 1,323,80

scu-rat LD50:500 mg/kg ZEKBAI 74,241,70

ipr-mus LD50:1000 mg/kg JJIND8 62,911,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Moderately toxic by subcutaneous and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. 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 highly toxic fumes of SO_x. See also SULFONATES and ESTERS.**EPW600 CAS: 10310-32-4 HR: 2**
ETHYL-3,5,6-TRI-*o*-BENZYL-*d*-GLUCOFURANO-SIDEmf: C₂₉H₃₄O₆ mw: 478.63**SYNS:** BA 21401 □ BG-356 □ GLIVENOL □ GLUCOFURANO-SIDE, ETHYL-3,5,6-TRI-*o*-BENZYL-, *d*- □ GLYVENAL □ GLYVENOL □ *d*-GLUCOFURANOSIDE, ETHYL-3,5,6-TRIS-*o*-(PHENYLMETHYL)- □ TRIBENOSIDE □ TRIBENZOSIDE □ TBGF**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>20 g/kg KSRNAM 8,2748,1974

ipr-rat LD50:2600 mg/kg KSRNAM 8,2748,1974

scu-rat LD50:>20 g/kg KSRNAM 8,2748,1974

orl-mus LD50:>30 g/kg KSRNAM 8,2748,1974

ipr-mus LD50:3300 mg/kg KSRNAM 8,2748,1974

scu-mus LD50:>30 g/kg KSRNAM 8,2748,1974

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Low toxicity by ingestion and subcutaneous routes. When heated to decomposition it emits acrid smoke and irritating vapors.**EPX000 CAS: 63449-87-6 HR: 3**
ETHYL TRI-*n*-BUTYLAMMONIUM HYDROXIDEmf: C₁₄H₃₂N•HO mw: 231.48**TOXICITY DATA with REFERENCE:**

scu-mus LDLo:24 mg/kg JPETAB 28,367,26

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x and NH₃.**EPY000 CAS: 327-98-0 HR: 3**
ETHYL TRICHLOROPHENYLETHYLPHOS-PHONOTHIOATEmf: C₁₀H₁₂Cl₃O₂PS mw: 333.60**PROP:** Amber liquid. D: 1.365 @ 20°/4°, bp: 108° @ 0.01 mm.**SYNS:** O-AETHYL-O-(2,4,5-TRICHLOROPHENYL)AETHYL-THIONOPHOSPHONAT (GERMAN) □ AGRISIL □ AGRITOX □ BAYER 5081 □ BAYER 37289 □ BAYER S 4400 □ CHEMAGRO 37289 □ ENT 25,712 □ O-ETHYL-O-2,4,5-TRICHLOROPHENYL ETHYLPHOSPHONOTHIOATE □ FENOPHOSPHON □ PHYTOSOL □ STAUFFER N-3049 □ TRICHLORONAT □ 2,4,5-TRICHLOROPHENOL-O-ESTER with O-ETHYL ETHYLPHOSPHONOTHIOATE □ WIRKSTOFF 37289**TOXICITY DATA with REFERENCE:**

orl-rat LD50:15 mg/kg ARSIM* 20,4,66

ihl-rat LCLo:700 mg/m³/4H 85GYAZ -,35,71

skn-rat LD50:64 mg/kg WRPCA2 9,119,70

orl-mus LD50:40 mg/kg 85DPAN -,71/76
 orl-cat LD50:10 mg/kg 85DPAN -,71/76
 orl-rbt LD50:25 mg/kg 85GYAZ -,35,71

CONSENSUS REPORTS: Chlorophenol compounds are on the Community Right-To-Know List. EPA Extremely Hazardous Substances List.

SAFETY PROFILE: Poison by ingestion and skin contact. Moderately toxic by inhalation. An insecticide. When heated to decomposition it emits very toxic fumes of Cl^- , PO_x , and SO_x . See also CHLOROPHENOLS.

EPY500 CAS: 115-21-9 HR: 3
ETHYL TRICHLOROSILANE

DOT: UN 1196

mf: $\text{C}_2\text{H}_5\text{Cl}_3\text{Si}$ mw: 163.51

PROP: Liquid. Mp: -105.6° , bp: 99.5° , flash p: 72°F (OC), d: 1.24 @ $25^\circ/25^\circ$, vap d: 5.6.

SYNS: ETHYL SILICON TRICHLORIDE □ ETHYLTRICHLOROSILANE (DOT) □ SILANE, TRICHLOROETHYL- □ SILICANE, TRICHLOROETHYL- □ TRICHLOROETHYLSILANE □ TRICHLOROETHYLSILICANE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,1220,86
 eye-rbt 250 μg /24H SEV 85JCAE -,1220,86
 ihl-rat LCLo:500 ppm/4H JIHTAB 31,343,49
 orl-rat LD50:1330 mg/kg JIHTAB 31,60,49
 ipr-rat LDLo:30 mg/kg JIHTAB 30,332,48
 ihl-mus LC50:300 $\mu\text{g}/\text{m}^3/2\text{H}$ TPKVAL (3),23,61

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Corrosive

SAFETY PROFILE: Poison by inhalation and intraperitoneal routes. Moderately toxic by ingestion. A skin and severe eye irritant. A very dangerous fire hazard when exposed to heat, flame, or oxidizers; will react with water or steam to produce heat and toxic and corrosive fumes; can react vigorously with oxidizing materials. To fight fire, use CO_2 , dry chemical. When heated to decomposition it emits highly toxic fumes of Cl^- and phosgene. See also CHLOROSILANES.

EPY600 CAS: 993-86-2 HR: 3
ETHYLTRICHLORPHON

mf: $\text{C}_6\text{H}_{12}\text{Cl}_3\text{O}_4\text{P}$ mw: 285.50

PROP: A solid. Mp: $57-58^\circ$.

SYNS: AETHYLTRICHLORPHON (GERMAN) □ ETC □ 1-HYDROXY-2,2,2-TRICHLOROETHYL DIETHYL PHOSPHONITE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:400 mg/kg ZHYGAM 22,565,76

SAFETY PROFILE: Poison by intraperitoneal route. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^- and PO_x . See also ESTERS.

EPZ000 CAS: 313-93-9 HR: 2
3-ETHYLTRICYCLOQUINAZOLINE

mf: $\text{C}_{23}\text{H}_{16}\text{N}_4$ mw: 348.43

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

EQA000 CAS: 78-07-9 HR: 1

ETHYLTRIETHOXSILANE

mf: $\text{C}_8\text{H}_{20}\text{O}_3\text{Si}$ mw: 192.37

PROP: A liquid. D: 0.915 @ $20^\circ/4^\circ$, bp: 158° .

SYNS: NSC-5230 □ SILANE, ETHYL TRIETHOXY A-15 □ SILANE, TRIETHOXYETHYL- □ TRIETHOXY-ETHYLSILANE □ UNION CARBIDE A-15

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 4/27/64
 eye-rbt 500 mg/24H MLD 85JCAE -,1231,86
 orl-rat LD50:14 g/kg JIHTAB 31,60,49
 skn-rbt LD50:16 g/kg JIHTAB 31,60,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EQB500 CAS: 28781-86-4 HR: 3
ETHYL-2,2,3-TRIFLUORO PROPIONATE

mf: $\text{C}_5\text{H}_7\text{F}_3\text{O}_2$ mw: 188.22

$\text{CH}_3\text{CH}_2\text{OCO}\cdot\text{CF}_2\text{CH}_2\text{F}$

SAFETY PROFILE: Decomposes violently on contact with sodium hydride. When heated to decomposition it emits toxic fumes of F. See also FLUORIDES.

EQC000 CAS: 1923-76-8 HR: 2
 α -ETHYL- β -(2,4,6-TRIIODO-3-BUTYRAMIDO-PHENYL)ACRYLIC ACID SODIUM SALT

mf: $\text{C}_{15}\text{H}_{15}\text{I}_3\text{NO}_5\cdot\text{Na}$ mw: 661.00

SYNS: BILI-ORAL □ BUNAID □ BUNAMIODYL □ BUNIODYL □ 3-BUTYRAMIDO- α -ETHYL-2,4,6-TRIIDOCINNAMIC ACID SODIUM SALT □ 2-(3-BUTYRAMIDO-2,4,6-TRIIDO-PHENYLMETHYLENE)BUTYRIC ACID SODIUM SALT □ 3-(3-BUTYRYLAMINO-2,4,6-TRIIDOPHENYL)-2-ETHYLACRYLIC ACID SODIUM SALT □ INTRABILIX □ ORABILEX □ SODIUM-3-BUTYRAMIDO- α -ETHYL-2,4,6-TRIIDOCINNAMATE □ α -(2,4,6-TRIIDO-3-BUTYRYLAMINO BENZYLIDENE)BUTYRIC ACID SODIUM SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:2800 mg/kg TXAPA9 14,232,69
 ivn-rat LD50:480 mg/kg TXAPA9 14,232,69
 orl-mus LD50:2780 mg/kg JMCMA9 13,997,70
 ivn-mus LD50:570 mg/kg MEIEDD 10,206,83

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 .

EQC500 CAS: 4916-38-5 HR: 3
ETHYLTRIIODOGERMANE

mf: $\text{C}_2\text{H}_5\text{GeI}_3$ mw: 482.36

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:220 mg/kg CHDDAT 262,1302,66
 ipr-mus LDLo:210 mg/kg CHDDAT 262,1302,66

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

EQC600 CAS: 51-93-4 HR: 3
ETHYLTRIMETHYLAMMONIUM IODIDE

mf: $\text{C}_5\text{H}_{14}\text{N}\cdot\text{I}$ mw: 215.10

SYNS: AMMONIUM, ETHYLTRIMETHYL-, IODIDE □ ETHANAMINIUM, N,N,N-TRIMETHYL-, IODIDE (9CI) □ IODURE d'ETHYL-TRIMETHYL-AMMONIUM □ N,N,N-TRIMETHYLETHANAMINIUM IODIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:40 mg/kg 85IXA4 -,675,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EQD000 CAS: 41096-46-2 HR: 1
ETHYL-3,7,11-TRIMETHYLDODECA-2,4-DIENOATE

mf: C₁₇H₃₀O₂ mw: 266.47

SYNS: ALTOZAR □ ENT 70,459 □ ETHYL(2E,4E)-3,7,11-TRIMETHYL-2,4-DODECADIENOATE □ ETHYL (2E,4E)-3,7,11-TRIMETHYL-DODECA-2,4-DIENOATE □ HYDROPRENE □ ZR 512

TOXICITY DATA with REFERENCE:

orl-rat LD50:34,000 mg/kg 85ARAE 1,98,77

skn-rbt LD50:4550 mg/kg FMCHA2 -,C12,83

SAFETY PROFILE: Mildly toxic by ingestion and skin contact. Experimental teratogenic and reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

EQD100 CAS: 67590-56-1 HR: 3
4-ETHYL-2,6,7-TRIOXA-1-ARSABICYCLO-(2.2.2)OCTANE

mf: C₆H₁₁AsO₃ mw: 206.09

SYN: 2,6,7-TRIOXA-1-ARSABICYCLO(2.2.2)OCTANE, 4-ETHYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:31 mg/kg EJMCA5 13,207,78

OSHA PEL: TWA 0.5 mg(As)/m³

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

EQD150 CAS: 4736-60-1 HR: 1
ETHYLTRIPHENYLPHOSPHONIUM IODIDE

mf: C₂₀H₂₀P·I mw: 418.27

SYN: PHOSPHONIUM, ETHYLTRIPHENYL-, IODIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:5600 µg/kg CSLNX* NX#05926

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of PO_x and I⁻.

