P

PAB000 **HR: 3**
P 271
mf: $C_{17}H_{36}N_2$•2Br mw: 428.37
PROP: Pale-yellow oil. D: 1.26 @ 25°/4°, mp: 6°, bp: 375°. Insol in H_2O, pet ether.
SYNS: 1,5-PENTAMETHYLEN-BIS-N-AETHYLPYRROLIDINIUM)DIBROMID (GERMAN) □ 1,1'-PENTAMETHYLENEBIS(1-ETHYL-PYRROLIDINIUM DIBROMIDE)
TOXICITY DATA with REFERENCE:
orl-mus LD50:510 mg/kg AEPPAE 232,219,57
scu-mus LD50:31 mg/kg AEPPAE 232,219,57
ivn-mus LD50:18,250 µg/kg AEPPAE 232,219,57
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Br^- and NO_x.

PAB250 **CAS: 492-08-0** **HR: 3**
PACHYCARPINE
mf: $C_{15}H_{26}N_2$ mw: 234.43
PROP: Bp: 173−174° @ 8 mm. Isolated from *Sophora pachicarpa* (32ZCAI -,175,67).
SYNS: d-SPARTEINE □ SPARTEINE, d-ISOMER
TOXICITY DATA with REFERENCE:
scu-mus LD50:90 mg/kg FATOAO 21(5),46,58
ivn-mus LD50:26 mg/kg 32ZCAI -,175,67
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

PAB500 **CAS: 23668-11-3** **HR: 3**
PACTAMYCIN
mf: $C_{28}H_{38}N_4O_8$ mw: 558.70
PROP: Amorphous powder. Sol in ethanol, chloroform, methylene chloride, benzene, ether. Unstable in solution.
SYNS: NSC-52947 □ U-15800
TOXICITY DATA with REFERENCE:
mmo-eug 150 mg/L NEOLA4 19,579,72
dni-eug 150 mg/L NEOLA4 19,579,72
dni-rat-ipr 6 mg/kg RCOCB8 11,311,75
ivn-rat LD50:1400 µg/kg 85ERAY 2,1420,78
orl-mus LD50:10 mg/kg UPJOH* 2(6),-,71
ipr-mus LD50:32 mg/kg CNCRA6 30,9,63
ivn-mus LD50:16 mg/kg 85ERAY 2,1420,78
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PAB750 **CAS: 4630-95-9** **HR: 3**
PADRIN
mf: $C_{22}H_{28}N$•Br mw: 386.42
PROP: Crystals. Mp: 216−218°.
SYNS: 1,1-DIETHYL-2-METHYL-3-DIPHENYLMETHYLENE-PYRROLIDINIUM BROMIDE □ 3-(DIPHENYLMETHYLENE)-1,1-DIETHYL-2-METHYLPYRROLIDINIUM BROMIDE □ 3-(DIPHENYLMETHYLENE)-1-ETHYL-2-METHYLPYRROLIDINE ETHYL BROMIDE
TOXICITY DATA with REFERENCE:
scu-mus TDLo:120 mg/kg (female 7-12D post):TER ARZNAD 22,706,72
orl-rat TDLo:120 mg/kg (7-12D preg):REP ARZNAD 22,706,72
orl-rat LD50:1090 mg/kg ARZNAD 22,706,72
ipr-rat LD50:46 mg/kg ARZNAD 22,706,72
scu-rat LD50:170 mg/kg ARZNAD 22,706,72
orl-mus LD50:310 mg/kg ARZNAD 22,706,72
ipr-mus LD50:40 mg/kg ARZNAD 22,706,72
scu-mus LD50:30 mg/kg ARZNAD 22,706,72
ivn-mus LD50:11 mg/kg ARZNAD 22,706,72
orl-dog LD50:327 mg/kg ARZNAD 22,706,72
scu-dog LD50:88 mg/kg ARZNAD 22,706,72
ivn-dog LD50:18 mg/kg ARZNAD 22,706,72
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x and Br^-. See also BROMIDES.

PAC000 **CAS: 23180-57-6** **HR: 2**
PAEONIFLORIN
mf: $C_{23}H_{28}O_{11}$ mw:480.51
PROP: Amorphous solid. Chief component of herb paeony root which is used in Chinese medicine (YKKZAJ 89(7),879,69).
SYNS: PAEONIA MOUTAN □ PAEONY ROOT
TOXICITY DATA with REFERENCE:
ipr-mus LD50:9530 mg/kg YKKZAJ 89,879,69
ivn-mus LD50:3530 mg/kg YKKZAJ 89,879,69
SAFETY PROFILE: Moderately toxic by intravenous route. Mildly toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating fumes.

PAC250 **CAS: 552-41-0** **HR: 3**
PAEONOL
mf: $C_9H_{10}O_3$ mw:166.19
PROP: Needles from EtOH. Mp: 52−53°. Main component of the root bark of paeony (*paeonia moutan*) (YKKZAJ 89,1205,69).
TOXICITY DATA with REFERENCE:
orl-mus LD50:3430 mg/kg YKKZAJ 89,1205,69
ipr-mus LD50:781 mg/kg YKKZAJ 89,1205,69
ivn-mus LD50:196 mg/kg YKKZAJ 89,1205,69
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes.

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

PAC500 CAS: 62229-70-3 HR: 2
PALANILCARRIER A
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV 28ZPAK -,289,72
eye-rbt 50 µg/24H SEV 28ZPAK -,289,72
orl-rat LD50:1650 mg/kg 28ZPAK -,289,72
ipr-rat LD50:1010 mg/kg MEPAAX 20,519,69
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A severe skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

PAC600 CAS: 11052-79-2 HR: 3
PALASONIN, PIPERAZINE SALT (1:1)
mf: $C_{16}H_{22}O_6$•$C_4H_{10}N_2$ mw: 396.54
TOXICITY DATA with REFERENCE:
orl-rat LD50:100 mg/kg IJMRAQ 56,1818,68
scu-mus LD50:20 mg/kg IJMRAQ 56,1818,68
SAFETY PROFILE: A poison by ingestion and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x.

PAD250 CAS: 7440-05-3 HR: 2
PALLADIUM
af: Pd aw: 106.4
PROP: A steely-white, stable metal; can be annealed to be soft and ductile. Resists corrosion. Dissolves in oxidizing acids (HNO_3 + Cl, conc H_2SO_4 at 3°). No reaction with hot H_3PO_4, NaN_3. Dissolves anodically in warm acidic solns. Mp: 1555°, bp: 3167°, d: 12.02 @ 20°/4. Volatile at high temps. Sol in conc HNO_3, HCl/Cl_2.
SAFETY PROFILE: May be a skin sensitizer. This metal in the form of palladium chloride has been administered orally in dosage of about 1 grain daily without apparent ill effects in the treatment of tuberculosis. In the laboratory, palladium appears to bind to many cell components; blocks the action of a number of enzymes and interferes with the use of energy by nerves and muscles; induces lung malfunction and produces abnormal fetuses. Lethal intravenous doses cause appetite loss, hemolysis, renal deposition, and bone marrow damage. Poorly absorbed by the body when ingested. Palladium dust can be a fire and explosion hazard. Combustible in the form of dust when exposed to heat or flame. Explosive reaction with hydrogen + hydrogen peroxide. Reaction with formic acid or sodium tetrahydroborate releases explosive hydrogen gas. Violent reaction with isopropyl alcohol, OF_2S. Under the proper conditions it undergoes hazardous reactions with aluminum, arsenic, carbon, methanol, ozonides, sulfur.

PAD300 CAS: 3375-31-3 HR: 2
PALLADIUM(II) ACETATE
mf: $C_4H_8O_4$•Pd mw: 226.52
PROP: Brown needles. Slowly decomposes in alcohol solutions.
SYNS: ACETIC ACID PALLADIUM SALT ◻ ACETIC ACID, PALLADIUM(2+) SALT ◻ BIS(ACETATO)PALLADIUM ◻ BISACETYLPALLADIUM ◻ DIACETATOPALLADIUM ◻ DIACETOXYPALLADIUM ◻ PALLADIUM(2+) ACETATE ◻ PALLADIUM ACETATE ($Pd(OAc)_2$) (7CI) ◻ PALLADIUM DIACETATE ◻ PALLADOUS ACETATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:2100 mg/kg GISAAA 51(12),88,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of palladium.

PAD500 CAS: 7647-10-1 HR: 3
PALLADIUM(2+) CHLORIDE
mf: Cl_2Pd mw: 177.30
PROP: Dark brown, deliq crystals. D: 4.0 @ 18°, mp: 678−680° (decomp). Sol in water, alc, acetone, and hydrochloric acid.
SYNS: NCI-C60184 ◻ PALLADIUM CHLORIDE ◻ PALLADOUS CHLORIDE
TOXICITY DATA with REFERENCE:
skn-rbt 100 mg/24H MLD AEHLAU 30,168,75
dni-hmn:lym 600 µmol/L IAAAAM 79,83,86
orl-mus TDLo:880 mg/kg/75W-C:CAR JONUAI 101,1431,71
orl-rat LD50:2704 mg/kg GTPZAB 21(7),55,77
ipr-rat LD50:70 mg/kg EVHPAZ 10,63,75
ivn-rat LD50:3 mg/kg EVHPAZ 10,63,75
itr-rat LD50:6 mg/kg EVHPAZ 10,63,75
ipr-mus LD50:174 mg/kg COREAF 256,1043,63
ivn-rbt LDLo:18,600 µg/kg MEIEDD 10,1003,83
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intraperitoneal, intravenous, and intratracheal routes. Moderately toxic by ingestion. Experimental reproductive effects. A skin irritant. Questionable carcinogen with experimental carcinogenic data. Human mutation data reported. When heated to decomposition it emits highly toxic fumes of Cl^-. See also PALLADIUM.

PAD750 HR: 3
PALLADIUM CHLORIDE, DIHYDRIDE
mf: Cl_2Pd•$2H_2O$ mw: 213.34
PROP: Dark brown crystals. Sol in water, alc, acetone.
TOXICITY DATA with REFERENCE:
orl-rat LD50:576 mg/kg EVHPAZ 10,95,75
ipr-rat LD50:85 mg/kg EVHPAZ 10,95,75
ivn-rbt LDLo:18 mg/kg EQSSDX 1,1,75
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Used in photography, electroplating, and in the manufacture of indelible ink. When heated to decomposition it emits toxic fumes of Cl^-. See also PALLADIUM(2+) CHLORIDE.

PAE000 CAS: 8014-19-5 HR: 1
PALMAROSA OIL
PROP: From steam distillation of the grass *Cymbopogon Martini* Stapf. Var. Motia, mainly *Geraniol* (FCTXAV

12,807,74). Yellow oily liquid. D: 0.879–0.892, refr index: 1.473 @ 20°. Sol in fixed oils, propylene glycol, mineral oil; insol in glycerin.
SYNS: GERANIUM OIL, EAST INDIAN TYPE □ GERANIUM OIL, TURKISH TYPE □ OIL of PALMAROSA
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 12,947,74
orl-rat LD50:>5 g/kg FCTXAV 12,947,74
skn-rbt LD50:>5 g/kg FCTXAV 12,947,74
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.

PAE100 CAS: 131-04-4 HR: D
PALMATINIUM HYDROXIDE
mf: $C_{21}H_{22}NO_4$•HO mw: 369.45
SYNS: CALYSTIGINE □ DIBENZO(a,g)QUINOLIZINIUM, 5,6-DIHYDRO-2,3,9,10-TETRAMETHOXY-, HYDROXIDE □ 5,6-DIHYDRO-2,3,9,10-TETRAMETHOXYDIBENZO(a,g)QUINOLIZINIUM HYDROXIDE □ PALMATINE HYDROXIDE □ 7,8,13,13a-TETRADEHYDRO-2,3,9,10-TETRAMETHOXYBERBINIUM HYDROXIDE
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PAE240 HR: D
PALMITAMIDE
PROP: Semisynthetic compound derived from palm oil.
SYN: PALMITIC ACID AMIDE
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

PAE250 CAS: 57-10-3 HR: 3
PALMITIC ACID
mf: $C_{17}H_{32}O_2$ mw: 256.48
PROP: Colorless plates or white crystalline powder; slt characteristic odor and taste. D: 0.849 @ 70°/4°, mp: 63–64°, bp: 271.5° @ 100 mm. Insol in water; very sltly sol in pet ether; sol in abs ether, chloroform.
SYNS: CETYLIC ACID □ EMERSOL 140 □ EMERSOL 143 □ HEXADECANOIC ACID □ n-HEXADECOIC ACID □ HEXADECYLIC ACID □ HYDROFOL □ HYSTRENE 8016 □ INDUSTRENE 4516 □ 1-PENTADECANECARBOXYLIC ACID
TOXICITY DATA with REFERENCE:
skn-hmn 75 mg/3D-I MLD 85DKA8 -,127,77
imp-mus TDLo:1000 mg/kg:NEO CNREA8 26,105,66
ivn-mus LD50:57 mg/kg APTOA6 18,141,61
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by intravenous route. A human skin irritant. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

PAE260 CAS: 31088-06-9 HR: 3
PALMITOYL CYTARABINE
mf: $C_{25}H_{43}N_3O_6$ mw: 481.71
SYNS: ARABINOSYL CYTOSINE PALMITATE □ ARACYTIDINE 5'-PALMITATE □ CYTOSINE, 1-β-d-ARABINOFURANOSYL-, 5'-PALMITATE □ PALMITIC ACID, 5'-ESTER WITH 1-β-d-ARABINOFURANOSYLCYTOSINE □ PALM O-ARA-C □ 2(1H)-PYRIMIDINONE,4-AMINO-1-(5-o-(1-OXOHEXADECYL)-β-d-ARABINOFURANOSYL)-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:155 mg/kg NCISP* JAN1986
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

PAE275 HR: D
PALM KERNEL OIL (UNHYDROGENATED)
PROP: From the kernal of the fruit of the oil palm *Elaeis guineensis*. A fatty solid; characteristic sweet nutty flavor.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

PAE500 CAS: 8002-75-3 HR: D
PALM OIL
PROP: Liquid.
SYNS: OILS, PALM □ PALM BUTTER
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

PAE300 HR: D
PALM OIL (UNHYDROGENATED)
PROP: From the pulp of the fruit of the oil palm *Elaeis guineensis*. A deep orange-red fatty semisolid @ 21–27°; characteristic sweet nutty flavor.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

PAE600 HR: 3
PALUDRINE DIHYDROCHLORIDE
mf: $C_{11}H_{16}ClN_5$•2ClH mw: 326.69
SYN: 1-(p-CHLOROPHENYL)-5-ISOPROPYLBIGUANIDE DIHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:257 mg/kg JPETAB 90,233,47
orl-mus LD50:30 mg/kg JPETAB 90,233,47
ims-mus LD50:26 mg/kg JPETAB 90,233,47
ims-dog LDLo:205 mg/kg JPETAB 90,233,47
ims-mky LDLo:205 mg/kg JPETAB 90,233,47
SAFETY PROFILE: Poison by ingestion and intramuscular routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

PAE750 CAS: 12174-11-7 HR: 3
PALYGORSCITE
PROP: White or gray monoclinic or orthorhombic crystals.
SYNS: ACTIVATED ATTAPULGITE □ ATTACLAY □ ATTACLAY X 250 □ ATTACOTE □ ATTAGEL □ ATTAGEL 40 □ ATTAGEL 50 □ ATTAGEL 150 □ ATTAPULGITE □ ATTASORB □ DILUEX □ MIN-U-GEL 200 □ MIN-U-GEL 400 □ MIN-U-GEL FG □ PALYGORSKIT (GERMAN) □ PERMAGEL □

PHARMASORB-COLLOIDAL □ RVM-FG □ 200U/P-RVM □ X 250 □ ZEOGEL

TOXICITY DATA with REFERENCE:
ihl-rat TCLo:10 mg/m^3/6H/13W-I:ETA BJIMAG 44,749,87

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,117,87; Animal Limited Evidence IMEMDT 42,159,87; Human Inadequate Evidence IMEMDT 42,159,87.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

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

PAE875 CAS: 58718-68-6 HR: 3
PALYTHOATOXIN

SYN: PTX

TOXICITY DATA with REFERENCE:
ipr-mus LDLo:600 ng/kg 35FUAR 2,379,76
ivn-mus LDLo:530 ng/kg 35FUAR 2,379,76
ivn-cat LDLo:200 ng/kg 35FUAR 2,379,76

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

PAF000 CAS: 11077-03-5 HR: 3
PALYTOXIN

mf: $C_{120}H_{200}N_4O_{52}$ mw: 2531.24

PROP: Isolated from the zoanthids "Limu-make-o-Hana" (SCIEAS 172,495,71).

TOXICITY DATA with REFERENCE:
skn-rbt 250 ng/4M MOD TOXIA6 12,427,74
eye-rbt 300 mg/24H SEV TOXIA6 12,427,74
ipr-rat LD50:710 ng/kg TXAPA9 34,214,75
scu-rat LD50:400 ng/kg TXAPA9 34,214,75
ivn-rat LD50:89 ng/kg TXAPA9 34,214,75
ims-rat LD50:240 ng/kg TXAPA9 34,214,75
par-rat LDLo:25 ng/kg 34TRAD -,311,76
itr-rat LD50:360 ng/kg TXAPA9 34,214,75
ipr-mus LD50:50 mg/kg PWPSA8 17,294,74
ivn-dog LD50:33 ng/kg TXAPA9 34,214,75
par-dog LDLo:50 ng/kg 34TRAD -,311,76
ivn-mky LD50:78 ng/kg TXAPA9 34,214,75

SAFETY PROFILE: A deadly poison by intraperitoneal, parenteral, subcutaneous, intravenous, intramuscular, and intratracheal routes. A skin and severe eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

PAF100 CAS: 130-85-8 HR: 3
PAMOIC ACID

mf: $C_{23}H_{16}O_6$ mw: 388.39

PROP: Crystals from dil pyridine. Decomp above 280° without melting. Practically insoluble in water, alc, ether, benzene, acetic acid; sparingly sol in chloroform; sol in nitrobenzene, pyridine.

SYNS: EMBONIC ACID □ 4,4'-METHYLENEBIS(3-HYDROXY-2-NAPHTHOIC ACID)

TOXICITY DATA with REFERENCE:
eye-rbt 100 mg MOD FCTOD7 20,573,82
eye-rbt 100 mg/45 rns MLD FCTOD7 20,573,82
ipr-mus LD50:390 mg/kg EJMCA5 13,381,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. An eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

PAF250 CAS: 19562-30-2 HR: 3
PANACID

mf: $C_{14}H_{16}N_4O_3$ mw: 288.34

PROP: Crystals from EtOH/$CHCl_3$. Mp: 314−316°.

SYNS: BACTRAMYL □ 5,8-DIHYDRO-8-ETHYL-5-OXO-2 (1-PYRROLIDINYL) PYRIDO(2,3-D)PYRIMIDINE-6-CARBOXYLIC ACID □ PD 93 □ PIRODAL □ PIROMIDIC ACID □ REELON □ SEPTURAL

TOXICITY DATA with REFERENCE:
ipr-mus LD50:900 mg/kg 37ASAA 2,782,78
scu-mus LD50:200 mg/kg 37ASAA 2,782,78
ivn-mus LD50:100 mg/kg 37ASAA 2,782,78
skn-rbt LD50:1500 mg/kg 37ASAA 2,782,78

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by skin contact and intraperitoneal routes. An antibacterial agent. When heated to decomposition it emits toxic fumes of NO_x.

PAF450 CAS: 41753-43-9 HR: 3
PANAX SAPONIN E

mf: $C_{54}H_{92}O_{23}$ mw: 1109.46

PROP: Powder. Mp: 197−198°.

SYNS: GINSENOSIDE RB1 □ PSEUDOGINSENOSIDE D □ SANCHINOSIDE E1

TOXICITY DATA with REFERENCE:
oms-rat-ipr 50 mg/kg CPBTAL 24,2400,76
ipr-mus LD50:1110 mg/kg ARZNAD 25,343,75
ivn-mus LD50:243 mg/kg SYHJAM 10,61,79

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

PAF500 CAS: 804-36-4 HR: 3
PANAZONE

mf: $C_{14}H_{12}N_6O_6$ mw: 360.32

PROP: Blackish-violet crystals from EtOH. Mp: 217° (decomp).

SYNS: 1,5-BIS(5-NITRO-2-FURANYL)-1,4-PENTADIEN-3-ONE, (AMINOIMINOMETHYL)HYDRAZONE □ BIS(5-NITROFURFURYLIDENE)ACETONE GUANYLHYDRAZONE □ sym-BIS(5-NITRO-2-FURFURYLIDENE) ACETONE GUANYLHYDRAZONE □ 1,5-BIS(5-NITRO-2-FURYL)-3-PENTADIENONE AMIDINONHYDRAZONE □ 1,5-BIS(5-NITRO-2-FURYL)-3-PENTADIENONE GUANYLHYDRAZONE □ DIFURAN □ DIFURAZONE □ ((3-(5-NITRO-2-FURYL)-1-(2-(5-NITRO-2-FURYL)VINYL)ALLYIDENE)-AMINO)GUANIDINE □ PAYZONE

TOXICITY DATA with REFERENCE:
mmo-sat 2500 ng/L CEHYAN 32,276,87
orl-mus LD50:5330 mg/kg PMDCAY 5,320,67
ipr-mus LD50:300 mg/kg PMDCAY 5,320,67
scu-mus LD50:3750 mg/kg PMDCAY 5,320,67

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,117,87; Animal Inadequate Evidence IMEMDT 31,185,83.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. Mildly toxic by ingestion. Questionable carcinogen. A growth promoter in chickens. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x.

PAF550 CAS: 9087-70-1 HR: D
PANCREATIC BASIC TRYPSIN INHIBITOR
mf: $C_{284}H_{432}N_{84}O_{79}S_7$ mw: 6512.42
PROP: Liquid. Sol in water.
SYNS: ANTAGOSAN □ ANTIKREIN □ ANTILYSIN □ ANTILYSINE □ APROTININ □ BASIC PANCREATIC TRYPSIN INHIBITOR □ BAYER A-128 □ FOSTEN □ INIPROL □ KALLIKREIN-TRYPSIN INACTIVATOR □ KIR RICHTER □ ONQUININ □ REPULSON □ RIKER 52G □ RP-9921 □ PANCREATIC TRYPSIN INHIBITOR □ PANCREATIC TRYPSIN INHIBITOR (KUNITZ) □ TRASYLOL □ TRAZININ □ TRYPSIN INHIBITOR □ TRYPSIN INHIBITOR, PANCREATIC BASIC □ TRYPSIN-KALLIKREIN INHIBITOR (KUNITZ) □ ZYMOFREN
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

PAF600 CAS: 8049-47-6 HR: 2
PANCREATIN
PROP: Yellow amorphous powder.
TOXICITY DATA with REFERENCE:
orl-rat LD50:>10 g/kg YACHDS 3,2427,75
ipr-rat LD50:2550 mg/kg YACHDS 3,2427,75
ipr-mus LD50:2100 mg/kg YACHDS 3,2427,75
scu-mus LD50:3870 mg/kg YACHDS 3,2427,75
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by subcutaneous and intraperitoneal routes.

PAF625 CAS: 15500-66-0 HR: 3
PANCURONIUM BROMIDE
mf: $C_{35}H_{60}N_2O_4$•2Br mw: 732.79
PROP: Odorless crystals with bitter taste. Mp: 215°. One gram dissolves in 30 parts chloroform, one part water (20°). Very sol in water.
SYNS: 5α-ANDROSTAN-3α,17β-DIOL, 2β,16β-DIPIPECOLINIO-, DIBROMIDE, DIACETATE □ 1,1'-(3,17-BIS(ACETYLOXY)-ANDROSTANE-2,16-DIYL)BIS(1-METHYLPIPERIDINIUM) DIBROMIDE □ 3-α,17-β-DIACETOXY-2-β,16-β-DIPIPERIDINO-5-α-ANDROSTANE DIMETHOBROMIDE □ MIOBLOCK □ NA 97 □ ORG NA 97 □ PAVULON
TOXICITY DATA with REFERENCE:
ivn-man LDLo:143 μg/kg:BLD,PUL JATOD3 4,275,80
orl-rat LD50:202 mg/kg SKKNAJ 22,187,70
ipr-rat LD50:479 μg/kg SKKNAJ 22,187,70
scu-rat LD50:436 μg/kg SKKNAJ 22,187,70
ivn-rat LD50:153 μg/kg DRUGAY 6,353,82
orl-mus LD50:21,200 μg/kg SKKNAJ 22,187,70
ivn-rat LD50:153 μg/kg NIIRDN 6,353,82
ipr-mus LD50:128 μg/kg OYYAA2 5,715,71
scu-mus LD50:167 μg/kg NIIRDN 6,353,82
ivn-mus LD50:13 μg/kg OYYAA2 5,715,71
ivn-rbt LD50:16 μg/kg NIIRDN 6,353,82
ivn-ckn LD50:63 μg/kg OYYAA2 5,715,71
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: A human poison by intravenous route. Poison experimentally by intravenous, subcutaneous, and intraperitoneal routes. Human systemic effects by intravenous route: chronic pulmonary edema, hemorrhage. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and Br^-.

PAF630 CAS: 15500-66-0 HR: 3
PANCURONIUM BROMIDE HYDRATE
mf: $C_{35}H_{60}N_2O_4$•2Br•H_2O mw: 768.83
PROP: Clear, colorless solution. D: ~1, mp: 0°, bp: ~100°. Insol in water.
SYNS: PANCURONIUM DIBROMIDE HYDRATE □ PAVULON
TOXICITY DATA with REFERENCE:
orl-rat LD50:202 mg/kg SKKNAJ 22,187,70
ipr-rat LD50:479 μg/kg SKKNAJ 22,187,70
scu-rat LD50:436 μg/kg SKKNAJ 22,187,70
ivn-rat LD50:129 μg/kg SKKNAJ 22,187,70
orl-mus LD50:21,200 μg/kg SKKNAJ 22,187,70
ipr-mus LD50:154 μg/kg SKKNAJ 22,187,70
scu-mus LD50:168 μg/kg SKKNAJ 22,187,70
ivn-mus LD50:36 μg/kg SKKNAJ 22,187,70
SAFETY PROFILE: A deadly poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and Br^-.

PAG050 CAS: 58580-55-5 HR: 3
PANIMYCIN
mf: $C_{18}H_{37}N_5O_8$•7H_2O_4S mw: 1138.16
PROP: Yellowish-white powder with bitter taste.
SYNS: o-3-AMINO-3-DEOXY-α-d-GLUCOPYRANOSYL-(1-6)-o-(2,6-DIAMINO-2,3,4,6-TETRADEOXY-α-d-erythro-HEXOPYRANOSYL-(1-4))-2-DEOXY-d-STREPTAMINE SULFATE (SALT) □ DEBECACIN SULFATE □ DIBEKACIN SULFATE □ ORBICIN
TOXICITY DATA with REFERENCE:
ipr-rat LD50:799 mg/kg NIIRDN 6,340,82
ivn-rat LD50:140 mg/kg NIIRDN 6,340,82
ims-rat LD50:560 mg/kg NIIRDN 6,340,82
ipr-mus LD50:431 mg/kg NIIRDN 6,340,82
ivn-mus LD50:62,600 μg/kg NIIRDN 6,340,82
ims-mus LD50:396 mg/kg NIIRDN 6,340,82
SAFETY PROFILE: Poison by intravenous and intramuscular routes. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

PAG075 CAS: 53994-73-3 HR: 2
PANORAL
mf: $C_{15}H_{14}ClN_3O_4S$ mw: 367.83
PROP: Crystal.
SYNS: CCL □ CEFACLOR □ 3-CHLORO-7-d-(2-PHENYLGLYCINAMIDO)-3-CEPHEM-4-CARBOXYLIC ACID □ LILLY 99638
TOXICITY DATA with REFERENCE:

orl-cld TDLo:131 mg/kg/7D-I:MSK,SKN CMAJAX 126,1032,82
orl-inf TDLo:525 mg/kg/7D-I:SKN,SYS CMAJAX 126,1032,82
ipr-rat LD50:1259 mg/kg NKRZAZ 27(Suppl 7),765,79
scu-rat LD50:4838 mg/kg NKRZAZ 27(Suppl 7),765,79
ipr-mus LD50:1227 mg/kg NKRZAZ 27(Suppl 7),765,79
scu-mus LD50:4180 mg/kg NKRZAZ 27(Suppl 7),765,79

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Human systemic effects by ingestion: joints, dermatitis, increased body temperature. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^-, SO_x, and NO_x.

PAG150 CAS: 16816-67-4 HR: 2
d-PANTETHINE

mf: $C_{22}H_{42}N_4O_8S_2$ mw: 554.80

PROP: Crystals from MeOH/Me_2CO.

SYNS: BIS(PANTOTHENAMIDOETHYL) DISULFIDE □ LBF DISULFIDE □ PANTETHINE □ PANTETINA □ PANTOMIN □ PANTOSIN

TOXICITY DATA with REFERENCE:
ipr-mus LD50:4800 mg/kg NIIRDN 6,598,82
scu-mus LD50:4870 mg/kg NIIRDN 6,598,82
ivn-mus LD50:3400 mg/kg NIIRDN 6,598,82
ims-mus LD50:5100 mg/kg NIIRDN 6,598,82

SAFETY PROFILE: Moderately toxic by intravenous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also AMIDES.

PAG200 CAS: 81-13-0 HR: 2
d-PANTHENOL

mf: $C_9H_{19}NO_4$ mw: 205.29

PROP: Viscous oil, somewhat hygroscopic liquid; sltly bitter taste. D: (20°/20°) 1.2, bp: 118−120°, easily decomp on distillation. Freely sol in water, alc, methanol, ether; sltly sol in glycerin. Natural pH about 9.5.

SYNS: ALCOPAN-250 □ BEPANTHEN □ BEPANTHENE □ BEPANTOL □ COZYME □ DEXPANTHENOL (FCC) □ d-(+)-2,4-DIHYDROXY-N-(3-HYDROXYPROPYL)-3,3-DIMETHYLBUTYR-AMIDE □ D-P-A INJECTION □ ILOPAN □ MOTILYN □ PANADON □ PANTHENOL □ d(+)-PANTHENOL (FCC) □ PANTHODERM □ PANTOL □ PANTOTHENOL □ d-PANTO-THENOL □ PANTOTHENYL ALCOHOL □ d-PANTOTHENYL ALCOHOL □ d(+)-PANTOTHENYL ALCOHOL □ THENALTON □ ZENTINIC

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/4H MLD JACTDZ 6(1),139,87
eye-rbt 500 µg MLD JACTDZ 6(1),139,87
orl-mus LD50:15 g/kg JACTDZ 6(1),139,87
ipr-mus LD50:9 g/kg FRPSAX 14,43,59
ivn-mus LD50:7000 mg/kg NIIRDN 6,599,82
ivn-rbt LD50:4000 mg/kg NIIRDN 6,599,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intravenous route. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also AMIDES.

PAG225 CAS: 53025-21-1 HR: 1
PANTOCRIN

PROP: Russian preparation harvested from Red Deer antlers for medicinal purposes.

TOXICITY DATA with REFERENCE:
orl-rat LD50:87,800 mg/kg OYYAA2 6,739,72
ipr-rat LD50:82 g/kg OYYAA2 6,739,72
scu-rat LD50:112 g/kg OYYAA2 6,739,72
ivn-rat LD50:17,800 mg/kg OYYAA2 6,739,72
orl-mus LD50:117 g/kg OYYAA2 6,739,72
ipr-mus LD50:104 g/kg OYYAA2 6,739,72
scu-mus LD50:114 g/kg OYYAA2 6,739,72
ivn-mus LD50:34 g/kg OYYAA2 6,739,72
ims-mus LD50:97,800 mg/kg OYYAA2 6,739,72

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

PAG300 CAS: 79-83-4 HR: 2
(+)-PANTOTHENIC ACID

mf: $C_9H_{17}NO_5$ mw: 219.27

PROP: Water soluble vitamin.

SYNS: β-ALANINE, N-(2,4-DIHYDROXY-3,3-DIMETHYL-1-OXOBUTYL)-, (R)-(9CI) □ CHICK ANTIDERMATITIS FACTOR □ KYSELINA PANTOTHENOVA □ PANTOTHENIC ACID □ PANTOTHENIC ACID, d- □ d-PANTOTHENIC ACID □ (d)-(+)-PANTOTHENIC ACID □ VITAMIN B3 □ VITAMIN B5

TOXICITY DATA with REFERENCE:
scu-rat LD50:3500 mg/kg JACTDZ 6(1),139,87
ipr-mus LD50:1443 mg/kg PCJOAU 17,32,83
scu-mus LD50:2500 mg/kg JACTDZ 6(1),139,87

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

PAG500 CAS: 9001-73-4 HR: 3
PAPAIN

PROP: White to gray, sltly hygroscopic powder. Sol in water and glycerin; insol in other common org solvs. The most thermostatic enzyme known, digests protein. Isolated from the latex of the green fruit and leaves of *Carcia papaya L.* (IJMRAQ 67,499,78).

SYNS: ARBUZ □ CAROID □ NEMATOLYT □ PAPAYOTIN □ SUMMETRIN □ TROMASIN □ VEGETABLE PEPSIN □ VELARDON □ VERMIZYM

TOXICITY DATA with REFERENCE:
orl-man TDLo:71 mg/kg:GIT JCGADC 9,127,87
orl-mus LD50:12,500 mg/kg NYKZAU 51,27,55
ipr-mus LDLo:50 mg/kg TOXIA6 19,851,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Human systemic effects by ingestion: changes in structure or function of esophagus. Experimental teratogenic and reproductive effects. An allergen. When heated to decomposition it emits toxic fumes of NO_x.

PAG750 CAS: 63905-64-6 HR: 3
PAPAVERIN CARBOXYLIC ACID, SODIUM SALT

mf: $C_{21}H_{20}NO_6$•Na mw: 405.41
SYNS: 1-(3,4)-DIMETHOXYBENZYL-6,7-DIMETHOXYISOQUINOLINE-3-CARBOXYLIC ACID, SODIUM SALT ☐ 6,7-DIMETHOXY-1-VERATRYLISOQUINOLINE-3-CARBOXYLIC ACID SODIUM SALT

TOXICITY DATA with REFERENCE:
ivn-man TDLo:8250 µg/kg:PNS,CNS AEPPAE 213,30,51
orl-mus LD50:260 mg/kg AEPPAE 213,30,51
scu-mus LD50:225 mg/kg AEPPAE 213,30,51
ivn-mus LD50:200 mg/kg AEPPAE 213,30,51

SAFETY PROFILE: Poison by ingestion, intravenous, and subcutaneous routes. Human systemic effects by intravenous route: sensory changes in peripheral nerves, spasticity. When heated to decomposition it emits toxic fumes of NO_x and Na_2O.

PAH000 CAS: 58-74-2 HR: 3
PAPAVERINE
mf: $C_{20}H_{21}NO_4$ mw: 339.42
PROP: Colorless, rhombic needles or prisms from EtOH/Et_2O. Mp: 147°, bp: decomp, d: 1.337 @ 20°/4°. Insol in water; sol in hot benzene, glacial acetic acid, acetone; sltly sol in chloroform, carbon tetrachloride, pet ether.
SYNS: 1-((3,4-DIMETHOXYPHENYL)METHYL)-6,7-DIMETHOXYISOQUINOLINE ☐ 6,7-DIMETHOXY-1-VERATRYLISOQUINOLINE ☐ PAPANERINE ☐ PAPAVERINA (ITALIAN)

TOXICITY DATA with REFERENCE:
oms-mus:oth µmol/L JIDEAE 66,313,76
ims-man TDLo:1143 µg/kg:BAH EJCPAS 33,651,88
orl-rat LD50:325 mg/kg ARZNAD 20,1338,70
ipr-rat LD50:64 mg/kg APTOA6 6,235,50
scu-rat LD50:151 mg/kg ARZNAD 20,1338,70
ivn-rat LD50:18 mg/kg ARZNAD 20,1338,70
orl-mus LD50:230 mg/kg ARZNAD 16,1127,66
ipr-mus LD50:117 mg/kg ARZNAD 16,386,66
scu-mus LD50:280 mg/kg ARZNAD 20,1338,70
ivn-mus LD50:25 mg/kg AIPTAK 59,149,38
ims-mus LD50:175 mg/kg AITEAT 15,415,67
idr-mus LD50:150 mg/kg AIPTAK 59,149,38
scu-dog LDLo:120 mg/kg FDWU** -,-,31
scu-cat LDLo:120 mg/kg FDWU** -,-,31
orl-rbt LDLo:190 mg/kg HBAMAK 4,1289,35
scu-rbt LDLo:250 mg/kg HBAMAK 4,1289,35
ivn-rbt LD50:25 mg/kg AIPTAK 59,149,38
scu-pgn LDLo:150 mg/kg FDWU** -,-,31
scu-frg LDLo:140 mg/kg HBAMAK 4,1289,35

SAFETY PROFILE: Poison by ingestion, intramuscular, subcutaneous, intradermal, intraperitoneal, and intravenous routes. Human systemic effects: coma, somnolence. Its central nervous system action is about midway between those of morphine and codeine, and large doses do not produce the amount of excitement caused by codeine or the soporific action of morphine. Mutation data reported. A cerebral vasodilator and smooth muscle relaxant. Combustible when exposed to heat or flame. When heated to decomposition it emits toxic fumes of NO_x. See also MORPHINE.

PAH250 CAS: 61-25-6 HR: 3
PAPAVERINE CHLOROHYDRATE
mf: $C_{20}H_{21}NO_4$•ClH mw: 375.88
PROP: Rods from H_2O. Mp: 221−222° (decomp).
SYNS: ARTEGODAN ☐ CARDOVERINA ☐ CEPAVERIN ☐ CERESPAN ☐ CHLORHYDRATE de PAPAVERINE (FRENCH) ☐ 6,7-DIMETHOXY-1-VERATRYLISOQUINOLINE HYDROCHLORIDE ☐ DIPAV ☐ DISPAMIL ☐ DYNOVAS ☐ ISOQUINOLINE, 6,7-DIMETHOXY-1-VERATRYL-, HYDROCHLORIDE ☐ LAPAV ☐ NCI-C56359 ☐ OPTENYL ☐ PAMEION ☐ PAPAVARINE CHLORHYDRATE ☐ PAPAVERINE CHLOROHYDRATE ☐ PAPAVERINE HYDROCHLORIDE ☐ PAPAVERINE MONOHYDROCHLORIDE ☐ PAPAVERIN-HCL (GERMAN) ☐ PAP H ☐ PAVABID ☐ PAVAGRANT ☐ PAVAKEY ☐ PAVASED ☐ PAVATEST ☐ SPASMO-NIT ☐ 6,7,3',4'-TETRAMETHOXY-1-BENZYLISOQUINOLINE HYDROCHLORIDE ☐ THERAPAV ☐ VASAL ☐ VASOSPAN

TOXICITY DATA with REFERENCE:
cyt-ham:fbr 125 mg/L ESKHA5 96,55,78
cyt-ham:lng 340 mg/L GMCRDC 27,95,81
orl-wmn TDLo:300 mg/kg:CVS CTOXAO 18,417,81
orl-rat LD50:360 mg/kg AIPTAK 149,200,64
ipr-rat LD50:64 mg/kg ARZNAD 6,454,56
scu-rat LD50:368 mg/kg ARZNAD 6,454,56
ivn-rat LD50:20 mg/kg AIPTAK 123,264,60
idu-rat LD50:71 mg/kg AIPTAK 180,155,69
orl-mus LD50:130 mg/kg JOETD7 6,127,82
ipr-mus LD50:108 mg/kg JMCMAR 16,1063,73
ivn-mus LD50:23 mg/kg JPETAB 87,73,46

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, intraduodenal, intravenous, and subcutaneous routes. Human systemic effects: metabolic acidosis, pulse rate increase. An experimental teratogen. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also PAPAVERINE.

PAH260 CAS: 985-13-7 HR: 3
PAPETHERINE HYDROCHLORIDE
mf: $C_{24}H_{29}NO_4$•ClH mw: 432.00
SYNS: BARBONIN HYDROCHLORIDE ☐ 1-(3,4-DIETHOXYBENZYL)-6,7-DIETHOXYISOQUINOLINE HYDROCHLORIDE ☐ ETHAVERINE HYDROCHLORIDE ☐ ISOQUINOLINE, 1-(3,4-DIETHOXYBENZYL)-6,7-DIETHOXY-, HYDROCHLORIDE ☐ ISOQUINOLINE, 1-((3,4-DIETHOXYPHENYL)-METHYL)-6,7-DIETHOXY-, HYDROCHLORIDE ☐ PERPARINE HYDROCHLORIDE ☐ PERPARIN HYDROCHLORIDE ☐ PERPERINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
scu-mus LD50:660 mg/kg THERAP 5,69,50
ivn-mus LD50:86 mg/kg APFRAD 9,585,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl^-.

PAH275 HR: D
PAPRIKA
PROP: Ground dried pod of mild capsicum *Capsicum annuum* L.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

PAH280 HR: D
PAPRIKA OLEORESIN
PROP: Derived from organic solvent extraction of ground dried pod of mild capsicum *Capsicum annuum* L.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

PAH500 CAS: 115-67-3 HR: 2
PARADIONE

mf: $C_7H_{11}NO_3$ mw: 157.19
PROP: Anticonvulsive.
SYNS: A 348 □ 3,5-DIMETHYL-5-ETHYLOXAZOLIDINE-2,4-DIONE □ 5-ETHYL-3,5-DIMETHYLOXAZOLIDINE-2,4-DIONE □ ISOETHADIONE
□ PARAMETADIONE □ PARAMETHADIONE
TOXICITY DATA with REFERENCE:
orl-mus LD50:1000 mg/kg 27ZQAG -,280,72
ipr-mus LD50:750 mg/kg 27ZQAG -,280,72
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental teratogenic effects. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PAH750 CAS: 8002-74-2 HR: 2
PARAFFIN
PROP: Colorless or white, translucent wax; odorless. D: approx 0.90, mp: 50−57°. Insol in water, alc; sol in benzene, chloroform, ether, carbon disulfide, oils; misc with fats.
SYNS: PARAFFIN WAX □ PARAFFIN WAX FUME (ACGIH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD JACTDZ 3(3),43,84
eye-rbt 100 mg/24H MLD JACTDZ 3(3),43,84
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: Fume: TWA 2 mg/m^3 (fume)
ACGIH TLV: Fume: TWA 2 mg/m^3 (fume)
NIOSH REL: (Paraffin Wax Fume) TWA 2 mg/m^3
SAFETY PROFILE: A skin and eye irritant. Questionable carcinogen with experimental tumorigenic data by implant route. Many paraffin waxes contain carcinogens. Fumes cause lung damage. See also PARAFFIN HYDROCARBONS.

PAH770 HR: 2
PARAFFIN HYDROCARBONS
PROP: Gas, liquid or solid depending on temp and pressure.
SAFETY PROFILE: The effects of the paraffin hydrocarbons vary with the volatility. The gaseous hydrocarbons, such as methane, ethane, etc., have but slight anesthetic effects and are hazardous only when present in sufficient concentration to dilute the oxygen to a point below that necessary to sustain life. With the volatile liquid hydrocarbons, or with the next-higher fraction, the anesthetic action predominates, and with the higher molecular weights or with the less volatile compounds, the anesthetic increases, but at the same time an irritant action becomes more pronounced. For information concerning toxic and hazardous properties of these materials, see the individual compounds. Paraffins are common air contaminants. Can be a dangerous fire hazard depending on volatility.

PAH780 CAS: 63449-39-8 HR: 3
PARAFFIN WAXES and HYDROCARBON WAXES, CHLORINATED
PROP: Liquid and solid. Low solin water.
SYNS: CERECHLOR 54 □ CERECLOR □ CERECLOR 30 □ CERECLOR 42 □ CERECLOR 48 □ CERECLOR 52 □ CERECLOR 54 □ CERECLOR 70 □ CERECLOR 51L □ CERECLOR 56L □ CERECLOR 63L □ CERECLOR 65L □ CERECLOR 70L □ CERECLOR 50LV □ CERECLOR S 42 □ CERECLOR S52 □ CERECLOR S70 □ CHLORCOSANE □ CHLOREZ 700 □ CHLOREZ 700HMP □ CHLORINATED PARAFFINS □ CHLOROPARAFFINE 40G □ CHLOROWAX □ CHLOROWAX 40 □ CHLOROWAX 50 □ CHLOROWAX 70 □ CHLOROWAX 500C □ CHLOROWAX 70S □ CHLOROWAX S 70 □ CLORAFIN □ CRECHLOR S 45 □ FLEXCHLOR □ NCI-C53587 □ PAROIL CHLOREZ □ UNICHLOR □ UNICHLOR 50
TOXICITY DATA with REFERENCE:
skn-rat 100 mg/24H MLD TXAPA9 54,514,80
eye-rbt 100 mg MLD TXAPA9 54,514,80
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
SAFETY PROFILE: Suspected carcinogen. A skin and eye irritant. When heated to decomposition it emits toxic vapors of Cl^-.

PAH800 CAS: 108171-26-2 HR: 3
PARAFFIN WAXES and HYDROCARBON WAXES, CHLORINATED (C_{12}, 60% CHLORINE)
PROP: Clear to light amber liquid. D: 1.35 @ 25°/25°, bp: Decomposes. Sol in water: <1 mg/mL @ 24°.
SYN: CHLORINATED PARAFFINS (C_{12}, 60% CHLORINE)

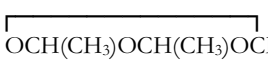
TOXICITY DATA with REFERENCE:
orl-rat TDLo:227 g/kg/2Y-I:CAR NTPTR* NTP-TR-308,86
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 48,55,90; Animal Sufficient Evidence IMEMDT 48,55,90. NTP Carcinogenesis Studies (gavage); Clear Evidence: mouse, rat NTPTR* NTP-TR-308,86. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Confirmed carcinogen with carcinogenic and neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

PAH810 CAS: 108171-27-3 HR: 3
PARAFFIN WAXES and HYDROCARBON WAXES, CHLORINATED (C_{23}, 43% CHLORINE)
PROP: Clear to light amber liquid. D: 1.17 @ 25°/25°, bp: decomposes. Sol in water: <1 mg/mL @ 24°. Flash pt: >232° C.
SYN: CHLORINATED PARAFFINS (C_{23}, 43% CHLORINE)
TOXICITY DATA with REFERENCE:

orl-rat LD: >11,700 mg/kg FAATDF 9,454,87
orl-mus LD: >23,400 mg/kg FAATDF 9,454,87
CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 48,55,90. NTP Carcinogenesis Studies (gavage): Clear Evidence: mouse NTPTR* NTP-TR-305,86; Equivocal Evidence: rat NTPTR* NTP-TR-305,86. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and neoplastigenic data. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

PAI000 CAS: 30525-89-4 HR: 3
PARAFORMALDEHYDE
DOT: UN 2213
mf: $(CH_2O)_n$
PROP: White crystals; odor of formaldehyde. Flash p: 158°F, autoign temp: 572°F, mp: 163−165° (decomp). Sltly sol in cold water; moderately sol in hot water, yielding formaldehyde; sol in strong alkalies; insol in EtOH, Et_2O.
SYNS: FLO-MOR ◻ FORMAGENE ◻ PARAFORSN ◻ TRIFORMOL ◻ TRIOXYMETHYLENE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV BIOFX* 1,190,81
orl-rat LD50:800 mg/kg 28ZEAL 4,308,69
skn-rbt LDLo:10,000 mg/kg BIOFX* 49,172.101,92
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 4.1; Label: None
SAFETY PROFILE: Moderately toxic by ingestion. A severe eye and skin irritant. Mutation data reported. Flammable when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, CO_2, dry chemical. Incompatible with liquid oxygen. Dangerous; when heated to decomposition it emits toxic formaldehyde gas. See also FORMALDEHYDE.

PAI250 CAS: 123-63-7 HR: 3
PARALDEHYDE
DOT: UN 1264
mf: $C_6H_{12}O_3$ mw: 132.18



$OCH(CH_3)OCH(CH_3)OCHCH_3$
PROP: Colorless liquid; disagreeable taste, aromatic odor. Mp: 12.6°, lel: 1.3%, bp: 124.4° @ 752 mm, flash p: 62.6°F, d: 0.9943 @ 20°/4°, autoign temp: 460°F, vap d: 4.55. Sol in water; misc with alc, ether, oils, chloroform.
SYNS: ACETALDEHYDE, TRIMER ◻ ELALDEHYDE ◻ PARACETALDEHYDE ◻ PARAL ◻ PARALDEHYD (GERMAN) ◻ PARALDEIDE (ITALIAN) ◻ PCHO ◻ RCRA WASTE NUMBER U182 ◻ TRIACETALDEHYDE (FRENCH) ◻ 2,4,6-TRIMETHYL-1,3,5-TRIOXAAN (DUTCH) ◻ 2,4,6-TRIMETHYL-s-TRIOXANE ◻ 2,4,6-TRIMETHYL-1,3,5-TRIOXANE ◻ s-TRIMETHYLTRIOXY-METHYLENE ◻ 2,4,6-TRIMETIL-1,3,5-TRIOSSANO (ITALIAN)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 3/24/70
eye-rbt 5 mg SEV UCDS** 3/24/70
ims-man TDLo:568 mg/kg BJPYAJ 149,650,86
unr-man LDLo:1462 mg/kg 85DCAI 2,73,70
rec-man LDLo:333 mg/kg:GIT SAMJAF 29,1021,55
orl-rat LD50:1530 mg/kg UCDS** 24MAR70
ihl-rat LCLo:2000 ppm/4H UCDS** 24MAR70
ipr-rat LDLo:2100 mg/kg TXAPA9 1,156,59
scu-rat LDLo:1650 mg/kg AEPPAE 182,348,36
orl-cat LDLo:3300 mg/kg HBAMAK 4,1289,35
orl-rbt LD50:3304 mg/kg PSEBAA 29,730,32
skn-rbt LD50:14 g/kg UCDS** 24MAR70
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: A human poison by rectal route. Moderately toxic to humans by intramuscular route. Moderately toxic experimentally by inhalation, ingestion, intraperitoneal, and subcutaneous routes. Human systemic effects by rectal route: necrotic changes. A skin and severe eye irritant. Low doses produce hypnotic and analgesic effects. Larger doses depress the nervous system with loss of reflexes, coma, and respiratory depression leading to respiratory paralysis and death. Chronic effects include weight loss, muscular weakness, and mental fatigue. However, poisoning is rare. A hypnotic agent. Dangerous fire hazard when exposed to heat, flame, or oxidizers. Slight explosion hazard when exposed to heat or flame. Dangerous; keep away from heat and open flame. To fight fire, use alcohol foam, CO_2, dry chemical. Potentially violent reaction with nitric acid. Incompatible with alkalies, hydrocyanic acid, iodides, oxidizers. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

PAI750 CAS: 62046-63-3 HR: 2
PARAPLEX RG-2 (60%)
PROP: 60% oil modified sebacic alkyd, 40% toluene (NPIRI* 2,206,75).
TOXICITY DATA with REFERENCE:
orl-rat LD50:3000 mg/kg NPIRI* 2,206,75
skn-rbt LD50:4000 mg/kg NPIRI* 2,206,75
SAFETY PROFILE: Moderately toxic by skin contact and ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

PAI990 CAS: 4685-14-7 HR: 3
PARAQUAT
mf: $C_{12}H_{14}N_2$ mw: 186.28
PROP: Off-white Powder. Bp: 175−180°. Sol in water.
SYNS: 1,1'-DIMETHYL-4,4'-BIPYRIDINIUM ◻ DIMETHYL VIOLOGEN ◻ GRAMOXONE S ◻ METHYL VIOLOGEN (2+) ◻ PARAQUAT DICATION ◻ PARAQUAT ION ◻ PRIGLONE
TOXICITY DATA with REFERENCE:
mmo-omi 20 ppm MUREAV 138,39,84
orl-rat LD50:150 mg/kg FMCHA2 -,C118,83
orl-man LDLo:171 mg/kg:PUL,GIT JTCTDW 26,35,88
orl-man LDLo:1690 mg/kg:PUL,GIT JTCTDW 26,35,88
orl-man LDLo:343 mg/kg :GIT,SYS JTCTDW 26,35,88
orl-rat LD50: 100 mg/kg IYKEDH 10,520,79
ipr-rat LD50:14,800 µg/kg VHTODE 22,395,80
orl-mus LD50:120 mg/kg GEPHDP 14,541,83
orl-gpg LD50:40 mg/kg GEPHDP 14,541,83
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
OSHA PEL: Respirable Dust: TWA 0.1 mg/m^3 (skin)

ACGIH TLV: TWA 0.1 mg/m^3
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mutation data reported. Human systemic effects: changes in structure or function of esophagus, diarrhea, edema, fibrosis of lung, fibrosis, focal (pneumoconiosis), hemorrhage, jaundice, renal damage, renal function tests depressed, respiratory depression, ulceration or bleeding from stomach, vomiting. Death from anoxia may result. When heated to decomposition it emits toxic fumes of NO_x. See also PARAQUAT DICHLORIDE.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Paraquat 5003.

PAI995 CAS: 3240-78-6 HR: D
PARAQUAT DIBROMIDE
mf: $C_{12}H_{14}N_2$•2Br mw: 346.10
SYNS: 4,4'-BIPYRIDINIUM, 1,1'-DIMETHYL-, DIBROMIDE ◻ N,N'-DIMETHYL-4,4'-BIPYRIDINIUM DIBROMIDE ◻ METHYL-VIOLOGEN DIBROMIDE ◻ WEEDOL
TOXICITY DATA with REFERENCE:
orl-man TDLo:6429 mg/kg:BAH BMJOAE 3,290,1968
SAFETY PROFILE: Human systemic effects. When heated to decomposition it emits toxic vapors of NO_x and Br^-.

PAJ000 CAS: 1910-42-5 HR: 3
PARAQUAT DICHLORIDE
mf: $C_{12}H_{14}N_2$•2Cl mw: 257.18
PROP: Yellow solid. Very air-sensitive needles from MeOH/Me_2CO. Mp: 300° (approx decomp). Very sol in H_2O; sltly sol in MeOH, EtOH; insol in nonpolar solvs. IDLH 1 mg/m^3.
SYNS: AH 501 ◻ BIPYRIDINIUM, 1,1'-DIMETHYL-4,4'-, DICHL-ORIDE ◻ CEKUQUAT ◻ CRISQUAT ◻ DEXTRONE ◻ DEXTR-ONE-X ◻ DEXURON ◻ N,N'-DIMETHYL-4,4'-BIPYRIDINIUM DICHLORIDE ◻ N,N'-DIMETHYL-4,4'-BIPYRIDYLIUM DICHL-ORIDE ◻ 1,1'-DIMETHYL-4,4'-BIPYRIDYNIUM DICHLORIDE ◻ 1,1'-DIMETHYL-4,4'-DIPYRIDINIUM-DICHLORID ◻ 4,4'-DIMET-HYLDIPYRIDYL DICHLORIDE ◻ 1,1'-DIMETHYL-4,4'-DIPYRI-DYLIUM CHLORIDE ◻ N,N'-DIMETHYL-4,4'-DIPYRID-YLIUM DICHLORIDE ◻ DIMETHYL VIOLOGEN CHLORIDE ◻ ESGRAM ◻ GOLDQUAT 276 ◻ GRAMIXEL ◻ GRAMONOL ◻ GRAMOXON ◻ GRAMOXONE ◻ GRAMOX-ONE D ◻ GRAMOXONE DICHLORIDE ◻ GRAMOXONE S ◻ GRAMOX-ONE W ◻ GRAMURON ◻ HERBAXON ◻ HERBOXONE ◻ METHYLVIOLOGEN ◻ METHYL VIOLOGEN DICHLORIDE ◻ METHYL VIOLOGEN (REDUCED) ◻ OK 622 ◻ ORTHO PARA-QUAT CL ◻ PARA-COL ◻ PARAQUAT (ACGIH) ◻ PARAQUAT CHLORIDE ◻ PARAQUAT CL ◻ PARAQUAT, DICHLORIDE ◻ PATHCLEAR ◻ PILLARQUAT ◻ PILLARXONE ◻ PP148 ◻ SWEEP ◻ TERRAKLENE ◻ TOTACOL ◻ TOTAL ◻ TOXER TOTAL ◻ VIOLOGEN, METHYL- ◻ WEEDOL
TOXICITY DATA with REFERENCE:
eye-rbt 25 mg MLD BJIMAG 23,126,66
eye-rbt 12,500 µg SEV BECTA6 9,163,73
sce-ham:fbr 1 mmol/L PAACA3 25,110,84
sce-ham:lng 100 µmol/L MUREAV 151,263,85
orl-hmn LDLo:214 mg/kg YKYUA6 30,985,79
orl-man TDLo:32 mg/kg:PUL,GIT BMJOAE 3,290,68
orl-man LDLo:43 mg/kg BMJOAE 2,396,78
orl-wmn LDLo:3000 mg/kg:CNS,PUL,GIT FSIZAQ 27,494,77
orl-wmn LDLo:111 mg/kg:PUL,GIT,KID AIMDAP 146,681,86
orl-rat LD50:57 mg/kg RREVAH 10,97,65
skn-rat LD50:80 mg/kg WRPCA2 9,119,70
ipr-rat LD50:26 mg/kg BJIMAG 23,126,66
scu-rat LD50:24 mg/kg CSLNX* NX#00224
orl-mus LD50:120 mg/kg GEPHDP 12,225,81
ipr-mus LD50:20 mg/kg JPTLAS 128,21,79
ivn-mus LD50:180 mg/kg CSLNX* NX#00224
orl-dog LD50:25 mg/kg IYKEDH 10,520,79
orl-mky LD50:50 mg/kg EXMPA6 17,317,72
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.
ACGIH TLV: TWA 0.1 mg/m^3
DFG MAK: 0.1 mg/m^3
SAFETY PROFILE: A human poison by ingestion. Poison experimentally by ingestion, skin contact, intraperitoneal, intravenous, and subcutaneous routes. Human systemic effects by ingestion: acute renal failure, acute tubular necrosis, cough, diarrhea, dyspnea, headache, hypermotility, nausea or vomiting, other gastrointestinal effects, other pulmonary effects, ulceration or bleeding from stomach. An experimental teratogen. Experimental reproductive effects. Has a delayed damaging effect on the lung alveoli. Has caused fatal poisoning in humans, with severe injury to lungs. Has been implicated in aplastic anemia. An eye irritant. Mutation data reported. The National Institute of Drug Abuse (NIDA), USA, has concluded that contamination of marijuana with the herbicide paraquat may pose a serious threat to marijuana (cannabis) smokers, and issued a warning that marijuana contaminated with the herbicide paraquat could lead to permanent lung damage for regular and heavy users of marijuana. The maximum level of contamination permitted for domestic uses is 0.05 ppm paraquat; but paraquat has been found in marijuana samples at levels ranging from 3 to 2204 ppm, averaging 452 ppm. It tends to concentrate in lung tissue whether it is ingested or inhaled, and produces a condition called fibrosis, which reduces the capacity of the lung to absorb oxygen. *Inhalation* of paraquat creates a greater risk of lung damage than *ingestion* of an identical amount. An herbicide. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also PARAQUAT.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: paraquat, 5003.

PAJ100 CAS: 4685-14-7 HR: 3
PARAQUAT DIHYDRIDE
mf: $C_{12}H_{14}N_2$•2H_2O mw: 222.32
PROP: Colorless hygroscopic crystals or white to yellow hygroscopic crystalline powder. Water solution of paraquat dichloride is dark red. Mp: 175−180°, bp: 300° (decomp), d: 1.25. Sol in water: 70 g/100 ml at 20°.
SYNS: 1,1'-DIMETHYL-4,4'-BIPYRIDINIUM DIHYDRATE ◻ DIPYRIDYLDIHYDRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:100 mg/kg IYKEDH 10,520,79
ipr-rat LD50:80 mg/kg IYKEDH 10,520,79
orl-mus LD50:120 mg/kg GEPHDP 17,359,86

orl-dog LD50:25 mg/kg IYKEDH 10,520,79
skn-rbt LD50:236 mg/kg PEMNDP 8,630,87
orl-gpg LD50:30 mg/kg IYKEDH 10,520,79

OSHA PEL: Respirable Dust: TWA 0.1 mg/m^3 (skin)

ACGIH TLV: TWA 0.1 mg/m^3

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

PAJ250 CAS: 2074-50-2 HR: 3
PARAQUAT DIMETHYL SULFATE

mf: $C_{12}H_{14}N_2$•$2CH_3O_4S$ mw: 408.48

PROP: A solid. Mp: 300° (approx decomp).

SYNS: 1,1'-DIMETHYL-4,4'-BIPYRIDYNIUM DIMETHYLSULFATE ◻ 1',1'-DIMETHYL-4,4'-DIPYRIDINIUM DI(METHYLSULFATE) ◻ GRAMOXONE METHYL SULFATE ◻ PARAQUAT BIS(METHYL SULFATE) ◻ PARAQUAT DIMETHYL SULFATE ◻ PARAQUAT I ◻ PP 910

TOXICITY DATA with REFERENCE:

orl-rat LD50:100 mg/kg TXAPA9 17,679,70
ipr-rat LD50:35 mg/kg BJIMAG 23,126,66
orl-dog LD50:25 mg/kg IYKEDH 10,520,79
orl-cat LD50:35 mg/kg IYKEDH 10,520,79
orl-gpg LD50:30 mg/kg IYKEDH 10,520,79

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.

ACGIH TLV: TWA 0.1 mg/m^3

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. An herbicide. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also PARAQUAT.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: paraquat, 5003.

PAJ500 CAS: 10048-32-5 HR: 3
PARASCORBIC ACID

mf: $C_6H_8O_2$ mw: 112.14

PROP: Oily liquid; sweet, aromatic odor. Bp: 104−105° @ 14 mm, 119−123° @ 22 mm, d: 1.079 @ 18°/4°. Sol in water; very sol in alc, ether.

SYNS: (S)-(+)-5,6-DIHYDRO-6-METHYL-2H-PYRAN-2-ONE ◻ γ-HEXENOLACTONE ◻ 2-HEXEN-5,1-OLIDE ◻ D"-HEXENOLLACTONE ◻ 5-HYDROXY-2-HEXENOIC ACID LACTONE ◻ PARASORBIC ACID ◻ (+)-PARASORBINSAEURE (GERMAN) ◻ SORBIC OIL

TOXICITY DATA with REFERENCE:

ipr-mus LD50:250 mg/kg 85GDA2 8(1),253,82
ivn-mus LD50:195 mg/kg ARZNAD 19,617,69
skn-rbt LD50:5040 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 10,199,76.

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Mildly toxic by skin contact. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

PAJ750 CAS: 84-08-2 HR: 3
PARATHIAZINE

mf: $C_{18}H_{20}N_2S$ mw: 296.46

PROP: Brown oil. Bp: 222−226° @ 2 mm.

SYNS: PYRATHIAZINE ◻ PYRROLAZOATE ◻ PYRROLIDINO-AETHYLPHENTHIAZIN (GERMAN) ◻ 10-(2-(1-PYRROLIDINYL)ETHYL)PHENOTHIAZINE ◻ 10-(2-(1-PYRROLIDYL)ETHYL)PHENOTHIAZINE ◻ ROLAZOTE

TOXICITY DATA with REFERENCE:

orl-mus LD50:707 mg/kg ARZNAD 7,237,57
ipr-mus LD50:190 mg/kg ARZNAD 7,237,57

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

PAK000 CAS: 56-38-2 HR: 3
PARATHION

DOT: NA 2783

mf: $C_{10}H_{14}NO_5PS$ mw: 291.28

PROP: Pale-yellow liquid. Mp: 6°, bp: 375°, d: 1.26 @ 25°/4°. Very sol in alcs, esters, ethers, ketones, aromatic hydrocarbons; insol in water, pet ether, kerosene. IDLH 10 mg/m^3.

SYNS: AAT ◻ AATP ◻ ALLERON ◻ APHAMITE ◻ ARALO ◻ BAY E-605 ◻ BAYER E-605 ◻ BLADAN ◻ COMPOUND 3422 ◻ COROTHION ◻ CORTHION ◻ CORTHIONE ◻ DANTHION ◻ O,O-DIAETHYL-O-(4-NITROPHENYL)-MONOTHIOPHOSPHAT (GERMAN) ◻ O,O-DIETHYL-O-(4-NITRO-FENIL)-MONOTHIOFOSFAAT (DUTCH) ◻ O,O-DIETHYL-O-p-NITROFENYLESTER KYSELINYTHIOFOSFORECNE (CZECH) ◻ O,O-DIETHYL-O-p-NITROFENYLTIOFOSFAT (CZECH) ◻ O,O-DIETHYL-O-(p-NITROPHENYL) PHOSPHOROTHIOATE ◻ O,O-DIETHYL-O-(4-NITROPHENYL) PHOSPHOROTHIOATE ◻ O,O-DIETHYL-O-4-NITROPHENYLPHOSPHOROTHIOATE ◻ DIETHYL-4-NITROPHENYL PHOSPHOROTHIONATE ◻ DIETHYL-p-NITROPHENYLTHIONOPHOSPHATE ◻ O,O-DIETHYL-O-(p-NITROPHENYL)THIONOPHOSPHATE ◻ DIETHYL-p-NITROPHENYLTHIOPHOSPHATE ◻ O,O-DIETHYL-O-p-NITROPHENYL THIOPHOSPHATE ◻ O,O-DIETHYL-O-4-NITROPHENYL THIOPHOSPHATE ◻ DIETHYLPARATHION ◻ O,O-DIETIL-O-(4-NITRO-FENIL)-MONOTIOFOSFATO (ITALIAN) ◻ DNTP ◻ DPP ◻ DREXEL PARATHION 8E ◻ ECATOX ◻ EKATOX ◻ ENT 15,108 ◻ ETHLON ◻ ETHYL PARATHION ◻ FOLIDOL ◻ FOSFERMO ◻ FOSFEX ◻ FOSFIVE ◻ FOSOVA ◻ FOSTERN ◻ FOSTOX ◻ GEARPHOS ◻ GENITHION ◻ KOLPHOS ◻ KYPTHION ◻ LETHALAIRE G-54 ◻ LIROTHION ◻ MURFOS ◻ NCI-C00226 ◻ NIRAN ◻ p-NITROPHENOL, O-ESTER with O,O-DIETHYLPHOSPHOROTHIOATE ◻ NITROSTIGMIN (GERMAN) ◻ NITROSTIGMINE ◻ NOURITHION ◻ OLEOFOS 20 ◻ OLEOPARAPHENE ◻ OLEOPARATHION ◻ ORTHOPHOS ◻ PANTHION ◻ PARADUST ◻ PARAMAR ◻ PARAPHOS ◻ PARATHENE ◻ PARATHION, liquid (DOT) ◻ PARATHION-ETHYL ◻ PARAWET ◻ PESTOX PLUS ◻ PETHION ◻ PHOSKIL ◻ PHOSPHEMOL ◻ PHOSPHENOL ◻ PHOSPHOROTHIOIC ACID, O,O-DIETHYL-O-(4-NITROPHENYL) ESTER ◻ PHOSPHOSTIGMINE ◻ RCRA WASTE NUMBER P089 ◻ RHODIASOL ◻ RHODIATOX ◻ RHODIATROX ◻ SELEPHOS ◻ SIXTY-THREE SPECIAL E.C. INSECTICIDE ◻ SNP ◻ SOPRATHION ◻ STATHION ◻ STRATHION ◻ SULPHOS ◻ SUPER RODIATOX ◻ THIOPHOS ◻ THIOPHOSPHATE de O,O-DIETHYLE et de O-(4-NITROPHENYLE) (FRENCH) ◻ TIOFOS ◻ TOX 47 ◻ VAPOPHOS ◻ VITREX

TOXICITY DATA with REFERENCE:

mma-sat 500 µg/plate JTEHD6 16,403,85

dns-hmn:fbr 10 μmol/L NTIS** PB268-647
orl-man TDLo:429 μg/kg/4D-I:SYS TXAPA9 14,603,69
orl-hmn LDLo:171 μg/kg CMEP** -,1,56
orl-wmn TDLo:5670 μg/kg:CNS,PUL,KID ANYAA9 160,383,69
orl-wmn TDLo:2 mL/kg JTCTDW 31,497,93
orl-hmn LD50:3 mg/kg 85JFAN A311,86
skn-hmn LDLo:7143 μg/kg SKEZAP 9,1,68
itr-hmn LDLo:714 μg/kg SKEZAP 9,1,68
orl-rat LD50:2 mg/kg TXAPA9 11,546,67
ihl-rat LC50:84 mg/m^3/4H NTIS** AD-A041-973
skn-rat LD50:6800 μg/kg TXAPA9 2,88,60
ipr-rat LD50:3600 μg/kg PSEBAA 114,509,63
ims-rat LD50:6 mg/kg JCINAO 37,350,58
orl-mus LD50:5 mg/kg ABCHA6 30,181,66
ihl-mus LCLo:15 mg/m^3 85GMAT -,52,82
skn-mus LD50:19 mg/kg ABCHA6 26,257,62

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Human Inadequate Evidence IMEMDT 30,153,83; Animal Inadequate Evidence IMEMDT 30,153,83. NCI Carcinogenesis Bioassay (feed); Clear Evidence: rat NCITR* NCI-CG-TR-70,79; (feed); No Evidence: mouse NCITR* NCI-CG-TR-70,79. EPA Farm Worker Field Reentry FEREAC 39,16888,74. EPA Extremely Hazardous Substances List. Community Right-To-Know List. EPA Genetic Toxicology Program.

OSHA PEL: TWA 0.1 mg/m^3 (skin)

ACGIH TLV: TWA 0.05 mg/m^3 (skin); Not Classifiable as a Human Carcinogen)); BEI: 0.5 mg/g creatinine in urine at end of shift; Not Classifiable as a Human Carcinogen

DFG MAK: 0.1 mg/m^3; BAT: 500 μg/L p-nitrophenol in urine after several shifts

NIOSH REL: (Parathion) TWA 0.05 mg/m^3

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A deadly poison by all routes. Human systemic effects by ingestion: general anesthetic; pulmonary effects; and kidney, ureter, bladder effects, true cholinesterase changes. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Human mutation data reported. A cholinesterase inhibitor. Parathion, like the other organic phosphorus poisons, acts as an irreversible inhibitor of the enzyme cholinesterase and thus allows the accumulation of large amounts of acetylcholine. When a critical level of cholinesterase depletion is reached, grave symptoms appear. Whether death is actually caused entirely by cholinesterase depletion or by the disturbance of a number of enzymes is not yet known. Recovery is apparently complete if a poisoned animal or human has time to re-form a critical amount of cholinesterase. The organism exposed remains susceptible to relatively low dosages of parathion until the cholinesterase has regenerated. Small doses at frequent intervals are, therefore, more or less additive. There is no indication that, when recovery from a given exposure is entirely complete, the exposed organism is prejudiced in any way. Combustible when exposed to heat or flame. Violent reaction with endrin. Highly dangerous; shock can shatter the container, releasing the contents. A broad spectrum insecticide in agricultural applications. When heated to decomposition it emits highly toxic fumes of NO_x, PO_x, and SO_x.

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

PAK230 HR: 3
PARATHION and compressed gas mixture (DOT)

DOT: NA 1967

SYN: PHOSPHOROTHIOIC ACID-O,O-DIETHYL, O-(p-NITROPHENYL)ESTER, mixed with compressed gas

DOT CLASSIFICATION: 2.3; Label: Poison Gas

SAFETY PROFILE: A poison gas. Questionable carcinogen. When heated to decomposition it emits very toxic fumes of PO_x, SO_x, and NO_x. See also PARATHION.

PAK250 CAS: 9002-64-6 HR: D
PARATHORMONE

SYNS: KAKERBIN □ PARATHYRIN □ PARATHYROID HORMONE □ PTH

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PAK300 CAS: 611-59-6 HR: D
PARAXANTHINE

mf: $C_7H_8N_4O_2$ mw: 180.19

PROP: Plates from H_2O. Mp: 298−299°.

SYNS: 1,7-DIMETHYLXANTHINE □ 1H-PURINE-2,6-DIONE, 3,7-DIHYDRO-1,7-DIMETHYL-(9CI)

TOXICITY DATA with REFERENCE:
mmo-esc 150 mg/L CSHSAZ 16,337,52
dns-hmn:oth 1 mmol/L BIOJAU 35,665,81

SAFETY PROFILE: An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PAL500 CAS: 144-11-6 HR: 3
PARKOPAN

mf: $C_{20}H_{31}NO$ mw: 301.52

SYNS: BENZHEXOL □ α-CYCLOHEXYL-α-PHENYL-1-PIPERIDINEPROPANOL □ 2-CYCLOHEXYL-2-PHENYL-1-PIPERIDINO-1-PROPANOL □ TRIHEXYLPHENIDYL □ TRIPHENIDYL

TOXICITY DATA with REFERENCE:
ipr-mus LD50:150 mg/kg ARZNAD 21,1727,71
scu-mus LD50:202 mg/kg AEPPAE 226,18,55
ivn-mus LD50:41 mg/kg AEPPAE 226,18,55

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

PAL600 CAS: 1597-82-6 HR: 3
PARMATHASONE ACETATE

mf: $C_{24}H_{31}FO_6$ mw: 434.55

PROP: Crystals from Me_2CO/hexane. Mp: 180°.

SYNS: 21-ACETYL-6-α-FLUORO-16-α-METHYLPREDNISOLONE □ 6-α-FLUORO-16-α-METHYL-PREDNISOLONE-21-ACETATE □ HALDRONE □ 16-α-METHYL-6-α-FLUORO-PREDNISOLONE-21-ACETATE □ MONOCORTIN □ PARAMETHASONE 21-ACETATE □ PARAMETHAZONE ACETATE □ SINTECORT □ STEMAX

TOXICITY DATA with REFERENCE:
ipr-rat LD50:392 mg/kg TXAPA9 18,185,71

SAFETY PROFILE: Poison by intraperitoneal route. An experimental teratogen. When heated to decomposition it emits toxic fumes of F^-.

PAL650 CAS: 61869-08-7 HR: D
PAROXETINE
mf: $C_{19}H_{20}FNO_3$ mw: 329.40

PROP: White or off-white crystalline powder, odorless with a slight bitterness. Sol in methanol, ethanol; slt sol in water.

SYNS: FG 7051 □ PIPERIDINE,3-((1,3-BENZODIOXOL-5-YLOXY)METHYL)-4-(4-FLUOROPHENYL)-, trans-(−)-

TOXICITY DATA with REFERENCE:
orl-wmn TDLo:400 μg/kg:PNS JCLPDE 58,175,1997
orl-wmn TDLo:1400 μg/kg/7W-I:SYS AJPSAO 153,134,1996
orl-wmn TDLo:4200 μg/kg/3W-I:GLN AIMEAS 125,782,1996
orl-man TDLo:6700 μg/kg:BAH AJEMEN 11,682,1993
orl-wmn TDLo:2800 μg/kg/7D-I:SYS MJAUAJ 163,390,1995

SAFETY PROFILE: Experimental reproductive effects. Human systemic effects: changes in sodium levels, changes in urine composition, excitement, hyperglycemia, paresthesis. When heated to decomposition it emits toxic vapors of NO_x and F^-.

PAL750 CAS: 8000-68-8 HR: 2
PARSLEY OIL

PROP: From steam distillation of above-ground parts (herb oil) or ripe seed (seed oil) of *Petroselinium sativum Hoffm.* (Fam. *Umbelligerae*). Yellow to light-brown liquid; odor of parsley. D (herb oil): 0.908−0.940, (seed oil): 1.040; refr index (herb oil): 1.503−1.530 @ 20°, (seed oil): 1.513−1.522 @ 20°. Sol in fixed oils, mineral oil; sltly sol in propylene glycol; insol in glycerin.

SYNS: OIL of PARSLEY □ PARSLEY HERB OIL (FCC) □ PARSLEY SEED OIL (FCC) □ PETERSILIENSAMEN OEL (GERMAN)

TOXICITY DATA with REFERENCE:
skn-hmn 10 mg/48H MLD FCTXAV 13,681,75
skn-rbt 500 mg/24H MLD FCTXAV 13,681,75
skn-gpg 500 mg/24H MLD FCTXAV 13,681,75
skn-gpg 100% MLD FCTXAV 13,897,75
orl-rat LD50:3300 mg/kg FCTOD7 21,871,83
orl-mus LD50:1520 mg/kg FCTXAV 13,897,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PAM000 CAS: 113-42-8 HR: 3
PARTERGIN
mf: $C_{20}H_{25}N_3O_2$ mw: 339.48

PROP: Prisms from MeOH/Me_2CO. Mp: 172°.

SYNS: BASOFORTINA □ 9,10-DIDEHYDRO-N-(α-(HYDROXYMETHYL)PROPYL)-6-METHYL-ERGOLINE-8-β-CARBOXAMIDE □ ME 277 □ METHERGINE □ METHYLERGOBASINE □ METHYLERGOBREVIN □ METHYLERGOMETRIN □ METHYLERGOMETRINE □ METHYLERGONOVIN □ METHYLERGONOVINE

TOXICITY DATA with REFERENCE:
orl-rat LD50:93 mg/kg 27ZIAQ -,163,73
ivn-rat LD50:23 mg/kg 27ZQAG -,100,72
orl-mus LD50:187 mg/kg 27ZIAQ -,163,73
ivn-mus LD50:85 mg/kg 27ZIAQ -,163,73
ivn-rbt LD50:2600 μg/kg 27ZIAQ -,163,73

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

PAM175 CAS: 508-59-8 HR: 3
PARTHENICIN
mf: $C_{15}H_{18}O_4$ mw: 262.33

PROP: Crystals from water. Mp: 163−166°. Practically insol in water; sol in alc, chloroform, ether, ethyl acetate.

SYN: PARTHENIN

TOXICITY DATA with REFERENCE:
cyt-hmn:leu 1 nmol/L IJEBA6 16,1117,78
mnt-mus-ipr 200 mg/kg/24H-I IJEBA6 16,1117,78
cyt-ham:ovr 3120 ppb BSECBU 13,365,85
ipr-rat LD50:42 mg/kg JOBSDN 6,729,84

SAFETY PROFILE: Poison by intraperitoneal route. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

PAM500 CAS: 20170-20-1 HR: 2
PASALIN
mf: $C_{20}H_{22}N_4O$ mw: 334.46

SYNS: AP-14 □ DIFENAMIZOLE □ 2-(DIMETHYLAMINO)-N-(1,3-DIPHENYL-1H-PYRAZOL-5-YL) PROPANAMIDE □ DIPHENAMIZOLE □ 1,3-DIPHENYL-5-(2-DIMETHYL-AMINOPROPIONAMIDO)PYRAZOLE

TOXICITY DATA with REFERENCE:
orl-rat LD50:815 mg/kg GDIKAN 20,360,72
ipr-rat LD50:1480 mg/kg IYKEDH 4,467,73
orl-mus LD50:960 mg/kg GDIKAN 20,360,72

SAFETY PROFILE: Moderately toxic by intraperitoneal and ingestion routes. An analgesic and anti-inflammatory agent. When heated to decomposition it emits toxic fumes of NO_x.