EQD200 CAS: 692-86-4 HR: 1
ETHYL 10-UNDECENOATE

mf: C₁₃H₂₄O₂ mw: 212.37

SYNS: ETHYL 10-HENDECENOATE □ ETHYL UNDECENOATE □ ETHYL UNDECYLENATE □ 10-UNDECENOIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 20,687,82

orl-rat LD50:>5 g/kg FCTOD7 20,687,82

skn-rbt LD50:>5 g/kg FCTOD7 20,687,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EQD600 CAS: 57420-66-3 HR: 3
1-ETHYL-1-UNDECYLPYPERIDINIUM BROMIDE

mf: C₁₈H₃₈N·Br mw: 348.48

TOXICITY DATA with REFERENCE:

orl-mus LD50:188 mg/kg PSDTAP 15,331,74

ipr-mus LD50:25,970 µg/kg PSDTAP 15,331,74

ivn-mus LD50:4417 µg/kg PSDTAP 15,331,74

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

EQD875 CAS: 625-52-5 HR: 1
1-ETHYLUREA

mf: C₃H₈N₂O mw: 88.13

SYNS: ETHYLUREA □ N-ETHYLUREA □ UREA, ETHYL- □ UREA, 1-ETHYL-

TOXICITY DATA with REFERENCE:

mmo-clr 400 mmol/L FOMIAZ 20,452,75

orl-mus TDLo:2 g/kg (10D preg):REP TJADAB 23,335,81

orl-rat LD:>250 mg/kg NCNSA6 5,47,53

par-mus LDLo:6610 mg/kg JPETAB 52,216,34

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

SAFETY PROFILE: Mildly toxic by parenteral route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

EQD900 HR: D
ETHYLUREA and SODIUM NITRITE (1:1)

mf: C₃H₈N₂O·NNaO₂ mw: 157.13

SYN: SODIUM NITRITE and ETHYL UREA (1:1)

TOXICITY DATA with REFERENCE:

hma-mus/sat 3650 µmol/kg CNREA8 37,457,77

orl-rat TDLo:875 mg/kg (7-16D preg):TER RCOCB8 41,265,83

SAFETY PROFILE: Experimental teratogenic effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and Na₂O. See also SODIUM NITRITE.

EQE000 HR: 3
ETHYLUREA and SODIUM NITRITE (2:1)

SYNS: AETHYLHARNSTOFF und NATRIUMNITRIT (GERMAN)

□ AETHYLHARNSTOFF und NITRIT (GERMAN) □ SODIUM NITRITE and ETHYLUREA (1:2)

TOXICITY DATA with REFERENCE:

orl-rat TDLo:1650 mg/kg (13-23D preg):CAR,TER IARCCD 4,92,73

orl-rat TDLo:750 mg/kg (15D preg):NEO,TER ZAPPAN 121,61,77

orl-rbt TDLo:450 mg/kg/(17-19D preg):ETA,TER JNCIAM 59,427,77

orl-ham TDLo:300 mg/kg (15D preg):CAR,TER
JNCIAM 55,1389,75

orl-rat TD:1650 mg/kg (13-23D preg):ETA,TER
NATWAY 57,460,70

orl-rat TD:25 g/kg/35D-C:ETA ARZNAD 21,1707,71

orl-ham TDLo:600 mg/kg (12-15D preg):NEO,TER
ZKKOBW 85,201,76

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and Na₂O. See also SODIUM NITRITE.

EQE500 CAS: 617-05-0 HR: 3
ETHYL VANILLATE

mf: C₁₀H₁₂O₄ mw: 196.22

PROP: Mp: 44°, bp: 291–293°, Insol in water; sol in alk; very sol in alc and ether.

SYNS: ETHYL-4-HYDROXY-3-METHOXYBENZOATE □ 3-METHOXY-4-HYDROXYBENZOIC ACID, ETHYL ESTER

TOXICITY DATA with REFERENCE:

scu-rat LD50:2000 mg/kg HBTXAC 1,138,56

ivn-mus LD50:56 mg/kg CSLNX* NX#06395

orl-rbt LDLo:3000 mg/kg HBTXAC 1,138,56

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

EQF000 CAS: 121-32-4 HR: 2
ETHYL VANILLIN

mf: C₉H₁₀O₃ mw: 166.19

PROP: Fine, crystalline needles; vanilla odor. Mp: 76.5°, flash p: 212°F. Sol in alc, chloroform, ether, propylene glycol; sltly sol in water.

SYNS: BOURBONAL □ ETHAVAN □ ETHOVAN □ 3-ETHOXY-4-HYDROXYBENZALDEHYDE □ ETHYLPROTAL □ FEMA No. 2464 □ 4-HYDROXY-3-ETHOXYBENZALDEHYDE □ PROTOCATECHUIC ALDEHYDE ETHYL ETHER □ QUANTROVANIL □ VANILLAL □ VANIROM

TOXICITY DATA with REFERENCE:

skn-hmn 10 mg/48H MLD FCTXAV 13,103,75

cyt-ham:fbr 250 mg/L FCTOD7 22,623,84

orl-rat LD50:1590 mg/kg FAONAU 44A,39,67

scu-rat LDLo:1800 mg/kg JAPMA8 29,425,40

ipr-mus LD50:750 mg/kg CTOXAO 10,61,77

ivn-dog LDLo:760 mg/kg COREAF 238,2576,54

orl-rbt LDLo:3000 mg/kg JAPMA8 29,425,40

ipr-gpg LD50:1140 mg/kg COREAF 238,2576,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, subcutaneous, and intravenous routes. A human skin irritant. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES and ETHERS.

EQF100 CAS: 72207-94-4 HR: 1
ETHYL VANILLIN ACETATE

mf: C₁₁H₁₂O₄ mw: 208.23

SYNS: 4-ACETOXY-3-ETHOXYBENZALDEHYDE □ BENZALDEHYDE, 4-(ACETYLOXY)-3-ETHOXY-

TOXICITY DATA with REFERENCE:

orl-rat LDLo:5 g/kg FCTOD7 26,283,88

skn-rbt LD50:>5 g/kg FCTOD7 26,283,88

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.

EQF150 CAS: 5888-51-7 HR: D
4-ETHYLVERATROLE

mf: C₁₀H₁₄O₂ mw: 166.24

SYNS: BENZENE, 1,2-DIMETHOXY-4-ETHYL- □ 1,2-DIMETHOXY-4-ETHYLBENZENE □ 3,4-DIMETHOXY-PHENYLETHANE

TOXICITY DATA with REFERENCE:

mrc-smc 1 g/L MUREAV 369,175,196

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

EQF200 CAS: 3195-79-7 HR: 2
N-ETHYL-N-VINYLACETAMIDE

mf: C₆H₁₁NO mw: 113.18

TOXICITY DATA with REFERENCE:

orl-rat LD50:2460 mg/kg AIHAAP 30,470,69

ihl-rat LCLo:2000 ppm/4H AIHAAP 30,470,69

skn-rbt LD50:1250 mg/kg AIHAAP 30,470,69

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

EQF500 CAS: 109-92-2 HR: 3
ETHYL VINYL ETHER

DOT: UN 1302

mf: C₄H₈O mw: 72.12

PROP: Colorless, volatile liquid. Fp: −115°, bp: 35.6°, flash p: <−50°F, d: 0.754, autoign temp: 395°F, vap press: 428 mm @ 20°, lel: 1.7%, uel: 28%, vap d: 2.5. Sltly sol in water.

SYNS: ETHOXY ETHENE □ EVE □ VINAMAR □ VINYL ETHYL ETHER □ VINYL ETHYL ETHER, inhibited (DOT)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 11/15/71

sce-ham:ovr 17,900 ppm ANESAV 50,426,79

orl-rat LD50:6153 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Mildly toxic by ingestion.

Mutation data reported. A skin irritant. A very dangerous fire and explosion hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use alcohol foam, foam, CO₂, dry chemical. Explosive polymerization is catalyzed by methane sulfonic acid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

EQG500 CAS: 5408-74-2 HR: 2
5-ETHYL-2-VINYLPYRIDINE

mf: C₉H₁₁N mw: 133.21

SYN: 3-ETHYL-6-VINYLPYRIDINE**TOXICITY DATA with REFERENCE:**

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

skn-rbt 5 mg/24H SEV 85JCAE -,847,86

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

eye-rbt 100 mg/24H MOD 85JCAE -,847,86

orl-rat LD50:1230 mg/kg AMIHBC 10,61,54

ihl-rat LCLo:8000 ppm/4H AMIHBC 10,61,54

skn-rbt LD50:890 mg/kg AMIHBC 10,61,54

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Mildly toxic by inhalation. An eye and severe skin irritant. When heated to decomposition it emits toxic fumes of NO_x.**EQG550 CAS: 2390-59-2 HR: 3
ETHYL VIOLET AX**mf: C₃₁H₄₂N₃•Cl mw: 492.21**SYNS:** C.I. 42600 □ C.I. BASIC VIOLET 4 (8CI) □ ETHAN-AMINIUM, N-(4-(BIS(4-(DIETHYLAMINO)PHENYL)METHYLENE)-2,5-CYCLOHEXADIEN-1-YLIDENE)-N-ETHYL-, CHLORIDE □ ETHYL VIOLET □ ETHYL VIOLET GGA □ SHIKISO ACID BRILLIANT BLUE 6B**TOXICITY DATA with REFERENCE:**

orl-mus LDLo:320 mg/kg AECTCV 14,111,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**EQG600 CAS: 151-01-9 HR: D
ETHYL XANTHATE**mf: C₃H₆OS₂ mw: 122.21**SYNS:** CARBONIC ACID, DITHIO-, O-ETHYL ESTER □ CARBONODITHIOIC ACID, O-ETHYL ESTER □ O-ETHYL DITHIOCARBAMATE □ O-ETHYL DITHIOCARBONATE □ ETHYLXANTHIC ACID □ ETHYL XANTHOGENATE □ O-ISOBUTYL POTASSIUM XANTHATE □ XANTHATE □ XANTHOGENIC ACID**TOXICITY DATA with REFERENCE:**cyt-rat-ihl 13,050 µg/m³/16W-I GTPZAB 24(9),33,80**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of SO_x.**EQH000 CAS: 3278-35-1 HR: 3
ETHYLXANTHIC ACID ANHYDROSULFIDE with
O-ETHYLTHIOLCARBONATE**mf: C₆H₁₀O₃S₂ mw: 194.28**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:125 mg/kg CBCCT* 8,492,56

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 SULFIDES.**EQI000 CAS: 101491-85-4 HR: 3
N-ETHYL-N-(1-(3,5-XYLYLOXY)-2-PROPYL)-
CARBAMIC ACID-2-(DIETHYLAMINO)ETHYL
ESTER HYDROCHLORIDE**mf: C₂₀H₃₄N₂O₃•ClH mw: 387.02**SYN:** C 2142**TOXICITY DATA with REFERENCE:**

eye-rbt 2% SEV ARZNAD 9,113,59

scu-mus LD50:202 mg/kg ARZNAD 9,113,59

SAFETY PROFILE: Poison by subcutaneous route. A severe eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also CARBAMATES and ESTERS.**EQI500 CAS: 101491-86-5 HR: 3
N-ETHYL-N-(1-(3,5-XYLYLOXY)-2-PROPYL)-
CARBAMIC ACID-2-(2-METHYLPIPERIDINO)-
ETHYL ESTER HYDROCHLORIDE**mf: C₂₂H₃₆N₂O₃•ClH mw: 413.06**SYN:** C 2127**TOXICITY DATA with REFERENCE:**

eye-rbt 2% SEV ARZNAD 9,113,59

scu-mus LD50:352 mg/kg ARZNAD 9,113,59

SAFETY PROFILE: Poison by subcutaneous route. A severe eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also CARBAMATES and ESTERS.**EQI600 CAS: 2482-80-6 HR: 3
ETHYIMIDINE**mf: C₈H₉ClN₄ mw: 196.66**SYNS:** 2,4-BIS(1-AZIRIDINYL)-6-CHLOROPYRIMIDINE □ 2,6-BIS(1-AZIRIDINYL)-4-CHLOROPYRIMIDINE □ 4-CHLORO-2,6-BIS-ETHYLENEIMINOPYRIMIDINE □ 2,6-DIETHYLENEIMINO-4-CHLOROPYRIMIDINE □ ETIMIDIN**TOXICITY DATA with REFERENCE:**

mmo-asn 2500 µmol/L MUREAV 14,115,72

oms-rat-ipr 2500 µg/kg BJPCAL 6,357,51

cyt-rat-ipr 2500 µg/kg BJPCAL 6,357,51

ivn-rat LDLo:15 mg/kg PMDCAY 8,61,71

ivn-mus LDLo:15 mg/kg PMDCAY 8,61,71

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Poison by intravenous route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and Cl⁻.**EQJ000 HR: 2
ETHYNERONE mixed with MESTRANOL (20:1)**mf: C₂₀H₂₃ClO₂•C₂₁H₂₆O₂ (20:1) mw: 641.0**SYN:** MESTRANOL mixed with ETHYNERONE (1:20)**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of Cl⁻.**EQJ100 CAS: 1231-93-2 HR: 3
ETHYNODIOL**mf: C₂₀H₂₈O₂ mw: 300.48**PROP:** Crystals from Me₂CO/hexane. Mp: 211–214°.**SYNS:** ED □ ETHINODIOL □ 17-α-ETHYNYL-19-NORANDROST-4-ENE-3-β,17-β-DIOL**SAFETY PROFILE:** Human reproductive effects by an unspecified route: biochemical and metabolic disorders in newborn. An experimental teratogen. Experimental

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

EQJ500 CAS: 297-76-7 HR: 3
ETHYNODIOL ACETATE

mf: $C_{24}H_{32}O_4$ mw: 384.56

PROP: Crystals from MeOH (aq) or crystals from Me_2CO /hexane. Mp: 129–132°.