PAM775 CAS: 53760-19-3 HR: 3
PASPALIN
mf: $C_{30}H_{39}NO_5$ mw: 493.70

PROP: Long needles from $CHCl_3/Et_2O$. Mp: 258−263°.

SYNS: 21-ACETOXY-7,18-DIHYDROXY-16,18-DIMETHYL-10-PHENYL-(11)CYTOCHALASA-6(12),13,19-TRIENE-1-ONE □ CYTOCHALASIN-H □ KODOCYTOCHALASIN-1 □ PASPALIN P I

TOXICITY DATA with REFERENCE:
cyt-hmn:lym 50 μg/L IJEBA6 16,430,78
ivn-mus LD50:2 mg/kg 85GDA2 2,439,80
ipr-mam LD50:2341 μg/kg INDRBA 15,76,78

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

PAM780 HR: 1
PASQUE FLOWER
PROP: Small perennial herbs bearing yellow, red, white, or purple flowers. Various species are found in Alaska, Canada, and the temperate areas of the United States, and some are native to Europe. They are common in rock gardens.
SYNS: A. CANADENSIS ◻ ANEMONE ◻ ANEMONE (VARIOUS SPECIES) ◻ A. NUTTALLIANA ◻ A. PATENS ◻ APRIL FOOLS ◻ A. PULSATILLA ◻ CATS EYES ◻ GOSLING ◻ HARTSHORN PLANT ◻ LILY OF THE FIELD ◻ LION'S BEARD ◻ NIGHTCAPS ◻ NIMBLE WEED ◻ PRAIRIE CROCUS ◻ PRAIRIE HEN FLOWER ◻ PRIARIE SMOKE ◻ P. VULGARIS ◻ THIMBLEWEED ◻ WILD CROCUS ◻ WINDFLOWER
SAFETY PROFILE: The whole plant contains the poison protoanemonin which is a direct irritant and drying agent. Chewing pieces of the plant causes inflammation and blistering of the mouth and throat. Because of the immediate pain ingestion seldom occurs but can cause vomiting and bloody diarrhea.

PAM782 CAS: 8057-62-3 HR: 2
PASSIONFLOWER EXTRACT
SYNS: PASSIFLORAE INCARNATAE EXTRACTUM ◻ PASSIFLORA EXTRACT ◻ PASSIFLORA INCARNATA, EXTRACT
TOXICITY DATA with REFERENCE:
ipr-rat LD50:3510 mg/kg NIIRDN 6,APP-15,82
ipr-mus LD50:3140 mg/kg NIIRDN 6,APP-15,82
scu-mus LD50:8300 mg/kg KSRNAM 15,3393,81
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

PAM783 CAS: 8014-09-3 HR: 2
PATCHOULY OIL
PROP: Bp: 287°. Flash pt: 190° F. Insol in water.
SYN: PATCHOULI OIL
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTOD7 20,791,82
orl-rat LD50:>5 g/kg FCTOD7 20,791,82
skn-rbt LD50:>5 g/kg FCTOD7 20,791,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

PAM785 CAS: 3060-89-7 HR: 2
PATORAN
mf: $C_9H_{11}BrN_2O_2$ mw: 259.13
PROP: Crystals from cyclohexane. Mp: 95−96°. Vap press at 20°: 0.000003 mm Hg. Solubility in water at 20°: 320 ppm. Sol in methanol, ethanol, acetone, chloroform.
SYNS: N'-(4-BROMOPHENYL)-N-METHOXY-N-METHYLUREA ◻ 3-(p-BROMOPHENYL)-1-METHOXY-1-METHYLUREA ◻ 3-(p-BROMOPHENYL)-1-METHYL-1-METHOXYUREA ◻ 3-(4-BROMPHENYL)-1-METHOXYHARNSTOFF (GERMAN) ◻ C-3126 ◻ CIBA-3126 ◻ METOBROMURON ◻ PATTONEX
TOXICITY DATA with REFERENCE:
eye-rbt 50 mg MLD CIGET* -,-,77
orl-rat LD50:2000 mg/kg WRPCA2 9,119,70
ipr-rat LD50:430 mg/kg PESTD5 17,351,76
orl-mus LD50:2098 mg/kg PESTD5 17,351,76
ipr-mus LD50:847 mg/kg PESTD5 17,351,76
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An eye irritant. When heated to decomposition it emits toxic fumes of Br^- and NO_x.

PAM789 CAS: 53962-20-2 HR: 3
PATRINOSIDE
mf: $C_{21}H_{34}O_{11}$ mw: 462.55
PROP: Amorphous solid.
TOXICITY DATA with REFERENCE:
ipr-mus LD50:555 mg/kg SHZAAY 34,200,80
scu-mus LD50:350 mg/kg SHZAAY 34,200,80
ivn-mus LD50:595 mg/kg SHZAAY 34,200,80
SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by intravenous and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes.

PAM800 CAS: 76319-15-8 HR: 3
PATRINOSIDE-AGLYCONE
mf: $C_{15}H_{24}O_6$ mw: 300.39
TOXICITY DATA with REFERENCE:
ipr-mus LD50:182 mg/kg SHZAAY 34,200,80
scu-mus LD50:234 mg/kg SHZAAY 34,200,80
ivn-mus LD50:143 mg/kg SHZAAY 34,200,80
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes.

PAN100 CAS: 434-07-1 HR: 3
PAVISOID
mf: $C_{21}H_{32}O_3$ mw: 332.53
PROP: Crystals from ethyl acetate. Mp: 185−190°.
SYNS: ADROIDIN ◻ ADROYD ◻ ANADROL ◻ ANADROYD ◻ ANAPOLON ◻ ANASTERON ◻ ANASTERONAL ◻ ANASTERONE ◻ BECOREL ◻ CI-406 ◻ 4,5-DIHYDRO-2-HYDROXYMETHYLENE-17-α-METHYLTESTOSTERONE ◻ DYNASTEN ◻ HMD ◻ 17-β-HYDROXY-2-HYDROXYMETHYL-ENE-17-α-METHYL-3-ANDROSTANONE ◻ 17-β-HYDROXY-2-(HYDROXYMETHYLENE)-17-METHYL-5-α-ANDROSTAN-3-ONE ◻ 17-β-HYDROXY-2-(HYDROXYMETHYLENE)-17-α-METHYL-5-α-ANDROSTAN-3-ONE ◻ 17-HYDROXY-2-(HYDROXYMETHYLENE)-17-METHYL-5-α-17-β-ANDROSTAN-3-ONE ◻ 2-HYDROXYMETHYLENE-17-α-METHYL-5-α-ANDROSTAN-17-β-OL-3-ONE ◻ 2-HYDROXYMETHYLENE-17-α-METHYL-DIHYDROTESTOSTERONE ◻ 2-(HYDROXYMETH-YLENE)-17-α-METHYLDIHYDROTESTOSTERONE ◻ 2-HYDROXYMETHYLENE-17-α-METHYL-17-β-HYDROXY-3-ANDROSTANONE ◻ METHABOL ◻ 17-α-METHYL-2-HYDROXYMETHYLENE-17-HYDROXY-5-α-ANDROSTAN-3-

ONE □ NASTENON □ NSC-26198 □ OXIMETHOLONUM □ OXIMETOLONA □ OXITOSONA-50 □ OXYMETHALONE □ OXYMETHENOLONE □ OXYMETHOLONE □ PARDROYD □ PLENASTRIL □ PROTANABOL □ ROBORAL □ SYNASTERON □ ZENALOSYN

TOXICITY DATA with REFERENCE:
orl-hmn TDLo:46 mg/kg/14W-I:LIV JAMAAP 240,243,78

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal No Adequate Data IMEMDT 7,96,87.

SAFETY PROFILE: Confirmed human carcinogen producing liver tumors. Human systemic effects by ingestion: impaired liver function. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also TESTOSTERONE.

PAN250 CAS: 25265-19-4 HR: 3
PBAN-560

PROP: Terpolymer of polybutadiene, acrylic acid, and acrylonitrile (NTIS** AD441−640).

TOXICITY DATA with REFERENCE:
ipr-mus LDLo:316 mg/kg NTIS** AD441-640

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 toxic fumes of NO_x and CN^-. See also NITRILES and individual components.

PAN500 CAS: 25265-19-4 HR: 2
PBAN-560 (degassed)

PROP: Terpolymer of polybutadiene, acrylic acid, and acrylonitrile (NTIS** AD441−640).

TOXICITY DATA with REFERENCE:
ipr-mus LD50:750 mg/kg NTIS** AD441-640

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

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of CN^-. See also NITRILES and individual components.

PAN750 CAS: 102070-98-4 HR: 2
PC ALCOHOL DF

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV 28ZPAK -,36,72
eye-rbt 250 µg/24H SEV 28ZPAK -,36,72
orl-rat LD50:4230 mg/kg 28ZPAK -,36,72

SAFETY PROFILE: Mildly toxic by ingestion. Severe skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.

PAN775 HR: 3
PCMH

mf: $C_{10}H_{12}N_2O_6$•Mg mw: 280.55

SYNS: MAGNESIUM-5-OXO-2-PYRROLIDINECARBOXYLATE □ 5-OXO-2-PYRROLIDINECARBOXYLIC ACID MAGNESIUM SALT (2:1) □ PYRROLIDONE CARBOXYLATE de MAGNESIUM HYDRATE (FRENCH)

TOXICITY DATA with REFERENCE:
ipr-rat LD50:1460 mg/kg THERAP 31,471,76
orl-mus LD50:11,800 mg/kg THERAP 31,471,76
ipr-mus LD50:1350 mg/kg THERAP 31,471,76
scu-mus LD50:1400 mg/kg THERAP 31,471,76
ivn-mus LD50:305 mg/kg THERAP 31,471,76

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous and intraperitoneal routes. Very mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also MAGNESIUM COMPOUNDS.

PAN800 CAS: 102366-69-8 HR: 3
PE-043

TOXICITY DATA with REFERENCE:
scu-rat LD50:648 mg/kg TOIZAG 15,478,68
ivn-rat LD50:41 mg/kg TOIZAG 15,478,68
orl-mus LD50:15,560 mg/kg TOIZAG 15,478,68
scu-mus LD50:242 mg/kg TOIZAG 15,478,68
ivn-mus LD50:87 mg/kg TOIZAG 15,478,68

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

PAO000 CAS: 8002-03-7 HR: 2
PEANUT OIL

PROP: Straw-yellow to greenish-yellow or nearly colorless oil; nutty odor and bland taste. Mp: 2.7°, flash p: 540°F, d: 0.92, autoign temp: 833°F. Misc with ether, pet ether, chloroform, carbon disulfide; sol in benzene, carbon tetrachloride, oils; very sltly sol in alc. From seed of *Arachis hypogaea* (85DIA2 2,201,77).

SYNS: ARACHIS OIL □ EARTHNUT OIL □ GROUNDNUT OIL □ INDIGENOUS PEANUT OIL □ KATCHUNG OIL □ PECAN SHELL POWDER

TOXICITY DATA with REFERENCE:
skn-hmn 300 mg/3D-I MLD 85DKA8 -,127,77
mma-sat 10 µL/plate FCTXAV 18,467,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A human skin irritant and mild allergen. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Combustible when exposed to heat or flame; can react with oxidizing materials. Slight spontaneous heating. To fight fire, use CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

PAO150 CAS: 9000-69-5 HR: 1
PECTIN

PROP: From citrus peel, apple pomace, or beet pulp. Yellow-white powder. Sol in water; insol in alc.

SYNS: COLYER PECTIN □ GENU □ MEXPECTIN □ METHOXYPECTIN □ METHYL PECTIN □ METHYL PECTINATE □ PECTINATE □ PECTINIC ACID □ PECTINS

TOXICITY DATA with REFERENCE:

scu-mus LD50:6400 mg/kg NYKZAU 56(1),58S,60
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by subcutaneous route. When heated to decomposition it emits acrid smoke and irritating fumes.

PAO160 CAS: 25782-30-3 HR: D
PEDALITIN TETRAACETATE
mf: $C_{24}H_{20}O_{11}$ mw: 484.44
SYNS: 4H-1-BENZOPYRAN-4-ONE,5,6-BIS(ACETYLOXY)-2-(3,4-BIS(ACETYLOXY)PHENYL)-7-METHOXY- □ FLAVONE, 3',4',5,6-TETRAHYDROXY-7-METHOXY-, TETRAACETATE □ 7-METHOXY-3',4',5,6-TETRAHYDROXYFLAVONE TETRAACETATE
TOXICITY DATA with REFERENCE:
mic-sat 100 µLg/plate ENMUDM 3,401,1981
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

PAO170 CAS: 101903-30-4 HR: 2
PEFURAZOATE
mf: $C_{18}H_{23}N_3O_4$ mw: 345.44
PROP: Disinfectant for rice/wheat seeds.
SYNS: BUTANOIC ACID, 2-((2-FURANYLMETHYL)(1H-IMIDAZOL-1-YLCARBONYL)AMINO)- , 4-PENTENYL ESTER □ HEALTHIED □ 4-PENTENYL 2-((2-FURANYLMETHYL)(1H-IMIDAZOL-1-YLCARBONYL)AMINO)BUTANOATE □ PENT-4-ENYL N-FURFURYL-N-IMIDAZOL-1-YLCARBONYL-dl-HOMOALANINATE (IUPAC) □ UHF-8615 □ UR 003
TOXICITY DATA with REFERENCE:
orl-rat LD50:981 mg/kg JPIFAN (57),33,90
ihl-rat LC50:>3450 mg/m^3 JPIFAN (57),33,90
skn-rat LD50:>2 g/kg JPIFAN (57),33,90
orl-mus LD50:946 mg/kg JPIFAN (57),33,90
orl-ckn LD50:4220 mg/kg JPIFAN (57),33,90
orl-qal LD50:2380 mg/kg JPIFAN (57),33,90
SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and skin contact routes. Experimental reproductive effects.

PAO500 CAS: 2858-66-4 HR: 3
PELLETIERINE
mf: $C_8H_{15}NO$ mw: 141.24
PROP: Sltly colored, oily liquid. Bp: 195°, d: 0.988 @ 20°/4°. Sol in alc, ether, chloroform.
SYNS: 2-ACETONYLPIPERIDINE □ ISOPELLETIERINE □ (R)-(−)-PELLETIERINE □ 1-(2-PIPERIDYL)-2-PROPANONE □ PUNICINE
TOXICITY DATA with REFERENCE:
ivn-gpg LDLo:400 mg/kg HBAMAK 4,1289,35
ivn-pgn LDLo:140 mg/kg HBAMAK 4,1289,35
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x.

PAP000 CAS: 18968-99-5 HR: 3
PEMOLINE MAGNESIUM
mf: $C_9H_{10}MgN_2O_4$ mw: 234.52
PROP: Monohydrate, amorph material. Mp: higher than 300°. Insol in water.
SYNS: ABBOTT 30400 □ BIS(AQUO)-N,N'-(2-IMINO-5-PHENYL-4-OXAZOLIDINONE)MAGNESIUM(II) □ CYLERT □ ECYLERT □ (2-IMINO-5-PHENYL-4-OXAZOLIDINONATO(2-))DIAQUO-MAGNESIUM □ 2-IMINO-5-PHENYL-4-OXAZOLIDINONE MAGNESIUM CHELATE □ MAGNESIUM PEMOLINE □ PEMOLIN and MAGNESIUM HYDROXIDE □ PEMOLINE MAGNESIUM CHELATE □ PMH □ TAMILAN
TOXICITY DATA with REFERENCE:
orl-rat LD50:485 mg/kg ARZNAD 23,810,73
orl-mus LD50:500 mg/kg AIPTAK 181,441,69
ipr-mus LD50:487 mg/kg AIPTAK 181,441,69
orl-mky LD50:400 mg/kg AIPTAK 181,441,69
SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x. See also MAGNESIUM COMPOUNDS and ORGANOMETALS.

PAP100 CAS: 6152-95-0 HR: 3
PEMPIDINE HYDROCHLORIDE
mf: $C_{10}H_{21}N{\bullet}ClH$ mw: 191.78
SYN: 1,2,2,6,6-PENTAMETHYLPIPERIDINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:510 mg/kg BJPCAL 13,501,58
ipr-mus LD50:161 mg/kg BJPCAL 13,501,58
ivn-mus LD50:91 mg/kg BJPCAL 13,501,58
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.

PAP110 CAS: 546-48-5 HR: 3
PEMPIDINE TARTRATE
mf: $C_{10}H_{21}N{\bullet}C_4H_6O_6$ mw: 305.42
SYNS: PEMPIDINA TARTRATO (ITALIAN) □ 1,2,2,6,6-PENTAMETHYLPIPERIDINE TARTRATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:400 mg/kg BCFAAI 103,490,64
ipr-mus LD50:164 mg/kg BJPCAL 13,501,58
scu-mus LD50:230 mg/kg BCFAAI 103,490,64
ivn-mus LD50:113 mg/kg BJPCAL 13,501,58
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

PAP225 CAS: 38363-40-5 HR: 3
PENBUTOLOL
mf: $C_{18}H_{29}NO_2$ mw: 291.48
PROP: Crystals. Mp: 68−72°. Sol in methanol, ethanol, chloroform.
SYNS: 1-(2-CYCLOPENTYLPHENOXY)-3-((1,1-DIMETHYLETHYL)AMINO)-2-PROPANOL, (S)- □ HOE 893 □ HOE 893D □ (−)-PENBUTOLOL
TOXICITY DATA with REFERENCE:
mmo-sat 40 µg/plate DCTODJ 12,77,89
orl-rat LD50:1265 mg/kg DRUGAY 22,1,81
ivn-rat LD50:22 mg/kg DRUGAY 22,1,81
orl-mus LD50:1230 mg/kg DRUGAY 22,1,81
ivn-mus LD50:18 mg/kg DRUGAY 22,1,81
orl-rbt LD50:300 mg/kg DRUGAY 22,1,81
ivn-rbt LD50:17 mg/kg DRUGAY 22,1,81

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

PAP230 CAS: 38363-32-5 HR: 3
PENBUTOLOL SULFATE
mf: $C_{18}H_{29}NO_2$•1/2H_2O_4S mw: 340.47
PROP: A solid. Mp: 216−218° (decomp).
SYNS: (−)-1-(tert-BUTYLAMINO)-3-(o-CYCLOPENTYLPHENOXYL)-2-PROPANOL SULFATE □ HOE 893D □ (−)-TERBUCLOMINE
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate MUREAV 204,675,88
dnd-hmn:fbr 50 mg/L MUREAV 204,675,88
orl-rat LD50:1350 mg/kg YKYUA6 36,657,85
ipr-rat LD50:76 mg/kg OYYAA2 21,1001,81
scu-rat LD50:860 mg/kg OYYAA2 21,1001,81
ivn-rat LD50:26 mg/kg YKYUA6 36,657,85
orl-mus LD50:1230 mg/kg OYYAA2 21,1001,81
ipr-mus LD50:71 mg/kg OYYAA2 21,1001,81
scu-mus LD50:405 mg/kg OYYAA2 21,1001,81
ivn-mus LD50:38 mg/kg OYYAA2 21,1001,81
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and subcutaneous routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

PAP240 CAS: 66246-88-6 HR: 2
PENCONAZOLE
mf: $C_{13}H_{15}Cl_2N_3$ mw: 284.21
PROP: White powder. Mp: 56−60°.
SYNS: CGA 71818 □ 1-(2-(2,4-DICHLOROPHENYL)PENTYL)-1H-1,2,4-TRIAZOLE □ ONMEX □ TOPAS □ TOPAS C □ TOPAS MZ □ TOPAZ □ TOPAZE □ TOPAZE C □ 1H-1,2,4-TRIAZOLE, 1-(2-(2,4-DICHLOROPHENYL)PENTYL)-
TOXICITY DATA with REFERENCE:
skn-rat LD50:>3 g/kg DOVEAA 38,195,84
orl-mus LD50:2444 mg/kg DOVEAA 38,195,84
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

PAP250 CAS: 26864-56-2 HR: 3
PENFLURIDOL
mf: $C_{28}H_{27}ClF_5NO$ mw: 524.01
PROP: White microcrystals. Mp: 105−107°. Sltly sol in water.
SYNS: 4-(4-CHLORO-α,α,α-TRIFLUORO-m-TOLYL)-1-(4,4-BIS(p-FLUOROPHENYL)BUTYL)-4-PIPERIDINOL □ McN-JR-16,341 □ R 16341 □ SEMAP □ TLP-607
TOXICITY DATA with REFERENCE:
orl-rat TDLo:3 mg/kg (lactating female 3D post):REP NSAPCC 279,31,73
orl-mus TDLo:48 mg/kg (7-12D preg):TER OYYAA2 13,581,77
orl-rat LD50:160 mg/kg EJPHAZ 11,139,70
orl-mus LD50:87 mg/kg EJPHAZ 11,139,70
orl-gpg LD50:90 mg/kg EJPHAZ 11,139,70
SAFETY PROFILE: Poison by ingestion and intravenous routes. Experimental teratogenic and reproductive effects. A neuroleptic agent. When heated to decomposition it emits very toxic fumes of Cl^-, F^-, and NO_x.

PAP300 CAS: 1113-41-3 HR: 3
l-PENICILLAMINE
mf: $C_5H_{11}NO_2S$ mw: 149.23
SYNS: 3-MERCAPTO-l-VALINE □ VALINE, 3-MERCAPTO-, l- □ l-VALINE, 3-MERCAPTO-
TOXICITY DATA with REFERENCE:
mic-sat 5 µmol/plate MUREAV 224,89,1989
mic-sat 4 µmol/plate BCPCA6 34,3725,1985
mic-esc 250 µLg/plate MUREAV 467,41,2000
ipr-rat LD50:350 mg/kg PBPSDY 2,465,1979
SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PAP500 CAS: 52-66-4 HR: 3
dl-PENICILLAMINE
mf: $C_5H_{11}NO_2S$ mw: 149.23
PROP: A solid. Mp: 204−205° (decomp).
SYNS: 3-MERCAPTO-dl-VALINE (9CI) □ dl-α-MERCAPTOVALINE
TOXICITY DATA with REFERENCE:
pic-esc 100 mg/L APMBAY 12,234,64
orl-rat LD50:365 mg/kg ARZNAD 22,1434,72
ipr-mus LD50:358 mg/kg TOLED5 26,95,85
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

PAP550 CAS: 2219-30-9 HR: 3
PENICILLAMINE HYDROCHLORIDE
mf: $C_5H_{11}NO_2S$•ClH mw: 185.69
PROP: A solid. Mp: 160−165°.
SYNS: DISTAMINE □ METALCAPTASE □ d-PENICILLAMINE HYDROCHLORIDE □ USAF EL-23
TOXICITY DATA with REFERENCE:
orl-hmn TDLo:5460 mg/kg:SKN BMJOAE 1,838,77
ipr-mus LD50:200 mg/kg NTIS** AD277-689
orl-mam LD50:3670 mg/kg ANTBAL 14,837,69
ivn-mam LD50:2170 mg/kg ANTBAL 14,837,69
SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion and intravenous routes. Human systemic effects by ingestion: dermatitis. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and HCl.

PAP600 CAS: 69388-84-7 HR: 3
PENICILLANIC ACID SULFONE SODIUM SALT
mf: $C_8H_{10}NO_2S$•Na mw: 207.24
SYNS: CP 45899 SODIUM SALT □ PENICILLANIC ACID DIOXIDE SODIUM SALT □ PENICILLANIC ACID 1,1-DIOXIDE SODIUM SALT □ SODIUM-1,1-DIOXOPENICILLANATE □ SODIUM PENICILLANATE 1,1-DIOXIDE □ SODIUM SULBACTAM □ 4-THIA-1-AZABICYCLO(3.2.0)HEPTANE-2-CARBOXYLIC ACID, 3,3-DIMETHYL-7-OXO-, 4,4-DIOXIDE, SODIUM SALT, (2S-cis)-

TOXICITY DATA with REFERENCE:
ivn-rat LD50:6500 mg/kg NKRZAZ 32(Suppl 4),97,84
ivn-mus LD50:8100 µg/kg IYKEDH 17,1106,86
SAFETY PROFILE: Poison by intravenous route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

PAP750 CAS: 90-65-3 HR: 3
PENICILLIC ACID
mf: $C_8H_{10}O_4$ mw: 170.18
PROP: Needles from pet ether or rhombic or hexagonal plates. Mp: 83−84°. Sltly sol in cold water, hot pet ether; very sol in hot water, alc, ether, benzene chloroform; insol in pentane-hexane.
SYNS: γ-KETO-β-METHOXY-Δ-METHYLENE-Δ^{α}-HvEXENOIC ACID ◻ 3-METHOXY-5-METHYL-4-OXO-2,5-HEXADIENOIC ACID ◻ PA ◻ PENCILLIC ACID
TOXICITY DATA with REFERENCE:
mrc-bcs 100 µg/disc CNREA8 36,445,76
dnd-hmn:hla 320 mg/L/1H JJEMAG 42,527,72
scu-rat TDLo:960 mg/kg/48W-I:NEO BJCAAI 15,85,61
ipr-rat LD50:90 mg/kg JTEHD6 7,169,81
orl-mus LD50:600 mg/kg JPETAB 88,119,46
ipr-mus LD50:90 mg/kg TXAPA9 52,1,80
scu-mus LD50:100 mg/kg MEIEDD 10,1017,83
ivn-mus LD50:250 mg/kg JPETAB 88,119,46
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 10,211,76. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intravenous, subcutaneous, and intraperitoneal routes. Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental neoplastigenic data. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

PAQ000 CAS: 1406-05-9 HR: 3
PENICILLIN
mf: $(CH_3)_2C_5H_3NSO(COOH)NHCOOR$ (bicyclic)
PROP: A group of isomeric and closely related antibiotic compounds with outstanding bacterial activity. An extract from *Penicillium notatum* (JPETAB 77,40,43). Different varieties of penicillin are produced by adding the proper precursors to the nutrient solution.
SYN: PENIZILLIN (GERMAN)
TOXICITY DATA with REFERENCE:
ims-man TDLo:12,385 µg/kg/16D-I:SKN MJAUAJ 1,305,47
scu-mus LDLo:3200 mg/kg JPETAB 77,70,43
ivn-mus LDLo:1000 mg/kg JPETAB 77,70,43
ipr-gpg LD50:30 mg/kg 85ERAY 3,1663,78
scu-gpg LD50:30 mg/kg 85ERAY 3,1663,78
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Moderately toxic by intravenous route. Human reproductive effects by ingestion: abortion. Human systemic effects by intramuscular route: dermatitis. Experimental reproductive effects. Has been implicated in aplastic anemia. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

PAQ060 HR: 3
PENICILLIN compounded with CHOLINE CHLORIDE
SYNS: C 172 ◻ PENICILLIN-CHOLINESTER CHLORID (GERMAN)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:62,500 µg/kg ARZNAD 5,698,55
scu-mus LD50:450 mg/kg ARZNAD 5,698,55
ivn-mus LD50:37,500 µg/kg ARZNAD 5,698,55
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-. See also PENICILLIN and CHOLINE.

PAQ100 CAS: 751-84-8 HR: 3
PENICILLIN G BENETHAMINE
mf: $C_{31}H_{35}N_3O_4S$ mw: 545.70l
PROP: Crystals; slt characteristic amine taste. Mp: 146−147°. Very sltly sol in water (0.1 w/v at 40°).
SYNS: BENEPEN ◻ BENETACIL ◻ BENETHAMINE PENICILLIN ◻ BENETHAMINE PENICILLIN G ◻ BENETOLIN ◻ BETAPEN
TOXICITY DATA with REFERENCE:
ivn-rat LD50:122 mg/kg ANTCAO 5, 152,55
ivn-mus LD50:170 mg/kg ANTCAO 5, 152,55
ivn-rbt LD50:55 mg/kg ANTCAO 5, 152,55
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also PENICILLIN.

PAQ120 CAS: 7177-45-9 HR: 3
PENICILLIN G EPHEDRINE SALT
mf: $C_{16}H_{18}N_2O_4S{\bullet}C_{10}H_{15}NO$ mw: 499.68
SYNS: 3,3-DIMETHYL-7-OXO-6-(2-PHENYLACETAMIDO)-4-THIA-1-AZABICYCLO(3.2.0)HEPTANE-2-CARBOXYLIC ACID compounded with EPHEDRINE (1:1) ◻ EPHEDRINE PENICILLIN ◻ TERSAVIN
TOXICITY DATA with REFERENCE:
ipr-rat LD50:680 mg/kg JPETAB 95,336,49
scu-rat LD50:2400 mg/kg JPETAB 95,336,49
ipr-mus LD50:630 mg/kg JPETAB 95,336,49
ivn-mus LD50:175 mg/kg JPETAB 95,336,49
ivn-rat LD50:175 mg/kg JPETAB 95,336,49
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also PENICILLIN and EPHEDRINE.

PAQ200 CAS: 54-35-3 HR: 2
PENICILLIN G PROCAINE
mf: $C_{16}H_{18}N_2O_4S{\bullet}C_{13}H_{20}N_2O_2$ mw: 570.77
SYNS: BENZYLPENICILLIN NOVOCAINE SALT ◻ BENZYLPENICILLIN PROCAINE ◻ DEPOCILLIN ◻ DUPHAPEN ◻ HOSTACILLIN ◻ HYDRACILLIN ◻ JENACILLIN O ◻ MICRO-PEN ◻ NOPCAINE ◻ PENZAL N 300 ◻ PROCAINE BENZYLPENICILLINATE ◻ PROCAINE PENICILLIN G ◻ RETARDILLIN ◻ 4-THIA-1-AZABICYCLO(3.2.0)HEPTANE-2-CARBOXYLIC ACID, 3,3-DIMETHYL-7-OXO-6-(2-PHENYLACETAMIDO)-, compd. with 2-(DIETHYLAMINO)ETHYL p-AMINOBENZOATE (1:1) ◻ VETSPEN ◻ VITABLEND

TOXICITY DATA with REFERENCE:
orl-rat LD50:>2 g/kg ABANAE 3,534,55/56
ipr-rat LD50:420 mg/kg ABANAE 3,534,55/56
ipr-mus LD50:371 mg/kg ABANAE 3,534,55/56
scu-mus LDLo:4 g/kg NYKZAU 55,23,59
ipr-gpg LD50:518 mg/kg ABANAE 3,534,55/56
ims-gpg LD50:1194 mg/kg ABANAE 3,534,55/56
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal and intramuscular routes. Slightly toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x, and SO_x.

PAQ875 HR: 3
PENICILLIUM ROQUEFORTI TOXIN
PROP: Dark green to dark blue-green powder.
SYNS: P. ROQUEFORTI TOXIN □ PR TOXIN □ TOXIN, PENICILLIUM ROQUEFORTI
TOXICITY DATA with REFERENCE:
mmo-sat 625 ng/plate MUREAV 130,79,84
dnd-rat:lvr 25 µmol/L TOERD9 2,273,79
oms-rat-ipr 10 mg/kg CBINA8 14,207,76
oms-rat:lvr 35 mg/L CBINA8 18,153,77
orl-rat TDLo:100 mg/kg/52D-C:ETA MYCPAH 78,125,82
orl-rat LDLo:115 mg/kg APMBAY 25,111,73
ipr-rat LD50:7 mg/kg FEBLAL 88,341,78
ipr-mus LD50:7 mg/kg FEBLAL 88,341,78
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

PAQ900 CAS: 64553-70-4 HR: 2
PENICILLIUM VIRIDICATUM TOXIN
SYNS: P-RC □ P. VIRIDICATUM TOXIN □ TOXIN, PENICILLIUM VIRIDICATUM
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating vapors.

PAR250 CAS: 12627-35-9 HR: 3
PENITREM A
mf: $C_{37}H_{44}ClNO_6$ mw: 634.27
PROP: Amorphous solid. Mp: 237−239°.
SYN: TREMORTIN A
TOXICITY DATA with REFERENCE:
orl-mus LD50:10 mg/kg 41KEAL -,108,78
ipr-mus LDLo:1100 µg/kg CTOXAO 17,45,80
ipr-dog LDLo:500 µg/kg TXAPA9 35,311,76
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. An experimental teratogen. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

PAR500 HR: 3
PENNYROYAL OIL
PROP: Chief constituent is d-pulegone. From steam distillation of *Mentha pulegium L.* (Fam. *Labiatae*) (FCTXAV 12,807,74). Light-yellow liquid; mint odor. Sol in fixed oils, propylene glycol, mineral oil; insol in glycerin.
SYN: AMERICAN PENNYROYAL OIL
TOXICITY DATA with REFERENCE:
skn-mus 100% MOD FCTXAV 12,949,74
orl-rat LD50:400 mg/kg FCTXAV 12,949,74
SAFETY PROFILE: Experimental poison by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

PAR600 CAS: 17088-72-1 HR: 3
PENOCTONIUM BROMIDE
mf: $C_{26}H_{50}NO_2$•Br mw: 488.68
PROP: A solid. Mp: 164−165°.
SYNS: α,α-DICYCLOPENTYL-ACETIC ACID-DIETHYLAMINO-ETHYLESTER BROMOCTYLATE □ N-(2-((DICYCLOPENTYL-ACETYL)OXY)ETHYL)-N,N-DIETHYL-1-OCTANAMINIUM BROMIDE (9CI) □ α,α-DICYCLOPENTYLESSIGSAURE-DIAETHYLAMINO-AETHYLESTER-BROMOCTYLAT (GERMAN) □ UG 767
TOXICITY DATA with REFERENCE:
eye-rbt 1% ARZNAD 18,137,68
orl-rat LD50:1200 mg/kg ARZNAD 18,137,68
ivn-rat LD50:19 mg/kg ARZNAD 18,137,68
orl-mus LD50:900 mg/kg ARZNAD 18,137,68
ipr-mus LD50:26 mg/kg ARZNAD 18,137,68
scu-mus LD50:60 mg/kg ARZNAD 18,137,68
ivn-mus LD50:20 mg/kg ARZNAD 18,137,68
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. An eye irritant. When heated to decomposition it emits toxic fumes of Br^- and NO_x. See also BROMIDES.

PAR750 CAS: 13820-81-0 HR: 3
PENTAAMMINEAQUACOBALT(III) CHLORATE
mf: $Cl_3CoH_{17}N_5O_{10}$ mw: 412.44
CONSENSUS REPORTS: Cobalt and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Explodes on impact or heating to 130°C. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also CHLORATES and COBALT COMPOUNDS.

PAR799 CAS: 41481-90-7 HR: 3
PENTAAMMINEPYRAZINERUTHENIUM(II) PERCHLORATE
mf: $C_4H_{19}Cl_2N_7O_8Ru$ mw: 465.21
PROP: Orange-red crystals from H_2O.
SAFETY PROFILE: An extremely shock-sensitive explosive. When heated to decomposition it emits very toxic fumes of RuO_4, Cl^- and NO_x. See also PERCHLORATES and RUTHENIUM COMPOUNDS.

PAS829 CAS: 19482-31-6 HR: 3
PENTAAMMINEPYRIDINERUTHENIUM(II) PERCHLORATE
mf: $C_5H_{20}Cl_2N_6O_8Ru$ mw: 464.22

SAFETY PROFILE: An extremely touch-sensitive explosive. When heated to decomposition it emits very toxic fumes of RuO_4, Cl^- and NO_x. See also PERCHLORATES and RUTHENIUM COMPOUNDS.

PAS835 CAS: 55208-38-3 HR: D
PENTAAMMINE(THEOPHYLLINE)RUTHENIUM-(3+) TRICHLORIDE
SYN: RUTHENIUM(3+), PENTAAMMINE(THEOPHYLLINE)-, TRICHLORIDE
TOXICITY DATA with REFERENCE:
mic-sat 400 µmol/L CBINA8 31,355,1980
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, Rh, and Cl^-.

PAS859 CAS: 15663-42-0 HR: 3
PENTAAMMINETHIOCYANATOCOBALT(III) PERCHLORATE
mf: $CH_{15}Cl_2CoN_6O_8S$ mw: 401.06
CONSENSUS REPORTS: Cobalt and its compounds are on the Community Right-To-Know List.
PROP: Dark pink solid.
SAFETY PROFILE: Explodes when heated to 325°C. It has medium impact-sensitivity. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also PERCHLORATES and COBALT COMPOUNDS.

PAS879 CAS: 38139-15-0 HR: 3
PENTAAMMINETHIOCYANATORUTHENIUM(II) PERCHLORATE
mf: $CH_{15}Cl_2N_6O_8RuS$ mw: 443.20
PROP: Violet-red crystals. Sol in water.
SAFETY PROFILE: The dry material and its solutions in ether are extremely touch-sensitive explosives. When heated to decomposition it emits very toxic fumes of RuO_4, Cl^-, and NO_x. See also PERCHLORATES and RUTHENIUM COMPOUNDS.

PAT750 CAS: 19624-22-7 HR: 3
PENTABORANE(9)
DOT: UN 1380
mf: B_5H_9 mw: 63.14
PROP: Colorless gas or liquid; bad odor. Mp: −46.6°, bp: 60°, d: 0.61 @ 0°, vap d: 2.2, vap press: 66 mm @ 0°, lel: 0.42%. Sol in THF, diglyme, Et_2O, and hexane. IDLH 1 ppm.
SYN: PENTABORANE (ACGIH,DOT,OSHA)
TOXICITY DATA with REFERENCE:
ihl-rat LC50:6 ppm/4H AIHAAP 19,46,58
ipr-rat LD50:11,100 µg/kg 14KTAK -,693,64
ihl-mus LC50:3400 ppb/4H AIHAAP 19,46,58
ihl-dog LC50:92 mg/m^3/15M JPETAB 145,382,64
ihl-mky LC50:640 mg/m^3/2M JPETAB 145,382,64
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.005 ppm; STEL 0.015 ppm
ACGIH TLV: TWA 0.005 ppm; STEL 0.013 ppm
DFG MAK: 0.005 ppm (0.013 mg/m^3)
DOT CLASSIFICATION: 4.2; Label: Spontaneously Combustible, Poison
SAFETY PROFILE: Poison by inhalation and intraperitoneal routes. Dangerous fire hazard by chemical reaction; spontaneously flammable in air. Dangerous explosion hazard. To fight fire, use special fire-fighting materials; water is not effective; reacts violently with halogenated extinguishing agents. Get instructions from supplier. Explosive reaction with oxygen. Forms shock-sensitive solutions in solvents containing carbonyl, ether, or ester functions; or halogens. Incompatible with dimethyl sulfoxide. Upon decomposition it emits toxic fumes of B. See also BORANES and BORON COMPOUNDS.

PAT799 CAS: 18433-84-6 HR: 3
PENTABORANE(11)
mf: B_5H_{11} mw: 65.16
PROP: Colorless liquid. Mp: −123°, bp: 63°.
SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of B. See also BORANES and BORON COMPOUNDS.

PAT820 CAS: 107555-93-1 HR: D
1,2,3,7,8-PENTABROMODIBENZOFURAN
mf: $C_{12}H_3Br_5O$ mw: 562.70
SYN: DIBENZOFURAN, 1,2,3,7,8-PENTABROMO-
SAFETY PROFILE: Experimental reproductive effects reported. When heated to decomposition it emits toxic fumes of NO_x and Cl^-.

PAT830 CAS: 32534-81-9 HR: 3
PENTABROMODIPHENYL ETHER
mf: $C_{12}H_5Br_5O$ mw: 564.72
SYNS: BENZENE, 1,1'-OXYBIS-, PENTABROMO DERIV. □ BROMKAL G1 □ DE60FTM □ PENTABROMODIPHENYL ETHER (DE-71) □ PENTABROMODIPHENYL OXIDE □ PLANELON PB 501 □ SAYTEX 125
TOXICITY DATA with REFERENCE:
skn-rbt 500 µL/24H MLD NTIS** OTS0522196
skn-rbt 100 µL/24H MOD NTIS** OTS0522196
orl-rat LD50:5 g/kg NTIS** OTS0522287
skn-rat LDLo:5500 mg/kg NTIS** OTS0522196
orl-mus TDLo:0.8 mg/kg TXCYAC 86,49,1994
ihl-rat LC :>200 g/m^3/1H NTIS** OTS0540414
skn-rbt LD :>2 g/kg NTIS** OTS0540414
SAFETY PROFILE: A poison by ingestion. Moderately toxic by inhalation. Low toxicity by skin contact. A moderate skin irritant. When heated to decomposition it emits toxic vapors of Br^-.

PAT850 CAS: 85-22-3 HR: 1
2,3,4,5,6-PENTABROMOETHYLBENZENE
mf: $C_8H_5Br_5$ mw: 500.68
SYNS: PENTABROMOETHYLBENZENE □ BENZENE, PENTABROMOETHYL- □ EB 80
TOXICITY DATA with REFERENCE:
skn-rbt LD50:>8 g/kg TSCAT* OTS0515763
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by skin contact. When heated to decomposition it emits toxic vapors of Br^-.

PAU250 CAS: 608-71-9 HR: 3
PENTABROMOPHENOL
mf: C_6HBr_5O mw: 488.62
PROP: Needles from EtOH. Mp: 229.5°, bp: subl. Insol in water; sltly sol in alc and ether.
SYN: PENTABROMFENOL
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:250 mg/kg CBCCT* 5,288,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of Br^-. See also BROMIDES.

PAU500 CAS: 1163-19-5 HR: 2
PENTABROMOPHENYL ETHER
mf: $C_{12}Br_{10}O$ mw: 959.22
SYNS: BERKFLAM B 10E □ BR 55N □ BROMKAL 83-10DE □ BROMKAL 82-ODE □ DBDPO □ DECABROMOBIPHENYL ETHER □ DECABROMOBIPHENYL OXIDE □ DECABROMODIPHENYL OXIDE □ DECABROMOPHENYL ETHER □ DE 83R □ FR 300 □ FRP 53 □ NCI-C55287 □ 1,1'-OXYBIS(2,3,4,5,6-PENTABROMOBENZENE) (9CI) □ SAYTEX 102 □ SAYTEX 102E □ TARDEX 100
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 48,73,90; Animal Limited Evidence IMEMDT 48,73,90. NTP Carcinogenesis Studies (feed); Some Evidence: rat NTPTR* NTP-TR-309,86; (feed); Equivocal Evidence: mouse NTPTR* NTP-TR-309,86. Polybrominated biphenyl compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Experimental reproductive effects. Used as a flame retardant for thermoplastics. When heated to decomposition it emits toxic fumes of Br^-. See also ETHERS and BROMIDES.

PAU600 CAS: 3555-11-1 HR: D
PENTABROMO(2-PROPENYLOXY)BENZENE
mf: $C_9H_5Br_5O$ mw: 528.69
SYNS: ALLYLOXYPENTABROMOBENZENE □ ALLYLPENTABROMOPHENYLETHER □ BENZENE, PENTABROMO(2-PROPENYLOXY)-(9CI) □ ETHER, ALLYL PENTABROMOPHENYL □ FLAMMEX 5AE □ PENTABROMOPHENYLALLYLETHER
TOXICITY DATA with REFERENCE:
mor-ham:kdy 1900 mg/L EPASR* 8EHQ-0179-0268
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of Br^-.

PAU700 CAS: 15710-39-1 HR: 3
PENTACARBONYL(PIPERIDINE)CHROMIUM
mf: $C_{10}H_{11}CrNO_5$ mw: 277.22
SYNS: CHROMIUM, PENTACARBONYL(PIPERIDINE)- □ CHROMIUM, PENTACARBONYL(PIPERIDINE)-, (OC-6-22)- □ (PIPERIDINE)CHROMIUM PENTACARBONYL □ PIPERIDINE-PENTACARBONYLCHROMIUM □ PIPERIDINPENTAKARBONYLCHROMIUM
TOXICITY DATA with REFERENCE:
ivn-mus LD50:708 µg/kg 85JCAE-,1284,1986
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and Cr.

PAV000 CAS: 135-48-8 HR: D
PENTACENE
mf: $C_{22}H_{14}$ mw: 278.36
PROP: Deep blue needles. Mp: 270–271°. Insol in water; sltly sol in org solvs.
SYNS: BENZO(B)NAPHTHACENE □ 2,3:6,7-DIBENZANTHRACENE □ LIN-DIBENZANTHRACENE □ LINNAPHTHOANTHRACENE
TOXICITY DATA with REFERENCE:
dnd-mam:lym 20 mg BIPMAA 4,409,66
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

PAV225 CAS: 1768-31-6 HR: 3
PENTACHLOROACETONE
mf: C_3HCl_5O mw: 230.29
PROP: A liquid; odor resembling chloral. D: 1.69 @ 15°, bp: 192°. Sol in H_2O.
SYNS: 1,1,1,3,3-PENTACHLOROPROPANONE □ 1,1,1,3,3-PENTACHLORO-2-PROPANONE
TOXICITY DATA with REFERENCE:
mmo-sat 300 µL/plate ENMUDM 7,163,85
mrc-smc 100 µL/L MUREAV 155,53,85
orl-rat LD50:200 mg/kg 85GMAT -,96,82
ihl-mus LC50:450 mg/m^3/2H 85GMAT -,96,82
SAFETY PROFILE: Poison by inhalation and ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

PAV250 CAS: 25201-35-8 HR: 3
PENTACHLOROACETOPHENONE
mf: $C_8Cl_5H_3O$ mw: 292.36
PROP: Crystals from EtOH. Mp: 90°.
SYN: 2',3',4',5',6'-PENTACHLOROACETOPHENONE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1250 mg/kg GTPZAB 24(3),48,80
skn-rat LD50:1800 mg/kg GTPZAB 24(3),48,80
ipr-rat LD50:290 mg/kg GTPZAB 24(3),48,80
orl-mus LD50:700 mg/kg GTPZAB 24(3),48,80
ipr-mus LD50:160 mg/kg GTPZAB 24(3),48,80
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

PAV300 CAS: 29450-63-3 HR: 2
PENTACHLOROBENZALDEHYDE OXIME

mf: $C_7H_2Cl_5NO$ mw: 293.35
SYNS: BENZALDEHYDE, PENTACHLORO-, OXIME □ CBA (PESTICIDE)
TOXICITY DATA with REFERENCE:
orl-mus LD50:2 g/kg JKXXAF #71-42796
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

PAV500 CAS: 608-93-5 HR: 2
PENTACHLOROBENZENE
mf: C_6HCl_5 mw: 250.32
PROP: Needles from alc. D: 1.834 @ 17°, mp: 85−86°, bp: 275−277°; insol in water; sol in hot alc; very sol in ether.
SYNS: QCB □ RCRA WASTE NUMBER U183
TOXICITY DATA with REFERENCE:
orl-rat LD50:1080 mg/kg JEPTDQ 4(5-6),183,80
orl-mus LD50:1175 mg/kg JEPTDQ 4(5-6),183,80
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, AROMATIC.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Polychlorobenzenes, 5517.

PAV600 CAS: 25429-29-2 HR: 2
PENTACHLOROBIPHENYL
mf: $C_{12}H_5Cl_5$ mw: 326.42
SYNS: APIROLIO 1476 C □ BIPHENYL, PENTACHLORO- □ 1,1'-BIPHENYL, PENTACHLORO-(9CI) □ DIPHENYL PENTACHLORIDE □ KANEKROL 500 □ PENTACHLORODIPHENYL □ PYRALENE 1476 □ PYROCLOR 5
TOXICITY DATA with REFERENCE:
unr-rat LD50:3580 mg/kg GISAAA 53(5),6,88
SAFETY PROFILE: Moderately toxic by unspecified route. When heated to decomposition it emits toxic fumes of Cl^-.

PAV610 CAS: 38380-02-8 HR: 2
2,2′,3,4,5′-PENTACHLOROBIPHENYL
mf: $C_{12}H_5Cl_5$ mw: 326.42
SYNS: 1,1'-BIPHENYL, 2,2',3,4,5'-PENTACHLORO- □ PCB 87 □ 2,2',3',4',5-PENTACHLOROBIPHENYL □ 2,3,4,2',5'-PENTACHLOROBIPHENYL □ 2,5,2',3',4'-PENTACHLOROBIPHENYL □ 2,2',3,4,5'-PENTACHLORODIPHENYL
TOXICITY DATA with REFERENCE:
ipr-rat TDLo:150 mg/kg/3D-I TXAPA9 33,94,75
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of Cl^-.

PAV620 CAS: 31508-00-6 HR: D
2,3′,4,4′,5-PENTACHLOROBIPHENYL
mf: $C_{12}H_5Cl_5$ mw: 326.42
SYNS: BIPHENYL, 2,3',4,4',5-PENTACHLORO- □ 1,1'-BIPHENYL, 2,3',4,4',5-PENTACHLORO- □ PCB 118 □ 3,4,2',4',5'-PENTACHLOROBIPHENYL
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of Cl^-.

PAV630 CAS: 32598-14-4 HR: 3
2,3,3′,4,4′-PENTACHLOROBIPHENYL
mf: $C_{12}H_5Cl_5$ mw: 326.42
SYNS: BIPHENYL, 2,3,3',4,4'-PENTACHLORO- □ 1,1'-BIPHENYL, 2,3,3'4,4'-PENTACHLORO-(9CI) □ PCB 105 □ PENCB □ 2,3,3'4,4'-PENTACHLORO-1,1'-BIPHENYL □ 2,3,4,3',4'-PENTACHLORO-BIPHENYL □ 3,4,2',3',4'-PENTACHLOROBIPHENYL
TOXICITY DATA with REFERENCE:
ipr-mus LD50:400 mg/kg CPBTAL 24,2168,76
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of Cl^-.

PAV700 CAS: 57465-28-8 HR: D
3,3′,4,4′,5-PENTACHLOROBIPHENYL
mf: $C_{12}H_5Cl_5$ mw: 326.42
SYNS: 1,1'-BIPHENYL, 3,3',4,4',5-PENTACHLORO- □ PCB 126 □ 3,4,3',4',5'-PENTACHLOROBIPHENYL □ 3,3',4,4',5-PENTACHLORO-1,1'-BIPHENYL
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of Cl^-.

PAV750 CAS: 31391-27-2 HR: 2
PENTACHLOROBUTANE
mf: $C_4H_5Cl_5$ mw: 230.34
TOXICITY DATA with REFERENCE:
orl-mus LD50:2500 mg/kg GISAAA 28,9,63
orl-gpg LD50:1400 mg/kg GISAAA 28,9,63
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

PAV775 HR: D
2,2,3,4,4-PENTACHLORO-3-BUTENOIC ACID
mf: $C_4HCl_5O_2$ mw: 258.30
SYN: PENTACHLORO-3-BUTENOIC ACID
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate MUREAV 137,89,84
otr-ham:emb 800 µg/L CALEDQ 23,297,84
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

PAV780 CAS: 319-94-8 HR: 2
γ-PENTACHLOROCYCLOHEXENE
mf: $C_6H_5Cl_5$ mw: 254.36
SYNS: CYCLOHEXENE, 1,3,4,5,6-PENTACHLORO-, (3-α-4-β,5-β,6α- (9CI) □ CYCLOHEXENE, 1,3,4,5,6-PENTACHLORO-, γ- □ γ-PCCH
TOXICITY DATA with REFERENCE:
orl-rat LD50:2930 mg/kg GISAAA 44(10),64,79
orl-mus LD50:3690 mg/kg GISAAA 44(10),64,79
ipr-mus LD50:2110 mg/kg JESEDU 11,95,76

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of Cl^-.

PAV800 CAS: 25329-35-5 HR: D
1,2,3,4,5-PENTACHLOROCYCLOPENTADIENE
mf: C_5HCl_5 mw: 238.31
SYNS: 1,3-CYCLOPENTADIENE, 1,2,3,4,5-PENTACHLORO- □ PENTACHLOROCYCLOPENTADIENE □ PENTACHLORO-2,4-CYCLOPENTADIEN-1-YL
TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate CNJGA8 24,437,82
mmo-esc 240 µmol/L BCPCA6 27,2927,78
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of Cl^-.

PAV810 CAS: 6262-51-7 HR: 3
PENTACHLOROCYCLOPROPANE
mf: C_3HCl_5 mw: 214.29
PROP: Colorless liquid. Bp: 55−56°.
SYN: CYCLOPROPANE, PENTACHLORO-
TOXICITY DATA with REFERENCE:
orl-rat LDLo:78 mg/kg EPASR* 8EHQ-0587-0678
skn-rat LDLo:2 g/kg EPASR* 8EHQ-0587-0678
SAFETY PROFILE: A poison by ingestion. Moderately toxic by skin contact route. When heated to decomposition it emits toxic vapors of Cl^-.

PAV820 CAS: 39227-61-7 HR: 2
1,2,3,4,7-PENTACHLORODIBENZO-p-DIOXIN
mf: $C_{12}H_3Cl_5O_2$ mw: 356.40
SYNS: DIBENZO-p-DIOXIN, 1,2,3,4,7-PENTACHLORO- □ 1,2,3,4,7-PENTACHLORODIBENZODIOXIN
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,41,77; Human No Adequate Data IMEMDT 15,41,77.
SAFETY PROFILE: Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl^-.

PAV840 CAS: 58802-08-7 HR: 3
1,2,4,7,8-PENTACHLORODIBENZO-p-DIOXIN
mf: $C_{12}H_3Cl_5O_2$ mw: 356.40
SYN: DIBENZO-p-DIOXIN, 1,2,4,7,8-PENTACHLORO-
TOXICITY DATA with REFERENCE:
orl-mus LD50:>5 mg/kg TXAPA9 44,335,78
orl-gpg LD50:1125 µg/kg TXAPA9 44,335,78
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,41,77; Human No Adequate Data IMEMDT 15,41,77.
SAFETY PROFILE: A poison by ingestion. Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl^-.

PAV850 CAS: 40321-76-4 HR: 3
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN
mf: $C_{12}H_3Cl_5O_2$ mw: 356.40
PROP: Crystals from $CHCl_3$/MeOH. Mp: 240−241°.
TOXICITY DATA with REFERENCE:
orl-rat LD50:206 µg/kg ARTODN 66,471,92
orl-mus LD50:337,500 ng/kg TXAPA9 44,335,78
orl-gpg LD50:3100 ng/kg TXAPA9 44,335,78
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,41,77; Human No Adequate Data IMEMDT 15,41,77
SAFETY PROFILE: Poison by ingestion. Questionable carcinogen. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, AROMATIC.

PAV860 CAS: 57117-41-6 HR: D
1,2,3,7,8-PENTACHLORODIBENZOFURAN
mf: $C_{12}H_3Cl_5O$ mw: 340.40
SYN: DIBENZOFURAN, 1,2,3,7,8-PENTACHLORO-
SAFETY PROFILE: Experimental reproductive effects reported. When heated to decomposition it emits toxic vapors of Cl^-.

PAW100 CAS: 57117-31-4 HR: 3
2,3,4,7,8-PENTACHLORODIBENZOFURAN
mf: $C_{12}H_3Cl_5O$ mw: 340.40
SYN: DIBENZOFURAN, 2,3,4,7,8-PENTACHLORO-
TOXICITY DATA with REFERENCE:
orl-rat LD50:916 µg/kg FAATDF 11,236,88
ivn-mky LDLo:34 µg/kg TXAPA9 93,231,88
orl-gpg LDLo:10 µg/kg ANYAA9 320,151,79
SAFETY PROFILE: Poison by ingestion and intravenous routes. An experimental teratogen. When heated to decomposition it emits toxic fumes of Cl^-.

PAW250 CAS: 42279-29-8 HR: 3
PENTACHLORO DIPHENYL OXIDE
mf: $C_{12}H_5Cl_5O$ mw: 342.42
SYNS: ETHER, PENTACHLOROPHENYL □ PHENYL ETHER PENTACHLORO
TOXICITY DATA with REFERENCE:
orl-gpg LDLo:100 mg/kg 14CYAT 2,1707,63
OSHA PEL: TWA 0.5 mg/m^3
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of Cl^-.

PAW500 CAS: 76-01-7 HR: 3
PENTACHLOROETHANE
DOT: UN 1669
mf: C_2HCl_5 mw: 202.28
PROP: Colorless liquid; chloroform-like odor. Mp: −29°, bp: 161−162°, d: 1.6728 @ 25°/4°. Insol in water; misc in alc and ether.
SYNS: ETHANE PENTACHLORIDE □ NCI-C53894 □ PENTACHLOORETHAAN (DUTCH) □ PENTACHLORAETHAN (GERMAN) □ PENTACHLORETHANE (FRENCH) □ PENTACLOROETANO (ITALIAN) □ PENTALIN □ RCRA WASTE NUMBER U184
TOXICITY DATA with REFERENCE:
msc-mus:lyms 70 mg/L EMMUEG 12,85,88
sce-ham:ovr 100 mg/L SCIEAS 236,933,87
orl-mus TDLo:129 g/kg/2Y-I:CAR NTPTR* NTP-TR-232,82
orl-mus TD:258 g/kg/2Y-I:CAR NTPTR* NTP-TR-232,82
orl-rat LD50:920 mg/kg: SCIEAS 36(1-4),10,89

ihl-rat LC50:4238 ppm/2H 85JCAE -,97,86
ihl-mus LCLo:35 mg/m^3/2H AEPPAE 141,19,29
orl-dog LDLo:500 mg/kg AJHYA2 16,325,32
ivn-dog LDLo:100 mg/kg QJPPAL 7,205,34
scu-rbt LDLo:700 mg/kg QJPPAL 7,205,34
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 41,99,86. NTP Carcinogenesis Bioassay (gavage); Clear Evidence: mouse NTPTR* NTP-TR-232,82; (gavage); No Evidence: rat NTPTR* NTP-TR-232,82. Reported in EPA TSCA Inventory.
DFG MAK: 5 ppm (42 mg/m^3)
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Poison by inhalation and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. An irritant. Questionable carcinogen with experimental carcinogenic data. Flammable when exposed to heat or flame. Moderately explosive by spontaneous chemical reaction. To fight fire, use water, CO_2, dry chemical. Dehalogenation by reaction with alkalies, metals, etc., will produce spontaneously explosive chloroacetylenes. Violent reaction with NaK alloy + bromoform. Mixtures with potassium are very shock-sensitive explosives. When heated to decomposition it emits highly toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Pentachloroethane, 2517.

PAW600 CAS: 102395-72-2 HR: 3
2′,2″,4′,4″,5-PENTACHLORO-4-HYDROXY-ISOPHTHALANILIDE

mf: $C_{20}H_{11}Cl_5N_2O_3$ mw: 504.58
SYN: SC. 121
TOXICITY DATA with REFERENCE:
orl-mus LD50:450 mg/kg FRPSAX 16,679,61
ipr-mus LD50:66 mg/kg FRPSAX 16,679,61
scu-mus LD50:68 mg/kg FRPSAX 16,679,61
SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

PAW750 CAS: 1321-64-8 HR: 3
PENTACHLORONAPHTHALENE

mf: $C_{10}H_3Cl_5$ mw: 300.38
PROP: White solid.
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.5 mg/m^3 (skin)
ACGIH TLV: TWA 0.5 mg/m^3
DFG MAK: 0.5 mg/m^3
NIOSH REL: (Pentachloronaphthalen) TWA 0.5 mg/m^3 (skin)
SAFETY PROFILE: Poison by ingestion, inhalation, and skin contact. An irritant. Action similar to that of chlorinated naphthalenes and chlorinated diphenyls. Dangerous; when heated to decomposition it emits highly toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, AROMATIC.

PAX000 CAS: 82-68-8 HR: 3
PENTACHLORONITROBENZENE

mf: $C_6Cl_5NO_2$ mw: 295.32
PROP: Colorless crystals from alc. Mp: 146°, bp: 328°, vap press: 0.013 mm @ 25°.
SYNS: AVICOL ◻ BATRILEX ◻ BRASSICOL ◻ EARTHCIDE ◻ FARTOX ◻ FOLOSAN ◻ FOMAC 2 ◻ FUNGICLOR ◻ GC 3944-3-4 ◻ KOBU ◻ KOBUTOL ◻ KP 2 ◻ NCI-C00419 ◻ OLPISAN ◻ PCNB ◻ PENTACHLORNITROBENZOL (GERMAN) ◻ PENTAGEN ◻ PKhNB ◻ QUINTOCENE ◻ QUINTOZEN ◻ QUINTOZENE ◻ RCRA WASTE NUMBER U185 ◻ SANICLOR 30 ◻ TERRACHLOR ◻ TERRAFUN ◻ TILCAREX ◻ TRI-PCNB ◻ TRITISAN
TOXICITY DATA with REFERENCE:
dnd-esc 20 µmol/L MUREAV 89,95,81
mrc-asn 40 µmol/L MUREAV 147,288,85
orl-rat LD50:1100 mg/kg FAATDF 7,299,86
ihl-rat LC50:1400 mg/m^3 85GMAT -,96,82
skn-rat LD50:4 g/kg FMCHA2 -,C221,89
orl-mus LC50:1400 mg/kg 85GMAT -,96,82
ihl-mus LC50:2 g/m^3 85GMAT -,96,82
ipr-mus LD50:4500 mg/kg ARTODN 51,329,82
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 5,211,74. NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-61,78. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
ACGIH TLV: TWA 0.5 mg/m^3; Not Classifiable as a Human Carcinogen
SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. Used as a fungicide. Dangerous; when heated to decomposition it emits highly toxic fumes of NO_x and Cl^-. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

PAX250 CAS: 87-86-5 HR: 3
PENTACHLOROPHENOL

mf: C_6HCl_5O mw: 266.32
PROP: Dark-colored flakes, monoclinic prisms, and sublimed needle crystals from benzene; characteristic odor. Mp: 174°, mp: 191° (anhydrous), bp: 310° (decomp), d: 1.978, vap press: 40 mm @ 211.2°. Sol in ether, benzene; very sol in alc; insol in water; sltly sol in cold pet ether. IDLH 2.5 mg/m^3.
SYNS: CHEM-TOL ◻ CHLOROPHEN ◻ CRYPTOGIL OL ◻ DOWCIDE 7 ◻ DOWICIDE 7 ◻ DOWICIDE EC-7 ◻ DOWICIDE G ◻ DOW PENTACHLOROPHENOL DP-2 ANTIMICROBIAL ◻ DUROTOX ◻ EP 30 ◻ FUNGIFEN ◻ GLAZD PENTA ◻ GRUNDIER ARBEZOL ◻ LAUXTOL ◻ LAUXTOL A ◻ LIRO-PREM ◻ NCI-C54933 ◻ NCI-C55378 ◻ NCI-C56655 ◻ PCP ◻ PENCHLOROL ◻ PENTA ◻ PENTACHLOORFENOL (DUTCH) ◻ PENTACHLOROFENOL ◻ PENTACHLOROPHENATE ◻ PENTACHLOROPHENOL (GERMAN) ◻ 2,3,4,5,6-PENTA-CHLOROPHENOL ◻ PENTACHLOROPHENOL, DOWICIDE EC-7 ◻ PENTACHLOROPHENOL, DP-2 ◻ PENTACHLOROPHEN-OL, TECHNICAL ◻ PENTACLOROFENOLO (ITALIAN) ◻ PENTACON ◻ PENTA-KIL ◻ PENTASOL ◻ PENWAR ◻ PERATOX ◻ PERMACIDE ◻ PERMAGARD ◻ PERMASAN ◻ PERMATOX DP-2 ◻ PERMATOX PENTA ◻ PERMITE ◻

PRILTOX □ RCRA WASTE NUMBER U242 □ SANTOBRITE □ SANTOPHEN □ SANTOPHEN 20 □ SINITUHO □ TERM-I-TROL □ THOMPSON'S WOOD FIX □ WEEDONE

TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62
mma-sat 40 nmol/plate AIDZAC 10,305,82
orl-man LDLo:401 mg/kg EESADV 1,343,77
orl-rat LD50:27 mg/kg JPETAB 76,104,42
ihl-rat LC50:355 mg/m^3 GTPZAB 13(9),58,69
skn-rat LD50:96 mg/kg GTPZAB 13(9),58,69
ipr-rat LD50:56 mg/kg BJPCAL 13,20,58
scu-rat LD50:100 mg/kg FEPRA7 2,76,43
orl-mus LD50:117 mg/kg TOLED5 29,39,85
ipr-mus LD50:58 mg/kg JTEHD6 10,699,82
scu-dog LDLo:135 mg/kg HBTXAC 5,123,59
orl-rbt LDLo:70 mg/kg JPETAB 76,104,42
skn-rbt LDLo:40 mg/kg JPETAB 76,104,42
ipr-rbt LDLo:135 mg/kg HBTXAC 5,123,59
scu-rbt LDLo:70 mg/kg JPETAB 76,104,42

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 53,371,91; Human Limited Evidence IMEMDT 41,319,86; Animal Sufficient Evidence IMEMDT 53,371,91; IARC Cancer Review: Animal Inadequate Evidence IMEMDT 20,303,79; Human Inadequate Evidence IMEMDT 53,371,91. Chlorophenol compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 0.5 mg/m^3 (skin)

ACGIH TLV: TWA 0.5 mg/m^3 (skin); BEI: 2 mg/g creatinine in urine prior to last shift of workweek; Animal Carcinogen

DFG MAK: Confirmed Animal Carcinogen, Suspected Human Carcinogen; BAT: 1000 µg/L in plasma/serum

SAFETY PROFILE: Confirmed human carcinogen with experimental tumorigenic data. Human poison by ingestion. Poison experimentally by ingestion, skin contact, intraperitoneal, and subcutaneous routes. An experimental teratogen. Other experimental reproductive effects. A skin irritant. Mutation data reported. Acute poisoning is marked by weakness with changes in respiration, blood pressure, and urinary output. Also causes dermatitis, convulsions, and collapse. Chronic exposure can cause liver and kidney injury. Dangerous; when heated to decomposition it emits highly toxic fumes of Cl^-. See also CHLOROPHENOLS.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #39 or NIOSH: Pentachlorophenol, 5512.

PAX750 HR: 3
PENTACHLOROPHENOL, SODIUM derivative mixed with TETRACHLOROPHENOL SODIUM derivative (4:1)

SYN: CRYPTOGYL NA (ITALIAN)

TOXICITY DATA with REFERENCE:
orl-rbt LDLo:218 mg/kg FOMDAK No. 2,105,56
scu-rbt LDLo:257 mg/kg FOMDAK No. 2,105,56
ivn-rbt LDLo:22 mg/kg FOMDAK No. 2,105,56

CONSENSUS REPORTS: Chlorophenol compounds are on The Community Right-To-Know List.

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of Cl^- and Na_2O. See also PENTACHLOROPHENOL and CHLOROPHENOLS.

PAX775 CAS: 21727-09-3 HR: 2
(PENTACHLOROPHENYL)GLYCOLONITRILE

mf: $C_8H_2Cl_5NO$ mw: 305.36

SYNS: BENZENEACETONITRILE, 2,3,4,5,6-PENTACHLORO-α-HYDROXY- □ MANDELONITRILE, 2,3,4,5,6-PENTACHLORO- □ MANDELONITRILE, PENTACHLORO- □ ORYZON □ PCMN □ PENTACHLOROMANDELONITRILE

TOXICITY DATA with REFERENCE:
skn-mus LD50:2500 mg/kg GUCHAZ 6,380,1973

SAFETY PROFILE: Moderately toxic by skin contact. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

PAX800 CAS: 36518-74-8 HR: 3
PENTACHLOROPHENYL PROPYL ETHER

mf: $C_9H_7Cl_5O$ mw: 308.41

SYNS: BENZENE, PENTACHLOROPROPOXY- □ CP 293

TOXICITY DATA with REFERENCE:
orl-rat LD50:430 mg/kg NTIS** OTS0546025
skn-rbt LD50:>1260 mg/kg NTIS** OTS0546025

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

PAY000 CAS: 16714-68-4 HR: 2
1,1,2,2,3-PENTACHLOROPROPANE

mf: $C_3H_3Cl_5$ mw: 216.31

PROP: A liquid with pleasant camphoraceous odor. D: 1.633 @ 25°/4°, bp: 191−191.5°.

TOXICITY DATA with REFERENCE:
unr-rat LD50:819 mg/kg CHABA8 89,142,78
unr-mus LD50:551 mg/kg CHABA8 89,142,78
unr-rbt LD50:500 mg/kg CHABA8 89,142,78
unr-gpg LD50:560 mg/kg CHABA8 89,142,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by unspecified routes. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

PAY200 CAS: 1600-37-9 HR: D
1,1,2,3,3-PENTACHLOROPROPENE

mf: C_3HCl_5 mw: 214.29

PROP: A liquid. D: 1.632 @ 24°/4°, bp: 185°.

SYNS: 1,1,2,3,3-PENTACHLORO-1-PROPENE □ 1,1,2,3,3-PENTACHLOROPROPYLENE

TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate MUREAV 79,203,80
mmo-smc 100 µg/L MUREAV 119,273,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-. See

also CHLORINATED HYDROCARBONS, ALIPHATIC.

PAY250 CAS: 2176-62-7 HR: 3
2,3,4,5,6-PENTACHLOROPYRIDINE
mf: C_5Cl_5N mw: 251.31
PROP: Leaflets from EtOH. Mp: 125−126°.
TOXICITY DATA with REFERENCE:
ipr-mus LD50:235 mg/kg TXAPA9 11,361,67
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

PAY300 CAS: 65980-75-8 HR: D
PENTACHLORORHODATE(2-) DIPOTASSIUM
mf: $Cl_5Rh•2K$ mw: 358.36
SYNS: DIPOTASSIUM PENTACHLORORHODATE(2-)- □ RHODATE(2-), PENTACHLORO-, DIPOTASSIUM
TOXICITY DATA with REFERENCE:
uns-esc 200 µmol/L MUREAV 389,191,1997
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of Rh and Cl^-.

PAY500 CAS: 133-49-3 HR: 3
PENTACHLOROTHIOPHENOL
mf: C_6HCl_5S mw: 282.38
SYNS: PCTP □ PENTACHLORO-BENZENETHIOL □ PENTACHLORTHIOFENOL (CZECH) □ USAF B-51
TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H SEV 28ZPAK -,168,72
orl-rat LD50:11,900 g/kg 28ZPAK -,168,72
ipr-mus LD50:100 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Chlorophenol compounds are on The Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Mildly toxic by ingestion. Severe eye irritant. When heated to decomposition it emits very toxic fumes of SO_x and Cl^-. See also CHLOROPHENOLS.

PAY550 CAS: 13014-18-1 HR: D
α-α-α-2,4-PENTACHLOROTOLUENE
mf: $C_7H_3Cl_5$ mw: 264.35
SYNS: BENZENE, 2,4-DICHLORO-1-(TRICHLOROMETHYL)- □ 2,4-DICHLOROBENZOTRICHLORIDE □ 2,4-DICHLORO-PHENYLTRICHLOROMETHANE □ 2,4,α-α-α-PENTACHLORO-TOLUENE □ TOLUENE, α-α-α-2,4-PENTACHLORO-
TOXICITY DATA with REFERENCE:
mmo-sat 333 µg/plate EMMUEG 19(Suppl 21),2,92
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of Cl^-.

PAY600 CAS: 24378-32-3 HR: 3
PENTACYANONITROSYLFERRATE BARIUM
mf: $C_5FeN_6O•Ba$ mw: 353.30
PROP: Crystals.
SYN: BARIUM NITROSYLPENTACYANOFERRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:183 mg/kg ARZNAD 24,308,74
ipr-rat LD50:19,400 µg/kg ARZNAD 24,308,74
orl-mus LD50:72 mg/kg ARZNAD 24,308,74
ipr-mus LD50:18,200 µg/kg ARZNAD 24,308,74
ivn-rbt LDLo:5600 µg/kg ARZNAD 24,308,74
CONSENSUS REPORTS: Barium and its compounds and cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by ingestion, intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and CN^-. See also BARIUM COMPOUNDS and CYANIDE.

PAY610 CAS: 26045-95-4 HR: 3
PENTACYANONITROSYLFERRATE COBALT
mf: $C_5FeN_6O•Co$ mw: 274.89
SYN: COBALT NITROSYLPENTACYANOFERRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:147 mg/kg ARZNAD 24,308,74
ipr-rat LD50:14,900 µg/kg ARZNAD 24,308,74
orl-mus LD50:74 mg/kg ARZNAD 24,308,74
ipr-mus LD50:10,700 µg/kg ARZNAD 24,308,74
ivn-rbt LDLo:9400 µg/kg ARZNAD 24,308,74
CONSENSUS REPORTS: Cobalt and its compounds and cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and CN^-. See also CYANIDE and COBALT COMPOUNDS.

PAY750 CAS: 629-62-9 HR: 2
N-PENTADECANE
mf: $C_{15}H_{32}$ mw: 212.47
PROP: Colorless liquid. D: 0.770 @ 20°/4°, mp: 10°, bp: 270.5°. Insol in water; very sol in alc and ether.
TOXICITY DATA with REFERENCE:
ivn-mus LD50:3494 mg/kg JPMSAE 67,566,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes. See also PARAFFIN HYDROCARBONS.

PAZ000 CAS: 1002-84-2 HR: 3
PENTADECANOIC ACID
mf: $C_{15}H_{30}O_2$ mw: 242.45
PROP: Crystals from Me_2CO (aq). Mp: 53°, bp: 257° @ 100 mm.
SYN: PENTADECYCLIC ACID
TOXICITY DATA with REFERENCE:
ivn-mus LD50:54 mg/kg APTOA6 18,141,61
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes.

PBA000 CAS: 2570-26-5 HR: 3
PENTADECYLAMINE
mf: $C_{15}H_{33}N$ mw: 227.49
PROP: Crystals. Mp: 36.5°, bp: 298−301°.
SYNS: 1-PENTADECANAMINE □ n-PENTADECYLAMINE □ 1-PENTADECYLAMINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:660 mg/kg TPKVAL 10,124,68
ihl-rat LC50:900 mg/m^3/4H TPKVAL 10,124,68
orl-mus LD50:520 mg/kg TPKVAL 10,124,68
ihl-mus LC50:240 mg/m^3/2H TPKVAL 10,124,68
ihl-mam LC50:200 mg/m^3 TPKVAL 14,80,75
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

PBA100 CAS: 504-60-9 HR: 3
1,3-PENTADIENE
mf: C_5H_8 mw: 68.13
PROP: Colorless liquid. Mp: −87°, bp: 42° (trans); 44° (cis). Flash pt: −26 (CC).
SYNS: 1-METHYLBUTADIENE □ PIPERYLENE □ RCRA WASTE NUMBER U186
TOXICITY DATA with REFERENCE:
ihl-rat LC50:140 g/m3/2H 85GMAT -,101,82
ihl-mus LC50:1100 mg/m^3/2H 85GMAT -,101,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by inhalation. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

PBA250 CAS: 2004-70-8 HR: 3
(E)-1,3-PENTADIENE
mf: C_5H_8 mw: 68.13
$H_2C{=}CHCH{=}CHCH_3$
PROP: Flash p.: −45.4°F, lel: 2%, uel: 8.3%.
SYNS: trans-1,3-PENTADIENE □ trans-PIPERYLENE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:18 mg/kg CSLNX* NX#04179
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. A very dangerous fire and explosion hazard when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.

PBA300 CAS: 4949-20-6 HR: 2
2,4-PENTADIEN-1-OL
mf: C_5H_8O mw: 84.13
SYN: 2,4-PENTADIENOL
TOXICITY DATA with REFERENCE:
skn-rat 800 mg/4D SEV CBINA8 18,111,1977
SAFETY PROFILE: A severe skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

PBB000 CAS: 4911-55-1 HR: 3
1,3-PENTADIYNE
mf: C_5H_4 mw: 64.09
$HC{\equiv}CC{\equiv}CCH_3$
PROP: A liquid. D: 0.738 @ 21°/4°, bp: 54−56°.
SAFETY PROFILE: Explodes easily on distillation at atmospheric pressure. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.

PBB229 HR: 3
1,3-PENTADIYN-1-YL COPPER
mf: C_5H_3Cu mw: 126.62
$CH_3C{\equiv}CC{\equiv}CCu$
CONSENSUS REPORTS: Copper and its compounds are on The Community Right-To-Know List.
SAFETY PROFILE: An impact- and friction-sensitive explosive. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS and COPPER COMPOUNDS.

PBB449 HR: 3
1,3-PENTADIYN-1-YL SILVER
mf: C_5H_3Ag mw: 170.95
$CH_3C{\equiv}CC{\equiv}CAg$
PROP: IDLH 10 mg/m^3 (as Ag).
CONSENSUS REPORTS: Silver and its compounds are on The Community Right-To-Know List.
SAFETY PROFILE: An impact- and friction-sensitive explosive. Explodes on contact with sulfuric acid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS and SILVER COMPOUNDS.

PBB750 CAS: 115-77-5 HR: 3
PENTAERYTHRITOL
mf: $C_5H_{12}O_4$ mw: 136.17
$C(CH_2OH)_4$
PROP: Ditetragolan crystals from HCl (aq). Mp: 262°, d: 1.38 @ 25°/4°.
SYNS: AUXINUTRIL □ 2,2-BIS(HYDROXYMETHYL)-1,3-PROPANEDIOL □ HERCULES P6 □ METHANE TETRA-METHYLOL □ MONOPENTEK □ PE □ PENTAERYTHRITE □ PENTEK □ TETRAHYDROXYMETHYLMETHANE □ TETR-AKIS(HYDROXYMETHYL)METHANE □ TETRAMETHYLOL-METHANE
TOXICITY DATA with REFERENCE:
orl-mus LD50:25,500 mg/kg TXAPA9 6,351,64
orl-gpg LD50:11,300 mg/kg TXAPA9 6,351,64
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA Total Dust: 10 mg/m^3; Respirable Fraction: 5 mg/m^3
ACGIH TLV: TWA (nuisance particulate) 10 mg/m^3 of total dust (when toxic impurities are not present, e.g., quartz <1%)
SAFETY PROFILE: Mildly toxic by ingestion. A nuisance dust. Flammable from heat or flame or oxidizers. Mixtures with thiophosphoryl chloride react when heated to form a product that ignites and then explodes on contact with air. Used in coatings, stabilizers, explosives, P.E.T.N resins, drugs, insecticides, and lubricants. When

heated to decomposition it emits acrid smoke and irritating fumes.