SYNS: CERVICUNDIN □ 3-β,17-β-DIACETOXY-17-α-ETHYNYL-4-OESTRENE □ 3-β,17-β-DIACETOXY-19-NOR-17-α-PREGN-4-EN-20-YNE □ ETHINODIOL DIACETATE □ ETHYNODIOL DIACETATE □ β-ETHYNODIOL DIACETATE □ 17-α-ETHYNYL-3,17-DIHYDROXY-4-ESTRENE DIACETATE □ 17-α-ETHYNYLESTR-4-ENE-3-β,17-β-DIOL ACETATE □ 17-α-ETHYNYL-4-ESTRENE-3-β,17-DIOL DIACETATE □ 17-α-ETHYNYL-4-ESTRENE-3-β,17-β-DIOL DIACETATE □ 17-α-ETHYNYL-19-NORANDROST-4-ENE-3-β,17-β-DIOL DIACETATE □ FEMULEN □ LUTO-METRODIOL □ METRODIOL □ METRODIOL DIACETATE □ (3-β,17-α)-19-NORPREGN-4-EN-20-YNE-3,17-DIOL DIACETATE □ OVULEN 50

TOXICITY DATA with REFERENCE:

oth-mus-par 16 µg/kg AJOGAH 120,390,74

cyt-ctl:oth 10 mg/L AJOGAH 120,390,74

CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 21,387,79; Animal Sufficient Evidence IMEMDT 6,173,74.

SAFETY PROFILE: Suspected carcinogen. Human reproductive effects by ingestion: menstrual cycle changes. Experimental reproductive effects. Mutation data reported. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes.

EQK010 HR: 2
ETHYNODIOL DIACETATE mixed with MESTRANOL

SYNS: MESTRANOL mixed with ETHYNODIOL DIACETATE □ 19-NOR-17-α-PREGN-4-EN-20-YNE-3-β,17-DIOL DIACETATE mixed with 3-METHYOXY-19-NOR-17-α-PREGNA-1,3,5(10)-TRIEN-20-YN-17-OL

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:15 mg/kg/78W-I:NEO,LIV JAMAAP 235,730,76

ipr-mus LD50:3900 mg/kg 27ZTAP 3,69,69

SAFETY PROFILE: Questionable carcinogen producing liver tumors. Moderately toxic by intraperitoneal route. A steroid.

EQK100 CAS: 8056-92-6 HR: 2
ETHYNODIOL mixed with MESTRANOL

mf: $C_{24}H_{32}O_4 \cdot C_{21}H_{26}O_2$ mw: 695.03

SYNS: MESTRANOL mixed with ETHYNODIOL □ 10-NOR-17-α-PREGN-4-EN-20-YNE-3-β,17-DIOL mixed with 3-METHOXY-17-α-19-NORPREGNA-1-3-5(10)-TRIEN-20-YN-17-OL □ OVULEN

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:63,504 µg/kg/12Y-I:CAR,LIV,MET LANCAO 1,273,80

orl-wmn TDLo:220 µg/kg/2W:SKN ARDEAC 113,333,76

orl-mus TDLo:186 mg/kg/93W-C:NEO GMCRDC 17,205,75

SAFETY PROFILE: Human systemic effects by ingestion: skin dermatitis, weight loss or decreased weight gain. Questionable carcinogen producing liver tumors. A

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

EQL000 CAS: 77-75-8 HR: 3
2-ETHYNYL-2-BUTANOL

mf: $C_6H_{10}O$ mw: 98.16

PROP: Colorless, mobile liquid; acrid odor; burning taste. Sol in water, ether, etc. Mp: −30.6°, bp: 122°, flash p: 101°F (OC), d: 0.8688 @ 20°, vap d: 3.38.

SYNS: 2-AETHINYLBUTANOL □ ALLOTROPAL □ ANTI-STRESS □ APRIDOL □ ATEMPOL □ (BDH) □ COMESA □ DALGOL □ DORMIDIN □ DORMIPHEN □ DORMOSAN □ 2-ETHINYLBUTANOL-2 □ ETHINYLMETHYLETHYLCARBINOL □ 3-ETHYLBUTINOL □ 3-ETHYLBUTYNOL □ HESOFEN □ INSOMNOL □ MECAROL □ MEPENTAMATO □ MEPENTIL □ METHYLETHYLACETYLENYLCARBINOL □ METHYLETHYLETHYNYLCARBINOL □ 3-METHYLPENTIN-3-OL □ 3-METHYLPENT-1-YN-3-OL □ 3-METHYL-1-PENTYN-3-OL □ MIRAMEL □ NOXOKRATIN □ OBLEVIL □ m-OBLIVON □ PENTADORM □ PENTYDORM □ m-PENTYNOL □ PENTYREST □ PLACIDAL □ RIPOSON □ SOMNESIN □ TRUSONO □ UTIL

TOXICITY DATA with REFERENCE:

orl-mus LD50:525 mg/kg PSCBAY 2,17,63

ipr-mus LD50:525 mg/kg AEPPAE 218,427,53

scu-mus LD50:284 mg/kg YKKZAJ 76,181,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. Used as a soporific. Average doses may produce dermatitis, eructations (belching), psychoses and central nervous system abnormalities. Overdoses can produce coma and death. Flammable liquid when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, mist, fog. When heated to decomposition it emits acrid smoke and fumes.

EQL500 CAS: 78-27-3 HR: 3
1-ETHYNYL-1-CYCLOHEXANOL

mf: $C_8H_{12}O$ mw: 124.20

PROP: Crystals. Mp: 30–31°, bp: 180°, vap d: 3.73.

SYNS: 1-ETHYNYLCYCLOHEXANOL □ 1-ETHYNYLCYCLOHEXAN-1-OL □ NSC-8194

TOXICITY DATA with REFERENCE:

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

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

ipr-mus LDLo:500 mg/kg CBCCT* 4,228,52

skn-rbt LD50:1000 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EQL550 CAS: 5240-32-4 HR: 3
1-ETHYNYLCYCLOHEXANOL ACETATE

mf: $C_{10}H_{14}O_2$ mw: 166.24

SYNS: CYCLOHEXANOL, 1-ETHYNYL-, ACETATE □ ENT 7068

□ 1-ETHYNYLCYCLOHEXYL ACETATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#05135

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.**EQL600 CAS: 562-94-7 HR: 1
1-ETHYNYLCYCLOHEXYL ALLOPHANATE**mf: C₁₀H₁₄N₂O₃ mw: 210.26

SYNS: 1-AETHINYLCYCLOHEXYL-ALLOPHANAT-(1) □ ALLOPHANIC ACID, 1-ETHYNYLCYCLOHEXYL ESTER □ CARBAMIC ACID, (AMINOCARBONYL)-, 1-ETHYNYLCYCLOHEXYL ESTER (9CI) □ CYCLOHEXANOL, 1-ETHYNYL-, ALLOPHANATE □ DOLCENTAL

TOXICITY DATA with REFERENCE:

orl-mus LD50:7500 mg/kg ARZNAD 4,477,1954

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**EQM500 CAS: 37270-71-6 HR: 3
ETHYNYLESTRADIOL mixed with
NORETHINDRONE**mf: C₂₀H₂₆O₂•C₂₀H₂₄O₂ mw: 594.90

SYNS: GYNOVLAR □ NORETHINDRONE mixed with ETHYNYLESTRADIOL □ NORETHISTERONE mixed with ETHYNYL OESTRADIOL (60:1) □ 19-NOR-17-α-PREGN-4-EN-20-YN-3-ONE, 17-HYDROXY-, mixed with 19-NOR-17-α-PREGNA-1,3,5(10)-TRIEN-2-ONE-3,17-DIOL (60:1)

TOXICITY DATA with REFERENCE:

oms-ctl:oth 17,410 µg/L AJOGAH 120,390,74

oms-dom:oth 17,410 µg/L AJOGAH 120,390,74

oms-mam:oth 10,100 µg/L AJOGAH 120,390,74

orl-wmn TDLo:138 mg/kg/9Y-I:CAR,LIV LANCAO 1,273,80

orl-wmn TD:138 mg/kg/9Y-I:CAR,LIV BMJOAE 4,496,75

orl-wmn TDLo:55 mg/kg/5Y-I:PUL,GIT,MET LANCAO 1,1479,73

SAFETY PROFILE: Human teratogenic effects by an unspecified route: developmental abnormalities of the urogenital system. Human systemic effects by ingestion: dyspnea, nausea or vomiting, and fever. Experimental reproductive effects. Questionable human carcinogen producing liver tumors. Mutation data reported. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes.**EQM600 CAS: 2028-63-9 HR: 3
1-ETHYNYLETHANOL**mf: C₄H₆O mw: 70.10

SYN: 1-BUTYN-3-OL

TOXICITY DATA with REFERENCE:

orl-mus LD50:30 mg/kg ARZNAD 7,85,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**EQN000 CAS: 18649-64-4 HR: 3****2-ETHYNYLFURAN**mf: C₆H₄O mw: 92.10**PROP:** A liquid. Bp: 105–106°.**SAFETY PROFILE:** Explodes on heating or on contact with concentrated nitric acid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.**EQN225 CAS: 99520-55-5 HR: 2
α-ETHYNYL-p-METHOXYBENZYL ALCOHOL
ACETATE**mf: C₁₂H₁₂O₃ mw: 204.24

SYN: 1'-ACETOXY-2',3'-DEHYDROESTRAGOLE

TOXICITY DATA with REFERENCE:

mmo-sat 150 nmol/plate CRNGDP 7,2089,86

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**EQN230 CAS: 127-66-2 HR: 2
α-ETHYNYL-α-METHYLBENZYL ALCOHOL**mf: C₁₀H₁₀O mw: 146.20

SYNS: 3-BUTYN-2-OL, 2-PHENYL- □ 3-PHENYL-BUTIN-1-OL- (3)

TOXICITY DATA with REFERENCE:

orl-mus LD50:620 mg/kg ARZNAD 4,477,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**EQN250 CAS: 54406-48-3 HR: 2
(RS)-(E)-1-ETHYNYL-2-METHYL-2-PENTENYL-
(1R)-cis,trans-CHRYSANTHEMATE**mf: C₁₈H₂₆O₂ mw: 274.44

SYNS: CYCLOPROPANECARBOXYLIC ACID, 2,2-DIMETHYL-3-(2-METHYL-1-PROPENYL)-, 1-ETHYNYL-2-METHYL-2-PENTENYL ESTER □ EMPENTHRIN □ d-EMPENTHRIN □ MA 108 □ S 2852 □ S 2852F □ S 2852 FORTE □ VAPORTHIN

TOXICITY DATA with REFERENCE:

orl-rat LD50:1680 mg/kg YKYUA6 37,717,86

ihl-rat LC50:>4610 mg/kg JTSCDR 17(Suppl 3),313,92

skn-rat LD50:5 g/kg YKYUA6 36,533,85

orl-mus LD50:>3500 mg/kg JTSCDR 17(Suppl 3),313,92

ihl-mus LC50:2300 mg/kg JTSCDR 17(Suppl 3),313,92

skn-mus LD50:>5 g/kg YKYUA6 37,717,86

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by inhalation and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.**EQN300 CAS: 37172-05-7 HR: 2
1-ETHYNYL-2-(1-METHYLPROPYL)CYCLOHEX-
YL ACETATE**mf: C₁₄H₂₂O₂ mw: 222.36

SYNS: AMBRATE □ CYCLOHEXANOL, 1-ETHYNYL-2-(1-METHYLPROPYL)-, ACETATE □ 1-ETHYNYL-2-(1-METHYLPROPYL)CYCLOHEXANOL ACETATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:680 mg/kg FCTOD7 30,3S,92

skn-rbt LD50:2 g/kg FCTOD7 30,3S,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

EQN320 CAS: 1045-29-0 HR: D
2-α-ETHYNYL-a-NOR-17-α-PREGN-20-YNE-2-β,17-β-DIOL

mf: C₂₂H₃₀O₂ mw: 326.52

SYNS: AF-45 □ 2-α-17-α-DIETHYL-A-NOR-5-α-ANDROSTANE-2-β,17-β-DIOL □ 2-ETHYNYL-A-NOR-5-α-17-α-PREGN-20-YNE-2-β,17-DIOL □ H241 □ A-NORANDROSTANE-2-α-17-α-DIETHYNYL-2-β,17-β-DIOL

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

EQN500 HR: 3

ETHYNYL VINYL SELENIDE

mf: C₄H₄Se mw: 131.04



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

OSHA PEL: TWA 0.2 mg(Se)/m³

ACGIH TLV: TWA 0.2 mg(Se)/m³

DFG MAK: 0.1 mg(Se)/m³

SAFETY PROFILE: Decomposes violently when heated. Upon decomposition it emits toxic fumes of Se. See also SELENIUM COMPOUNDS and ACETYLENE COMPOUNDS.