PBB800 HR: D
PENTAERYTHRITOL ESTER of PARTIALLY HYDROGENATED WOOD ROSIN
PROP: Hard, amber-colored solid. Sol in acetone, benzene; insol in water.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

PBB810 HR: D
PENTAERYTHRITOL ESTER of WOOD ROSIN
PROP: Hard, amber-colored solid. Sol in acetone, benzene; insol in water.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

PBB850 CAS: 3126-63-4 HR: D
PENTAERYTHRITOL GLYCIDYL ETHER
mf: $C_{17}H_{28}O_8$ mw: 360.45
PROP: D: 1.30. Insol in water.
SYNS: 2,2'-(2,2-BIS((OXIRANYLMETHOXY)METHYL)-1,3-PROPANEDIYLBIS(OXYMETHYLENE)B ISOXIRANE) □ OXIRANE, 2,2'-(2,2-BIS((OXIRANYLMETHOXY)METHYL)-1,3-PROPANEDIYLBIS(OXYMETHYLENE))BIS-
TOXICITY DATA with REFERENCE:
cyt-hmn:lym 7 mg/L EPASR* 8EMQ-0787-0685
msc-ham:lng 6 mg/L EPASR* 8EMQ-0787-0685
SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

PBC000 CAS: 4196-86-5 HR: 2
PENTAERYTHRITOL TETRABENZOATE
mf: $C_{33}H_{28}O_8$ mw: 552.61
PROP: Off white solid with mild odor. D: 1.28, mp: 99°. Insol in water. Flash pt: 326°.
SYNS: BENZOFLEX S-552 □ BENZOIC ACID, TETRAESTER with PENTAERYTHRITOL □ 2,2-BIS((BENZOYLOXY)METHYL)-1,3-PROPANEDIOL, DIBENZOATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:10 g/kg NPIRI* 2,83,75
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

PBC250 CAS: 78-11-5 HR: 3
PENTAERYTHRITOL TETRANITRATE
DOT: UN 0411
mf: $C_5H_8N_4O_{12}$ mw: 316.17
PROP: Crystals or prisms from Me_2CO/EtOH. Mp: 138−140°, bp: explodes @ 205−215°, d: 1.773 @ 20°/4°. Sol in acetone; insol in water; sltly sol in alc, ether.
SYNS: ANGICAP □ ANGITET □ ANTORA □ ARCOTRATE □ BARITRATE □ 2,2-BISDIHYDROXYMETHYL-1,3-PROPANEDIOL TETRANITRATE □ 2,2-BIS(HYDROXYMETHYL)-1,3-PROPANEDIOL TETRANITRATE □ CHOT □ DELTRATE-20 □ 1,3-DINITRATO-2,2-BIS(NITRATOMETHYL)PROPANE □ DUOTRATE □ EL P.E.T.N. □ ERINIT □ HASETHROL □ INITIATING EXPLOSIVE PENTAERYTHRITE TETRANITRATE (DOT) □ KAYTRATE □ LOWETRATE □ MARTRATE-45 □ METRANIL □ MYCARDOL □ MYOTRATE "10" □ NCI-C55743 □ NEO-COROVAS □ NEOPENTANETETRAYL NITRATE □ NIPERYT □ NIPERYTH □ NITROPENTA □ NITROPENTAERYTHRITE □ NITROPENTAERYTHRITOL □ PENCARD □ PENTAERYTHRITE TETRANITRATE □ PENTAERYTHRITE TETRANITRATE (DOT) □ PENTAERYTHRITE TETRANITRATE, desensitized, wet (DOT) □ PENTAERYTHRITE TETRANITRATE, dry (DOT) □ PENTAERYTHRITE TETRANITRATE, with not less than 7% wax (DOT) □ PENTAERYTHRITOL TETRANITRATE, diluted □ PENTAFIN □ PENTESTAN-80 □ PENTETRATE UNICELLES □ PENTRATE □ PENTRIOL □ PENTRYATE 80 □ PERGITRAL □ PERIDEX-LA □ PERITRATE □ PERITYL □ PREVANGOR □ QUINTRATE □ RYTHRITOL □ SDM No. 23 □ SUBICARD □ TENTRATE-20 □ TETRANITROPENTAERYTHRITE □ TETRASULE □ TRANITE D-LAY □ VASITOL □ VASODIATOL □ VASO-80 UNICELLES
TOXICITY DATA with REFERENCE:
orl-man TDLo:1669 mg/kg/8Y-C:SKN BJDEAZ 87,498,72
orl-mus LDLo:7 g/kg FRZKAP 16(2),63,61
DOT CLASSIFICATION: Forbidden (dry); DOT Class: Explosive 1.1A; Label: EXPLOSIVE 1.1A (NA 0150); DOT Class: Explosive 1.1D; Label: EXPLOSIVE 1.1D (UN 0411)
SAFETY PROFILE: Human systemic effects by ingestion: dermatitis. Effects are similar to those of nitroglycerin, i.e., headache, weakness, and fall in blood pressure. Very low oral toxicity. Severe explosion hazard when shocked or exposed to heat. It explodes at 215°C. On decomposition it emits highly toxic fumes of NO_x; can react vigorously with oxidizing materials. Used in detonators and explosive specialities. See also NITRATES and EXPLOSIVES, HIGH.

PBC750 CAS: 3524-68-3 HR: 2
PENTAERYTHRITOL TRIACRYLATE
mf: $C_{14}H_{18}O_7$ mw: 298.32
PROP: Thick clear yellow liquid. Bp: 205−215° (detonates). Insol in water.
SYNS: ACRYLIC ACID, PENTAERITHRITOL TRIESTER □ PETA □ 2-PROPENOIC ACID-2-(HYDROXYMETHYL)-2-(((1-OXO-2-PROPENYL)OXY)METHYL)-1,3-PROPANEDIYL ESTER
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 3/28/72
eye-rbt 1 mg SEV UCDS** 3/28/72
orl-rat LD50:2460 mg/kg TXAPA9 28,313,74
skn-rbt LD50:4000 mg/kg TXAPA9 28,313,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Skin and severe eye irritant. Questionable carcinogen with experimental tumorigenic data. Used for radiation-cured adhesives, coatings, inks, textiles, photo resists, and coatings. When heated to decomposition it emits acrid smoke and irritating fumes.

PBD000 CAS: 4067-16-7 HR: 2
PENTAETHYLENEHEXAMINE
mf: $C_{10}H_{28}N_6$ mw: 124.35

PROP: Viscous yellow liquid.
SYNS: PEHA ◻ 3,6,9,12-TETRAAZATETRADECANE-1,14-DIAMINE
TOXICITY DATA with REFERENCE:
mmo-sat 3333 µg/plate ENMUDM 8(Suppl 7),1,86
mma-sat 1 mg/plate ENMUDM 8(Suppl 7),1,86
orl-rat LD50:1600 mg/kg 37ASAA 7,580,79
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

PBD250 CAS: 771-60-8 HR: 3
PENTAFLUOROANILINE
mf: $C_6H_2F_5N$ mw: 183.09
PROP: Crystals. Mp: 33.5−35°, bp: 156−157°.
SYNS: AMINOPENTAFLUOROBENZENE ◻ 2,3,4,5,6-PENTAFLUOROANILINE ◻ PENTAFLUOROPHENYLAMINE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:390 mg/kg IZSBAI 3,91,65
ipr-mus LD50:384 mg/kg IZSBAI 3,91,65
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of F^- and NO_x. See also FLUORIDES.

PBD275 CAS: 602-94-8 HR: 3
PENTAFLUOROBENZOIC ACID
mf: $C_7HF_5O_2$ mw: 212.08
PROP: Mp: 107°, bp: 220° Flash pt: 26°.
SYNS: BENZOIC ACID, PENTAFLUORO- ◻ PERFLUORO-BENZOIC ACID
TOXICITY DATA with REFERENCE:
ipr-mus LD50:178 mg/kg JMCMAR 11,1020,68
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of F^-.

PBD300 CAS: 21892-31-9 HR: 3
1,2,3,4,5-PENTAFLUOROBICYCLO(2.2.0)HEXA-2,5-DIENE
mf: C_6HF_5 mw: 168.07
SAFETY PROFILE: The liquid is explosive. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

PBD400 CAS: 354-33-6 HR: 1
1,1,1,2,2-PENTAFLUOROETHANE
mf: C_2HF_5 mw: 120.03
SYNS: ETHANE, PENTAFLUORO- ◻ F 125 ◻ FC 125 ◻ FRON 125 ◻ HCFC 125 ◻ HFC-125 ◻ KHLADON 125 ◻ PENTA-FLUOROETHANE ◻ 1,1,2,2,2-PENTAFLUOROETHANE ◻ R 125
TOXICITY DATA with REFERENCE:
cyt-ham-ovr 60 pph FAATDF 28,223,1995
ihl-rat LC50:2910 g/m^3/4H TOVEFN (3),25,1996
ihl-mus LC50:2735 g/m^3/2H TOVEFN (3),25,1996
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by inhalation. Mutation data reported. When heated to decomposition it emits toxic vapors of F^-.

PBD500 CAS: 10051-06-6 HR: 3
PENTAFLUOROGUANIDINE
mf: CF_5N_3 mw: 149.02
PROP: Gas condensing to colorless liquid. D: 1.5 @ 0°/4°, bp: −1.1.
SAFETY PROFILE: Several of the adducts formed with alcohols are powerful explosives sensitive to impact, friction, heat, or phase changes. Used as a liquid rocket fuel oxidant. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

PBD750 CAS: 771-61-9 HR: 3
PENTAFLUOROPHENOL
mf: C_6HF_5O mw: 184.07
PROP: Crystals. Mp: 38.5−39.5°, bp: 142−144°.
TOXICITY DATA with REFERENCE:
scu-rat LD50:322 mg/kg IZSBAI 3,91,65
scu-mus LD50:283 mg/kg IZSBAI 3,91,65
orl-mam LD50:330 mg/kg GISAAA 45(10),16,80
skn-mam LD50:1120 mg/kg GISAAA 45(10),16,80
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and subcutaneous routes. Moderately toxic by skin contact. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

PBE000 CAS: 4457-90-3 HR: 3
PENTAFLUOROPHENYLALUMINUM DIBROMIDE
mf: $C_6AlBr_2F_5$ mw: 334.86
PROP: A solid. Mp: 69−71°.
SAFETY PROFILE: Ignites spontaneously in air. Explodes on contact with water. When heated to decomposition it emits very toxic fumes of Br^- and F^-. See also ALUMINUM COMPOUNDS, FLUORIDES and BROMIDES.

PBE100 CAS: 344-07-0 HR: D
PENTAFLUOROPHENYL CHLORIDE
mf: C_6ClF_5 mw: 202.51
SYNS: BENZENE, CHLOROPENTAFLUORO- ◻ CHLORO-PENTAFLUOROBENZENE ◻ CHLOROPERFLUOROBENZENE ◻ PENTAFLUOROCHLOROBENZENE
TOXICITY DATA with REFERENCE:
dns-rat:lvr 10 mg/L NTIS** AD-A165-849
otr-mus:oth 100 mg/L NTIS** AD-A187-233
cyt-ham:ovr 30 mg/L NTIS** AD-A165-849
sce-ham:ovr 62,500 µg/L NTIS** AD-A187-233
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Experimental teratogenic effects reported. Mutation data reported. When heated to decomposition it emits toxic vapors of F^- and Cl^-.

PBE250 CAS: 1076-44-4 HR: 3
PENTAFLUOROPHENYLLITHIUM
mf: C_6F_5Li mw: 174.00
PROP: Unstable. Eliminates LiF on heating.
SAFETY PROFILE: Explodes on contact with water or deuterium oxide. When heated to decomposition it emits very toxic fumes of Li_2O and F^-. See also FLUORIDES and LITHIUM COMPOUNDS.

PBE500 CAS: 422-63-9 HR: 2
2,2,3,3,3-PENTAFLUORO-1,1-PROPANEDIOL
mf: $C_3H_3F_5O_2$ mw: 166.06
TOXICITY DATA with REFERENCE:
orl-mus LD50:600 mg/kg JMCMAR 13,1212,70
ipr-mus LD50:600 mg/kg JMCMAR 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.

PBE750 CAS: 422-05-9 HR: 2
2,2,3,3,3-PENTAFLUORO-1-PROPANOL
mf: $C_3H_3F_5O$ mw: 150.06
PROP: D: 1.505 @ 20°/4°, bp: 80° @ 748 mm.
TOXICITY DATA with REFERENCE:
orl-rat LDLo:2250 mg/kg JOCMA7 4,262,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

PBF000 CAS: 422-64-0 HR: 3
PENTAFLUOROPROPIONIC ACID
mf: $C_3HF_5O_2$ mw: 164.04
PROP: A liquid. D: 1.561 @ 20°/4°, bp: 96–97°. Sol in H_2O, EtOH, Me_2CO, CCl_4, C_6H_6 and Et_2O.
TOXICITY DATA with REFERENCE:
orl-rat LD10:750 mg/kg GTPZAB 10(3),13,66
ihl-rat LC50:15,500 mg/m^3/2H GTPZAB 10(3),13,66
ipr-rbt LD50:68 mg/kg CBCCT* 2,299,50
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

PBF250 CAS: 509-09-1 HR: 2
PENTAFLUOROPROPIONIC ACID SILVER SALT
mf: $C_3F_5O_2$•Ag mw: 270.90
PROP: IDLH 10 mg/m^3 (as Ag).
SYN: PENTAFLUORPROPIONAN STRIBRNY (CZECH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD 28ZPAK -,8,72
eye-rbt 5 mg/24H SEV 28ZPAK -,8,72
orl-rat LD50:1770 mg/kg 28ZPAK -,8,72
CONSENSUS REPORTS: Silver and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.01 mg(Ag)/m^3
ACGIH TLV: TWA 0.01 mg(Ag)/m^3
SAFETY PROFILE: Moderately toxic by ingestion. Skin and severe eye irritant. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES and SILVER COMPOUNDS.

PBF300 CAS: 422-61-7 HR: 3
PENTAFLUOROPROPIONYL FLUORIDE
mf: C_3F_6O mw: 166.02
SAFETY PROFILE: May explode on contact with fluorinated catalysts. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

PBF400 HR: 3
PENTAFLUOROPROPIONYL HYPOCHLORITE
mf: $C_3ClF_5O_2$ mw: 198.48
SAFETY PROFILE: Unstable at 22°C. The gas explodes at pressures above 27-62 mbar. Upon decomposition it emits toxic fumes of F^- and Cl^-. See also HYPOCHLORITES and FLUORIDES.

PBF500 HR: 3
PENTAFLUOROPROPIONYL HYPOFLUORITE
mf: $C_3F_6O_2$ mw: 182.02
PROP: Bp: 2°.
SAFETY PROFILE: Distillation at 2°C and 1 bar will cause it to explode, as will sparks or heating. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

PBF600 CAS: 422-01-5 HR: 3
2,2,3,3,3-PENTAFLUOROPROPYL BROMIDE
mf: $C_3H_2BrF_5$ mw: 212.96
SYNS: 3-BROMO-1,1,1,2,2-PENTAFLUOROPROPANE □ PROPANE, 3-BROMO-1,1,1,2,2-PENTAFLUORO-
TOXICITY DATA with REFERENCE:
ihl-mus LC :>3 pph/6M ANASAB 17,337,62
SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits toxic vapors of Br^- and F^-.

PBG100 CAS: 60672-60-8 HR: 3
PENTAFLUOROSULFUR PEROXYACETATE
mf: $C_2H_3F_5O_3S$ mw: 202.10
SAFETY PROFILE: Potentially explosive and may detonate with thermal or mechanical shock. When heated to decomposition it emits toxic fumes of F^- and SO_x. See also PEROXIDES.

PBG200 CAS: 10176-39-3 HR: 3
PENTAFORMYLGITOXIN
mf: $C_{46}H_{64}O_{19}$ mw: 921.10
SYNS: AC 2770 □ CARD-20(22)-ENOLIDE, 3-((o-2,6-DIDEOXY-3,4-DI-o-FORMYL-β-d-RIBO-HEXOPYRANOSYL-(1-4)-o-2, 6-DIDEOXY-3-o-FORMYL-β-d-RIBO-HEXOPYRANOSYL-(1-4)- 2,6-DIDEOXY-3-o-FORMY l-β-d-RIBO-HEXOPYRANOSYL)OXY)-16-

(FORMYLOXY)-14-HYDROXY-, (3-β,5-β,16-β)- □ FORMILOXIN □ FORMILOXINE □ GITOFORMATE □ GITOFORMATO □ GITOXIN, PENTAFORMATE

TOXICITY DATA with REFERENCE:
orl-rat LD50:39,010 μg/kg MDACAP 15,407,79
scu-rat LD50:21,290 μg/kg MDACAP 15,407,79
orl-mus LD50:2390 μg/kg AIPTAK 153,436,65
scu-mus LD50:2270 μg/kg AIPTAK 153,436,65
ivn-dog LDLo:1840 μg/kg AIPTAK 164,47,66
ivn-cat LDLo:1780 μg/kg AIPTAK 164,47,66
orl-gpg LD50:1250 μg/kg MDACAP 15,407,79
ivn-gpg LDLo:734 μg/kg AIPTAK 153,436,65

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

PBG500 CAS: 3030-47-5 HR: 3
N,N,N′,N′,N″-PENTAMETHYLDIETHYLENE-TRIAMINE
mf: $C_9H_{23}N_3$ mw: 173.35

SYNS: N-(2-(DIMETHYLAMINO)ETHYL)-N,N',N'-TRIMETHYL-1,2-ETHANEDIAMINE, (9CI) □ PENTAMETHYLDIETHYLENETRIAMINE □ PMDT

TOXICITY DATA with REFERENCE:
orl-rat LD50:1630 mg/kg AIHAAP 30,470,69
skn-rbt LD50:280 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by skin contact. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

PBG725 HR: 3
1,1′-PENTAMETHYLENEBIS(sec-BUTYL-PIPERIDINIUM)DIBROMIDE
mf: $C_{23}H_{48}N_2$•2Br mw: 512.55

SYN: 1,5-PENTAMETHYLEN-BIS(N-sec-BUTYLPIPERIDINIUM)-DIBROMID (GERMAN)

TOXICITY DATA with REFERENCE:
orl-mus LD50:420 mg/kg AEPPAE 232,219,57
scu-mus LD50:125 mg/kg AEPPAE 232,219,57
ivn-mus LD50:60 mg/kg AEPPAE 232,219,57

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

PBG750 CAS: 60784-44-3 HR: 3
1,1′-PENTAMETHYLENEBIS(3-(2-CHLOROETHYL))-3-NITROSOUREA
mf: $C_{11}H_{20}Cl_2N_6O_4$ mw: 371.27

TOXICITY DATA with REFERENCE:
sln-dmg-orl 100 μmol/L/24H MUREAV 57,293,78
mrc-smc 500 μmol/L/16H MUREAV 42,45,77
ipr-rat LD50:45 mg/kg EJCAAH 13,937,77

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.

PBG850 HR: 3
1,1′-PENTAMETHYLENEBIS(1-ETHYL-PIPERIDINIUM)DIBROMIDE
mf: $C_{23}H_{48}N_2$•2Br mw: 512.55

SYN: 1,5-PENTAMETHYLEN-BIS-(N-n-BUTYLPIPERIDINIUM)-DIBROMID (GERMAN)

TOXICITY DATA with REFERENCE:
orl-mus LD50:275 mg/kg AEPPAE 232,219,57
scu-mus LD50:38 mg/kg AEPPAE 232,219,57
ivn-mus LD50:14,500 μg/kg AEPPAE 232,219,57

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and Br^-. See also BROMIDES.

PBH075 CAS: 63938-82-9 HR: 3
1,1′-PENTAMETHYLENEBIS(1-METHYL-PIPERIDINIUM)DIBROMIDE
mf: $C_{17}H_{36}N_2$•2Br mw: 428.37

TOXICITY DATA with REFERENCE:
orl-mus LD50:250 mg/kg AEPPAE 232,219,57
scu-mus LD50:30 mg/kg AEPPAE 232,219,57
ivn-mus LD50:18 mg/kg AEPPAE 232,219,57

SAFETY PROFILE: Poison by ingestion, subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and Br^-. See also BROMIDES.

PBH100 HR: 3
1,1′-PENTAMETHYLENEBIS(PYRIDINIUM BROMIDE)
mf: $C_{15}H_{20}N_2$•2Br mw: 388.19

SYNS: G.L. 105 □ 1,1'-PENTAMETHLENEBIS-PYRIDINIUM DIBROMIDE □ P.M. 388

TOXICITY DATA with REFERENCE:
orl-mus LD50:1025 mg/kg AEPPAE 232,219,57
scu-mus LD50:126 mg/kg AEPPAE 232,219,57
ivn-mus LD50:32 mg/kg AIPTAK 90,271,52

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

PBH125 CAS: 628-77-3 HR: D
PENTAMETHYLENE DIIODIDE
mf: $C_5H_{10}I_2$ mw: 323.95

SYNS: 1,5-DIIODOPENTANE □ PENTANE, 1,5-DIIODO-

TOXICITY DATA with REFERENCE:
mmo-sat 10 μmol/plate MUREAV 141,11,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PBH150 CAS: 24771-52-6 HR: 2
1,1′-(PENTAMETHYLENEDIOXY)BIS(3-CHLORO-2-PROPANOL)
mf: $C_{11}H_{22}Cl_2O_4$ mw: 289.23

SYNS: 2-PROPANOL, 1,1'-(PENTAMETHYLENEDIOXY)BIS(3-CHLORO- □ U-15,646

TOXICITY DATA with REFERENCE:

orl-rat LD50:2248 mg/kg JRPFA4 21,267,70
SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^-.

PBH500 CAS: 62912-45-2 HR: 3
(N,N′-PENTAMETHYLENE DIOXYDIETHYLENE)-BIS(DIMETHYLETHYL AMMONIUM IODIDE)
mf: $C_{17}H_{40}N_2O_2 \bullet I_2$ mw: 558.39
TOXICITY DATA with REFERENCE:
orl-mus LD50:300 mg/kg FRPSAX 32,129,77
ipr-mus LD50:8 mg/kg FRPSAX 32,129,77
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NH_3, NO_x, and I^-. See also IODIDES.

PBI000 CAS: 62912-47-4 HR: 3
(N,N′-PENTAMETHYLENE DIOXYDIETHYLENE)-BIS(TRIETHYL AMMONIUM IODIDE)
mf: $C_{21}H_{48}N_2O_2 \bullet I_2$ mw: 614.51
TOXICITY DATA with REFERENCE:
orl-mus LD50:120 mg/kg FRPSAX 32,129,77
ipr-mus LD50:600 µg/kg FRPSAX 32,129,77
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NH_3, NO_x, and I^-. See also IODIDES.

PBI200 HR: 3
1,1′-PENTAMETHYLENEDIPIPERIDINE DIHYDROBROMIDE
mf: $C_{15}H_{30}N_2 \bullet 2BrH$ mw: 400.31
SYN: 1,5-PENTAMETHYLEN-BIS-(PIPERIDINIUM)-DIHYDROBROMID (GERMAN)
TOXICITY DATA with REFERENCE:
orl-mus LD50:1300 mg/kg AEPPAE 232,219,57
scu-mus LD50:140 mg/kg AEPPAE 232,219,57
ivn-mus LD50:87,500 µg/kg AEPPAE 232,219,57
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and Br^-.

PBI300 CAS: 10025-09-9 HR: 3
PENTAMETHYLENE GLYCOL DIPROPIONATE
mf: $C_{11}H_{20}O_4$ mw: 216.31
SYNS: PENTAMETHYLENEDIPROPIONATE □ 1,5-PENTANEDIOL, DIPROPIONATE □ PROPIONIC ACID, PENTAMETHYLENE ESTER (2:1)
TOXICITY DATA with REFERENCE:
orl-rat LD50:9100 µL/kg JPETAB 93,26,48
orl-mus LD50:10,400 µL/kg JPETAB 93,26,48
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PBI500 CAS: 54-95-5 HR: 3
1,5-PENTAMETHYLENETETRAZOLE
mf: $C_6H_{10}N_4$ mw: 138.20
PROP: White, crystalline powder. Mp: 57–58°. Sol in water, alc, and ether.
SYNS: α,β-CYCLOPENTAMETHYLENETETRAZOLE □ PENTAMETHYLENETETRAZOL □ PENTAMETHYLENE-1,5-TETRAZOLE □ PENTYLENETETRAZOL □ 6,7,8,9-TETRAHYDRO-5-AZEPOTETRAZOLE □ 6,7,8,9-TETRAHYDRO-5H-TETRAZOLOAZEPINE □ 7,8,9,10-TETRAZABICYCLO(5.3.0)-8,10-DECADIENE □ 1,2,3,3A-TETRAZACYCLOHEPTA-8A,2-CYCLOPENTADIENE
TOXICITY DATA with REFERENCE:
orl-man LDLo:147 mg/kg 85DCAI 2,73,70
ivn-man LDLo:29 mg/kg 85DCAI 2,73,70
orl-rat LD50:140 mg/kg JPPMAB 13,244,61
ipr-rat LD50:62 mg/kg TXAPA9 18,185,71
scu-rat LD50:85 mg/kg TXAPA9 18,185,71
ivn-rat LD50:45 mg/kg AIPTAK 135,9,62
rec-rat LD50:8 mg/kg AACRAT 46,395,67
orl-mus LD50:88 mg/kg JPETAB 128,176,60
ipr-mus LD50:71 mg/kg JPETAB 128,176,60
scu-mus LD50:80 mg/kg ARZNAD 8,190,58
ivn-mus LD50:51 mg/kg JPPMAB 13,244,61
par-mus LD50:72 mg/kg ARZNAD 6,583,56
ivn-dog LDLo:40 mg/kg 27ZIAQ -,184,73
ivn-rbt LD50:69 mg/kg AIPTAK 135,9,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A human poison by ingestion and intravenous routes. Poison experimentally by ingestion, intravenous, intraperitoneal, subcutaneous, rectal, and parenteral routes. When heated to decomposition it emits toxic fumes of NO_x.

PBI600 CAS: 146177-62-0 HR: D
3,4,5,7,8-PENTAMETHYL-3H-IMIDAZO(4,5-f)-QUINOXALIN-2-AMINE
mf: $C_{14}H_{17}N_5$ mw: 255.36
SYNS: 2-AMINO-3,4,5,7,8-PENTAMETHYLIMIDAZO(4,5-f)QUINOXALINE □ 3H-IMIDAZO(4,5-f)QUINOXALIN-2-AMINE, 3,4,5,7,8-PENTAMETHYL-
TOXICITY DATA with REFERENCE:
mic-sat 100 ng/dish MUREAV 298,207,1993
mic-sat 1 nmol/plate/20M EMMUEG 38,268,2001
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

PBI700 CAS: 17962-31-1 HR: D
2,4,4,6,6-PENTAMETHYL-2-PHENYL-CYCLOTRISILOXANE
mf: $C_{11}H_{20}O_3Si_3$ mw: 284.58
SYNS: CYCLOTRISILOXANE, PENTAMETHYLPHENYL- □ CYCLOTRISILOXANE, 2,4,4,6,6-PENTAMETHYL-2-PHENYL- □ PENTAMETHYLPHENYLCYCLOTRISILOXANE □ PHENYLPENTAMETHYLCYCLOTRISILOXANE
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

PBJ000 CAS: 79-55-0 HR: 3
1,2,2,6,6-PENTAMETHYLPIPERIDINE
mf: $C_{10}H_{21}N$ mw: 155.32
PROP: A liquid. Bp: 147°.
SYNS: PEROLYSEN □ PYRILENE

TOXICITY DATA with REFERENCE:
orl-mus LD50:275 mg/kg NATUAS 184,1707,59
ivn-mus LD50:40 mg/kg NATUAS 184,1707,59
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

PBJ600 CAS: 53378-72-6 HR: 3
PENTAMETHYLTANTALUM
mf: $C_5H_{15}Ta$ mw: 256.12
PROP: Yellow crystals from Et_2O. Decomp at room temp. Mp: 0°.
SAFETY PROFILE: Explodes at room temperature. When heated to decomposition it emits acrid smoke and irritating fumes. See also TANTALUM.

PBJ750 CAS: 556-72-9 HR: 2
2,2,4,6,6-PENTAMETHYLTETRAHYDRO PYRIMIDINE
mf: $C_9H_{19}N_2$ mw: 155.30
PROP: Pale-yellow liquid; ammoniacal odor. D: 0.877 @ 25°/4°. Bp: 171° @ 774 mm. (decomp).
TOXICITY DATA with REFERENCE:
orl-rat LDLo:1000 mg/kg SCCUR* -,8,61
orl-mus LDLo:700 mg/kg SCCUR* -,8,61
orl-rbt LDLo:1200 mg/kg SCCUR* -,8,61
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

PBJ800 CAS: 50357-45-4 HR: 3
PENTAMIDINE DIHYDROCHLORIDE
mf: $C_{19}H_{24}N_4O_2$•2ClH mw: 413.39
SYNS: BENZAMIDINE, 4,4'-(PENTAMETHYLENEDIOXY)DI-,DIHYDROCHLORIDE □ 4,4'-DIAMIDINO-1,5-DIPHENOXY-PENTANE DIHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
scu-mus LD50:64 mg/kg ATMPA2 37,1,1943
ivn-mus LD50:28 mg/kg ATMPA2 37,1,1943
SAFETY PROFILE: A poison by subcutaneous and intravenous routes. When heated to decomposition it emits toxic vapors of NO_x and HCl.

PBJ875 CAS: 57590-20-2 HR: 3
PENTANAL METHYLFORMYLHYDRAZONE
mf: $C_7H_{14}N_2O$ mw: 142.23
SYNS: FORMIC ACID, METHYLPENTYLIDENEHYDRAZIDE □ PENTANAL, N-FORMYL-N-METHYLHYDRAZONE □ PENTYLIDENE GYROMITRIN
TOXICITY DATA with REFERENCE:
orl-mus LD50:594 mg/kg TXAPA9 45,429,78
orl-rbt LDLo:350 mg/kg NATWAY 62,395,75

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

PBK000 CAS: 136-25-4 HR: 2
PENTANATE
mf: $C_{11}H_9Cl_5O_3$ mw: 366.45
SYNS: 2,2-DICHLOROPROPIONIC ACID, 2-(2,4,5-TRICHLORO-PHENOXY)ETHYL ESTER □ ERBN □ ERBON □ ETHANOL-2-(2,4,5-TRICHLOROPHENOXY)-, 2,2-DICHLOROPROPIONATE □ NOVEGE □ NOVON □ 2-(2,4,5-TRICHLOROPHENOXY)ETHYL-2,2-DICHLOROPROPIONATE □ 2,4,5-TRICHLOROPHENOXY-ETHYL-α,α-DICHLOROPROPIONATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1000 mg/kg FMCHA2 -,D128,80
orl-mus LD50:912 mg/kg HYSAAV 34,174,69
orl-rbt LD50:2193 mg/kg HYSAAV 34,174,69
orl-ckn LD50:3170 mg/kg PCOC** -,484,66
SAFETY PROFILE: Moderately toxic by ingestion. Used as a herbicide to control perennial broadleaf weeds. When heated to decomposition it emits toxic fumes of Cl^-.

PBK250 CAS: 109-66-0 HR: 3
n-PENTANE
DOT: UN 1265
mf: C_5H_{12} mw: 72.17
PROP: Colorless liquid. Bp: 36.1°, flash p: <−40°F, fp: −129.8°, d: 0.626 @ 20°/4°, autoign temp: 588°F, vap press: 400 mm @ 18.5°, vap d: 2.48, lel: 1.5%, uel: 7.8%. Sol in water; misc in alc, ether, org solv. IDLH 1500 ppm [10%LEL].
SYNS: AMYL HYDRIDE (DOT) □ PENTAN (POLISH) □ PENTANE (ITALIAN) □ PENTANEN (DUTCH)
TOXICITY DATA with REFERENCE:
ivn-mus LD50:446 mg/kg JPMSAE 67,566,78
ihl-rat LC50:364 g/m^3/4H GTPZAB 32(10),23,88
ihl-mus LCLo:325 g/m^3/2H JPETAB 58,74,36
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 600 ppm; STEL 750 ppm
ACGIH TLV: TWA 600 ppm
DFG MAK: 1000 ppm (3000 mg/m^3)
NIOSH REL: (Alkanes) TWA 350 mg/m^3
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Moderately toxic by inhalation and intravenous routes. Narcotic in high concentration. The liquid can cause blisters on contact. Flammable liquid. Highly dangerous fire hazard when exposed to heat, flame, or oxidizers. Severe explosion hazard when exposed to heat or flame. Shock can shatter metal containers and release contents. To fight fire, use foam, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Hydrocarbons, Bp: 36−126°C, 1500.

PBK500 CAS: 462-94-2 HR: 3
1,5-PENTANEDIAMINE
mf: $C_5H_{14}N_2$ mw: 102.21
PROP: Colorless, syrupy, thick, fuming, liquid; characteristic odor. Mp: 9°, bp: 178−180°, d: 0.873 @ 25°/4°. Very sol in water and alc; sltly sol in ether.

SYNS: ANIMAL CONIINE □ CADAVERIN □ CADAVERINE □ 1,5-DIAMINOPENTANE □ PENTAMETHYLENEDIAMINE □ 1,5-PENTAMETHYLENEDIAMINE

TOXICITY DATA with REFERENCE:
dni-mus:ast 10 mmol/L AMOKAG 33,149,79
dni-mus:lvr 20 mmol/L AMOKAG 33,149,79
dnd-mam:lym 200 mmol/L IJRBA3 9,185,65
scu-rat LDLo:250 mg/kg ZEPTAT 17,59,15
orl-mus LDLo:1600 mg/kg AECTCV 14,111,85
ivn-rbt LDLo:100 mg/kg CRSBAW 83,481,20
rec-rbt LDLo:400 mg/kg CRSBAW 83,481,20

SAFETY PROFILE: Poison by intravenous, rectal, and subcutaneous routes. Moderately toxic by skin contact. An irritant, sensitizer, and allergen. Mutagenic data. When heated to decomposition it emits highly toxic fumes of NO_x. See also AMINES.

PBK750 CAS: 111-29-5 HR: 2
1,5-PENTANEDIOL
mf: $C_5H_{12}O_2$ mw: 104.17

PROP: Colorless, viscous, odorless liquid; bitter taste. Mp: −18°, bp: 239°, flash p: 275°F, fp: −15.6°, d: 0.994 @ 20°/4°, vap press: <0.01 mm @ 20°, vap d: 3.59, autoign temp: 635°F. Misc with water, methanol, alc, acetone.

SYNS: 1,5-DIHYDROXYPENTANE □ PENTAMETHYLENE GLYCOL □ PENTANE-1,5-DIOL □ 1,5-PENTYLENE GLYCOL

TOXICITY DATA with REFERENCE:
skn-rbt 495 mg open MLD UCDS** 5/22/59
orl-rat LD50:2 g/kg JAFCAU 23,418,75
orl-mus LD50:6300 mg/kg GISAAA 38(9),14,73
orl-rbt LD50:6300 mg/kg GISAAA 38(9),14,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin and eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO_2, dry chemical. Used as a plasticizer in cellulose products and adhesives, and in brake fluid. When heated to decomposition it emits acrid smoke and irritating fumes.

PBL000 CAS: 625-69-4 HR: 1
2,4-PENTANEDIOL
mf: $C_5H_{12}O_2$ mw: 104.17

PROP: Syrup. D: 0.989 @ 20°, bp: 202−203°.

SYNS: 2,4-AMYLENEGLYCOL □ ISOAMYLENE ALCOHOL □ PENTANEDIOL-2,4

TOXICITY DATA with REFERENCE:
eye-rbt 500 mg open AMIHBC 10,61,54
orl-rat LD50:6860 mg/kg AMIHBC 10,61,54
orl-mus LD50:5792 mg/kg JAPMA8 45,669,56
skn-rbt LD50:14,100 mg/kg AMIHBC 10,61,54

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

PBL250 CAS: 64025-06-5 HR: 3
(2,4-PENTANEDIONATO-O,O′)PHENYL-MERCURY
mf: $C_{11}H_{12}HgO_2$ mw: 376.82

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

SYN: 2,4-PENTANEDIONE, PHENYLMERCURIC SALT

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

OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 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/m^3 (skin)

SAFETY PROFILE: Probably a poison. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

PBL350 CAS: 600-14-6 HR: 3
2,3-PENTANEDIONE
mf: $C_5H_8O_2$ mw: 100.13

PROP: Yellow liquid. Mp: −52°, bp: 110−112°, d: 0.957, flash p: 66°F. Sol in water.

SYN: ACETYLPROPIONYL

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 17,699,79
orl-rat LD50:3000 mg/kg FCTXAV 17,699,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PBL500 CAS: 3264-82-2 HR: 3
2,4-PENTANEDIONE, NICKEL(II) DERIVATIVE
mf: $C_{10}H_{14}NiO_4$ mw: 256.95

TOXICITY DATA with REFERENCE:
ipr-mus LD50:125 mg/kg CBCCT* 4,231,52

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

NIOSH REL: (Nickel, Inorganic) TWA 0.015 mg(Ni)/m^3

SAFETY PROFILE: Confirmed human carcinogen. Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating fumes. See also NICKEL COMPOUNDS.

PBL600 CAS: 37187-22-7 HR: 3
2,4-PENTANEDIONE PEROXIDE

PROP: Colorless to light yellow liquid with a sharp smell. Often shipped or used in a solution or paste.

SYNS: ACETYL ACETONE PEROXIDE with >9% by weight active oxygen (DOT) □ TRIGONOX 40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: An unstable substance forbidden from transport. When heated to decomposition it emits toxic vapors of NO_x.

PBL750 CAS: 17501-44-9 HR: 3

2,4-PENTANEDIONE, ZIRCONIUM COMPLEX
mf: $C_{20}H_{28}O_8Zr$ mw: 487.70
PROP: Colorless solid. Sol in EtOH, C_6H_6, and toluene. IDLH 50 mg/m^3 (as Zr).
SYN: ACETYLZIRCONIUM, ACETONATE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:316 mg/kg NTIS** AD441-640
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 5 mg(Zr)/m^3; STEL 10 mg(Zr)/m^3
ACGIH TLV: TWA 5 mg(Zr)/m^3; STEL 10 mg(Zr)/m^3; Not Classifiable as a Human Carcinogen
DFG MAK: 1 mg(Zr)/m^3
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating fumes. Used as a cross-linking agent for oxygen-containing polymers. See also ZIRCONIUM COMPOUNDS.

PBM000 CAS: 110-66-7 HR: 3
1-PENTANETHIOL
DOT: UN 1228/UN 3071
mf: $C_5H_{12}S$ mw: 104.23
$CH_3(CH_2)_4SH$
PROP: Water-white to yellow liquid. D: 0.857 @ 20°, bp: 123.64°, flash p: 65°F, vap press: 13.8 mm @ 25°, vap d: 3.59. Insol in water; misc in alc and ether.
SYNS: AMYL HYDROSULFIDE ◻ n-AMYL MERCAPTAN ◻ AMYL MERCAPTAN (DOT) ◻ AMYL SULFHYDRATE ◻ AMYL THIOALCOHOL ◻ MERCAPTAN AMYLIQUE (FRENCH) ◻ PENTYL MERCAPTAN
TOXICITY DATA with REFERENCE:
ihl-rat LCLo:2000 ppm/4H JIHTAB 31,343,49
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
NIOSH REL: (Thiols (n-Alkane Mono)) CL 0.5 ppm/15M
DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison (UN 1228); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3071)
SAFETY PROFILE: Moderately toxic by inhalation. A weak sensitizer and allergen. Local contact may cause contact dermatitis. A flammable liquid and dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Hypergolic reaction with concentrated nitric acid. To fight fire, use foam, CO_2, dry chemical. See also MERCAPTANS.