EQN600 CAS: 40054-69-1 HR: 2

ETIZOLAM

mf: C₁₇H₁₅ClN₄S mw: 342.87

PROP: Crystals from toluene. Mp: 144–146°.

SYNS: AHR 3219 □ 6-(o-CHLOROPHENYL)-8-ETHYL-1-METHYL-4H-sec-TRIAZOLO(3,4-c)THIENO(2,3-e)(1,4)-DIAZEPINE □ 6-(o-CHLOROPHENYL)-8-AETYL-1-METHYL-4H-sec-TRIAZOLO(3,4-c)THIENO(2,3-e)(1,4)DIAZEPIN (GERMAN) □ 4-(2-CHLOROPHENYL)-2-ETHYL-9-METHYL-6H-THIENO(3,2-f)(1,2,4)TRIAZOLO(4,3-a)(1,4)DIAZEPINE □ DEPAS □ Y-7131

TOXICITY DATA with REFERENCE:

orl-rat LD50:3509 mg/kg ARZNAD 28,1158,78

ipr-rat LD50:825 mg/kg OYYAA2 16,1021,78

orl-mus LD50:4258 mg/kg OYYAA2 16,1021,78

ipr-mus LD50:783 mg/kg OYYAA2 16,1021,78

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

EQN700 CAS: 32458-57-4 HR: 3

ETMA

mf: C₈H₂₀N₃S•Br•BrH mw: 351.20

SYNS: (2-(((ETHYLAMINO)IMINOMETHYL)THIO)ETHYL)TRIMETHYL AMMONIUM BROMIDE HYDROBROMIDE □ 2-(((ETHYLAMINO)IMINOMETHYL)THIO)-N,N,N-TRIMETHYLETHANAMINIUM BROMIDE, MONOHYDROBROMIDE □ S-(2-TRIMETHYLAMINOETHYL)-1'-ETHYLISOTHIURONIUM BROMIDE HYDROBROMIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:95 mg/kg CPBTAL 23,1639,75

scu-mus LD50:102 mg/kg CPBTAL 23,1639,75

ivn-mus LD50:81,800 µg/kg CPBTAL 23,1639,75

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x, NO_x, NH₃, and HBr.

EQN725 CAS: 80844-07-1 HR: 2

ETOFENPROX

mf: C₂₅H₂₈O₃ mw: 376.53

SYNS: BENZENE, 1-((2-(4-ETHOXYPHENYL)-2-METHYLPROPOXY)METHYL)-3-PHEN OXY- □ ETHOFENPROX □ ETHOPHENPROX □ 1-((2-(4-ETHOXYPHENYL)-2-METHYLPROPOXY)METHYL)-3-PHENOXOY BENZENE □ MTI 500 □ TREBON

TOXICITY DATA with REFERENCE:

orl-rat LD50:>42,800 mg/kg JPIFAN (48),23,86

ihl-rat LC50:>5900 mg/m³/4H NNGADV 15,505,89

skn-rat LD50:>2140 mg/kg JPIFAN (48),23,86

ipr-rat LD50:>42,880 mg/kg JPIFAN (48),23,86

scu-rat LD50:>32,160 mg/kg JPIFAN (48),23,86

orl-mus LD50:>107 g/kg JPIFAN (48),23,86

skn-mus LD50:>2140 mg/kg JPIFAN (48),23,86

ipr-mus LD50:>13,400 mg/kg JPIFAN (48),23,86

scu-mus LD50:>53,600 mg/kg JPIFAN (48),23,86

orl-dog LD50:>5 g/kg JPIFAN (48),23,86

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

EQN750 CAS: 2053-25-0 HR: 3

ETONITAZENE HYDROCHLORIDE

mf: C₂₂H₂₈N₄O₃•ClH mw: 433.00

SYNS: BENZIMIDAZOLE, 1-(2-DIETHYLAMINOETHYL)-2-(p-ETHOXYBENZYL)-5-NITRO-, HYDROCHLORIDE □ C 20684 □ 1-(2-DIETHYLAMINOETHYL)-2-(p-ETHOXYBENZYL)-5-NITROBENZIMIDAZOLE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

par-mus LD50:126 mg/kg JMCMA 11,889,68

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

EQ000 CAS: 57775-22-1 HR: 3

ETOPERIDONE

mf: C₁₉H₂₈ClN₅O•ClH mw: 414.43

SYNS: CLOPRADONE □ ST-1191 □ TRAZOLINONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:397 mg/kg ARZNAD 29,294,79

ipr-rat LD50:120 mg/kg ARZNAD 28,417,78

scu-rat LD50:543 mg/kg ARZNAD 29,294,79

ivn-rat LD50:62 mg/kg ARZNAD 28,417,78

orl-mus LD50:518 mg/kg ARZNAD 29,294,79

ipr-mus LD50:135 mg/kg ARZNAD 28,417,78

ivn-mus LD50:68 mg/kg ARZNAD 29,294,79

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

EQO450 CAS: 14521-96-1 HR: 3
7- α -ETORPHINE

mf: $\text{C}_{25}\text{H}_{33}\text{NO}_4$ mw: 411.59

PROP: Off-white prisms from 2-ethoxyethanol. Mp: 215–216°.

SYNS: 7,8-DIHYDRO-7- α -(1-(R)-HYDROXY-1-METHYLBUTYL)-O⁶-METHYL-6,14-endo-ETHENOMORPHINE \square 6,14-endo-ETHENOTETRAHYDROORIPAVINE, 7- α -(1-HYDROXY-1-METHYLBUTYL)- \square ETORPHINE \square (-)-ETORPHINE \square 7- α -(1-(R)-HYDROXY-1-METHYLBUTYL)-6,14-endo-ETHENOTETRAHYDROORIPAVINE \square ORIPAVINE, 6,14-endo-ETHYLENE-TETRAHYDRO-7-(1-HYDROXY-1-METHYLBUTYL)-(7CI) \square 19-PROPYLORVINOL \square TETRAHYDRO-7- α -(1-HYDROXY-1-METHYLBUTYL)-6,14-endo-ETHENOORIPAVINE \square TETRAHYDRO-7- α -(2-HYDROXY-2-PENTYL)-6,14-endo-ETHENOORIPAVINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg AGACBH 6,755,76

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

EQO500 CAS: 13764-49-3 HR: 3
ETORPHINE HYDROCHLORIDE

mf: $\text{C}_{25}\text{H}_{33}\text{NO}_4 \cdot \text{ClH}$ mw: 448.05

SYNS: 6,14-ENDOETHENO-7-(2-HYDROXY-2-PENTYL)-TETRAHYDRO-ORIPAVINE HYDROCHLORIDE \square 7- α -(1-(R)-HYDROXY-1-METHYLBUTYL)-6,14-ENDOETHENOTETRAHYDRO-ORIPAVINE HYDROCHLORIDE \square PROPYLORVINOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:72 mg/kg BJPCAL 30,11,67

scu-rat LD50:53 mg/kg BJPCAL 30,11,67

ivn-rat LD50:5300 $\mu\text{g}/\text{kg}$ BJPCAL 30,11,67

orl-mus LD50:1856 mg/kg BJPCAL 30,11,67

scu-mus LD50:425 mg/kg BJPCAL 30,11,67

ivn-mus LD50:80 mg/kg BJPCAL 30,11,67

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

EQP000 CAS: 29767-20-2 HR: 3
ETP

mf: $\text{C}_{32}\text{H}_{32}\text{O}_{13}\text{S}$ mw: 656.70

PROP: Crystals from EtOH. Mp: 242–246°.

SYNS: 4'-DEMETHYLEPIPODOPHYLLOTOXIN-9-(4,6-O-2-THENYLIDENE- β -D-GLUCOPYRANOSIDE) \square 4'-DEMETHYLEPIPODOPHYLLOTOXIN- β -D-THENYLIDENE-GLUCOSIDE \square 4'-DEMETHYL 1-O-(4,6-O-2-THENYLIDENE)- β -D-GLUCOPYRANOSYL)EPIPODOPHYLLOTOXIN \square EPT \square NSC-122819 \square PTG \square TENIPOSIDE \square VEHAM-SANDOZ \square VEHEM \square VM-26 \square VUMON

TOXICITY DATA with REFERENCE:

mmo-sat 100 $\mu\text{g}/\text{plate}$ TCMUD8 5,319,85

dnd-hmn:oth 500 nmol/L CNREA8 45,3106,85

cyt-hmn:lym 5 mg/L CRSBAW 179,331,85

dnd-mus/leu 50 $\mu\text{g}/\text{kg}$ CNREA8 40,4225,80dnd-mus:leu 2 $\mu\text{mol}/\text{L}$ CNREA8 44,3360,84

cyt-mus:lym 500 ng/L ENMUDM 8(Suppl 6),24,86

sce-ham:ovr 10 $\mu\text{g}/\text{L}$ CNREA8 43,577,83

orl-hmn TDLo:9579 mg/kg:CNS,GIT,SKN EJCAAH 14,1395,78

ivn-hmn TDLo:26 mg/kg/10D-I:BLD CANCAR

34,985,74

ivn-hmn TDLo:132 mg/kg/7W-I:GIT,BLD CTRRDO 63,7,79

ipr-mus LD17:50 mg/kg CTRRDO 60,1127,76

ipr-mus LD50:29,570 $\mu\text{g}/\text{kg}$ NCISP* JAN86scu-mus LD50:31,560 $\mu\text{g}/\text{kg}$ NCISP* JAN86

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. An experimental teratogen. Human systemic effects by ingestion and intravenous route: anorexia, nausea or vomiting, leukopenia, agranulocytosis and aplastic anemia of the blood, bone marrow changes, and hair changes. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x .

EQP100 HR: 3
E. TYPHOSA LIPOPOLYSACCHARIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:6 mg/kg PSEBAA 109,429,62

SAFETY PROFILE: Poison by intraperitoneal route. Experimental teratogenic and reproductive effects.

EQP500 CAS: 500-34-5 HR: 3
 β -EUCAININE

mf: $\text{C}_{15}\text{H}_{21}\text{NO}_2$ mw: 247.37

PROP: Plates from pet ether. Mp: 70–71°.

SYNS: EUCAINE B \square EUKAIN B \square TRIMETHYLBENZOL-OXYPIPERIDINE \square 2,2,6-TRIMETHYL-4-PIPERIDINOL BENZOATE (ESTER)

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:15 mg/kg PHREA7 12,190,32

ivn-mus LDLo:71 mg/kg WDMU** -,36

ivn-cat LDLo:10 mg/kg PHREA7 12,190,32

scu-rbt LDLo:400 mg/kg PHREA7 12,190,32

ipr-gpg LDLo:18 mg/kg PHREA7 12,190,32

scu-gpg LDLo:310 mg/kg PHREA7 12,190,32

ivn-gpg LDLo:30 mg/kg PHREA7 12,190,32

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

EQQ000 CAS: 8000-48-4 HR: 3
EUCALYPTUS OIL

PROP: From steam distillation of leaves of *Eucalyptus globulus* Labillardiere. Chief constituent is eucalyptol (FCTXAV 13,19,75). Colorless to pale-yellow liquid; spicy odor and taste. Composition: eucalyptol, aldehydes, d-pinene. Mp: -15.4° (approx), d: 0.905–0.925 @ $25^\circ/25^\circ$.

SYNS: DINKUM OIL \square EUKALYPTUS OEL (GERMAN) \square OIL OF EUCALYPTUS

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 13,91,75

orl-man LDLo:375 mg/kg:BAH,GIT,SKN ADCHAK 28,475,53

orl-chd TDL0:218 mg/kg:EYE,CNS,PUL ADCHAK
28,475,53

orl-rat LD50:2480 mg/kg FCTXAV 13,91,75

skn-rbt LD50:2480 mg/kg FCTOD7 26,323,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A human poison by ingestion. Moderately toxic by skin contact. Human systemic effects by ingestion: ciliary eye spasms, nausea or vomiting, respiratory depression, somnolence, sweating. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

**EQQ100 CAS: 1641-74-3 HR: 3
EUCAST**

mf: $C_{12}H_{18}N_2O_2 \cdot C_6H_8O_7$ mw: 414.46

SYNS: 53-11 C □ EUCLIDAN □ NICAMETATE CITRATE □ NICAMETATE DIHYDROGEN CITRATE □ PROVASAN □ SOCLIDAN

TOXICITY DATA with REFERENCE:

orl-rat LD50:8400 mg/kg NIIRDN 6,542,82

scu-rat LD50:3600 mg/kg NIIRDN 6,542,82

ivn-rat LD50:327 mg/kg NIIRDN 6,542,82

orl-mus LD50:11,900 mg/kg NIIRDN 6,542,82

scu-mus LD50:2600 mg/kg NIIRDN 6,542,82

ivn-mus LD50:316 mg/kg NIIRDN 6,542,82

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x . See also ESTERS.

**EQQ500 CAS: 18984-80-0 HR: 3
EUCUPIN DIHYDROCHLORIDE**

mf: $C_{24}H_{32}N_2O_2 \cdot 2ClH$ mw: 453.50

SYNS: EUCUPIN DIHYDROCHLORIDE □ ISOAMYL HYDROCUPREINE DIHYDROCHLORIDE □ 4-((1-METHOXYBUTOXY)(5-VINYL-2-QUINUCLIDINYL)METHYL)-6-QUINOLINOL DIHYDROCHLORIDE □ OTODYNE

TOXICITY DATA with REFERENCE:

scu-rat LDLo:800 mg/kg CLDND* 11,257,20

orl-cat LDLo:25 mg/kg ZGEMAZ 11,257,20

scu-cat LDLo:50 mg/kg ZGEMAZ 11,257,20

ivn-cat LDLo:6820 µg/kg ZGEMAZ 11,257,20

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

**EQR000 CAS: 28399-17-9 HR: 3
EUDESMA-3,11(13)-DIEN-12-OIC ACID**

mf: $C_{15}H_{22}O_2$ mw: 234.37

SYN: 12-CARBOXYEUDESMA-3,11(13)-DIENE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1000 mg/kg JMCMA 13,1221,70

ipr-mus LD50:200 mg/kg JMCMA 13,1221,70

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

**EQR500 CAS: 97-53-0 HR: 2
EUGENOL**

mf: $C_{10}H_{12}O_2$ mw: 164.22

PROP: Colorless or yellowish liquid or oil; pungent, clove odor. D: 1.064–1.070, refr index: 1.540, fp: -9° , bp: 248° , flash p: $219^\circ F$. Sol in alc, chloroform, ether, volatile oils; very sltly sol in water.

SYNS: 4-ALLYLGUAICOL □ 4-ALLYL-1-HYDROXY-2-METHOXYBENZENE □ 4-ALLYL-2-METHOXYPHENOL □ CARYOPHYLLIC ACID □ EUGENIC ACID □ Fa 100 □ FEMA No. 2467 □ 1-HYDROXY-2-METHOXY-4-ALLYLBENZENE □ 4-HYDROXY-3-METHOXYALLYLBENZENE □ 1-HYDROXY-2-METHOXY-4-PROP-2-ENYLBENZENE □ 2-METHOXY-4-ALLYLPHENOL □ 2-METHOXY-4-PROP-2-ENYLPHENOL □ 2-METHOXY-4-(2-PROPENYL)PHENOL □ 2-METOKSY-4-ALLILOFENOL (POLISH) □ NCI-C50453 □ SYNTHETIC EUGENOL

TOXICITY DATA with REFERENCE:

skn-hmn 40 mg/48H MLD FCTXAV 13,545,75

skn-man 16 mg/48H MOD CTOIDG 94(8),41,79

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

skn-pig 50 mg/48H MLD CTOIDG 94(8),41,79

mma-sat 50 µg/plate NTIS** AD-A116-715

oms-ham:ovr 400 mg/L CALEDQ 14,251,81

cyt-ham:fbr 125 mg/L FCTOD7 22,623,84

cyt-ham:ovr 400 mg/L CALEDQ 14,251,81

orl-rat LD50:1930 mg/kg PSEBAA 73,148,50

ipr-rat LDLo:800 mg/kg RMSRA6 16,449,1896

scu-rat LDLo:5000 mg/kg RMSRA6 16,449,1896

orl-mus LD50:3000 mg/kg FCTXAV 2,327,64

ipr-mus LD50:500 mg/kg COREAF 250,1148,60

orl-dog LDLo:500 mg/kg GASTAB 15,481,50

orl-gpg LD50:2130 mg/kg FCTXAV 2,327,64

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 36,75,85. NTP Carcinogenesis Studies (feed); Equivocal Evidence: mouse NTPTR* NTP-TR-223,83; No Evidence: rat NTPTR* NTP-TR-223,83. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. Human mutation data reported. A human skin irritant. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALLYL COMPOUNDS.

**EQS000 CAS: 93-28-7 HR: 2
EUGENOL ACETATE**

mf: $C_{12}H_{14}O_3$ mw: 206.26

PROP: Solid or pale-yellow liquid or plates from alc; mild clove odor. D: 1.87, mp: $30-31^\circ$, bp: 281.2° , flash p: $151^\circ F$. Insol in water; sol in alc and ether.

SYNS: ACETEUGENOL □ 1-ACETOXY-2-METHOXY-4-ALLYLBENZENE □ ACETYLEUGENOL □ 4-ALLYL-2-METHOXYPHENOL ACETATE □ 1,3,4-EUGENOL ACETATE □ EUGENYL ACETATE □ FEMA No. 2469

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,807,74

orl-rat LD50:1670 mg/kg FCTXAV 2,327,64

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 EUGENOL, ALLYL COMPOUNDS, and ESTERS.

**EQS100 CAS: 10031-96-6 HR: 2
EUGENOL FORMATE**

mf: $C_{11}H_{12}O_3$ mw: 192.23

SYNS: 4-ALLYL-2-METHOXYPHENOL FORMATE □ EUGENYL FORMATE □ PHENOL, 4-ALLYL-2-METHOXY-, FORMATE (ester) □ 4-(2-PROPENYL)-2-METHOXYPHENYL FORMATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 20,689,82

orl-rat LD50:3400 mg/kg FCTOD7 20,689,82

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

**EQS500 CAS: 534-76-9 HR: 3
EULICIN**

mf: $C_{24}H_{52}N_8O_2$ mw: 484.84

SYNS: 9-((AMINOIMINOMETHYL)AMINO)-N-(10-((AMINOIMINOMETHYL)AMINO)-1-(3-AMINOPROPYL)-20-HYDROXYDECYL)NONANAMIDE □ N-(1-(3-AMINOPROPYL)-10-GUANIDINO-2-HYDROXYDECYL)-9-GUANIDINONONANAMIDE □ N-METHOXY-N-METHYLNONANAMIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:17 mg/kg 85ERAY 2,1142,78

scu-mus LD50:46 mg/kg 85ERAY 2,1142,78

ivn-mus LD50:3 mg/kg 85ERAY 2,1142,78

ims-mus LD50:12 mg/kg 85ERAY 2,1142,78

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

**EQT000 CAS: 1403-51-6 HR: 3
EUMYCETIN**

PROP: An antifungal antibiotic produced by the strain *Streptomyces sp.* 108 (85RAY 2,1126,78).

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1200 µg/kg 85ERAY 2,1126,78

scu-mus LD50:3 mg/kg JAJAAA 7,165,54

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

**EQT100 CAS: 6856-01-5 HR: 3
EUPATORIOPICRIN**

mf: $C_{20}H_{26}O_6$ mw: 362.46

SYNS: EUPATORIOPICRINE □ GERMACRA-1(10),4,11(13)-TRIEN-12-OIC ACID, 6-β,8-α-DIHYDROXY-, 12,6-LACTONE, 4-HYDROXY-2-(HYDROXYMETHYL)CROTONATE

TOXICITY DATA with REFERENCE:

dnd-hmn-hla 1150 nmol/L BCPCA6 30,3005,81

dnd-hmn ast 10 µg/L BCPCA6 38,2279,89

ipr-mus LDLo:30 mg/kg PLMEAA 53,318,87

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

**EQT500 HR: 2
EUPHORBIA ABYSSINICA LATEX**

PROP: Acetone soluble portion of *Euphorbia abyssinica* latex.

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

**EQU000 HR: 2
EUPHORBIA CANARIENSIS LATEX**

PROP: Acetone soluble fraction of latex from *Euphorbia canariensis*.

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

**EQU500 HR: 2
EUPHORBIA CANDELABRIUM LATEX**

PROP: Acetone soluble portion of latex from *Euphorbia candelabrum*.

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

**EQV000 HR: 2
EUPHORBIA ESULA LATEX**

PROP: Acetone soluble portion of latex from *Euphorbia esula*.

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

**EQV500 HR: 2
EUPHORBIA GRANDIDENS LATEX**

PROP: Acetone soluble fraction of latex from *Euphorbia grandides*.

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

**EQW000 HR: 2
EUPHORBIA LATHYRIS LATEX**

PROP: Oil from the seeds of *Euphorbia lathyris*.

SYN: CAPER SPURGE

TOXICITY DATA with REFERENCE:

skn-mus 13 µg MLD CNREA8 28,2338,68

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

**EQW500 HR: 2
EUPHORBIA OBOVALIFOLIA LATEX**

PROP: Acetone soluble portion of latex from *Euphorbia obovalifolia*.

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

**EQX000 HR: 1
EUPHORBIA PULCHERRIMA WILLD.**

PROP: The plant contains sterols and latex that have 7–15% caoutchouc.

SYNS: ANNUAL POINSETTIA □ CHRISTMAS FLOWER □ EASTER FLOWER □ EUPHORBIA POINSETTIS BUIST □ MEXICA FLAME LEAF □ MEXICAN FLAME TREE □ MEXICAN FLOWER PLANT □ POINSETTIA □ POINSETTIA PULCHERRIMA GRAH

TOXICITY DATA with REFERENCE:

skn-rbt 11,200 mg/14D MOD CTOXAO 13,27,78

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

EQX500 HR: 2
EUPHORBIA SERRATA LATEX

PROP: Acetone soluble fraction of latex from *Euphorbia serrata*.

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

EQY000 HR: 2
EUPHORBIA TIRUCALLI LATEX

PROP: Acetone soluble portion of *Euphorbia tirucalli* latex. Contains all biological activity.

SYN: BLEISTIFTBAUMS (GERMAN)

TOXICITY DATA with REFERENCE:

skn-mus 26 ng MLD PLMEAA 22,241,72

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

EQY100 CAS: 93348-17-5 HR: 2
EUPHORBIA TIRUCALLI L., EXTRACT

SYN: SHER, EXTRACT

TOXICITY DATA with REFERENCE:

ipr-rat LD :>30 g/kg JTEHD6 1,939,1976

ipr-mus LD50:1 g/kg CPBTAL 13,882,1965

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

EQY500 HR: 2
EUPHORIA WULFENII LATEX

PROP: Acetone soluble portion of latex from *Euphorbia wulfenii*.

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

EQY600 CAS: 32665-36-4 HR: 3
EUPNERON

mf: C₂₂H₃₀N₂O₂ mw: 354.54

SYNS: EPROZINOL □ 4-(2-METHOXY-2-PHENYLETHYL)-α-PHENYL-1-PIPERAZINEPROPANOL (9CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:640 mg/kg OYYAA2 19,503,80

ipr-rat LD50:72 mg/kg OYYAA2 19,503,80

ims-rat LD50:140 mg/kg OYYAA2 19,503,80

orl-mus LD50:350 mg/kg OYYAA2 19,503,80

ipr-mus LD50:103 mg/kg OYYAA2 19,503,80

ims-mus LD50:122 mg/kg OYYAA2 19,503,80

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

EQZ000 CAS: 53198-87-1 HR: 3
EURAZYL

mf: C₁₉H₂₈N₂•ClH mw: 320.95

PROP: Crystals from EtOH/Et₂O. Mp: 200–203°.