PBM100 CAS: 21985-87-5 HR: 3
PENTANITROANILINE
mf: $C_6H_2N_6O_{10}$ mw: 318.12
PROP: Obtained by reducing TNT with H_2S to produce aminodinitrotuluene.
SYNS: ANILINE, 2,3,4,5,6-PENTANITRO- ◻ BENZENAMINE, 2,3,4,5,6-PENTANITRO- ◻ PENTANITROANILINE (dry) (DOT) ◻ 2,3,4,5,6-PENTANITROANILINE
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: A very sensitive explosive. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

PBM500 CAS: 62-68-0 HR: 3
PENTANOIC ACID, 2,2-DIPHENYL, 2-(N,N-DIETHYLAMINO)ETHYL ESTER, HYDROCHLORIDE
mf: $C_{23}H_{31}NO_2$•ClH mw: 390.01
PROP: Lustrous crystals from Me_2CO/pet ether. Mp: 122−123°.
SYNS: DIETHYLAMINOETHANOL ESTER OF DIPHENYLPROPYLACETIC ACID HYDROCHLORIDE ◻ 2'-DIETHYLAMINOETHYL-2,2-DIPHENYLPENTANOATE HYDROCHLORIDE ◻ β-DIETHYLAMINOETHYL DIPHENYLPROPYLACETATE HYDROCHLORIDE ◻ 2-DIETHYLAMINOETHYL-2,2-DIPHENYLVALERATE HYDROCHLORIDE ◻ α-PHENYL-α-PROPYLBENZENEACETIC ACID-2-(DIETHYLAMINO)ETHYL ESTER HYDROCHLORIDE ◻ PROADIFEN HYDROCHLORIDE ◻ PROPYLADIPHENIN ◻ 5171 RP ◻ SKF 525A ◻ U 5446
TOXICITY DATA with REFERENCE:
scu-rat TDLo:20 mg/kg (female 4D pre):REP JSICAZ 19,264,60
orl-rat LD50:2140 mg/kg 27ZQAG -,366,72
ipr-rat LD50:163 mg/kg 27ZQAG -,366,72
orl-mus LD50:538 mg/kg 27ZQAG -,366,72
ipr-mus LD50:110 mg/kg PCJOAU 3,508,69
scu-mus LD50:90 mg/kg JPETAB 98,121,50
ivn-mus LD50:60 mg/kg 27ZQAG -,366,72
ivn-cat LDLo:25 mg/kg TXAPA9 8,118,66
SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion. Experimental reproductive effects. See also ESTERS. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

PBM750 CAS: 6032-29-7 HR: 3
2-PENTANOL
mf: $C_5H_{12}O$ mw: 88.17
PROP: Colorless liquid. Bp: 119.3°, flash p: 105°F (OC), ULC: 40−45, uel: 9.0%, lel: 1.2%, fp: −50°, d: 0.8169 @ 20°/20°, autoign temp: 650−725°F, vap d: 3.04. Sltly sol in water; misc in alc and ether. IDLH 500 ppm.
SYNS: sec-AMYL ALCOHOL ◻ METHYL PROPYL CARBINOL ◻ PENTANOL-2 ◻ sec-PENTYL ALCOHOL
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD 28ZPAK -,36,72
eye-rbt 20 mg/24H SEV 28ZPAK -,36,72
ipr-rat LDLo:2130 mg/kg JIHTAB 27,1,45
orl-rbt LD50:2821 mg/kg IMSUAI 41,31,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 100 ppm (360 mg/m^3); STEL 125 ppm (450 mg/m^3)
NIOSH REL: (Isoamyl Alcohol, sec-): TWA 100 ppm; STEL 125 ppm
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A narcotic. A skin and severe eye irritant. Flammable liquid when exposed to heat or flame; can react with oxidizing materials. A severe explosion hazard when exposed to heat or flame. To fight fire, use alcohol foam, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.

PBN250 CAS: 107-87-9 HR: 3

2-PENTANONE
DOT: UN 1249
mf: $C_5H_{10}O$ mw: 86.15
PROP: Water-white liquid; fruity, ethereal odor. D: 0.801−0.806, vap d: 3.0, bp: 102°, flash p: 45°F, autoign temp: 941°F, lel: 1.5%, uel: 8.2%. Sltly sol in water; misc with alc, ether. IDLH 1500 ppm.
SYNS: ETHYL ACETONE □ FEMA No. 2842 □ METHYL-PROPYL-CETONE (FRENCH) □ METHYL-n-PROPYL KETONE □ METHYL PROPYL KETONE (ACGIH, DOT) □ METYLOPROPYLOKETON (POLISH) □ MPK
TOXICITY DATA with REFERENCE:
skn-rbt 405 mg open MLD UCDS** 7/20/67
sln-smc 13,600 ppm MUREAV 149,339,85
ihl-hmn TCLo:1500 ppm:EYE,CNS,GIT NPIRI* 1,83,74
orl-rat LD50:1600 mg/kg 38MKAJ 2C,4735,82
ihl-rat LCLo:2000 ppm/4H AIHAAP 23,95,62
ipr-rat LD50:800 mg/kg 38MKAJ 2C,4735,82
ihl-gpg LCLo: 13,000 ppm/5H 85INA8 6,1036,91
orl-uns LD50:3700 mg/kg GTPZAB 32(10),25,88
ihl-uns LC50:22 g/m^3 GISAAA 51(5),61,86
skn-rbt LD50:6500 mg/kg NPIRI* 1,83,74
OSHA PEL: TWA 200 ppm; STEL 250 ppm
ACGIH TLV: TWA 200 ppm; STEL 250 ppm
DFG MAK: 200 ppm (710 mg/m^3)
NIOSH REL: TWA 530 mg/m^3
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by skin contact and inhalation. Human systemic effects by inhalation: headache, nausea, irritation of the respiratory passages, eyes, and skin. A skin irritant. Mutation data reported. A highly flammable liquid. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. An explosion hazard in the form of vapor when exposed to heat or flame. To fight fire, use alcohol foam. Mixtures with bromine trifluoride may explode during evaporation. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Ketones I (desorption in CS_2) 1300.

PBO000 CAS: 33100-27-5 HR: 2
1,4,7,10,13-PENTAOXACYLOPENTADECANE
mf: $C_{10}H_{20}O_5$ mw: 220.30
PROP: Viscous liquid. D: 1.10 @ 25°/4°, bp: 1.8° @ 115−116°. Misc in H_2O.
SYN: 15-CROWN-5
TOXICITY DATA with REFERENCE:
skn-rbt 100 mg/24H MLD DCTODJ 8,451,85
eye-rbt 50 mg MOD DCTODJ 8,451,85
orl-rat LD50:1410 mg/kg DCTODJ 1,339,78
orl-mus LD50:1020 mg/kg TXAPA9 44,263,78
ipr-mus LD50:514 mg/kg DCTODJ 8,451,85
skn-rbt LD50:2520 mg/kg DCTODJ 8,451,85
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and intraperitoneal routes. A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

PBO250 CAS: 4353-28-0 HR: 1
3,6,9,12,15-PENTAOXAHEPTADECANE
mf: $C_{12}H_{26}O_5$ mw: 250.38
SYNS: DIETHOXYTETRAETHYLENE GLYCOL □ ETHER, BIS(2-(2-ETHOXYETHOXY)ETHYL) □ GLYCOL, DIETHOXY-TETRAETHYLENE □ TETRAETHYLENE GLYCOL DIETHYL ETHER
TOXICITY DATA with REFERENCE:
orl-rat LD50:4290 mg/kg AIHAAP 30,470,69
skn-rbt LD50:6350 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion and skin contact. Many glycol ethers have dangerous reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

PBO500 CAS: 143-24-8 HR: 1
2,5,8,11,14-PENTAOXAPENTADECANE
mf: $C_{10}H_{22}O_5$ mw: 222.32
PROP: A liquid. D: 1.009, bp: 275−276°. Sol in H_2O.
SYNS: ANSUL ETHER 181AT □ BIS(2-(2-METHOXYETHOXY)ETHYL) ETHER □ BIS(2-METHOXY-ETHYL)ETHER □ DIMETHOXYTETRAETHYLENE GLYCOL □ DIMETHOXYTETRAGLYCOL □ ETHER, BIS(2-(2-METHOXY-ETHOXY)ETHYL) □ TETRAETHYLENE GLYCOL DIMETHYL ETHER □ TETRAGLYME
TOXICITY DATA with REFERENCE:
eye-rbt 500 mg AJOPAA 29,1363,46
orl-rat LD50:5140 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: Mildly toxic by ingestion. Experimental reproductive effects. An eye irritant. Many glycol ethers are suspected of having dangerous human reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

PBO800 HR: 3
PENTASILVER DIAMIDOPHOSPHATE
mf: $Ag_5N_2O_2P$ mw: 630.33
PROP: IDLH 10 mg/m^3 (as Ag).
CONSENSUS REPORTS: Silver and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: An explosive very sensitive to friction or contact with sulfuric acid. When heated to decomposition it emits toxic fumes of PO_x and NO_x. See also SILVER COMPOUNDS.

PBP000 HR: 3
PENTASILVER DIIMIDOTRIPHOSPHATE
mf: $Ag_5H_2N_2O_8P_3$ mw: 790.30
PROP: IDLH 10 mg/m^3 (as Ag).
CONSENSUS REPORTS: Silver and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: An explosive sensitive to friction, heat, or contact with sulfuric acid. When heated to decomposition it emits very toxic fumes of PO_x and NO_x. See also SILVER COMPOUNDS and PHOSPHATES.

PBP100 HR: 3
PENTASILVER ORTHODIAMIDOPHOSPHATE
mf: $Ag_5H_2N_2O_3P$ mw: 617.37
CONSENSUS REPORTS: Silver and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Explodes on heating, friction, or on contact with sulfuric acid. When heated to decomposition it emits toxic fumes of PO_x and NO_x. See also SILVER COMPOUNDS.

PBP200 CAS: 2235-43-0 HR: 1
PENTASODIUM NITRILOTRIS(METHYLENE-PHOSPHONATE)
mf: $C_3H_{12}NO_9P_3$•5Na mw: 414.02
PROP: Clear water white to pale yellow aqueous solution. D: 1.42 @ 25°/25°.
SYNS: AMINOTRI(METHYLENEPHOSPHONIC ACID) PENTASODIUM SALT □ DEQUEST 2006 □ KENROX 106 □ PHOSPHONIC ACID, (NITRILOTRIS(METHYLENE))TRI-, PENTASODIUM SALT
TOXICITY DATA with REFERENCE:
orl-rat LD50:17,800 mg/kg EPASR* 8EHQ-0990,-0937
skn-rbt LD50:>15,800 mg/kg EPASR* 8EHQ-0990-0937
orl-qal LD50:>2510 mg/kg EPASR* 8EHQ-0990-0937
orl-dck LD50:>2510 mg/kg EPASR* 8EHQ-0990-0937
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits toxic vapors of NO_x and PO_x.

PBP300 CAS: 2276-52-0 HR: 3
PENTAZOCINE HYDROCHLORIDE
mf: $C_{19}H_{27}NO$•ClH mw: 321.93
PROP: White or cream crystalline powder. Sol in water: 1 in 30.
SYN: 1,2,3,4,5,6-HEXAHYDRO-6,11-DIMETHYL-3-(3-METHYL-2-BUTENYL)-2,6-METHANO-3-BENZAZOCIN-8-OL HCl
TOXICITY DATA with REFERENCE:
scu-mus TDLo:100 mg/kg (9D preg):TER DGDFA5 22,61,80
orl-wmn TDLo:50 mg/kg IJMDAI 22,385,86 IJMDAI 22,385,86
scu-mus LD50:126 mg/kg
SAFETY PROFILE: Poison by subcutaneous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

PBP400 CAS: 17146-95-1 HR: 3
PENTAZOCINE LACTATE
mf: $C_{19}H_{27}NO$•$C_3H_6O_3$ mw: 375.56
SYNS: LACTIC ACID, COMPD. WITH 1,2,3,4,5,6-HEXAHYDRO-6,11-DIMETHYL-3-(3-METHYL-2-BUTENYL)-2,6-METHANO-3-BENZAZOCIN-8-OL (1:1) □ RANBAXY
TOXICITY DATA with REFERENCE:
scu-wmn TDLo:2 mg/kg:SKN ARDEAC 123,297,1987
par-man TDLo:16 mg/kg/3W-I:MSK JRHUA9 13,210,1986
ipr-mus LD50:103 mg/kg JPPMAB 23,882,1971
SAFETY PROFILE: A poison by intraperitoneal route. Human systemic effects. A human skin irritant. When heated to decomposition it emits toxic vapors of NO_x.

PBP500 CAS: 764-39-6 HR: 3
2-PENTENAL
mf: C_5H_8O mw: 84.13
TOXICITY DATA with REFERENCE:
msc-ham:lng 300 µmol/L MUREAV 244,153,90
ipr-mus LD50:244 mg/kg ZolH## 23OCT75
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

PBP750 CAS: 2100-17-6 HR: 2
4-PENTENAL
mf: C_5H_8O mw: 84.13
PROP: D: 0.852 @ 20°/4°, bp: 103−104° @ 749 mm.
TOXICITY DATA with REFERENCE:
orl-rat LD50:620 mg/kg AIHAAP 23,95,62
ihl-rat LCLo:250 ppm/4H AIHAAP 23,95,62
skn-rbt LD50:1590 mg/kg AIHAAP 23,95,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and skin contact. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

PBP800 CAS: 1576-87-0 HR: D
2-(E)-PENTENAL
mf: C_5H_8O mw: 84.13
SYNS: 2-PENTENAL, (E)- □ trans-2-PENTENAL □ (E)-2-PENTENAL
TOXICITY DATA with REFERENCE:
mic-sat 50 ng/plate EMMUEG 19,338,1992
dnd-unr-lym 5 mmol/L MUREAV 283,131,1992
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

PBQ000 CAS: 109-67-1 HR: 3
1-PENTENE
mf: C_5H_{10} mw: 70.14
$H_2C{=}CHCH_2CH_2CH_3$
PROP: Liquid. Flash p: −0.4°F, lel: 1.5%, uel: 8.7%, d: 0.6429 @ 20°/4°, bp: 30.1°. Insol in water; misc with alc, ether, benzene.
TOXICITY DATA with REFERENCE:
ihl-rat LC50:175,000 mg/m^3/4H VCVGH*-,56,1990
ihl-rat LC50 110,000 mg/m^3/4H VCVGH*-,56,1990
ihl-rat LV50:280,000 mg/m^3/4H VCVGH*-,56,1990
SAFETY PROFILE: Low toxicity by inhalation. A very dangerous fire and explosion hazard when exposed to heat or flames; can react vigorously with oxidizing materials.

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

PBQ250 CAS: 646-04-8 HR: 3
2-PENTENE
mf: C_5H_{10} mw: 70.14

$CH_3CH{=}CHCH_2CH_3$

PROP: cis Form: Liquid. Flash p: −0.4°F, d: 0.6503 @ 20°/4°, mp: −180° to −178°, bp: 37.0°. trans Form: Liquid. D: 0.6482 @ 20°/4°, mp: −136° to −135°, bp: 35.85°.
SAFETY PROFILE: A dangerous fire and explosion hazard when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.

PBQ275 CAS: 25899-50-7 HR: 3
2-PENTENENITRILE, (Z)-
mf: C_5H_7N mw: 81.13
PROP: Liquid. Bp: 127. Sol in water. Flash pt: 26° C.
SYNS: cis-1-BUTENYL CYANIDE □ 1-CYANO-1-BUTENE □ cis-2-PENTENENITRILE □ (Z)-2-PENTENENITRILE □ cis-2-PENTENONITRILE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:450 mg/kg EPASR* 8EHQ-1190-1121
ihl-rat LC50:740 ppm/4H EPASR* 8EHQ-1190-1121
skn-rbt LD50:>200 mg/kg EPASR* 8EHQ-1190-1121
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

PBQ300 CAS: 16187-03-4 HR: 3
trans-2-PENTENE OZONIDE
mf: $C_5H_{10}O_3$ mw: 118.13

$OOCH(CH_2CH_3)OCHCH_3$

SYN: 3-ETHYL-5-METHYL-1,2,4-TRIOXOLANE
SAFETY PROFILE: Explodes when heated to ignition. When heated to decomposition it emits acrid smoke and irritating fumes. See also OZONIDES.

PBQ750 CAS: 591-80-0 HR: 3
4-PENTENOIC ACID
mf: $C_5H_8O_2$ mw: 100.13
PROP: A liquid. D: 0.984 @ 18°/4°, bp: 188−189°.
SYN: ALLYLACETIC ACID
TOXICITY DATA with REFERENCE:
orl-rat LD50:470 mg/kg FCTXAV 2,327,64
orl-mus LD50:610 mg/kg FCTXAV 2,327,64
ipr-mus LD50:315 mg/kg JPPMAB 21,85,69
scu-mus LD50:315 mg/kg JPPMAB 21,85,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

PBR000 CAS: 821-09-0 HR: 3
4-PENTEN-1-OL
mf: $C_5H_{10}O$ mw: 86.14
PROP: A liquid. Bp: 140−142°, flash p: <73.4°F, d: 0.863 @ 0°/4°.
SAFETY PROFILE: Dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.

PBR250 CAS: 1629-58-9 HR: 3
1-PENTEN-3-ONE
mf: C_5H_8O mw: 84.13
PROP: Bp: 102° @ 740 mm.
SYNS: ETHYL VINYL KETONE □ KETONE, ETHYL VINYL
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#00948
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

PBR500 CAS: 625-33-2 HR: 3
3-PENTEN-2-ONE
mf: C_5H_8O mw: 84.13
PROP: Colorless liquid. Bp: 122−124°, d: 0.856, vap d: 2.89.
SYNS: ETHYLIDENE ACETONE □ METHYL PROPENYL KETONE
TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H JIHTAB 30,63,48
eye-rbt 500 mg JIHTAB 30,63,48
orl-rat LD50:3200 mg/kg JIDHAN 30,63,48
ihl-rat LCLo:250 ppm/4H JIHTAB 31,343,49
skn-rbt LD50:500 mg/kg JIHTAB 30,63,48
CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and skin contact. A skin and eye 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. See also KETONES.

PBR750 HR: 3
2-PENTEN-4-YN-3-OL
mf: C_5H_6O mw: 82.103

$CH_3CH{=}C(OH)C{\equiv}CH$

SAFETY PROFILE: An explosion hazard. Distillation residue explodes above 90°C. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.

PBS000 CAS: 60-44-6 HR: 3
PENTHIENATE BROMIDE
mf: $C_{18}H_{30}NO_3S{\bullet}Br$ mw: 420.46
PROP: Pale-yellow crystals. Mp: 124.6°.
SYNS: α-CYCLOPENTYL-2-THIOPHENEGLYCOLATE DIETHYL-(2-HYDROXYETHYL)METHYLAMMONIUM

BROMIDE □ 2-DIETHYLAMINOETHYL-2-CYCLOPENTYL-2-(2-THIENYL)HYDROXYACETATE METHOBROMIDE □ 2-DIETHYLAMINOETHYL-α-CYCLOPENTYL-2-THIOPHENEGLYCOLATE METHOBROMIDE □ MONODRAL □ MONODRAL BROMIDE □ WIN 4369

TOXICITY DATA with REFERENCE:
orl-mus LD50:2080 mg/kg JPETAB 110,282,54
scu-mus LD50:350 mg/kg CLDND*
ivn-mus LD50:16 mg/kg JPETAB 110,282,54
ivn-gpg LDLo:99 mg/kg CRSBAW 151,614,57

SAFETY PROFILE: Poison by intravenous and subcutaneous routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NH_3, NO_x, SO_x, and Br^-.

PBS100 CAS: 53809-86-2 HR: 3
PENTLANDITE
mf: $Fe_9Ni_9S_{16}$ mw: 1544.00

PROP: Muted brassy to bronze yellow color with metallic luster.

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

SAFETY PROFILE: Confirmed carcinogen with experimental animal data.

PBS250 CAS: 115-58-2 HR: 3
PENTOBARBITAL
mf: $C_{11}H_{18}N_2O_3$ mw: 226.31

PROP: Available either as the free acid or sodium salt. Free acid is a fine white crystalline powder that is only slightly sol in water and ethanol. Salt is a white crystalline powder or granules and is very sol in water and ethanol.

SYNS: 5-AETHYL-5-PENTYL-(2')-BARBITURSAEURE (GERMAN) □ 5-ETHYL-5-PENTYLBARBITURIC ACID

TOXICITY DATA with REFERENCE:
ipr-rat LDLo:210 mg/kg JPHAA3 26,317,37
ipr-mus LD50:124 mg/kg ARZNAD 15,688,65

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

PBS500 CAS: 21642-83-1 HR: 3
R(+)-PENTOBARBITAL SODIUM
mf: $C_{11}H_{17}N_2O_3$•Na mw: 248.29

PROP: Crystal granules or white powder; sltly bitter taste. Decomp at approx 127°. Very sol in water, alc; insol in ether.

SYNS: R(+)-5-ETHYL-5-(1-METHYLBUTYL)BARBITURIC ACID SODIUM SALT □ SODIUM (R)(+)-PENTOBARBITAL

TOXICITY DATA with REFERENCE:
ipr-mus LD50:185 mg/kg TXAPA9 26,495,73
ivn-mus LD50:147 mg/kg TXAPA9 26,495,73

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Abuse may lead to addiction. When heated to decomposition it emits toxic fumes of NO_x and Na_2O. See also BARBITURATES.

PBS750 CAS: 21642-82-0 HR: 3
S(−)-PENTOBARBITAL SODIUM
mf: $C_{11}H_{17}N_2O_3$•Na mw: 248.29

SYN: S(−)-5-ETHYL-5-(1-METHYLBUTYL)BARBITURIC ACID SODIUM SALT

TOXICITY DATA with REFERENCE:
ipr-mus LD50:92 mg/kg TXAPA9 26,495,73
ivn-mus LD50:78 mg/kg TXAPA9 26,495,73

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and Na_2O. See also BARBITURATES.

PBT000 CAS: 52-62-0 HR: 3
PENTOLINIUM TARTRATE
mf: $C_{15}H_{32}N_2$•$2C_4H_5O_6$ mw: 538.67

PROP: Crystals; acid taste. Decomp @ 203°. Very sol in water; insol in ether, chloroform.

SYNS: ANSOLYSEN □ ANSOLYSEN BITARTRATE □ ANSOLYSEN TARTRATE □ MB 2050A □ PENTALINIUM TARTRATE □ 1,1'-PENTAMETHYLENEBIS(1-METHYLPYRROLIDINIUM HYDROGEN TARTRATE) □ PENTAMETHYLENE-1,5-BIS(1'-METHYLPYRROLIDINIUM TARTRATE) □ 1,1'-PENTAMETHYLENEBIS(1-METHYLPYRROLIDINIUM TARTRATE) □ PENTAPYRROLIDIUM BITARTRATE □ PENTILIUM □ PENTOLINIUM BITARTRATE □ PENTOLINIUM DITARTRATE

TOXICITY DATA with REFERENCE:
orl-rat LD50:890 mg/kg PSEBAA 120,511,65
orl-mus LD50:512 mg/kg NIIRDN 6,780,82
ipr-mus LD50:36 mg/kg NIIRDN 6,780,82
scu-mus LDLo:94 mg/kg CLDND*
ivn-mus LD50:29 mg/kg NIIRDN 6,780,82
ivn-dog LD50:10 mg/kg JAPMA8 46,346,57

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

PBT050 CAS: 8066-33-9 HR: 3
PENTOLITE
DOT: UN 0151
mf: $C_7H_5N_3O_6$•$C_5H_8N_4O_{12}$ mw: 543.32

PROP: The explosive charge is a pale yellow to orange solid with a faint odor. D: 1.7 @ 20°. mp: 76°.

SYNS: PENTOLITE, dry or wetted with <15% water, by weight (DOT) □ 1,3-PROPANEDIOL, 2,2-BIS((NITROOXY)METHYL)-, DINITRATE (ester), mixt. with 2-METHYL-1,3,5-TRINITROBENZENE

DOT CLASSIFICATION: EXPLOSIVE 1.1D; Label: EXPLOSIVE 1.1D

SAFETY PROFILE: An unstable explosive. When heated to decomposition it emits toxic vapors of NO_x.

PBT100 CAS: 53910-25-1 HR: 3
PENTOSTATIN
mf: $C_{11}H_{16}N_4O_4$ mw: 268.31

PROP: A solid. Mp: 220−225°.

SYNS: 2-CDF □ CL 67310465 □ CO-VIDARABINE □ DEOXYCOFORMYCIN □ 2'-DEOXYCOFORMYCIN □ (R)-3-(2-DEOXY-β-d-PENTOFURANOSYL)-3,6,7,8-TETRAHYDROIMIDAZO(4,5-d)(1,3)DIAZEPIN-8-OL □ NSC-218321

TOXICITY DATA with REFERENCE:
dnd-hmn:lym 10 μmol/L JBCHA3 259,9426,84
ivn-mus LD50:122 mg/kg NTIS** PB84-211424

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

PBT250 CAS: 76-75-5 HR: 3
PENTOTHAL
mf: $C_{11}H_{18}N_2O_2S$ mw: 242.37
SYNS: 5-ETHYLDIHYDRO-5-(1-METHYLBUTYL)-2-THIOXO-4,6,(1H,5H)-PYRIMIDINEDIONE (9CI) □ 5-ETHYL-5-(1-METHYLBUTYL)-2-THIOBARBITURIC ACID □ FARMOTAL □ INTRAVAL □ NESDONAL □ PENTHIOBARBITAL □ PENTOTHIOBARBITAL □ THIOMEBUMAL □ THIOPENTAL □ THIOPENTOBARBITAL □ THIOPENTONE □ THIOTHAL □ TIOPENTALE (ITALIAN)
TOXICITY DATA with REFERENCE:
cyt-hmn:leu 1500 mg/L TGANAK 18(1),13,84
ipr-rat LD50:120 mg/kg 27ZIAQ -,260,65
ivn-rat LD50:64 mg/kg PSEBAA 89,292,55
orl-mus LD50:600 mg/kg BJPCAL 1,215,46
ipr-mus LD50:110 mg/kg AIPTAK 128,391,60
ivn-mus LD50:70 mg/kg ARZNAD 4,441,54
orl-rbt LDLo:600 mg/kg JPETAB 60,189,37
rec-rbt LDLo:110 mg/kg JPETAB 60,189,37
SAFETY PROFILE: Poison by intraperitoneal, intravenous, and rectal routes. Moderately toxic by ingestion. An experimental teratogen. Human mutation data reported. A short-acting intravenous anesthetic. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also PENTOTHAL SODIUM and BARBITURATES.

PBT500 CAS: 71-73-8 HR: 3
PENTOTHAL SODIUM
mf: $C_{11}H_{18}N_2O_2S{\bullet}Na$ mw: 265.36
PROP: Yellowish hygroscopic powder.
SYNS: 5-ETHYLDIHYDRO-5-(1-METHYLBUTYL)-2-THIOXO-4,6(1H,5H)-PYRIMIDINEDIONE, MONOSODIUM SALT □ 5-ETHYL-5-(1-METHYLBUTYL)-2-THIOBARBITURIC ACID MONOSODIUM □ FARMOTAL □ HYPNOSTAN □ INTRAVAL SODIUM □ LEOPENTAL □ MONOSODIUM-5-ETHYL-5-(1-METHYLBUTYL) THIOBARBITURATE □ NESDONAL SODIUM □ PENTHIOBARBITAL SODIUM □ RAVONAL □ SODIUM-5-ETHYL-5-(1-METHYLBUTYL)-2-THIOBARBITURATE □ SODIUM PENTHIOBARBITAL □ SODIUM PENTOTHAL □ SODIUM PENTOTHIOBARBITAL □ SODIUM THIOPENTAL □ SODIUM THIOPENTOBARBITAL □ SODIUM THIOPENTONE □ SOLUBLE THIOPENTONE □ THIOMEBUMAL SODIUM □ THIONEMBUTAL □ THIOPENTAL SODIUM □ THIOPENTAL SODIUM SALT □ THIOPENTONE SODIUM □ THIOTHAL SODIUM □ THIPENTAL SODIUM □ TIOPENTAL SODIUM □ TRAPANAL □ TRAPANAL SODIUM
TOXICITY DATA with REFERENCE:
rec-hmn TDLo:45 mg/kg:CVS,PUL AACRAT 46,395,67
iat-hmn TDLo:7 mg/kg:CVS LANCAO 2,571,43
orl-rat LD50:117 mg/kg JPETAB 115,432,55
ipr-rat LD50:115 mg/kg ANESAV 8,589,47
ivn-rat LD50:43,600 µg/kg JPETAB 116,317,56
rec-rat LD50:102 mg/kg AACRAT 46,395,67
orl-mus LD50:208 mg/kg JPETAB 115,432,55
ipr-mus LD50:115 mg/kg NIIRDN 6,457,82
scu-mus LD50:225 mg/kg TXAPA9 27,70,74
ivn-mus LD50:57 mg/kg AIPTAK 105,221,56
orl-dog LDLo:150 mg/kg JPETAB 60,125,37
ivn-dog LD50:36 mg/kg CRAAA7 29,89,50
ipr-rbt LD50:35 mg/kg NIIRDN 6,457,82
ivn-rbt LD50:31 mg/kg CRAAA7 29,89,50
ipr-gpg LD50:57,500 µg/kg NIIRDN 6,457,82
SAFETY PROFILE: Poison by ingestion, intraperitoneal, rectal, subcutaneous, and intravenous routes. Human systemic effects by intraarterial route: acute arterial occlusion; by rectal route: respiratory depression, body temperature decrease, general anesthetic. An experimental teratogen. Experimental reproductive effects. An intravenous anesthetic. When heated to decomposition it emits toxic fumes of NO_x and Na_2O. See also PENTOTHAL and BARBITURATES.

PBU100 CAS: 6493-05-6 HR: 3
PENTOXYPHYLLINE
mf: $C_{13}H_{18}N_4O_3$ mw: 278.35
PROP: Colorless needles from methanol; bitter tasting. Mp: 105°. Solubility in water: 77 mg/mL at 25°, 191 mg/mL at 37°; in benzene: 11 g/100 mL.
SYNS: BL 191 □ 3,7-DIHYDRO-3,7-DIMETHYL-1-(5-OXOHEXYL)-1H-PURINE-2,6-DIONE □ 3,7-DIMETHYL-1-(5-OXOHEXYL)-1H,3H-PURIN-2,6-DIONE □ DIMETHYLOXOHEXYLXANTHINE □ 3,7-DIMETHYL-1-(5-OXOHEXYL)XANTHINE □ 1-(5-OXOHEXYL)-3,7-DIMETHYLXANTHINE □ 1-(5-OXOHEXYL)THEOBROMINE □ OXPENTIFYLLINE □ PENTOXIFYLLIN □ PENTOXIFYLLINE □ PENTOXIPHYLLIUM □ RENTYLIN □ TORENTAL □ TRENTAL □ VAZOFIRIN
TOXICITY DATA with REFERENCE:
dns-hmn:oth 1 mmol/L BIOJAU 35,665,81
dni-hmn:oth 4 mmol/L BIOJAU 35,665,81
orl-wmn TDLo:80 mg/kg:CVS BMJOAE 288,26,84
orl-rat LD50:1170 mg/kg YACHDS 9,13,81
ipr-rat LD50:230 mg/kg YACHDS 9,13,81
scu-rat LD50:375 mg/kg OYYAA2 15,153,78
ivn-rat LD50:231 mg/kg ARZNAD 21,1446,71
orl-mus LD50:1225 mg/kg NIIRDN 6,779,82
ipr-mus LD50:239 mg/kg ARZNAD 21,1446,71
scu-mus LD50:480 mg/kg IYKEDH 8,267,77
ivn-mus LD50:108 mg/kg IYKEDH 8,267,77
ivn-rbt LD50:100 mg/kg IYKEDH 8,267,77
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. Human systemic effects by ingestion: pulse rate decrease with fall in blood pressure. Human mutation data reported. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PBV000 CAS: 75-85-4 HR: 3
tert-PENTYL ALCOHOL
mf: $C_5H_{12}O$ mw: 88.17
PROP: Colorless liquid. Mp: −11.9°, bp: 101.8°, flash p: 105°F (CC), d: 0.809, autoign temp: 819°F, vap press: 10 mm @ 17.2°, lel: 1.2%, uel: 9%, vap d: 3.03. Sltly sol in water; sol in alc and ether.
SYNS: tert-AMYL ALCOHOL (DOT) □ AMYLENE HYDRATE □ DIMETHYLETHYLCARBINOL □ 2-METHYL BUTANOL-2 □ 2-

METHYL-2-BUTANOL □ 3-METHYLBUTAN-3-OL □ tert-PENTANOL

TOXICITY DATA with REFERENCE:
unr-man LDLo:441 mg/kg 85DCAI 2,73,70
orl-rat LD50:1000 mg/kg SCIEAS 116,663,52
ipr-rat LDLo:1530 mg/kg JIHTAB 27,1,45
scu-rat LDLo:1400 mg/kg JPETAB 49,36,33
rec-rat LDLo:1400 mg/kg JPETAB 49,36,33
orl-mus LDLo:2500 mg/kg LDTU** -,-,31
scu-mus LD50:2100 mg/kg ARZNAD 5,161,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic to humans by an unspecified route. Moderately toxic experimentally by ingestion, intraperitoneal, subcutaneous, and rectal routes. Narcotic in high concentration. Flammable liquid when exposed to heat, flame, or oxidizing materials. Moderately explosive in the form of vapor when exposed to heat or flame. A hypnotic agent. When heated to decomposition it emits acrid smoke and irritating fumes.

PBV500 HR: 3
PENTYLAMINE (mixed isomers)

DOT: UN 1106
mf: $C_5H_{13}N$ mw: 87.17

PROP: Water-white liquid. Mp: −55°, bp: 104°, flash p: 45°F (OC), d: 0.7614 @ 20°/4°, vap d: 3.01, lel: 2.2%, uel: 22%.

SYNS: AMYLAMINE (mixed isomers) □ AMYLAMINES (DOT)

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV UCDS** 8/12/68
orl-rat LD50:470 mg/kg UCDS** 8/12/68
ihl-rat LCLo:2000 ppm/4H AIHAAP 30,470,69
skn-rbt LD50:1120 mg/kg AIHAAP 30,470,69

DOT CLASSIFICATION: 3; Label: Flammable Liquid; DOT Class: 3; Label: Flammable Liquid, Corrosive

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A severe skin irritant. Dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. Moderately explosive in the form of vapor when exposed to heat or flame. To fight fire, use alcohol foam, dry chemical. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

PBV505 CAS: 110-58-7 HR: 3
1-PENTYLAMINE

DOT: UN 2733/UN 2734
mf: $C_5H_{13}N$ mw: 87.19

PROP: Colorless liquid. D: 0.7547, mp: −55−−50°, bo: 104.4°. Very sol in water. Flash pt: 45° F.

SYNS: 1-AMINOPENTANE □ AMYLAMINE □ AMYLAMINE (DOT) □ n-AMYLAMINE □ MONOAMYLAMINE □ NORL-EUCAMINE □ 1-PENTANAMINE □ PENTYLAMINE □ n-PENTYLAMINE

TOXICITY DATA with REFERENCE:
ipr-rat LDLo:37,500 µg/kg FATOAO 31,238,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

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

PBV750 CAS: 2188-67-2 HR: 3
2,N-PENTYLAMINOETHYL-p-AMINOBENZOATE

mf: $C_{14}H_{22}N_2O_2$ mw: 250.38

PROP: A solid. Mp: 66°.

SYNS: p-AMINOBENZOIC ACID-2-N-AMYLAMINOETHYL ESTER □ 2-N-AMYLAMINOETHYL-p-AMINOBENZOATE □ AMYLCAINE □ AMYLSINE □ NAEPAINE

TOXICITY DATA with REFERENCE:
scu-mus LDLo:350 mg/kg JPETAB 62,69,38
ivn-rbt LDLo:18 mg/kg JPETAB 62,69,38
scu-gpg LDLo:100 mg/kg JPETAB 62,69,38

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

PBV600 CAS: 29316-05-0 HR: 3
sec-PENTYLBENZENE

mf: $C_{11}H_{16}$ mw: 148.27

SYNS: sec-AMYLBENZENE □ BENZENE, sec-PENTYL-

TOXICITY DATA with REFERENCE:
orl-rat LDLo:10 mL/kg AMIHAB 19,403,59

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

PBV800 CAS: 2049-96-9 HR: 1
n-PENTYL BENZOATE

mf: $C_{12}H_{16}O_2$ mw: 192.28

PROP: Fragrance ingredient.

SYNS: AMYL BENZOATE □ BENZOIC ACID, PENTYL ESTER □ PENTYL BENZOATE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 11,1079,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PBW000 CAS: 26311-45-5 HR: 3
4-n-PENTYLBENZOIC ACID

mf: $C_{12}H_{16}O_2$ mw: 192.28

PROP: Colorless liquid. D: 0.992 @ 14°/14°, bp: 260.7 @ 746 mm. Insol in water; misc in alc and ether.

SYNS: p-AMYLBENZOIC ACID □ p-PENTYLBENZOIC ACID

TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#10073

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PBW400 CAS: 20675-51-8 HR: 3
PENTYLCANNABICHROMENE

mf: $C_{21}H_{30}O_2$ mw: 314.51

PROP: Crystals. Mp: 144−146°.

SYNS: 2H-1-BENZOPYRAN-5-OL, 2-METHYL-2-(4-METHYL-3-PENTENYL)-7-PENTYL- □ CANNABICHROME □ CANNABICHROMENE □ CANNANBICHROMENE

TOXICITY DATA with REFERENCE:
dni-hmn:lyms 100 µmol/L FEPRA7 36,1748,77
ipr-mus LD50:113 mg/kg GEPHDP 12,357,81
ivn-mky LD50:270 mg/kg TXAPA9 58,118,81

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

PBW450 CAS: 540-07-8 HR: 1
PENTYL CAPROATE
mf: $C_{11}H_{22}O_2$ mw: 186.33

SYNS: AMYL CAPROATE □ AMYL CAPRONATE □ AMYL HEXANOATE □ HEXANOIC ACID, PENTYL ESTER □ PENTYL HEXANOATE

TOXICITY DATA with REFERENCE:
orl-rat LD50:>5 g/kg FCTOD7 26,285,88
skn-rbt LD50:>5 g/kg FCTOD7 26,285,88

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.

PBW500 CAS: 543-59-9 HR: 3
PENTYL CHLORIDE
mf: $C_5H_{11}Cl$ mw: 106.61

PROP: Water-white liquid; sweet odor. Mp: −99°, bp: 108.2°, flash p: 54°F (OC), d: 0.883 @ 20°/4°, autoign temp: 500°F, vap d: 3.67, lel: 1.4%, uel: 8.6%.

SYNS: n-AMYL CHLORIDE □ AMYL CHLORIDE (DOT) □ 1-CHLOROPENTANE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. Moderately explosive in the form of vapor when exposed to heat or flame. To fight fire, use foam, CO_2, dry chemical. Dangerous; when heated to decomposition it emits highly toxic fumes of phosgene and Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

PBW600 CAS: 25564-22-1 HR: 2
2-PENTYL-2-CYCLOPENTEN-1-ONE
mf: $C_{10}H_{16}O$ mw: 152.26

SYN: 2-CYCLOPENTEN-1-ONE, 2-PENTYL-

TOXICITY DATA with REFERENCE:
orl-rat LD50:2200 mg/kg FCTOD7 30,7S,92
skn-rbt LD50:>5 g/kg FCTOD7 30,7S,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.