SYNS: α-sec-BUTYL-α-PHENYL-1-PIPERIDINEBUTYRONITRILE HYDROCHLORIDE □ α-PHENYL-α-(2-PIPERIDINOETHYL)-β-ETHYLBUTYRIC ACID NITRILE HYDROCHLORIDE □ α-PHENYL-α-(2-PIPERIDINOETHYL)-β-ETHYLBUTYRONITRILE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:700 mg/kg JAPMA8 49,298,60

ivn-dog LDLo:64 mg/kg JAPMA8 49,298,60

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by intravenous route.

Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of HCl, NO_x, and CN⁻. See also NITRILES.

ERA100 HR: 3
EUROPEAN MISTLETOE

PROP: A parasitic plant that grows mostly on the trunks of deciduous trees such as the apple. The thick leaves are usually a pale yellow-green. The white berry is sticky. It is native to Europe and now grows in Sonoma County, California.

SYN: VISCUM ALBUM

SAFETY PROFILE: The leaves and stems contain the poisonous viscumin and viscotoxins, toxalbumins that inhibit protein synthesis. The berries may be edible. Ingestion of the leaves causes after a few hours: abdominal pain, diarrhea and possibly necrotic lesions throughout the gastroenteric tract. See also VISCOTOXIN and ABRIN.

ERA309 HR: 3
EUROPEAN SPINDLE TREE

PROP: A small tree native to Europe and now cultivated in the northern United States. It has tooth-edged leaves, yellow-green flowers and a pink seed capsule.

SYN: EUONYMUS EUROPAEUS

SAFETY PROFILE: The plant contains the poison evomonoside, a digitalis-like cardiac glycoside, several alkaloids including evonine, and a protein that inhibits protein synthesis. Ingestion of the fruit has caused (within 12 hours) diarrhea, vomiting, fever, hallucinations, sleepiness, coma and convulsions. Cardiac glycosides may cause death by their effect on heart function. See also DIGITALIS.

ERA500 CAS: 10025-76-0 HR: 3
EUROPIUM CHLORIDE

mf: Cl₃Eu mw: 258.31

PROP: Hygroscopic yellow needles. Mp: 623°.

SYN: EUROPIC CHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:3527 mg/kg EQSSDX 1,1,75

ipr-mus LD50:387 mg/kg AEHLAU 5,437,62

ipr-gpg LD50:156 mg/kg AEHLAU 5,437,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Cl^- . See also RARE EARTHS.**ERB000 CAS: 13240-06-7 HR: 3****EUROPIUM CITRATE****TOXICITY DATA with REFERENCE:**

ipr-mus LD50:187 mg/kg AEHLAU 5,437,62

ipr-gpg LD50:72 mg/kg AEHLAU 5,437,62

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits acid smoke and irritating fumes. See also RARE EARTHS.**ERB500 CAS: 15158-64-2 HR: 3****EUROPIUM EDETATE****TOXICITY DATA with REFERENCE:**

ipr-mus LD50:240 mg/kg AEHLAU 5,437,62

ipr-gpg LD50:118 mg/kg AEHLAU 5,437,62

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating fumes. See also RARE EARTHS.**ERC000 CAS: 10031-53-5 HR: 3****EUROPIUM(III) NITRATE, HEXAHYDRATE (1:3:6)**mf: $\text{N}_3\text{O}_9 \cdot \text{Eu} \cdot 6\text{H}_2\text{O}$ mw: 446.11**SYN:** NITRIC ACID, EUROPIUM(3+) SALT, HEXAHYDRATE**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:210 mg/kg TXAPA9 5,750,63

ipr-mus LD50:320 mg/kg TXAPA9 5,750,63

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x . See also NITRATES and RARE EARTHS.**ERC500 CAS: 12020-65-4 HR: 3****EUROPIUM(II) SULFIDE**mf: EuS mw: 184.02**PROP:** Black powder (golden hue by reflected light).**SAFETY PROFILE:** Ignites or explodes spontaneously in air. When heated to decomposition it emits toxic fumes of SO_x . See also RARE EARTHS and SULFIDES.**ERC550 CAS: 10138-01-9 HR: 3****EUROPIUM TRINITRATE**mf: $\text{Eu}(\text{NO}_3)_3$ mw: 421.98**SYN:** EUROPIUM NITRATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:3828 mg/kg EQSSDX 1,1,75

ipr-rat LD50:162 mg/kg EQSSDX 1,1,75

ipr-mus LD50:245 mg/kg EQSSDX 1,1,75

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x . See also NITRATES and RARE EARTHS.**ERC600 CAS: 62851-59-6 HR: 3****EUROTIN (A)****SYN:** YUROTIN A**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:3 mg/kg 85FZAT -,281,67

scu-mus LD50:6 mg/kg 85FZAT -,281,67

ivn-mus LD50:3 mg/kg 85FZAT -,281,67

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes.**ERC700 CAS: 204442-82-0 HR: 1****EVE CARBAMATE**mf: $\text{C}_9\text{H}_4\text{F}_{13}\text{NO}_4$ mw: 437.14**SYN:** 1-PROPANOL, 3-(1-(DIFLUORO(2,2,2,2-TETRAFLUOROETHYNYLOXY)METHYL)-1,2,2,2-TETRAFLUOROETHOXY)-2, 2,3,3-TETRAFLUORO-, CARBAMATE**TOXICITY DATA with REFERENCE:**skn-rbt 500 μL /4H MLD IJTOFN 19,361,2000eye-rbt 10 μL MOD IJTOFN 19,361,2000orl-rat LD >11 g/kg IJTOFN 19,361,2000**SAFETY PROFILE:** Low toxicity by ingestion. A mild skin and moderate eye irritant. When heated to decomposition it emits toxic vapors of NO_x and F^- .**ERC800 CAS: 39340-46-0 HR: 3****EVERNINOMICIN-D**mf: $\text{C}_{66}\text{H}_{99}\text{Cl}_2\text{NO}_{35}$ mw: 1537.56**PROP:** Amorphous solid.**TOXICITY DATA with REFERENCE:**

ims-rat LD50:400 mg/kg 85ERAY 1,208,78

orl-mus LD50:3750 mg/kg 85ERAY 1,208,78

ipr-mus LD50:3750 mg/kg 85ERAY 1,208,78

scu-mus LD50:3750 mg/kg 85ERAY 1,208,78

ivn-mus LD50:125 mg/kg 85ERAY 1,208,78

ims-dog LD50:140 mg/kg 85ERAY 1,208,78

ims-rbt LD50:300 mg/kg 85ERAY 1,208,78

SAFETY PROFILE: Poison by intramuscular and intravenous routes. Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x .**ERD000 CAS: 53296-30-3 HR: 2****EVERNINOMYCIN-B**mf: $\text{C}_{66}\text{H}_{99}\text{Cl}_2\text{NO}_{36}$ mw: 1553.56**PROP:** A solid. Mp: 184–185°.**SYN:** R-451-B**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:880 mg/kg 85GDA2 1,354,80

scu-mus LD50:1700 mg/kg 85GDA2 1,354,80

ivn-mus LD50:875 mg/kg 85GDA2 1,354,80

SAFETY PROFILE: Moderately toxic by intraperitoneal, subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of Cl^- and NO_x .**ERD500 CAS: 56-29-1 HR: 3****EVIPAL**mf: $\text{C}_{12}\text{H}_{16}\text{N}_2\text{O}_3$ mw: 236.30**PROP:** Prisms. Mp: 145–147°.**SYNS:** BARBIDORM \square CITODON \square CITOPAN \square 5-(1-CYCLOHEXEN-1-YL)-1,5-DIMETHYLBARBITURIC ACID \square 5-(1-CYCLOHEXEN-1-YL)-1,5-DIMETHYL-2,4,6(1H,3H,5H)-

PYRIMIDINETRIONE □ 5-(1-CYCLOHEXENYL-1)-1-METHYL-5-METHYLBARBITURIC ACID □ 5-(Δ-1,2-CYCLOHEXENYL)-5-METHYL-N-METHYL-BARBITURSAEURE (GERMAN) □ CYCLONAL □ CYCLOPAN □ 1,5-DIMETHYL-5-(1-CYCLOHEXENYL)BARBITURIC ACID □ DORICO □ ENHEXYMAL □ ESOBARBITALE (ITALIAN) □ EVIPAN □ HEXABARBITAL □ HEXANASTAB ORAL □ HEXENAL □ HEXENAL (barbiturate) □ HEXOBARBITAL □ HEXOBARBITONE □ METHEXENYL □ N-METHYL-5-CYCLOHEXENYL-5-METHYLBARBITURIC ACID □ METHYLHEXABARBITAL □ METHYLHEXABITAL □ NARCOSAN □ NOCTOVANE □ SOMBUCAPS □ SOMBULEX □ SOMNALERT

TOXICITY DATA with REFERENCE:

cyt-hmn:leu 1500 mg/L TGANAK 18(1),13,84
 ipr-rat LD50:330 mg/kg AIPTAK 184,5,70
 scu-rat LDLo:400 mg/kg AEPPAE 182,348,36
 orl-mus LD50:468 mg/kg JPETAB 106,444,52
 ipr-mus LD50:270 mg/kg TXAPA9 5,790,63
 scu-mus LD50:250 mg/kg ARZNAD 15,688,65
 ivn-mus LD50:133 mg/kg AIPTAK 163,11,66
 ipl-mus LDLo:340 mg/kg JPETAB 134,95,61
 orl-rbt LDLo:1200 mg/kg JPETAB 60,189,37
 ivn-rbt LDLo:80 mg/kg JPETAB 60,189,37
 rec-rbt LDLo:175 mg/kg JPETAB 60,189,37
 ipr-frg LDLo:30 mg/kg PHREA7 19,472,39

SAFETY PROFILE: Poison by subcutaneous, intraperitoneal, intravenous, intrapleural, and rectal routes. Moderately toxic by ingestion. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also BARBITURATES.

ERE000 CAS: 50-09-9 HR: 3 EVIPAL SODIUM

mf: C₁₂H₁₅N₂O₃•Na mw: 258.28

PROP: Hygroscopic powder. Very sol in H₂O.

SYNS: trans-2-BUTENOIC ACID □ 5-(1-CYCLOHEXEN-1-YL)-1,5-DIMETHYLBARBITURIC ACID SODIUM SALT □ 5-(1-CYCLOHEXEN-1-YL)-1,5-DIMETHYL-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE MONOSODIUM SALT □ 5-(1-CYCLOHEXEN-1-YL)-1,5-DIMETHYL-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE SODIUM SALT (9CI) □ CYCLONAL SODIUM □ 1,5-DIMETHYL-5-CYCLOHEXENYL-1'-BARBITURIC ACID, SODIUM SALT □ DORICO SOLUBLE □ ENHEXYMAL □ ENHEXYMAL NFN □ EVIPAN SODIUM □ HEXANAL □ HEXANASTAB □ HEXENAL SODIUM □ HEXOBARBITAL Na □ HEXOBARBITAL SODIUM □ HEXOBARBITONE Na □ HEXOBARBITONE SODIUM □ METHEXENYL SODIUM □ NARCOSAN SOLUBLE □ NOCTIVANE SODIUM □ PRIVENAL □ SODIUM-5-(1-CYCLOHEXEN-1-YL)-1,5-DIMETHYLBARBITURATE □ SODIUM EVIPAL □ SODIUM EVIPAN □ SODIUM HEXABARBITAL □ SODIUM HEXOBARBITONE □ SODIUM-N-METHYL CYCLOHEXENYLMETHYBARBITURATE □ SODIUM METHYLHEXABITAL □ SODIUM METHYLHEXABITOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:468 mg/kg MEIEDD 10,680,83
 ipr-rat LDLo:160 mg/kg JPETAB 50,347,34
 orl-mus LD50:1325 mg/kg TXAPA9 27,70,74
 ipr-mus LD50:270 mg/kg JPETAB 87,265,46
 scu-mus LD50:410 mg/kg TXAPA9 27,70,74
 ivn-mus LD50:145 mg/kg TXAPA9 23,537,72
 ivn-dog LDLo:85 mg/kg JPETAB 60,125,37
 par-frg LDLo:30 mg/kg JPETAB 50,347,34

SAFETY PROFILE: Poison by intraperitoneal, parenteral, and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. Used intravenously as a general anesthetic. When heated to decomposition it emits toxic fumes of NO_x and Na₂O. See also EVIPAL and BARBITURATES.

ERE100 CAS: 59333-90-3 HR: 3 EXAPROLOL HYDROCHLORIDE

mf: C₁₈H₂₉NO₂•ClH mw: 327.94

PROP: Crystals from EtOH or MeOH/Et₂O. Mp: 178–179°.

SYNS: 1-(2-(1-CYCLOHEXEN-1-YL)PHENOXY)-3-((1-METHYLETHYL)AMINO)-2-PROPANOL HYDROCHLORIDE □ 1-ISOPROPYLAMINO-3-(2-CYCLOHEXYLPHENOXY)-2-PROPANOL HYDROCHLORIDE □ M.G. 8823

TOXICITY DATA with REFERENCE:

orl-rat LD50:1850 mg/kg ARZNAD 26,506,76
 ipr-rat LD50:54 mg/kg ARZNAD 26,506,76
 orl-mus LD50:860 mg/kg ARZNAD 26,506,76
 ipr-mus LD50:78 mg/kg ARZNAD 26,506,76

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

ERE125 CAS: 104559-06-0 HR: 2 EXELL

TOXICITY DATA with REFERENCE:

orl-rat LD50:447 mg/kg DCTODJ 19,279,1996

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

ERE150 CAS: 517-66-8 HR: D EXIMINE

mf: C₂₀H₂₁NO₄ mw: 339.42

SYNS: 6A-α-APORPHINE, 9,10-DIMETHOXY-1,2-(METHYLENEDIOXY)- □ DICENTRINE □ (+)-DICENTRINE □ d-DICENTRINE □ o,N-DIMETHYLLITSEFERINE

TOXICITY DATA with REFERENCE:

mic-sat 20 μLg/plate MUREAV 240,267,1990

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

ERE200 CAS: 3478-44-2 HR: 2 EXIPROBEN SODIUM

mf: C₁₆H₂₃O₅•Na mw: 318.38

PROP: A solid. Mp: 147°.

SYNS: DCH 21 □ DROCTIL □ 3-HEXOXY-1-(2'-CARBOXY-PHENOXY)-PROPANOL-(2) SODIUM SALT □ o-(3-(HEXYLOXY)-2-HYDROXYPROPOXY)BENZOIC ACID MONOSODIUM SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:2150 mg/kg ARZNAD 24,111,74
 ipr-rat LD50:645 mg/kg ARZNAD 24,111,74
 orl-mus LD50:1660 mg/kg ARZNAD 24,111,74
 ipr-mus LD50:650 mg/kg ARZNAD 24,111,74

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

ERF000 HR: 3

EXPLOSIVES, HIGH

SAFETY PROFILE: High explosives (HE) are those that decompose by detonation. This is a very rapid (nearly instantaneous), and hence violent, process. An explosion may be initiated by sudden shock, high temperatures, or a combination of the two. The conditions under which many explosives will explode are well known.

An explosion may be initiated by elevated temperature alone, as in the following cases.

- (1) Mercury fulminate by 15-second exposure to 200°C or 1-second exposure to 340°C will be set off.
- (2) Trinitrotoluene will be set off by exposure to 500°C for 1 second.
- (3) Tetryl will detonate in 1000 seconds at 160°C or in 0.1 second at 500°C.
- (4) Picric acid will detonate in 9 seconds at 300°C or 1 second at 355°C.

An explosion of HE may also be initiated by severe shock. Sensitivity of explosives to shock may be measured in several ways, such as the impact pendulum method and the drop test. In the impact pendulum test, a heavy pendulum swings down over a sample of explosive in a dished, inclined container so arranged that there is very little clearance between the pendulum and the sample. Thus, the effect of contact between the sample and the pendulum bob is one of a combination of shock and rubbing. The height from which the pendulum is allowed to swing to explode the sample is a measure of the sensitivity of the sample to this test. The drop test consists of placing a sample upon an anvil and allowing a 5-pound weight to drop on it. The height from which the weight must drop to explode the sample is a measure of the sample's sensitivity to shock.

The table below shows the results of a drop test upon several samples. These results must be considered as relative and not by any means absolute. A solid explosive in a tightly fitting container is much more sensitive to shock.

- (1) mercury fulminate = 2 in. at 5 lbs.
- (2) nitroglycerin = 4 in. at 5 lbs.
- (3) tetryl = 8 in. at 5 lbs.
- (4) picric acid = 14 in. at 5 lbs.
- (5) trinitrotoluene = 20 in. at 5 lbs.
- (6) black powder (a low explosive) = 30 in. at 5 lbs.*

*From *Explosions, Their Anatomy and Destructiveness*, by C. S. Robinson (McGraw-Hill).

Another test for explosives is the speed at which a detonation travels. This speed is usually in the range of thousands of m/sec. Speed of detonation is found to be a function of the kind of explosive and state of compaction. There is an optimum state of compaction beyond which the explosive tends to become "deadpressed," in which state it is difficult to make the whole sample explode. Below the point of optimum compaction the rate of detonation is found to be directly proportional to the density of the sample. Some maximum detonation rates are listed below in m/sec for some common explosives:

- (1) nitroglycerin, 8500
- (2) PETN, 8100
- (3) tetryl, 7700
- (4) picric acid, 7400
- (5) trinitrotoluene, 7400
- (6) lead azide, 4900

- (7) mercury fulminate, 4800
- (8) ammonium nitrate, 1100
- (9) low explosives, 1000

It has been found that upon detonation, an explosive can cause a nearby sample of explosive to detonate "sympathetically." The distance over which one charge can detonate another is a function of the amount of energy produced by the first explosion and the medium through which the shock wave is propagated to the second charge of explosive. For instance, the relationship for air (very approximately) would be expected to be: weight of explosive in lbs/(distance in ft)³ = 4. Thus, to calculate the maximum distance for a possible sympathetic detonation of 40,000 lbs of explosive, the calculation is:

$$D^3 = (40,000)/4$$

$$D^3 = 10,000$$

$$D = 22 \text{ ft (approximately).}$$

According to C. S. Robinson, the formula is more nearly:

$$\text{weight of explosive} = 4 \times (\text{distance})^{2.25}$$

The power of the shock wave is much more rapidly attenuated in water, wood, etc., than in air, which means that if a shield of water or wood is interposed between piles of explosive the distance between them may be lessened.

Liquid Oxygen: Though not itself explosive, liquid oxygen can be dangerous when blended with highly flammable or carbonaceous materials. In this combination it is used in coal mining, quarrying, strip mining, open-cut ore mining, and in rocket fuels. Its use underground or in confined places is not recommended by the U.S. Bureau of Mines because it evolves a great deal of carbon monoxide. This type of explosive has many safety advantages. For instance, it is not itself an explosive until mixed with a flammable absorbent, a process that can be done at the last moment before firing. However, once the explosive has been made up, it is very flammable and when it catches fire it will usually detonate. Liquid oxygen explosives are not stored, as they deteriorate rapidly and lose a great deal of their explosive power in a short time.

A very dangerous fire hazard when exposed to heat or by chemical reaction with powerful oxidizing or reducing agents.

A moderate to dangerous explosion hazard when severely shocked or heated, depending upon the kind of explosive, state of compaction, degree of confinement, etc. Practically all high explosives used commercially require a detonator or cap to set them off, as compared to an igniter needed to set off black blasting powder.

Detonating Devices: To develop the desired disruptive effect of an explosive, some means must be adopted to "set off," "fire," or "detonate" it without killing or maiming the persons doing the blasting. Several devices or methods are being utilized, all with a view to having this work done as safely and efficiently as possible. There are two general types of devices or methods of getting explosives into action, namely, igniters and detonators. The former merely conveys a flame to the explosive mass and ignites it, while the latter transmits (originally through ignition of a small quantity of highly explosive substance by an arc, a flame, or a spark) a sharp blow that causes the explosive to disassociate, or detonate, or burn with very great rapidity. Igniters include squibs (plain and electric),

fuse, and delay igniters; detonators include blasting caps (plain and electric), delay electric blasting caps, delay electric igniters with caps, and Cordeau-Bickford detonating fuse.

The squib is a small-diameter tube of straw or paper filled with quick-burning powder and having a relatively slow-burning "match head" attached to one end; the latter is ignited or lighted by an ordinary match or other flame, and its relatively slow burning allows the person handling the ignition to retire before the fire is communicated to the quick-burning material in the tube. Squibs are by no means either safe or efficient, even though still used to a considerable extent, especially in coal mining. Electric squibs are somewhat similar to ordinary squibs, except that the ignition is accomplished by means of an electric arc; electric squibs are much more satisfactory from a safety viewpoint than ordinary squibs.

A fuse (or, as it is sometimes called, "safety fuse") consists of a fine-grained black powder core covered with cotton hemp or jute to form a ropelike material about 3/16 inch in diameter; one end of the fuse is brought in contact with the powder charge or with a detonating "cap," and the other end (usually several feet away from the explosive) is lighted by a flame from a match or open light. The fine-grained black powder burns gradually and somewhat slowly (about 30 to 40 seconds to the linear foot of fuse) until it reaches the explosive (black powder) or the detonating cap (if some form of dynamite is used), giving the blaster time to get in the clear before the main explosion takes place. Fuses are much safer than squibs, but have their own hazards and must be used with care.

Delay electric igniters usually are a combination of electric igniters and fuses, the latter being ignited by the igniters within the blasting hole, the fuse transmitting the ignition to the explosive. Delay igniters usually are much safer than fuses, particularly for coal-mine use; but they, too, have their hazards. Delay blasting is by no means a safe procedure in coal mining, though it is a standard and relatively safe practice in metal mining and tunneling, if sensible precautions are taken.

Blasting caps or detonators are metallic cylinders (usually copper) closed at one end, about 3/16 inch in diameter, and usually less than 2 inches in length, partly filled with a small amount of relatively easily fired or "detonated" compound, the resultant shock or blow when fired being sufficient, when embedded in dynamite, to fire or detonate the dynamite mass. Ordinary blasting caps usually are fired or detonated by the flame of the fuse, the end of the latter being inserted into the open end of the detonator or cap and placed in contact with the highly explosive material in the interior of the metallic capsule or cap. Caps are extremely hazardous to handle, as they are likely to be detonated by heat, friction, or a relatively moderate blow; however, they are relatively safe if handled carefully. Partial proof of this is the fact that they are manufactured and shipped by the thousands daily and accidents are decidedly rare, primarily because the caps are at all times handled with utmost care.

Electric blasting caps are somewhat similar to ordinary caps or detonators, but the cap is fired by electricity. The electric wires are so placed in the capsule or cap that when attached to an electric current an arc is formed within the cap, which detonates the sensitive explosive material in

the cap. A hazard in the use of electric blasting caps is unexpected explosions due to radio or radar-induced electric currents that may activate the cap.

Delay electric blasting caps or detonators are somewhat similar to ordinary electric blasting caps, except that several time intervals in blasting are obtained by having the electric arc ignite a short piece of fuse or some slow-burning substance before it reaches the highly sensitive detonating material in the capsule or cap. Numerous time-interval delays are obtained; in general, delay electric blasting caps are relatively safe and effective even in wet holes, though they ought not be used in coal mining if explosions of gas or dust are to be avoided. Delay electric igniters with caps or detonators are a combination of electric igniter and blasting cap, usually with suitable lengths of fuse between to give the desired delay; they have some advantages but are relatively unsafe and should not be used in coal mining.

The Cordeau-Bickford denoting fuse is a combined fuse and detonator in the form of a lead tube about 1/4 inch in diameter filled throughout its length with a high explosive, trinitrotoluene (TNT). It is fired by a fuse and an ordinary detonator or cap or by an electric cap; when fired, it detonates throughout its length (which may be up to or over 100 feet) almost instantaneously, the explosion wave traveling at a rate of about 17,500 ft/sec. Although somewhat expensive, it is relatively safe to handle and is particularly effective in deep-well drill holes in quarry and similar work, as it detonates simultaneously throughout its length, adding effectiveness to the main body of explosive that it detonates. It fires black powder as well as high explosives (dynamite, etc.), and is obtainable in lengths of approximately 500 feet wound on spools.

See also EXPLOSIVES, PERMITTED; DYNAMITE, NITROGLYCERIN, AMMONIUM NITRATE, and NITRATES.

ERF500 EXPLOSIVES, LOW

HR: 3

DOT: UN 0027/UN 0028

PROP: Black powder is composed of saltpeter, charcoal and sulfur in the approximate proportions of 6:1:1. ("A" blasting powder uses KNO_3 and "B" blasting powder uses NaNO_3 .)