PBW750 CAS: 12789-46-7 HR: 2
PENTYL ESTER PHOSPHORIC ACID

DOT: UN 2819
mf: $C_5H_{13}O_4P$ mw: 168.15

SYN: AMYL ACID PHOSPHATE (DOT)

TOXICITY DATA with REFERENCE:
orl-rat LD: >250 mg/kg NCNSA6 5,37,53

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Corrosive and irritating to the skin, eyes, and mucous membranes. When heated to decomposition it emits toxic fumes of PO_x. See also ESTERS.

PBX000 CAS: 693-65-2 HR: 3
PENTYL ETHER
mf: $C_{10}H_{22}O$ mw: 158.32

PROP: Liquid. Mp: −69.3°, bp: 187°, flash p: 135°F (OC), d: 0.783 @ 20°/4°, vap d: 5.46, autoign temp: 340°F.

SYNS: AMYL ETHER □ n-AMYL ETHER □ DIAMYL ETHER □ DI-n-AMYL ETHER □ DIPENTYL ETHER □ ETHER, DI-n-PENTYL- □ 1,1'-OXYBISPENTANE □ PENTANE, 1,1'-OXYBIS- (9CI)

TOXICITY DATA with REFERENCE:
ivn-mus LD50:164 mg/kg JPMSAE 67,566,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Flammable liquid when exposed to heat or flame; reacts with oxidizing materials. To fight fire, use alcohol foam, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

PBX100 CAS: 64891-12-9 HR: 1
N-PENTYLHEPTANAMIDE
mf: $C_{12}H_{25}NO$ mw: 199.38

SYNS: AI3-35714-AGA □ HEPTANAMIDE, N-PENTYL-

TOXICITY DATA with REFERENCE:
orl-rat LD :>5140 mg/kg AEHA** 51-0803-77

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

PBX250 CAS: 1119-68-2 HR: 2
n-PENTYLHYDRAZINE HYDROCHLORIDE
mf: $C_5H_{14}N_2$•ClH mw: 138.67

SYN: n-AMYLHYDRAZINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
orl-mus TDLo:11 g/kg/80W-C:NEO BJCAAI 31,492,75
orl-mus TD:12 mg/kg/W-C:ETA PAACA3 16,61,75

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

PBX325 CAS: 3425-61-4 HR: 3
tert-PENTYL HYDROPEROXIDE
mf: $C_5H_{12}O_2$ mw: 104.17

PROP: A liquid or gas. Mp: −70°, bp: 32−33° @ 4.3 mm.

SYNS: tert-AMYL HYDROPEROXIDE □ 1,1-DIMETHYLPROPYL HYDROPEROXIDE

TOXICITY DATA with REFERENCE:
orl-rat LD50:863 mg/kg 85GMAT -,21,82
ipr-rat LD50:225 mg/kg GTPZAB 22(7),51,78

orl-mus LD50:450 mg/kg 85GMAT -,21,82
ipr-mus LD50:275 mg/kg 85GMAT -,21,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES, ORGANIC.

PBX350 CAS: 25677-40-1 HR: 2
2-PENTYLIDENECYCLOHEXANONE
mf: $C_{11}H_{18}O$ mw: 166.29
PROP: Component of gasoline.
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV FCTOD7 20(Suppl),797,82
orl-rat LD50:5 g/kg FCTOD7 20(Suppl),797,82
skn-rbt LD50:3500 mg/kg FCTOD7 20(Suppl),797,82
SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. A severe skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

PBX400 CAS: 994-05-8 HR: 2
tert-PENTYL METHYL ETHER
mf: $C_6H_{14}O$ mw: 102.20
PROP: Component of gasoline.
SYNS: tert-AMYL METHYL ETHER (ACGIH) □ BUTANE, 2-METHOXY-2-METHYL- □ 1,1-DIMETHYLPROPYL METHYL ETHER □ ETHER, METHYL tert-PENTYL (6CI,7CI,8CI) □ 2-METHOXY-2-METHYLBUTANE □ METHYL tert-AMYL ETHER □ METHYL 1,1-DIMETHYLPROPYL ETHER □ METHYL tert-PENTYL ETHER □ TAME □ TAME (ETHER)
TOXICITY DATA with REFERENCE:
orl-rat LD50:2100 mg/kg JJATDK 15,313,1995
ACGIH TLV: TWA 20 ppm
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PBX500 CAS: 10589-74-9 HR: 3
n-PENTYLNITROSOUREA
mf: $C_6H_{13}N_3O_2$ mw: 159.22
SYNS: n-AMYLNITROSOUREA □ 1-AMYL-1-NITROSOUREA □ ANU □ 1-NITROSO-1-PENTYLUREA
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 68,1,79
mma-sat 25 µg/plate TCMUE9 1,13,84
pic-esc 2 mg/L TCMUE9 1,91,84
cyt-ham:fbr 250 mg/L/48H MUREAV 48,337,77
orl-rat TDLo:184 g/kg/49W-I:CAR GANNA2 71,464,80
skn-mus TDLo:15,922 µg/kg/50W-I:CAR JCREA8 114,246,88
orl-rat LD50:560 mg/kg PPTCBY 2,85,72
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

PBX750 CAS: 62573-57-3 HR: 2
m-(3-PENTYL)PHENYL-N-METHYL-N-NITROSOCARBAMATE
mf: $C_{13}H_{18}N_2O_3$ mw: 250.33
SYNS: N-METHYL-N-NITROSOCARBAMIC ACID-m-3-PENTYLPHENYL ESTER □ NITROSO-BUX-TEN
TOXICITY DATA with REFERENCE:
mmo-esc 100 µmol/L IARCCD 14,425,75
mma-sat 125 ng/plate MUREAV 56,1,77
dnd-hmn:fbr 10 µmol/L MUREAV 44,1,77
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.

PBX800 CAS: 23389-74-4 HR: 3
PENTYL 4-PYRIDYL KETONE
mf: $C_{11}H_{15}NO$ mw: 177.27
SYNS: 1-HEXANONE, 1-(4-PYRIDYL)- □ 4-HEXANOYLPYRIDINE □ KETONE, PENTYL 4-PYRIDYL □ PYRIDINE, 4-HEXANOYL- □ 1-(4-PYRIDYL)-1-HEXANONE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:325 mg/kg JMCMAR 14,551,71
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

PBX900 CAS: 5443-89-0 HR: D
6-(PENTYLTHIO)PURINE
mf: $C_{10}H_{14}N_4S$ mw: 222.34
SYNS: 6-AMYLMERCAPTOPURINE □ PURINE, 6-(PENTYLTHIO)-
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PBY750 CAS: 107-72-2 HR: 2
PENTYLTRICHLOROSILANE
DOT: UN 1728
mf: $C_5H_{11}Cl_3Si$ mw: 205.60
PROP: A liquid. D: 1.13 @ 25°, bp: 171−172°.
SYN: AMYL TRICHLOROSILANE
TOXICITY DATA with REFERENCE:
skn-rbt 5 mg/24H SEV 85JCAE -,1225,86
skn-rbt 100 µg/24H open AIHAAP 23,95,62
eye-rbt 250 µg/24H SEV 85JCAE -,1225,86
orl-rat LD50:2340 mg/kg AIHAAP 23,95,62
ihl-rat LCLo:2000 ppm/4H JIHTAB 31,343,49
skn-rbt LD50:780 mg/kg AIHAAP 23,95,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Mildly toxic by inhalation. A corrosive irritant to the eyes, skin, and mucous membranes. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLOROSILANES.

PBZ000 CAS: 2761-24-2 HR: 1
PENTYLTRIETHOXYSILANE
mf: $C_{11}H_{26}O_3Si$ mw: 234.46

SYN: AMYLTRIETHOXYSILANE

TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H MLD AMIHBC 10,61,54
eye-rbt 500 mg AMIHBC 10,61,54
orl-rat LD50:20 g/kg AMIHBC 10,61,54
skn-rbt LD50:7130 mg/kg AMIHBC 10,61,54

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.

PCA250 CAS: 627-19-0 HR: 3
1-PENTYNE
mf: C_5H_8 mw: 68.119
$HC{\equiv}CCH_2CH_2CH_3$

PROP: A liquid. Fp: −106°, bp: 48−49°, flash p: −4°F.

SAFETY PROFILE: Dangerous fire hazard 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 ACETYLENE COMPOUNDS.

PCA300 CAS: 627-21-4 HR: 3
2-PENTYNE
mf: C_5H_8 mw: 68.12
$CH_3C{\equiv}CCH_2CH_3$

PROP: D: 0.713 @ 17°/4°, fp: −109.32°, bp: 56.12°.

SAFETY PROFILE: A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. Solutions with silver perchlorate explode on contact with mercury. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.

PCA400 CAS: 42873-80-3 HR: D
1-(4-PENTYNYLOXY)-4-PHENOXYBENZENE
mf: $C_{17}H_{16}O_2$ mw: 252.33

SYNS: BENZENE, 1-(4-PENTYNYLOXY)-4-PHENOXY- ☐ CGA 29170 ☐ DOFENAPYN

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

PCB000 CAS: 70384-29-1 HR: 3
PEPLEOMYCIN SULFATE

PROP: Mp: 196−198°.

SYN: NK 631

TOXICITY DATA with REFERENCE:
eye-rbt 1 mg MLD JJANAX 31,859,78
ipr-rat LD50:180 mg/kg JJANAX 31,719,78
scu-rat LD50:199 mg/kg JJANAX 31,719,78
ivn-rat LD50:215 mg/kg JJANAX 31,719,78
ipr-mus LD50:77 mg/kg JJANAX 31,719,78
scu-mus LD50:80 mg/kg JJANAX 31,719,78
ivn-mus LD50:45 mg/kg JJANAX 31,719,78

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. Questionable carcinogen with experimental carcinogenic data. An eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

PCB250 CAS: 8006-90-4 HR: 2
PEPPERMINT OIL

PROP: From steam distillation of *Mentha piperita L.* (Fam. *Labiatae*). Colorless to pale yellow liquid; strong odor and taste of peppermint. D: 0.896−0.908 @ 25°/25°, refr index: 1.459 @ 20°.

SYN: PFEFFERMINZ OEL (GERMAN)

TOXICITY DATA with REFERENCE:
dnr-bcs 5 µL/disc TOFOD5 8,91,85
orl-rat LD50:2426 mg/kg JPMSAE 54,1071,65
ipr-rat LD50:819 mg/kg JPMSAE 54,1071,65
orl-mus LD50:2490 mg/kg TOFOD5 8,91,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An allergen. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

PCB275 HR: 1
PEPPER PLANTS

PROP: About 20 species of perennial herbs native to tropical America. When ripe the fruit is a red, orange or yellow pod containing many small seeds. Most species are cultivated as spices or ornamentals. The bird pepper grows wild in the southern United States and Mexico.

SYNS: AJI CABALLERO (PUERTO RICO) ☐ AJI de GALLINA (PUERTO RICO) ☐ AJI GUAGUAO (CUBA) ☐ AJI PICANTE (PUERTO RICO) ☐ BIRD PEPPER ☐ C. ANNUUM ☐ C. FRUTESCENS ☐ CAPSICUM (VARIOUS SPECIES) ☐ CAYENNE PEPPER ☐ CHERRY PEPPER ☐ CHILE PEPPER ☐ HOT PEPPER ☐ LONG PEPPER ☐ NIOI-PEPA (HAWAII) ☐ PIMENT (HAITI) ☐ PIMENT BOUC (HAITI) ☐ RED PEPPER ☐ TABASCO PEPPER

SAFETY PROFILE: The fruit and seeds contain the irritant capsaicin. Except for the group including the bell pepper, sweet pepper, and green pepper, chewing the fruit can cause a painful but harmless irritation of the mouth and lips. Skin contact may cause redness but not blistering. See also CAPSAICIN.

PCB300 HR: 2
PEPPER TREE

PROP: The pepper tree grows to 35 feet usually with a twisted trunk and hanging branches like a willow. The Brazilian pepper tree grows to about 20 feet. Both species have compound leaves which smell of black pepper when crushed and produce small red berries. The Brazilian pepper is a common nuisance tree in southern Florida, Hawaii, Guam, and the West Indies. The pepper tree is cultivated in California, Hawaii and the West Indies.

SYNS: ARBOL de PERU (MEXICO) ☐ BRAZILIAN PEPPER TREE ☐ CALIFORNIA PEPPER TREE ☐ CHRISTMAS BERRY TREE ☐ COPAL (CUBA) ☐ FLORIDA HOLLY ☐ NANI-O-HILO (HAWAII) ☐ PERUVIAN MASTIC TREE ☐ PIMIENTA del BRAZIL (PUERTO RICO) ☐ PIMIENTO de AMERICA (CUBA) ☐ SCHINUS MOLLE ☐ SCHINUS TEREBINTHIFOLIUS ☐ WILELAIKI (HAWAII)

SAFETY PROFILE: The berries contain poisonous triterpines. Ingestion of the berries can cause throat irritation, vomiting and diarrhea.

PCB400 CAS: 38613-77-3 HR: 1

PEPQ
mf: $C_{68}H_{92}O_4P_2$ mw: 1035.54
SYNS: IRGAFOS PEPQ □ IRGAFOS P-EPQFF □ IRGANOX P-EPQ □ IRGAPHOS P-EPO □ PHOS 2 □ PHOSPHONOUS ACID, (1,1'-BIPHENYL)-4,4'-DIYLBIS-, TETRAKIS(2,4-BIS(1,1-DIMETHYLETHYL)PHENYL) ESTER □ SANDOSTAB P-EPQ □ SANDOSTAB PEPQ □ SANDUVOR P-EPQ
TOXICITY DATA with REFERENCE:
orl-rat LD50:>10 g/kg KHZDAN 28(5),64,1985
orl-mus LD50:>10 g/kg KHZDAN 28(5),64,1985
SAFETY PROFILE: Low toxicity by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of PO_x.

PCB750 CAS: 26305-03-3 HR: 2
PEPSTATIN A
mf: $C_{34}H_{63}N_5O_9$ mw: 686.02
PROP: Colorless needles. Mp: 228−229° (decomp). Sol in methanol, ethanol, acetic acid, DMSO; insol in benzene, chloroform, ether, water.
SYN: PEPSTATIN
TOXICITY DATA with REFERENCE:
ipr-rat LD50:875 mg/kg JANTAJ 23,259,70
ipr-mus LD50:1090 mg/kg JANTAJ 23,259,70
ipr-dog LD50:450 mg/kg JANTAJ 23,259,70
ipr-rbt LD50:820 mg/kg JANTAJ 23,259,70
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.

PCC000 CAS: 9076-25-9 HR: 3
PEPTICHEMIO
PROP: Made up of 6 peptides of m-(di-(2-chloroethyl)amino-1-phenylalanine) (WDMBAM 5,303,75)
SYNS: NSC-247516 □ PEP □ PTC
TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate GSLNAG 9,10,77
dns-hmn:leu 10 µmol/L EJCODS 17,991,81
ipr-rat LD50:7180 µg/kg WDMBAM 5(3),303,75
ipr-mus LD50:10,310 µg/kg WDMBAM 5(3),303,75
scu-mus LD50:13 mg/kg WDMBAM 5(3),303,75
ivn-mus LD50:10,560 µg/kg WDMBAM 5(3),303,75
SAFETY PROFILE: Poison by intravenous, intraperitoneal, and subcutaneous routes. Human mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

PCC475 CAS: 6002-77-3 HR: 3
PERAZINE MALEATE
mf: $C_{20}H_{25}N_3S{\bullet}xC_4H_4O_4$
SYN: 10H-PHENOTHIAZINE, 10-(3-(4-METHYL-1-PIPERAZIN-YL)PROPYL)- (Z)-2-BUTENEDIOATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1381 mg/kg NIIRDN 6,765,82
ipr-rat LD50:95,200 µg/kg NIIRDN 6,765,82
orl-mus LD50:1196 mg/kg NIIRDN 6,765,82
ipr-mus LD50:189 mg/kg NIIRDN 6,765,82
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

PCC480 CAS: 13654-09-6 HR: 3
PERBROMOBIPHENYL
mf: $C_{12}Br_{10}$ mw: 943.22
SYNS: ADINE 0102 □ BIPHENYL, DECABROMO- □ 1,1'-BIPHENYL, 2,2',3,3',4,4',5,5',6,6'-DECABROMO- □ BERKFLAM B 10 □ DECABROMOBIPHENYL □ 2,2',3,3',4,4',5,5',6,6'-DECABROMO-BIPHENYL □ DECABROMODIPHENYL □ FLAMMEX B 10
CONSENSUS REPORTS: NTP 10th Report on Carcinogens, 2000: Reasonably anticipated to be human carcinogen
SAFETY PROFILE: Confirmed HUMAN carcinogen. When heated to decomposition it emits toxic vapors of Br^-.

PCC750 CAS: 25251-03-0 HR: 3
PERBROMYL FLUORIDE
mf: $BrFO_3$ mw: 146.91
PROP: Attacks glass, polytetrafluoroethylene, polychlortri-fluoroethylene, halogen oxides.
SAFETY PROFILE: Poison irritant to skin, eyes and mucous membranes. When heated to decomposition it emits very toxic fumes of Br^- and F^-. See also BROMIDES and FLUORIDES.

PCD000 HR: 3
PERCHLORATES
PROP: Composition: combinations with the monovalent $-ClO_4$ radical.
SAFETY PROFILE: Perchlorates are unstable materials, and are an irritant to the body wherever they come in contact with it. Avoid skin contact. Flammable by chemical reaction; powerful oxidizers. All perchlorates are potentially hazardous when in contact with reducing materials. Moderate explosion hazard when shocked or exposed to heat or by chemical reaction. Perchlorates, when mixed with carbonaceous material, form explosive mixtures. Many perchlorates of nitrogenous bases (e.g., hydroxylamine, urea, methylamine, ethylamine, isopropylamine, 4-ethylpyridine, diaminoethane) and organic perchlorates are explosives. Diazonium perchlorates are very dangerous. All perchlorates are considered to be fire and explosive hazards when associated with carbonaceous materials or finely divided metals. This is also true in the presence of calcium hydride, sulfur, powdered magnesium, aluminum, zinc. Perchlorates react violently with benzene, CaH_2, charcoal, olefins, ethanol, SrH_2, S, H_2SO_4, and reducing materials. To fight fire, use water or foam. When heated to decomposition they emit toxic fumes of Cl^-. See also EXPLOSIVES, HIGH.

PCD250 CAS: 7601-90-3 HR: 3
PERCHLORIC ACID
DOT: UN 1802/UN 1873
mf: $ClHO_4$ mw: 100.46
PROP: Colorless, fuming, unstable, mobile liquid. Mp: −112°, bp: 19° @ 11 mm, d: 1.768 @ 22°.
SYNS: PERCHLORIC ACID, >72% acid by weight (DOT) □ PERCHLORIC ACID, >50% but not >72% acid, by weight (UN 1873) (DOT) □ PERCHLORIC ACID, not >50% acid, by weight (UN 1802) (DOT)

TOXICITY DATA with REFERENCE:
orl-rat LD50:1100 mg/kg GTPZAB 17(8),33,73
scu-mus LD50:250 mg/kg GTPZAB 17(8),33,73
orl-dog LD50:400 mg/kg GTPZAB 17(8),33,73
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 5.1; Label: Oxidizer, Corrosive (UN 1873); DOT Class: 8; Label: Corrosive, Oxidizer (UN 1802)
SAFETY PROFILE: Poison by ingestion and subcutaneous routes. A severe irritant to the eyes, skin, and mucous membranes. A powerful oxidizer. A severe explosion hazard; the anhydrous form can explode spontaneously.

Potentially explosive reaction with acetic anhydride + acetic acid + organic materials, acetic anhydride + organic materials + transition metals (e.g., chromium, iron, nickel), acetonitrile, alcohols, azo dyes + orthoperiodic acid, bis(2-hydroxyethyl)terephthalate + ethanol + ethylene glycol, bismuth (above 110°C), antimony (above 110°C), carbon, charcoal + chromium trioxide + heat, cellulose and derivatives + heat, combustible materials, dehydrating agents, dichloromethane + dimethylsulfoxide, diethyl ether, dimethyl ether, dioxane + nitric acid + heat, fecal material + nitric acid, graphitic carbon + nitric acid, hydrofluoric acid + structural materials, iron(II) sulfate, nitric acid + organic matter + heat, nitric acid + pyridine + sulfuric acid, nitrogenous epoxides, organic materials + sodium hydrogen carbonate (above 200°C), phenyl acetylene (at −78°C), sodium phosphinate + heat, sulfuric acid + organic materials, sulfur trioxide. Reacts to form explosive products with aniline + formaldehyde, ethylbenzene + thallium triacetate (at 65°C), fluorine (forms fluorine perchlorate), glycerol + lead oxide, hydrogen + heat, hydrogen halides, phosphine, pyridine, sulfoxides. Violent reaction or ignition with acetic acid, acetic acid + acetic anhydride, acetic anhydride, acetic anhydride + carbon tetrachloride + 2-methyl cyclohexanone, antimony compounds, azo pigments, bis-1,2-diaminopropane-cis-dichlorochromium(III) perchlorate, carbon, 1,3-bis(di-n-cyclopentadienyl iron)-2-propen-1-one, CH_3OH, CCl_4, copper dichromium tetraoxide (at 120°C), DNA, dibutyl sulfoxide, dimethyl sulfoxide, ethylbenzene, glycol ethers, glycols, HNO_3, HCl, H_2SO_4, hypophosphites, iron sulfate, iodides, ketones, PbO + glycerin, methanol + triglycerides, 2-methylpropene + metal oxides, 2-methyl cyclohexanone, NI_3, nitrogenous epoxides, nitrosophenol, o-periodic acid, oleic acid, organophosphorus compounds, paper, P_2O_5 + $CHCl_3$, P_2O_5, P_2Zn_3, sodium iodide + hydroiodic acid, sodium phosphinate, steel, sulfinyl chloride, SO_3, trichloroethylene, vegetable matter, wood, zinc phosphide. When heated to decomposition it emits toxic fumes of Cl^-. See also PERCHLORATES.

PCD500 CAS: 7790-98-9 HR: 3
PERCHLORIC ACID, AMMONIUM SALT
DOT: UN 0402/UN 1442
mf: $ClO_4 \bullet H_4N$ mw: 117.50
PROP: White crystals. Mp: decomp, d: 1.95. Very sol in H_2O, liquid NH_3.
SYN: AMMONIUM PERCHLORATE (DOT)

TOXICITY DATA with REFERENCE:
orl-rat LD50:4200 mg/kg GISAAA 28(8),8,63
par-rat LDLo:3500 mg/kg RPTOAN 32,159,69
par-mus LDLo:2 g/kg RPTOAN 32,159,69
orl-rbt LD50:1900 mg/kg GISAAA 28(8),8,63
orl-gpg LD50:3310 mg/kg GISAAA 28(8),8,63
par-rbt LDLo:750 mg/kg RPTOAN 32,159,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 5.1; Label: Oxidizer; DOT Class: EXPLOSIVE 1.1D; Label: EXPLOSIVE 1.1D
SAFETY PROFILE: Moderately toxic by ingestion and parenteral routes. Flammable when exposed to heat or flame or by spontaneous chemical reaction with reducing materials. A very powerful oxidizer that has caused explosions in industry. Ignites violently with combustibles. Severe explosion hazard; decomposes at 130° and explodes at 380°. When contaminated by powdered carbon, ferrocene, S, organic matter, powdered metals, nitryl perchlorate, potassium periodate, potassium permanganate, it becomes impact sensitive. Potentially explosive reactions with carbon (above 240°C), dichromium trioxide (at 270°C), cadmium oxide (at 260°C), zinc oxide (at 200°C), copper chromite, copper oxide, iron oxide, potassium permanganate, potassium dichromate, mono-, di-, tri-, or tetra-methylammonium perchlorates, metal perchlorates (e.g., lithium perchlorate, zinc perchlorate), nitrophenol-formaldehyde polymer. Mixtures with aluminum or copper burn violently when ignited. Mixtures with ethylene dinitrate ignite when stored at 60°C. When heated to decomposition it emits toxic fumes of NH_3 and Cl^-. See also PERCHLORATES and EXPLOSIVES, HIGH.

PCD750 CAS: 13465-95-7 HR: 3
PERCHLORIC ACID, BARIUM SALT•3H_2O
DOT: UN 1447
mf: $Cl_2O_8 \bullet Ba \bullet 3H_2O$ mw: 336.24
PROP: Colorless, hexagonal crystals. Undergoes polymorphic transitions at 2° and 3°. Decomp on heating forming $BaCl_2$ + O_2. Mp: 505°, d: 2.74. Very sol in H_2O; very sol in EtOH.
SYN: BARIUM PERCHLORATE (DOT)
CONSENSUS REPORTS: Barium and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.5 mg(Ba)/m^3
ACGIH TLV: TWA 0.5 mg(Ba)/m^3; Not Classifiable as a Human Carcinogen
DFG MAK: 0.5 mg(Ba)/m^3
DOT CLASSIFICATION: 5.1; Label: Oxidizer, Poison
SAFETY PROFILE: A poison. An unstable material. An oxidizer. When refluxed with an alcohol highly explosive alkyl perchlorates are formed. When heated to decomposition it emits toxic fumes of Cl^-. A desiccant. See also PERCHLORATES and BARIUM COMPOUNDS.

PCE000 CAS: 10034-81-8 HR: 2
PERCHLORIC ACID, MAGNESIUM SALT
DOT: UN 1475

mf: Cl_2O_8•Mg mw: 223.21
PROP: White, colorless, deliquescent solid or hygroscopic crystals. Decomp on heating with formation of MgO. Mp: decomp @ 251°, d: 2.60 @ 25°. Very sol in H_2O, EtOH.
SYNS: ANHYDRONE ◻ DEHYDRITE ◻ MAGNESIUM PERCHLORATE ◻ PERCHLORATE de MAGNESIUM (FRENCH)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:1500 mg/kg JAFCAU 14,512,66.
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 5.1; Label: Oxidizer
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Severe skin and eye irritant. A powerful oxidizer which has caused many explosions in industry. Potentially explosive reactions with alkenes (above 220°C), ammonia, aryl hydrazine + ether, dimethyl sulfoxide + heat, ethylene oxide, fluorobutane + water, organic materials, phosphorus, trimethyl phosphate. Reacts to form explosive products with ethanol (forms ethyl perchlorate), cellulose + dinitrogen tetraoxide + oxygen (forms cellulose nitrate). Avoid contact with mineral acids, butyl fluorides, hydrocarbons. A drying agent. When heated to decomposition it emits toxic fumes of MgO and Cl^-. See also MAGNESIUM COMPOUNDS and PERCHLORATES.

PCE250 CAS: 26388-85-2 HR: 3
PERCHLORIC ACID, NICKEL(II) SALT compounded with OCTAMETHYL PYROPHOSPHORAMIDE
mf: $C_{24}H_{72}N_{12}NiO_9P_6$•$2ClO_4$ mw: 1116.51
SYN:
TRIS(OCTAMETHYLPYROPHOSPHORAMIDE)NICKEL(2+), DIPERCHLORATE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:15 mg/kg JAFCAU 14,512,66
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List.
NIOSH REL: TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen. Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x, PO_x, and Cl^-. See also PERCHLORATES and NICKEL COMPOUNDS.

PCE750 CAS: 7601-89-0 HR: 3
PERCHLORIC ACID, SODIUM SALT
DOT: UN 1502
mf: ClO_4•Na mw: 122.44
PROP: White or colorless, orthorhombic, deliquescent crystals. Mp: 482° (decomp). Mod sol in H_2O, EtOH.
SYNS:
◻ NATRIUMPERCHLORAAT (DUTCH) ◻ NATRIUMPERCHLORAT (GERMAN) ◻ PERCHLORATE de SODIUM (FRENCH) ◻ SODIO (PERCLORATO DI) (ITALIAN) ◻ SODIUM PERCHLORATE ◻ SODIUM PERCHLORATE (DOT)
TOXICITY DATA with REFERENCE:
orl-rat LD50:2100 mg/kg GTPZAB 17(8),33,73
ipr-mus LD50:551 mg/kg COREAF 257,791,63
par-rat LDLo:900 mg/kg RPTOAN 32,159,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 5.1; Label: Oxidizer
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A powerful oxidizer. Forms explosive mixture with acetone, 1,3-butylene glycol, 2,3-butylene glycol, CaH_2, charcoal, diaminoethane, dimethyl formamide, ethanolamine, ethylene glycol, formamide, galactose, glycerin, hydrazine, water, NH_4NO_3, Mg, reducing agents, SrH_2, urea. When heated to decomposition it emits toxic fumes of Cl^- and Na_2O. See also PERCHLORATES.

PCF250 CAS: 3200-96-2 HR: 2
PERCHLORO-2-CYCLOBUTENE-1-ONE
mf: C_4Cl_4O mw: 205.84
PROP: Bp: 146°.
SYN: 2,3,4,5-TETRACHLORO-2-CYCLOBUTEN-1-ONE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of Cl^-.

PCF275 CAS: 127-18-4 HR: 3
PERCHLOROETHYLENE
DOT: UN 1897
mf: C_2Cl_4 mw: 165.82
PROP: Colorless liquid; chloroform-like odor. Mp: −23.35°, fp: −22.35°, bp: 121.20°, d: 1.6311 @ 15°/4°, vap press: 15.8 mm @ 22°, vap d: 5.83. IDLH 150 ppm.
SYNS: ANKILOSTIN ◻ ANTISOL 1 ◻ CARBON BICHLORIDE ◻ CARBON DICHLORIDE ◻ CZTEROCHLOROETYLEN (POLISH) ◻ DIDAKENE ◻ DOW-PER ◻ ENT 1,860 ◻ ETHYLENE TETRACHLORIDE ◻ FEDAL-UN ◻ NCI-C04580 ◻ NEMA ◻ PERAWIN ◻ PERCHLOORETHYLEEN, PER (DUTCH) ◻ PERCHLOR ◻ PERCHLORAETHYLEN, PER (GERMAN) ◻ PERCHLORETHYLENE ◻ PERCHLORETHYLENE, PER (FRENCH) ◻ PERCLENE ◻ PERCLOROETILENE (ITALIAN) ◻ PERCOSOLVE ◻ PERK ◻ PERKLONE ◻ PERSEC ◻ RCRA WASTE NUMBER U210 ◻ TETLEN ◻ TETRACAP ◻ TETRA-CHLOORETHEEN (DUTCH) ◻ TETRACHLORAETHEN (GERMAN) ◻ TETRACHLOROETHENE ◻ TETRACHLOROETHYL-ENE (DOT, ACGIH) ◻ 1,1,2,2-TETRACHLOROETHYLENE ◻ TETRACLOROETENE (ITALIAN) ◻ TETRALENO ◻ TETRALEX ◻ TETRAVEC ◻ TETROGUER ◻ TETROPIL
TOXICITY DATA with REFERENCE:
skn-rbt 810 mg/24H SEV JETOAS 9,171,76
skn-rbt 500 mg/24H MLD 85JCAE -,108,86
eye-rbt 162 mg MLD JETOAS 9,171,76
eye-rbt 500 mg/24H MLD 85JCAE -,108,86
dns-hmn:lng 100 mg/L NTIS** PB82-185075
otr-rat:emb 97 µmol/L ITCSAF 14,290,78
ihl-hmn TCLo:96 ppm/7H:PNS,EYE,CNS NTIS** PB257-185
orl-cld TDLo:545 mg/kg:CNS JTCTDW 23,103,85
ihl-man TCLo:600 ppm/10M:EYE,CNS AMIHBC 5,566,52
ihl-man LDLo:2857 mg/kg:CNS,PUL MLDCAS 5,152,72
orl-rat LD50:2629 mg/kg AIHAAP 20,364,59
ihl-rat LC50:34,200 mg/m^3/8H AIHAAP 20,364,59
ipr-rat LD50:4678 mg/kg ENVRAL 40,411,86
orl-mus LD50:8100 mg/kg NTIS** PB257-185
ihl-mus LC50:5200 ppm/4H APTOA6 9,303,53

scu-mus LD50:65 g/kg JPETAB 123,224,58
orl-dog LDLo:4000 mg/kg AJHYA2 9,430,29
ipr-dog LD50:2100 mg/kg TXAPA9 10,119,67
ivn-dog LDLo:85 mg/kg QJPPAL 7,205,34
orl-cat LDLo:4000 mg/kg AJHYA2 9,430,29

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,355,87; Animal Limited Evidence IMEMDT 20,491,79. NCI Carcinogenesis Bioassay (gavage); Clear Evidence: mouse NCITR* NCI-CG-TR-13,77 (inhalation); Clear Evidence: mouse, rat NTPTR* NTP-TR-311,86 (gavage); Inadequate Studies: rat NCITR* NCI-CG-TR-13,77. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. Community Right-To-Know List.

OSHA PEL: TWA 25 ppm

ACGIH TLV: TWA 25 ppm; Animal Carcinogen; BEI: 3.5 mg/L trichloroacetic acid in urine at end of shift at end of workweek

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans; BAT: blood 100 µg/dL

NIOSH REL: (Tetrachloroethylene) Minimize workplace exposure

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, and neoplastigenic data. Experimental poison by intravenous route. Moderately toxic to humans by inhalation, with the following effects: local anesthetic, conjunctiva irritation, general anesthesia, hallucinations, distorted perceptions, coma, and pulmonary changes. Moderately experimentally toxic by ingestion, inhalation, intraperitoneal, and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. An eye and severe skin irritant. The liquid can cause injuries to the eyes; however, with proper precautions it can be handled safely. The symptoms of acute intoxication from this material are the result of its effects upon the nervous system. Can cause dermatitis, particularly after repeated or prolonged contact with the skin. Irritates the gastrointestinal tract upon ingestion. It may be handled in the presence or absence of air, water, and light with any of the common construction materials at temperatures up to 140°. This material is extremely stable and resists hydrolysis. A common air contaminant. Reacts violently under the proper conditions with Ba, Be, Li, N_2O_4, metals, NaOH. When heated to decomposition it emits highly toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Hydrocarbons, Halogenated, 1003.

PCF300 CAS: 594-42-3 HR: 3
PERCHLOROMETHYL MERCAPTAN

DOT: UN 1670

mf: CCl_4S mw: 185.87

PROP: Yellow, oily liquid. Bp: slt decomp @ 149°, d: 1.700 @ 20°, vap d: 6.414. IDLH 10 ppm.

SYNS: CLAIRSIT ◻ MERCAPTAN METHYLIQUE PERCHLORE (FRENCH) ◻ PCM ◻ PERCHLORMETHYLMERKAPTAN (CZECH) ◻ RCRA WASTE NUMBER P118 ◻ TRICHLORO-METHANE SULFENYL CHLORIDE ◻ TRICHLOROMETHYLSULFENYL CHLORIDE ◻ TRICHLOROMETHYLSULPHENYL CHLORIDE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV 28ZPAK -,13,72
eye-rbt 50 µg/24H SEV 28ZPAK -,13,72
orl-rat LD50:82600 µg/kg 28ZPAK -,13,72
ihl-rat LCLo:260 mg/m^3/4H 85GMAT -,97,82
ihl-mus LC50:296 mg/m^3/2H 85GMAT -,97,82
ivn-mus LD50:56 mg/kg CSLNX* NX#06768
skn-rbt LD50:1410 mg/kg TXAPA9 42,417,77

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 ppm

ACGIH TLV: TWA 0.1 ppm

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion, inhalation, and intravenous routes. A severe skin, eye, and mucous membrane irritant. When heated to decomposition it emits very toxic fumes of Cl^- and SO_x. See also MERCAPTANS.

PCF500 CAS: 5390-07-8 HR: 2
PERCHLORYLBENZENE

mf: $C_6H_5ClO_3$ mw: 160.56

PROP: A liquid. Fp: −3°, bp: 232°.

SAFETY PROFILE: A powerful oxidant. Probably very toxic. Mixtures with aluminum trichloride may explode spontaneously. When heated to decomposition it emits toxic fumes of Cl^-.

PCF750 CAS: 7616-94-6 HR: 2
PERCHLORYL FLUORIDE

DOT: UN 3083

mf: $ClFO_3$ mw: 102.45

PROP: Colorless, noncorrosive gas stable to 5°; stable to water; characteristic sweet odor. Mp: −146°, bp: −46.8°, d: (liquid) 1.434. d: (gas) 0.637. IDLH 100 ppm.

SYNS: CHLORINE FLUORIDE OXIDE ◻ CHLORINE OXYFLUORIDE

TOXICITY DATA with REFERENCE:
ihl-rat LCLo:2000 ppm/40M TXAPA9 27,527,74
ihl-mus LC50:630 ppm/4H PENNS*
ihl-dog LCLo:451 ppm/4H XAWPA2 CWL 2-10,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 3 ppm; STEL 6 ppm

ACGIH TLV: TWA 3 ppm; STEL 6 ppm

DOT CLASSIFICATION: 2.3; Label: Poison Gas, Oxidizer

SAFETY PROFILE: A poison gas which forms methemoglobin in the body and destroys red cells causing anemia, anorexia, and cyanosis. Recovery is said to be rapid, leaving no permanent physiological damage. Can be absorbed through the skin. Its odor can be detected as low as 10 ppm although this cannot be relied upon as an indication of toxic concentration in air. While non-flammable, it supports combustion. It is a powerful oxidizer. Moderately explosive. Potentially explosive reactions with combustible gases or vapors. benzene + aluminum trichloride, benzocyclobutene + butyllithium + potassium tert-butoxide, calcium acetylide, potassium

cyanide, potassium thiocyanate, sodium iodide, charcoal, ethyl-4-fluorobenzoylacetate, hydrocarbons, hydrogen sulfide, nitrogen oxide, sulfur dichloride, vinylidene chloride, 3α-hydroxy-5β-androstane-11,17-dione-17-hydrazone, lithiated compounds, 2-lithio(dimethylamino-methyl)ferroxene, methyl-2-bromo-5,5-ethylene dioxy(2,2,1)bicycloheptane-7-carboxylate, aliphatic heterocyclic amines, sodium methoxide + methanol, vinylidene chloride. Reacts to form explosive products with nitrogenous bases (e.g., isopropylamine, isobutylamine, aniline, phenyl hydrazine, 1,2-diphenyl hydrazine), sawdust, lampblack. Violent reaction with finely divided organic materials. A fluorinating agent in chemical synthesis, and an oxidant in rocket fuel. When heated to decomposition it emits toxic fumes of F^- and Cl^-. See also FLUORINE and PERCHLORATES.

PCF775 CAS: 10294-48-1 HR: 3
PERCHLORYL PERCHLORATE
mf: Cl_2O_7 mw: 182.90
SAFETY PROFILE: An explosive sensitive to impact or rapid heating. Explodes on contact with iodine. Mixtures with bromine pentafluoride are shock-sensitive explosives. When heated to decomposition it emits toxic fumes of Cl^-. See also PERCHLORATES.

PCG000 CAS: 768-34-3 HR: 3
1-PERCHLORYLPIPERIDINE
mf: $C_5H_{10}ClNO_3$ mw: 167.60

$O_3ClN(CH_2)_4CH_2$

SAFETY PROFILE: May explode in storage or if heated. Explodes on contact with piperidine. Powerful oxidizer. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-.

PCG250 HR: 3
PERCHROMATES
CONSENSUS REPORTS: Chromium and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poisons. Violent reactions with aniline, olefins, pyridine, quinoline. Powerful oxidants. See also CHROMIUM COMPOUNDS.