SYNS: "A" BLASTING POWDER ☐ "B" BLASTING POWDER ☐ BLACK BLASTING POWDER ☐ BLACK POWDER, compressed (DOT) ☐ BLACK POWDER, granular or as a meal (UN 0027) (DOT) ☐ BLACK POWDER, in pellets (UN 0028) (DOT) ☐ BLASTING POWDER ☐ GUNPOWDER ☐ GUNPOWDER, compressed (UN 0028) (DOT) ☐ GUNPOWDER, granular or as a meal (UN 0027) (DOT) ☐ GUNPOWDER, in pellets (UN 0028) (DOT) ☐ RIFLE POWDER

DOT CLASSIFICATION: EXPLOSIVE 1.1D; Label: EXPLOSIVE 1.1D

SAFETY PROFILE: Low explosives are explosives that deflagrate; this differentiates them both in composition and properties from high explosives, which detonate. A deflagrating explosive is one that burns progressively over a relatively sustained period of time, in contrast with a detonating explosive, which decomposes almost instantaneously. A dangerous fire hazard when exposed to heat or flame or by chemical reaction.

Black powder is the most treacherous explosive material used today and it is regarded as one of the worst explosive hazards known. When ignited unconfined it burns with explosive violence and will explode if ignited under even slight confinement. It can be ignited easily by very small sparks, heat, and friction. It is the slowest acting of all explosives. It has a shearing and heaving action tending to blast materials into large, firm fragments. The action derives from a relatively slow development of gas pressure so that it must be carefully loaded and closely confined. It is subject to rapid deterioration in the presence of moisture, but if kept dry it retains its explosive properties for many years. It is used to ignite smokeless powder, propelling charges, airplane flares, and bursting charges of hand grenades, as a bursting charge in shrapnel, practice bombs, practice trench-mortar shells, in saluting charges, smoke-puff charges, time and percussion fuses, pellets, primers and primer detonators, and in expelling charges of pyrotechnic signals.

Although most safety experts now look upon black blasting powder with disfavor, it is one of the oldest and most generally used explosives in commercial work. It burns with extreme rapidity instead of detonating as high explosives do. It is highly sensitive to flame, sparks, or friction and gives off much flame, which is hot and of great length of duration. These properties make it extremely hazardous for use in mines (especially coal mines) and quarries. The gases given off in detonation are not only very hot but frequently contain harmful constituents. Notwithstanding its numerous deficiencies, from a safety standpoint it has action characteristics that make it valuable in both coal mining and quarrying, though it has relatively little utility in metal mining. It is difficult to use effectively in wet places and this is its main disadvantage from an efficiency standpoint.

Most black powder fires start from sparks. Ignition results in an explosion so quickly that no attempt can be made to fight the fire. Every effort should be made to prevent fires from reaching stores of black powder; but if this fails, fire-fighting forces should be withdrawn to a distance of at least 800 feet from the fire and should protect themselves against an explosion by seeking any cover available or by lying flat on the ground. If an explosion does occur, every effort should be made to prevent flames from spreading to neighboring magazines. Fire-fighting forces should be cautioned against approaching a fire that may involve black powder to avoid being trapped or injured by an explosion.

The following safety rules should be strictly enforced and obeyed. Open no containers in a magazine in which explosives or ammunitions are stored. This should be done only in a building free from all other explosives or ammunitions, or in suitable weather in the open, at least 100 feet from the nearest magazine. The quantity at or near such an operation should be limited to 100 pounds. Only safety tools should be used in opening or closing containers or in other operations involving black powder. Processes should be so laid out as to bring about frequent grounding of all operators handling this material. Safety shoes (non-insulating) should be worn in all rooms where black powder is handled and by all persons engaged in handling black powder. The wearing of all nonconductive shoes, such as rubber, is prohibited. If black powder is

handled on or over a concrete floor, the floor should be covered with a tarpaulin or other suitable material. Loose black powder is extremely dangerous. Whenever it is necessary to handle loose black powder, not over 50 pounds should be permitted at or near such operations. If black powder is spilled on benches or floors, all work should be stopped until it has been removed and the explosive hazard of any remaining dust or particles has been neutralized with water. Rooms or buildings in which black powder is handled should be inspected frequently for dust, and all such dust should be immediately removed with water. The empty powder containers should be washed out, as explosions are said to have occurred from "empty" containers.

If dry and in good condition, black powder burns rapidly, especially in small grain size, with a yellow or pinkish-blue flame and dense smoke.

Pellet powder is black blasting powder in consolidated (pellet or stick) form rather than in grains or granules, and it has few if any real advantages over black blasting powder, notwithstanding the fairly prevalent idea that it is a "safe" explosive.

Smokeless powders have a composition somewhat different from that of black blasting powder and are used chiefly for sportsmen's ammunition and, more widely, for military purposes. They are decidedly sensitive to flame and impact but ordinarily are so packaged that if reasonable judgment is used they are relatively harmless.

ERG000 EXPLOSIVES, PERMITTED

HR: 3

SAFETY PROFILE: "Permissible" explosives are essentially high explosives (dynamite) modified by the introduction of "dopes." The function of the dopes in general is to decrease flame temperature, and to a smaller extent, the length and duration of flame, when the explosive is converted from a solid into a gas, i.e., when it is fired or detonated. The designation "permissible" is given to an explosive of modified dynamite type after it has passed certain tests designated by the Federal Bureau of Mines. The permissible character of such explosives depends not only upon the ingredients in the explosive, but also on certain well-defined specifications as to handling and use. As with the dynamites, there are several different types and grades: "permissibles," hydrated "permissibles," organic nitrate "permissibles," nitroglycerin "permissibles," ammonium perchlorate "permissibles," and gelatin "permissibles." Essentially all of those now used to any extent are in either the ammonium nitrate or the gelatin classes. See also DYNAMITE.

The ammonium nitrate "permissible" explosives contain relatively little nitroglycerin and relatively large proportions of ammonium nitrate. The latter is an explosive but one less sensitive to impact, sparks, and flames than nitroglycerin. This type of permissible explosive is now used extensively, as it has a rather wide range of strength, rate of detonation, density, size of cartridge, etc., and can be utilized not only in dry but also to some extent in fairly wet holes if charged carefully and fired promptly.

Gelatin “permissible” explosives are more suitable than ammonium nitrate “permissible” ones for wet holes, and in general are stronger and more violent than the ammonium nitrate types.

All “permissible” explosives are strong, and must be used in relatively small quantities (less than 1.5 pounds) per hole to retain their permissibility. They give off considerable quantities of toxic gases on detonation, and, while much safer than black blasting powder or dynamite, must be stored, handled, and used with care.

Classification upon Basis of Toxic Gases: All “permissible” explosives, when detonated, emit some toxic gases and a much larger volume of nontoxic gases. In order that the toxic products may not become a menace to the life or health of miners, no explosive is now or can become “permissible” if upon detonation it evolves more than 158 liters (5.5 cu ft) of toxic gases per 1.5-pound charge as determined by tests in the Bichel pressure gauge. Classification upon the basis of the volume of toxic gases produced by 580 g (1.5-pounds) of explosive is as follows: *Class A*, not more than 53 liters; *Class B*, between 53 and 106 liters; and *Class C*, between 106 and 158 liters. (These classifications are not to be confused with the I.C.C. Classification of explosives.)

Field tests were made with a 1.5 pound charge of a “permissible” explosive that produced, in the Bichel gauge, the maximum allowable quantity of poisonous gases (158 liters per 1.5 pounds); these tests indicated that in a narrow entry, without artificial ventilation, 1800 ppm of carbon monoxide (the only poisonous gas present) was produced, as shown by analysis of an air sample taken 2 minutes after the shot. Another sample of the air taken 2 minutes later contained 800 ppm of carbon monoxide. Under no conditions should miners or shot firers return to the place until the poisonous gases have been removed by adequate ventilation.

It is provided further that, in accordance with the provisions and conditions, explosives enumerated on the “permissible” lists of the Bureau of Mines are “permissible” in use only when they satisfy the following requirements:

1. The explosive must be in all respects similar to the sample submitted by the manufacturer for test, and the diameters of the cartridges used must be those that have been approved.

2. Electric detonators (not fuse and detonators) must be used of not less efficiency than No. 6, the detonation charge of which shall consist of a 1 g mixture of 80 parts of mercury fulminate and 20 parts of potassium chlorate (or their equivalents), and the required electric firing must be done by means of a “permissible” type blasting unit.

3. The explosive must be stored in surface magazines under proper conditions, so that it will not undergo change in character, and after being taken underground it must be used in less than 36 hours.

4. The coal to be blasted must be undercut or equivalently relieved; to prevent blow-through, all portions of the borehole must be at least 18 inches from relief in any direction; to prevent blowouts, the charge must be properly confined with not less than 2 feet of clay (if the length of the hole will not permit the charge desired and 2 feet of stemming, at least half the length of the hole shall

be filled with stemming) or other incombustible stemming and not be on the solid; to prevent the hole being on the solid it shall be at least 6 inches shorter than the depth of the undercut or equivalent relief, and, when placed adjacent to the roofs, ribs, or floor, all but 12 inches at the rear of the hole must be at least 6 inches from the adjacent surface as projected into the coal to be blasted, and all parts of the hole shall be free from the adjacent surface as projected into the coal to be blasted; the shot must not be a dependent shot; and the shot hole must be cleaned before charging.

5. The quantity used for a shot (1) must not be in excess of 680 g (1.5 pounds) when fired in accordance with these requirements and (2) when used under certain additional requirements or restrictions must not be in excess of 1361 g (3 pounds). For charges of over 1.5 pounds, the following additional requirements must be observed: (a) shot holes must be 6 feet or more in length; (b) explosives must be charged in a continuous train, with no cartridges deliberately deformed or crushed, with all cartridges in contact with each other, and with the end cartridges touching the rear of the hole and the stemming, respectively; (c) examination for gas must be made in the blasting area before and after a shot is fired; (d) the “permissible” explosive must be one showing toxic gas emission that will place it either in Class A or Class B.

6. The region in which the blasting is done must be kept well protected by rock dust or otherwise be in accordance with Bureau of Mines inspection standards.

7. The shot must not be fired in the presence of a dangerous percentage of firedamp. Examination for firedamp is to be made at the blasting area before shooting in a gassy mine.

See also AMMONIUM NITRATE, AZIDES, DYNAMITE, FULMINATES, NITRATES, NITROGLYCERIN, PENTAERYTHRITOL TETRANITRATE, and PICRIC ACID.

ERG100 CAS: 3486-30-4 HR: 2
EXT D and C BLUE No. 3

mf: $C_{37}H_{36}N_2O_6S_2 \cdot Na$ mw: 691.86

SYNS: ACID BLUE O ☐ ACID SKY BLUE O ☐ ACID TURQUOISE BLUE A ☐ AIZEN BRILLIANT ACID BLUE AFH ☐ ALPHAZURINE A (6CI) ☐ BENZENEMETHANAMINIUM, N-(4-((2,4-DISULFOPHENYL)(4-(ETHYL(PHENYLMETHYL)AMINO)-PHENYL)METHYLENE)-2, 5-CYCLOHEXADIEN-1-YLIDENE)-N-ETHYL-, HYDROXIDE, inner salt, SODIUM SALT ☐ BLEKIT TURKUSOWY A ☐ BRILLIANT ACID BLUE AS ☐ BRILLIANT ACID BLUE N EXTRA ☐ BUCACID PATENT BLUE AF ☐ CALCOCID BLUE AX ☐ CARMINE BLUE AF ☐ C.I. 42080 ☐ C.I. ACID BLUE 7 (7CI) ☐ C.I. ACID BLUE 7, SODIUM SALT (8CI) ☐ D and C BLUE No. 3 ☐ DISULPHINE BLUE AN ☐ DISULPHINE LAKE BLUE AN ☐ ERIO GLAUCINE X ☐ ERIO GLAUCINE XS ☐ FENAZO BLUEXG ☐ HIDACID BLUE A ☐ HIDACID BLUE AF ☐ KAYACYL PURE BLUE FGA ☐ KITON BLUE A ☐ LAKE BLUE AFX ☐ MERANTINE BLUE AF ☐ PATENT BLUE A ☐ PATENT BLUE AF ☐ PONTACYL BRILLIANT BLUE A ☐ SANDOLAN TURQUOISE E-AS ☐ SHIMAZAKI PATENT BLUE AFX ☐ TERTRACID CARMINE BLUE A ☐ VULCOL BLUE BZ ☐ XYLENE BLUE AS

TOXICITY DATA with REFERENCE:

mma-sat 100 µg/plate MUREAV 147,285,85
mnt-mus-ipr 38 mg/kg BCTKAG 18,280,85

1744 *ERG100 EXT D and C BLUE No. 3*

dlt-mus-ipr 220 mg/kg MUREAV 147,285,85

ipr-mus LD50:437 mg/kg BCTKAG 18,280,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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