PCG500 CAS: 76-42-6 HR: 3
PERCODAN
mf: $C_{18}H_{21}NO_4$ mw: 315.40
PROP: Long rods from EtOH. Mp: 218–220°. Sol in EtOH, $CHCl_3$, insol in H_2O, and Et_2O.
SYNS: DIHYDROHYDROXYCODEINONE ◻ DIHYDRO-14-HYDROXYCODEINONE ◻ 14-HYDROXYDIHYDROCODEIN-ONE ◻ OXYCODEINONE ◻ PERCOBARB
TOXICITY DATA with REFERENCE:
ipr-mus LD50:320 mg/kg TXAPA9 3,261,61
scu-mus LD50:426 mg/kg 28ZNAE 138,27,38
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x.

PCG550 CAS: 54527-84-3 HR: 3
PERDIPINE
mf: $C_{26}H_{29}N_3O_6$•ClH mw: 516.04
PROP: A solid. Mp: 168–170°.
SYNS: 1,4-DIHYDRO-2,6-DIMETHYL-4-(m-NITROPHENYL)-3,5-PYRIDINEDICARBOXYLIC ACID 2-(BENZYLMETHYL AMINO)ETHYL METHYL ESTER, MONOHYDROCHLORIDE ◻ NICARDIPINE HYDROCHLORIDE ◻ NICODEL ◻ RS-79216 ◻ YC 93
TOXICITY DATA with REFERENCE:
orl-rat TDLo:1350 mg/kg (female 17-22D post):REP KSRNAM 13,1160,79
orl-rbt TDLo:1650 mg/kg (female 7-17D post):TER KSRNAM 13,1160,79
orl-man TDLo:26 mg/kg/30D-I:KID JAMAAP 258,3388,87
orl-wmn TDLo:1800 μg/kg/36H-I:KID JAMAAP 258,3388,87
orl-rat LD50:187 mg/kg ARZNAD 26,2172,76
ipr-rat LD50:155 mg/kg NIIRDN 6,543,82
scu-rat LD50:683 mg/kg NIIRDN 6,543,82
ivn-rat LD50:15,500 μg/kg ARZNAD 26,2172,76
orl-mus LD50:322 mg/kg CYLPDN 4,97,83
ipr-mus LD50:123 mg/kg CYLPDN 4,97,83
scu-mus LD50:540 mg/kg NIIRDN 6,543,82
ivn-mus LD50:19,900 μg/kg OYYAA2 18,301,79
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by subcutaneous route. Human systemic effects: decreased urine volume or anuria. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

PCG600 CAS: 376-53-4 HR: 3
PERFLUOROADIPONITRILE
mf: $C_6F_8N_2$ mw: 252.08
SYNS: OCTAFLUOROADIPONITRILE ◻ PERFLUOROADIPIC ACID DINITRILE ◻ PERFLUOROADIPINIC ACID DINITRILE
TOXICITY DATA with REFERENCE:
orl-rat LD50:2917 mg/kg 85GMAT -,97,82
ihl-rat LC50:62 mg/m^3/4H 85GMAT -,97,82
orl-mus LD50:1955 mg/kg 85GMAT -,97,82
ihl-mus LC50:140 mg/m^3/4H 85GMAT -,97,82
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of F^-, CN^-, and NO_x. See also ADIPONITRILE and NITRILES.

PCG625 CAS: 375-73-5 HR: 3
1-PERFLUOROBUTANESULFONIC ACID
mf: $C_4HF_9O_3S$ mw: 300.11
SYNS: 1-BUTANESULFONIC ACID, NONAFLUORO-(6CI,7CI,8CI) ◻ 1-BUTANESULFONIC ACID, 1,1,2,2,3,3,4,4,4-NONAFLUORO- ◻ NONAFLUOROBUTANESULFONIC ACID ◻ NONAFLUORO-1-BUTANESULFONIC ACID ◻ PENTYL PERFLUOROBUTANOATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:430 mg/kg ATDAEI 15(Suppl 1),S105,1996
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of SO_x and Cl^-.

PCG635 CAS: 115659-47-7 HR: 2
PERFLUORO(2-BUTOXYPROPYL VINYL ETHER)
mf: $C_9H_{18}O_2$ mw: 158.27
SYNS: BUTANE, 1-(DIFLUORO((TRIFLUOROETHENYL)OXY)METHYL)-1,3,3,3-TETRAFLUOROETHOXY-1,1,2, 2,3,3,4,4,4-NONAFLUORO- □ T-3689
TOXICITY DATA with REFERENCE:
eye-rbt 100 µL/24H SEV NTIS** OTS0537638
orl-rat LD50:570 mg/kg NTIS** OTS0537638
SAFETY PROFILE: Moderately toxic by ingestion. A severe eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

PCG650 CAS: 66793-67-7 HR: 3
PERFLUORO-tert-BUTYL PEROXYHYPO-FLUORITE
mf: $C_4F_{10}O_2$ mw: 270.03
$(F_3C)_3COOF$
SAFETY PROFILE: The liquid explodes at 22°C. The gas phase is stable. When heated to decomposition it emits toxic fumes of F^-. See also PEROXIDES.

PCG700 CAS: 306-94-5 HR: 3
PERFLUORODECALIN
mf: $C_{10}F_{18}$ mw: 462.10
SYNS: NAPHTHALENE, DECAHYDROOCTADECAFLUORO- □ NAPHTHALENE, OCTADECAFLUORODECAHYDRO- □ OCTADECAFLUORODECAHYDRONAPHTHALENE □ PERFLUORODECAHYDRONAPHTHALENE □ PFD □ PP 5
TOXICITY DATA with REFERENCE:
ivn-mus LD50:50 mg/kg PGPKA8 27(10),8,82
unr-mus LD50:30,800 mg/kg BEXBAN 90,1513,80
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of F^-.

PCG725 CAS: 335-76-2 HR: 3
PERFLUORODECANOIC ACID
mf: $C_{10}HF_{19}O_2$ mw: 514.11
PROP: A liquid. Bp: 130° @ 30 mm.
SYNS: NDFDA □ NONADECAFLUORODECANOIC ACID □ NONADECAFLUORO-n-DECANOIC ACID □ PERFLUORO-N-DECANOIC ACID □ PFDA
TOXICITY DATA with REFERENCE:
dnd-rat-orl 84 mg/kg/2W-C CALEDQ 57,55,91
orl-rat LD50:57 mg/kg TXAPA9 85,169,86
ipr-rat LD50:40 mg/kg TOXID9 1,16,81
ipr-mus LD50:150 mg/kg TOXID9 1,16,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of F^-.

PCG755 CAS: 308-48-5 HR: 2
PERFLUORO-n-DIBUTYL ETHER
mf: $C_8F_{18}O$ mw: 454.08
SYNS: DIPERFLUOROBUTYL ETHER □ PERFLUORODI-BUTYLETHER
TOXICITY DATA with REFERENCE:
ihl-rat LC50:80 g/m^3/4H 85GMAT -,97,82
ihl-mus LC50:49,500 mg/m^3 TPKVAL 15,101,79
ipr-mus LDLo:512 mg/kg CBCCT* 3,361,51
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by inhalation. When heated to decomposition it emits toxic fumes of F^-. See also ETHERS and FLUORIDES.

PCG760 CAS: 358-21-4 HR: 1
PERFLUORO ETHER
mf: $C_4F_{10}O$ mw: 254.04
SYN: BIS(PENTAFLUOROETHYL)ETHER
TOXICITY DATA with REFERENCE:
orl-rat LD50:20 g/kg KBAMAJ 12(1),84,78
ihl-mus LC50:177 g/m^3/2H KBAMAJ 12(1),84,78
ivn-mus LD50:29 g/kg KBAMAJ 12(1),84,78
SAFETY PROFILE: Mildly toxic by ingestion, inhalation, and intravenous routes. When heated to decomposition it emits toxic fumes of F^-. See also ETHERS and FLUORIDES.

PCG775 CAS: 14362-70-0 HR: 3
PERFLUOROFORMAMIDINE
mf: CF_4N_2 mw: 116.02
PROP: Gas. D: 1.90 (under pressure) @ 25°, bp: −32°.
SAFETY PROFILE: Explodes when shocked or during phase changes. When heated to decomposition it emits toxic fumes of F^- and NO_x. See also FLUORIDES.

PCH000 CAS: 335-57-9 HR: 1
PERFLUORO-n-HEPTANE
mf: C_7F_{16} mw: 388.07
PROP: A liquid. D: 1.720 @ 25°/4°, mp: −51°, bp: 80−83°.
SYNS: HEXADECAFLUOROHEPTANE □ PERFLUORO-HEPTANE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:4 g/kg CBCCT* 4,108,52
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by intraperitoneal route. Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes such as F^-. See also FLUORIDES.

PCH050 CAS: 335-67-1 HR: 3
PERFLUOROHEPTANECARBOXYLIC ACID
mf: $C_8HF_{15}O_2$ mw: 414.09
PROP: White or off white powder. Mp: 55−56°, bp: 189° @ 736 mm Hg.
SYNS: OCTANOIC ACID, PENTADECAFLUORO- □ PENTA-DECAFLUOROOCTANOIC ACID □ PENTADECAFLUORO-n-OCTANOIC ACID □ PERFLUOROCAPRYLIC ACID □ PERFLUOROCTANOIC ACID □ PERFLUOROOCTANOIC ACID □ PFOA
TOXICITY DATA with REFERENCE:

dnd-esc 50 μmol MUREAV 89,95,81
dnd-rat-ipr 100 mg/kg CALEDQ 57,55,91
dnd-rat-orl 168 mg/kg/2W-C CALEDQ 57,55,91
ipr-rat LD50:189 mg/kg TXAPA9 70,362,83
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic vapors of F^-.

PCH100 CAS: 355-43-1 HR: 3
PERFLUOROHEXYL IODIDE
mf: $C_6F_{13}I$ mw: 445.95
$F_3C(CF_2)_4CF_2I$
PROP: Bp: 117°.
SAFETY PROFILE: Explodes in contact with sodium when heated to the boiling point of the iodide. When heated to decomposition it emits toxic fumes of F^- and I^-. See also IODIDES and FLUORIDES.

PCH275 CAS: 356-69-4 HR: 2
PERFLUOROMETHOXYPROPIONIC ACID METHYL ESTER
mf: $C_5H_3F_7O_3$ mw: 244.08
TOXICITY DATA with REFERENCE:
orl-mus LD50:8000 mg/kg GTPZAB 18(3),48,74
ihl-mus LC50:22 g/m^3 GTPZAB 18(3),48,74
ipr-mus LDLo:1000 mg/kg GTPZAB 18(3),48,74
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion and inhalation. When heated to decomposition it emits toxic fumes of F^-. See also ESTERS.

PCH290 CAS: 355-02-2 HR: 1
PERFLUOROMETHYLCYCLOHEXANE
mf: C_7F_{14} mw: 350.07
PROP: Mp: −37°, bp: 76°.
SYN: 1-TRIFLUOROMETHYL-1,2,2,3,3,4,4,5,5,6,6-UNDECA-FLUORO CYCLOHEXANE
TOXICITY DATA with REFERENCE:
ihl-rat LCLo:825 ppm/14H 11FYAN 3,90,63
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by inhalation. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

PCH300 CAS: 354-93-8 HR: 3
PERFLUORO-tert-NITROSOBUTANE
mf: C_4F_9NO mw: 249.04
$(F_3C)_3CN{:}O$
SYN: TRIS(TRIFLUOROMETHYL)NITROSOMETHANE
SAFETY PROFILE: Potentially explosive reaction with nitrogen oxides. When heated to decomposition it emits toxic fumes of F^- and NO_x. See also NITROSO COMPOUNDS and FLUORIDES.

PCH315 CAS: 754-91-6 HR: 3
PERFLUOROOCTANESULFONIC ACID AMIDE
mf: $C_8H_2F_{17}NO_2S$ mw: 499.17
SYNS: AI 3-29759 □ 1-OCTANESULFONAMIDE,1,1,2,2,3,3,4,4,-5,5,6,6,7,7,8,8,8-HEPTA-DECAFLUORO- □ PERFLUOROOCTANE-SULFONAMIDE □ PERFLUOROCTYLSULFONAMIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:>172 mg/kg ATDAEI 15(Suppl 1),S104,1996
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of SO_x, NO_x, and F^-.

PCH320 CAS: 52032-20-9 HR: 2
N-PERFLUOROOCTANESULFONYL-N-METH-YLCARBAMOYL((NONADECAETHOXY)-BUTOXY)-BUTYL ETHER
mf: $(C_2H_4O)_n$-$C_{14}H_{12}F_{17}NO_4S$
SYNS: FLUORTENSID FT 719 □ POLY(OXY-1,2-ETHANEDIYL), α-((((HEPTADECAFLUOROOCTYL)SULFONYL)METHYL-AMINO)CARBONYL)-OMEGA-BUTOXY-
TOXICITY DATA with REFERENCE:
orl-rat LD50:>2 g/kg IJTOFN 19,340,2000
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, F^-, and Cl^-.

PCH325 CAS: 507-63-1 HR: 1
PERFLUOROOCTYL IODIDE
mf: $C_8F_{17}I$ mw: 545.98
PROP: Bp: 160−161°, mp: 25°.
SYNS: HEPTADECAFLUORO-1-IODOOCTANE □ 1-IODOPER-FLUOROOCTANE □ OCTANE, HEPTADECAFLUORO-1-IODO- □ OCTANE, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-HEPTADECAFLUORO-8-IODO-(9CI) □ PERFLUORO-1-IODOOCTANE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:7500 mg/kg MIVRA6 8,320,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Slightly toxic by intravenous route. When heated to decomposition it emits toxic vapors of F^- and I^-.

PCH350 CAS: 356-69-4 HR: 2
PERFLUOROPROPIONIC ACID, METHYL ESTER
mf: $C_4H_3F_5O_2$ mw: 178.07
SYN: PENTAFLUORO-PROPIONIC ACID METHYL ESTER
TOXICITY DATA with REFERENCE:
orl-mus LD50:7000 mg/kg GTPZAB 18(3),48,74
ihl-mus LC50:23 g/m^3 GTPZAB 18(3),48,74
ipr-mus LDLo:1000 mg/kg GTPZAB 18(3),48,74
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion and inhalation. When heated to decomposition it emits toxic fumes of F^-. See also ESTERS.

PCH500 CAS: 434-64-0 HR: 1
PERFLUOROTOLUENE
mf: C_7F_8 mw: 236.07
PROP: A liquid. Bp: 103°.
SYN: OCTAFLUOROTOLUENE
TOXICITY DATA with REFERENCE:
ihl-mus LCLo:5000 ppm/10M ANASAB 19,167,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by inhalation. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

PCH800 CAS: 6724-53-4 HR: 3
PERHEXILINE MALEATE
mf: $C_{19}H_{35}N•C_4H_4O_4$ mw: 393.63
PROP: A solid. Mp: 188.5−191°.
SYNS: 2-(2,2-DICYCLOHEXYLETHYL)PIPERIDINE MALEATE □ PEXID
TOXICITY DATA with REFERENCE:
mma-ham:lng 10 µmol/L MUREAV 157,1,85
orl-man TDLo:857 mg/kg/40W:PNS,CNS, BMJOAE 1,1256,76
orl-man LDLo:4693 mg/kg/3Y:PNS,LIV NZMJAX 96,202,83
orl-rat LD50:2150 mg/kg OYYAA2 14,337,77
ipr-rat LD50:106 mg/kg OYYAA2 21,83,81
orl-mus LD50:2641 mg/kg OYYAA2 14,337,77
ipr-mus LD50:107 mg/kg OYYAA2 21,83,81
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Human systemic effects by ingestion: muscle weakness, paresthesia, and hepatitis. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PCI250 CAS: 969-33-5 HR: 3
PERIACTIN HYDROCHLORIDE
mf: $C_{21}H_{21}N•ClH$ mw: 323.89
PROP: Crystals from EtOH/Et_2O. Mp: 252.6−253.6° (decomp).
SYNS: CYPROHEPTADIENE HYDROCHLORIDE □ CYPROHEPTADINE □ CYPROHEPTADINE HYDROCHLORIDE □ 4-(5-DIBENZO(a,e)CYCLOHEPTATRIENYLIDENE)PIPERIDINE HYDROCHLORIDE □ 1-METHYL-4-(5-DIBENZO(a,e)CYCLOHEPTATRIENYLIDENE)PIPERIDINE HYDROCHLORIDE □ NURAN □ PERIACTINOL □ PERIACTIN SYRUP □ PERITOL □ VUFB 3511
TOXICITY DATA with REFERENCE:
cyt-hmn:lyms 2200 µmol/L/24H-C ZEKIA5 118,219,74
orl-wmn TDLo:7 mg/kg/4W-C:GIT,LIV BMJOAE 1,753,78
orl-rat LD50:295 mg/kg DRUGAY 6,340,82
ipr-rat LD50:52,400 µg/kg YAKUD5 22,375,80
orl-mus LD50:69 mg/kg AGACBH 4,264,74
ipr-mus LD50:55,300 µg/kg YAKUD5 22,375,80
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Human systemic effects by ingestion: jaundice, liver function tests impaired, gastrointestinal effects. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

PCI500 CAS: 129-03-3 HR: 3
PERIACTINOL
mf: $C_{21}H_{21}N$ mw: 287.43
PROP: Crystals from EtOH (aq). Mp: 113°.
SYNS: CYPROHEPTADINE □ 4-(5H-DIBENZO(a,d)CYCLOHEPTEN-5-YLIDENE)-1-METHYLPIPERIDINE □ 4-(5-DIBENZO(a,d)CYCLOHEPTEN-5-YLIDINE)-1-METHYL-PIPERIDINE □ DRONACTIN □ MK 141 □ PERIACTIN
TOXICITY DATA with REFERENCE:
orl-rat LD50:295 mg/kg 27ZQAG -,69,72
ipr-rat LD50:52 mg/kg 27ZQAG -,69,72
orl-mus LD50:106 mg/kg ARZNAD 25,1723,75
scu-mus LD50:107 mg/kg 27ZQAG -,69,72
orl-dog LDLo:50 mg/kg 27ZIAQ -,82,73
ivn-rbt LDLo:3500 µg/kg 27ZQAG -,69,72
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous and intravenous routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PCI550 CAS: 536-59-4 HR: 2
PERILLA ALCOHOL
mf: $C_{10}H_{16}O$ mw: 152.26
PROP: Bp: 119−121°/11 mm Hg, d: 0.960, flash p: >230°F.
SYNS: CYCLOHEX-1-ENE-1-METHANOL, 4-(1-METHYL-ETHENYL)- □ DIHYDROCUMINYL ALCOHOL □ 4-ISOPROPENYL-CYCLOHEX-1-ENE-1-METHANOL □ p-MENTHA-1,8-DIEN-7-OL □ PERILLOL □ PERILLYL ALCOHOL
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV FCTXAV 19,253,81
orl-rat LD50:2100 mg/kg FCTXAV 19,253,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. A severe skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

PCI600 HR: 1
PERILLA FRUTESCENS (Linn.) Britt., extract
PROP: Indian plant belonging to the family Labiatae IJEBA6 15,208,77
SYN: PERILLA OCIMOIDES Linn., extract
TOXICITY DATA with REFERENCE:
ipr-mus LD50:1 g/kg IJEBA6 15,208,77
SAFETY PROFILE: Slightly toxic by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

PCI750 CAS: 553-84-4 HR: 3
PERILLA KETONE
mf: $C_{10}H_{14}O_2$ mw: 166.24
PROP: Light-yellow liquid. Bp: 130° @ 30 mm. A potent lung toxin from the mint plant *Perilla frutescens* (SCIEAS 197,573,77).
SYNS: 1-(3-FURANYL)-4-METHYL-1-PENTANONE □ β-FURYL ISOAMYL KETONE □ 1-(3-FURYL)-4-METHYL-1-PENTANONE □ PURPLE MINT PLANT EXTRACT
TOXICITY DATA with REFERENCE:
ipr-rat LD50:10 mg/kg SCIEAS 197,573,77
ipr-mus LD50:2500 µg/kg SCIEAS 197,573,77
ivn-dog LD50:106 mg/kg JANSAG 60,248,85
ivn-rbt LD50:14 mg/kg JANSAG 60,248,85
ipr-ham LD50:13,700 µg/kg JANSAG 60,248,85
ivn-ctl LDLo:30 mg/kg TXAPA9 45,300,78
ivn-dom LDLo:10 mg/kg TXAPA9 45,300,78

DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. A potent pulmonary edemagenic agent (experimental). May also be hazardous to humans. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

PCJ000 CAS: 30950-27-7 HR: 2
1-PERILLALDEHYDE-α-ANTIOXIME
mf: $C_{10}H_{15}NO$ mw: 165.26
PROP: Very sweet crystals. Mp: 102°, bp: 147−148° @ 12 mm.
SYNS: 4-ISOPROPENYL-1-CYCLOHEXENE-1-CARBOXALDEHYDE, ANTI-OXIME □ PERILLARTINE □ PERILLA SUGAR
TOXICITY DATA with REFERENCE:
orl-rat LD50:2500 mg/kg AFDOAQ 15,82,51
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

PCJ100 CAS: 68132-21-8 HR: 2
PERILLA OIL
PROP: Oil derived from the seed of the plant Perilla Frutescens.
SYN: PERILLA FRUTESCENS OIL
TOXICITY DATA with REFERENCE:
orl-rat LDLo:5 g/kg FCTOD7 26,397,88
orl-mus LD50:2770 mg/kg FCTOD7 26,397,88
skn-rbt LDLo:5 g/kg FCTOD7 26,397,88
skn-gpg LDLo:5 g/kg FCTOD7 26,397,88
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

PCJ200 CAS: 4197-25-5 HR: 3
1H-PERIMIDINE,2,3-DIHYDRO-2,2-DIMETHYL-6-((4-(PHENYLAZO)-1-NAPHTHYL)AZO)-
mf: $C_{29}H_{24}N_6$ mw: 456.59
SYNS: ACETYLATED SUDAN BLACK B □ AIZEN SOT BLACK 6 □ C.I. SOLVENT BLACK 3 □ C.I. 26150 □ 2,3-DIHYDRO-2,2-DIMETHYL-6-((4-(PHENYLAZO)-1-NAPHTHYL)AZO)PERIMIDINE □ FAST BLACK HBN □ FAT BLACK HB □ FAT BLACK HB 01 □ HEXATYPE BLACK B □ LACQUER BLACK S □ LACQUER BLACK VB □ NEPTUNE BLACK X 60 □ NUBIAN BLACK BT □ OIL BLACK BT □ ORIENT OIL BLACK HBB □ SOLVENT BLACK 3 □ SOT-BLACK 6 □ SUDAN BLACK B □ SUDAN BLACK X 60 □ SUDAN DEEP BLACK BB □ SUDAN DEEP BLACK BN □ TYPOGEN BLACK
TOXICITY DATA with REFERENCE:
ivn-mus LD50:63 mg/kg CSLNX* NX#04918
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.

PCJ225 CAS: 548-39-0 HR: D
7-PERINAPHTHENONE
mf: $C_{13}H_8O$ mw: 180.21
SYNS: PERINAPHTHENONE □ PHENALEN-1-ONE □ PHENALENONE □ 1H-PHENALEN-1-ONE □ PHENALONE
TOXICITY DATA with REFERENCE:
msc-hmn-lym 5400 µg/L MUREAV 371,123,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

PCJ230 CAS: 107133-36-8 HR: 3
PERINDOPRIL tert-BUTYLAMINE
mf: $C_{19}H_{32}N_2O_5$•$C_4H_{11}N$ mw: 441.69
SYNS: 1H-INDOLE-2-CARBOXYLIC ACID, 1-(2-((1-(ETHOXYCARBONYL)BUTYL)AMINO)-1-OXOPROPYL)-OCTAHYDRO-,(2S-(1(R*(R*)),2α,3Aβ,7Aβ))-, COMPD. WITH 2-METHYL-2-PROPANAMINE (1:1) □ MCN-A 2833-109 □ PERINDOPRIL ERBUMINE □ S 9490-3
TOXICITY DATA with REFERENCE:
orl-rat LD :>2500 mg/kg YAKUD5 40,3147,1998
ivn-rat LD50:323 mg/kg YAKUD5 40,3147,1998
orl-mus LD :>2500 mg/kg YAKUD5 40,3147,1998
ivn-mus LD50:323 mg/kg YAKUD5 40,3147,1998
SAFETY PROFILE: A poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

PCJ250 CAS: 13444-71-8 HR: 3
O-PERIODIC ACID
mf: HIO_4 mw: 191.91
PROP: White crystals.Mp 122C, decomp @ 130C, loses $2H_2O$ at 100C. Sol in water, alcohol; sltly soluble in eth.
SAFETY PROFILE: Powerful oxidizer. Potentially explosive reaction with dimethyl sulfoxide. Reaction with tetraethylammonium hydroxide forms an explosive product. Incompatible with azo-pigments. Used as a sweetening agent in Japan. When heated to decomposition it emits toxic fumes of I^-. See also IODIDES.

PCJ325 CAS: 2139-25-5 HR: 3
PERISOXAL CITRATE
mf: $C_{16}H_{20}N_2O_2$•$1/2C_6H_8O_7$ mw: 368.41
PROP: Prisms from EtOH/Me_2CO. Mp: 143−145°.
SYNS: 3-(1-HYDROXY-2-PIPERIDINOETHYL)-5-PHENYLISOXAZOLE □ 3-(1-HYDROXY-2-PIPERIDINOETHYL)-5-PHENYLISOXAZOLE CITRATE (2:1) □ ISOXAL □ α-(5-PHENYL-3-ISOXAZOLYL)-1-PIPERIDINEETHANOL CITRATE (2:1) □ 31252-S
TOXICITY DATA with REFERENCE:
orl-rat LD50:1479 mg/kg IYKEDH 10,232,79
scu-rat LD50:878 mg/kg OYYAA2 6,1285,72
ivn-rat LD50:31,300 µg/kg IYKEDH 10,232,79
orl-mus LD50:565 mg/kg YACHDS 2,1028,74
scu-mus LD50:373 mg/kg IYKEDH 10,232,79
ivn-mus LD50:35,900 µg/kg IYKEDH 10,232,79
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

PCJ350 CAS: 19395-78-9 HR: 3
PERISTIL

mf: $C_{20}H_{21}N_3O_3$•ClH mw: 387.90
PROP: Crystals from EtOH/Et_2O. Mp: 210−214°.
SYNS: 2,3-DIHYDRO-1-(MORPHOLINOACETYL)-3-PHENYL-4(1H)-QUINAZOLINONE HYDROCHLORIDE ◻ MOQUIZONE HYDROCHLORIDE ◻ 1-MORPHOLINOACETYL-3-PHENYL-2,3-DIHYDRO-4(1H)-QUINAZOLINONE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:2135 mg/kg ARZNAD 22,1894,72
ipr-rat LD50:450 mg/kg ARZNAD 22,1894,72
ivn-rat LD50:146 mg/kg ARZNAD 22,1894,72
orl-mus LD50:1155 mg/kg ARZNAD 22,1894,72
ipr-mus LD50:559 mg/kg ARZNAD 22,1894,72
scu-mus LD50:774 mg/kg ARZNAD 22,1894,72
ivn-mus LD50:237 mg/kg ARZNAD 22,1894,72
ivn-dog LD50:200 mg/kg ARZNAD 22,1894,72
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

PCJ400 CAS: 93763-70-3 HR: 1
PERLITE
PROP: Average density of 0.13. Expands when finely ground and heated. Natural glass, amorphous mineral consisting of fused sodium potassium aluminum silicate, containing <1% quartz.
TOXICITY DATA with REFERENCE:
orl-mus LD50:12,960 mg/kg JTSCDR 10,83,85
OSHA PEL: TWA Total Dust: 15 mg/m^3; Respirable Fraction: 5 mg/m^3
ACGIH TLV: TWA (nuisance particulate) 10 mg/m^3 of total dust; Not Classifiable as a Human Carcinogen (when toxic impurities are not present, e.g., quartz <1%)
NIOSH REL: (Perlite, Respirable Fraction) TWA 5 mg/m^3
SAFETY PROFILE: Slightly toxic by ingestion. A nuisance dust.

PCJ500 HR: 3
PERMANGANATES
PROP: Compounds containing an MnO_4^- radical.
CONSENSUS REPORTS: Manganese and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poisons. Many are strong oxidizing agents, hence irritating. Flammable by chemical reaction with reducing agents. Moderately explosive when shocked or exposed to heat. Silver permanganate and other metallic permanganates may detonate when exposed to high temperatures or when they are involved in fires or severely shocked. Store in a cool, ventilated area, away from acute fire hazards and easily oxidized materials. They may be disposed of by dissolving in water since practically all permanganates are soluble in water. They can react vigorously on contact with reducing materials. Incompatible with acetic acid, acetic anhydride, H_2SO_4 + C_6H_6. See also MANGANESE COMPOUNDS.

PCJ750 CAS: 13446-10-1 HR: 3
PERMANGANIC ACID AMMONIUM SALT
mf: MnO_4•H_4N mw: 136.99
PROP: Crystalline solid or hygroscopic dark purple needles. Mp: explodes, d: 2.208 @ 10°. Sol in H_2O.
SYN: AMMONIUM PERMANGANATE
CONSENSUS REPORTS: Manganese and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 5 mg(Mn)/m^3
ACGIH TLV: TWA 5 mg(Mn)/m^3
SAFETY PROFILE: Probably an irritant. A powerful oxidizer. Moderately flammable by chemical reaction with reducing agents. Explosive when shocked or warmed to 60°. Can be exploded by percussion. When heated to decomposition it emits toxic fumes of NO_x and NH_3. Incompatible with reducing material, friction. When heated to decomposition it emits toxic fumes of NO_x and NH_3. See also PERMANGANATES and MANGANESE COMPOUNDS.

PCK000 CAS: 7787-36-2 HR: 2
PERMANGANIC ACID, BARIUM SALT
DOT: UN 1448
mf: Mn_2O_8•Ba mw: 375.22
PROP: Dark purple crystals. Sparingly sol in H_2O.
SYN: BARIUM PERMANGANATE
CONSENSUS REPORTS: Barium and its compounds and manganese and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.5 mg(Ba)/m^3; CL 5 mg(Mn)/m^3
ACGIH TLV: TWA 0.5 mg(Ba)/m^3; Not Classifiable as a Human Carcinogen
DFG MAK: 0.5 mg(Ba)/m^3
DOT CLASSIFICATION: 5.1; Label: Oxidizer, Poison
SAFETY PROFILE: Probably an irritant. A powerful oxidizer. When heated to decomposition it emits acrid smoke and irritating fumes. See also BARIUM COMPOUNDS.

PCK050 CAS: 61949-76-6 HR: 3
cis-PERMETHRIN
mf: $C_{21}H_{20}Cl_2O_3$ mw: 391.31
SYN: CYCLOPROPANECARBOXYLIC ACID, 3-(2,2-DICHLORO-ETHENYL)-2,2-DIMETHYL-, (3-PHENOXYPHENYL) METHYL ESTER, cis-
TOXICITY DATA with REFERENCE:
ivn-rat LDLo:20 mg/kg PCBPBS 24,231,85
ipr-mus LD50:108 mg/kg TXAPA9 66,153,82
ivn-mus LD50:17 mg/kg TXAPA9 66,153,82
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 53,329,91; Animal Inadequate Evidence IMEMDT 53,329,91; Human No Available Data IMEMDT 53,329,91.
SAFETY PROFILE: A poison by intravenous and intraperitoneal routes. Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl^-.

PCK055 CAS: 54774-46-8 HR: 2
(−)-cis-PERMETHRIN
mf: $C_{21}H_{20}Cl_2O_3$ mw: 391.31
SYNS: CYCLOPROPANECARBOXYLIC ACID, 3-(2,2-DICHLO-ROETHENYL)-2,2-DIMETHYL-, (3-PHENOXYPHENYL) METHYL ESTER, (1S-CIS)- ◻ 1S-cis-PERMETHRIN
TOXICITY DATA with REFERENCE:

orl-mus LD50:>5 g/kg BOCKAE 41,143,76
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 53,329,91; Animal Inadequate Evidence IMEMDT 53,329,91; Human No Available Data IMEMDT 53,329,91.
SAFETY PROFILE: Low toxicity by ingestion. Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl^-.

PCK060 CAS: 52341-33-0 HR: 3
(+−)-cis-PERMETHRIN
mf: $C_{21}H_{20}Cl_2O_3$ mw: 391.31
SYNS: (+−)-cis-FMC 33297 □ CYCLOPROPANECARBOXYLIC ACID, 3-(2,2-DICHLOROETHENYL)-2,2-DIMETHYL-, (3-PHENOXYPHENYL) METHYL ESTER, cis-(+−)- □ FMC 35171 □ NRDC 148 □ 1RS,cis-PERMETHRIN
TOXICITY DATA with REFERENCE:
orl-mus LD50:214 mg/kg BOCKAE 41,143,76
ipr-mus LD50:925 mg/kg JAFCAU 25,9,77
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 53,329,91; Animal Inadequate Evidence IMEMDT 53,329,91; Human No Available Data IMEMDT 53,329,91.
SAFETY PROFILE: A poison by ingestion. Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl^-.

PCK065 CAS: 54774-45-7 HR: 3
(+)-cis-PERMETHRIN
mf: $C_{21}H_{20}Cl_2O_3$ mw: 391.31
SYNS: CYCLOPROPANECARBOXYLIC ACID, 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYL-, (3-PHENOXYPHENYL) METHYL ESTER, (1R-cis)- □ NRDC 167 □ (1R)-cis-PERMETHRIN
TOXICITY DATA with REFERENCE:
orl-mus LD50:85 mg/kg EVHPAZ 14,15,76
scu-frg LD50:140 µg/kg PCBPBS 20,217,83
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 53,329,91; Animal Inadequate Evidence IMEMDT 53,329,91; Human No Available Data IMEMDT 53,329,91.
SAFETY PROFILE: A poison by ingestion and subcutaneous routes. Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl^-.

PCK070 CAS: 61949-77-7 HR: 3
trans-PERMETHRIN
mf: $C_{21}H_{20}Cl_2O_3$ mw: 391.31
SYNS: CYCLOPROPANECARBOXYLIC ACID, 3-(2,2-DICHLOROETHENYL)-2,2-DIMETHYL-, (3-PHENOXYPHENYL) METHYL ESTER, trans- □ trans-m-PHENOXYBENZYL 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANE-CARBOXYLATE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:>800 mg/kg TXAPA9 66,153,82
ivn-mus LD50:>135 mg/kg TXAPA9 66,153,82
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 53,329,91; Animal Inadequate Evidence IMEMDT 53,329,91; Human No Available Data IMEMDT 53,329,91.
SAFETY PROFILE: A poison by intravenous route. Moderately toxic by intraperitoneal route. Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl^-.

PCK075 CAS: 51877-74-8 HR: 3
(+)-trans-PERMETHRIN
mf: $C_{21}H_{20}Cl_2O_3$ mw: 391.31
SYNS:
□ BIOPERMETHRIN □ CYCLOPROPANECARBOXYLIC ACID, 3-(2,2-DICHLOROVINYL)-2,2-DIMETHYL-, (3-PHENOXYPHENYL) METHYL ESTER, (1R-trans)- □ NRDC 147 □ (1R)-trans-PERMETHRIN □ RU 22090
TOXICITY DATA with REFERENCE:
ivn-rat LD :>270 mg/kg ARTODN 45,325,80
orl-mus LD50:3100 mg/kg EVHPAZ 14,15,76
scu-frg LD50:7500 µg/kg PCBPBS 20,217,83
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 53,329,91; Animal Inadequate Evidence IMEMDT 53,329,91; Human No Available Data IMEMDT 53,329,91.
SAFETY PROFILE: A poison by intravenous route. Moderately toxic by ingestion. Questionable carcinogen.

PCK080 CAS: 52341-32-9 HR: 3
trans-(+−)-PERMETHRIN
mf: $C_{21}H_{20}Cl_2O_3$ mw: 391.31
SYNS: CYCLOPROPANECARBOXYLIC ACID, 3-(2,2-DICHLOROETHENYL)-2,2-DIMETHYL-, (3-PHENOXYPHENYL) METHYL ESTER, trans-(+−)- □ NRDC 146 □ 1RS-trans-PERMETHRIN
TOXICITY DATA with REFERENCE:
ivn-rat LD :>270 mg/kg ARTODN 45,325,80
orl-mus LD50:>5 g/kg BOCKAE 41,143,76
ipr-mus LD50:>1 g/kg JAFCAU 25,9,77
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 53,329,91; Animal Inadequate Evidence IMEMDT 53,329,91; Human No Available Data IMEMDT 53,329,91.
SAFETY PROFILE: A poison by intravenous route. Low toxicity by ingestion. Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl^-.

PCK085 CAS: 54774-47-9 HR: 2
1S-trans-PERMETHRIN
mf: $C_{21}H_{20}Cl_2O_3$ mw: 391.31
SYNS: CYCLOPROPANECARBOXYLIC ACID, 3-(2,2-DICHLOROETHENYL)-2,2-DIMETHYL-, (3-PHENOXYPHENYL) METHYL ESTER, (1S-trans)- □ (−)-trans-PERMETHRIN
TOXICITY DATA with REFERENCE:
orl-mus LD50:>5 g/kg BOCKAE 41,143,76
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 53,329,91; Animal Inadequate Evidence IMEMDT 53,329,91; Human No Available Data IMEMDT 53,329,91.
SAFETY PROFILE: Low toxicity by ingestion. Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl^-.

PCK500 CAS: 84-97-9 HR: 3
PERNAZINE
mf: $C_{20}H_{25}N_3S$ mw: 339.54
PROP: Oil or crystals. Mp: 53−56°, bp: 160−170° @ 0.001 mm. Sol in H_2O.

SYNS: N-METHYL-PIPERAZINYL-N'-PROPYL-PHENOTHIAZIN (GERMAN) □ 10-(3-(4-METHYL-1-PIPERAZINYL)-PROPYL)-10H-PHENOTHIAZINE (9CI) □ N-(3-(4-METHYL-1-PIPERAZINYL)PROPYL)PHENOTHIAZINE □ PERAZINE □ PSYTOMIN □ TAXILAN

TOXICITY DATA with REFERENCE:
unr-hmn TDLo:270 mg/kg/28D ARZNAD 32,911,82
orl-rat LD50:500 mg/kg AIPTAK 115,1,58
ipr-rat LD50:300 mg/kg ARZNAD 8,199,58
ivn-rat LD50:80 mg/kg ARZNAD 8,199,58
orl-mus LD50:640 mg/kg ARZNAD 8,199,58
ipr-mus LD50:185 mg/kg ARZNAD 8,199,58
scu-mus LD50:560 mg/kg ARZNAD 8,199,58
ivn-mus LD50:75 mg/kg ARZNAD 8,199,58
ivn-rbt LD50:25 mg/kg ARZNAD 8,199,58

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and subcutaneous routes. Human toxic effects by unspecified route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

PCK600 HR: 3
PERNETTYA (various species)

PROP: Small evergreen shrubs with thick leaves and white flowers. The fruit is white or some bright color, and stays on the plant all winter. They are native to Central and South America, New Zealand, and Tasmania. They are cultivated in the United States.

SAFETY PROFILE: The leaves and nectar contain poisonous grayanotoxins (andromedotoxins). Ingestion of leaves or honey made from the nectar causes immediate pain in the mouth and may be followed several hours later by vomiting, diarrhea, headache, muscle weakness, impaired vision, slowed heartbeat, severe low blood pressure, convulsions, coma, and death.

PCK639 CAS: 28416-66-2 HR: 3
PEROCAN CITRATE

mf: $C_{16}H_{24}N_2 \bullet C_6H_8O_7$ mw: 436.56

PROP: Crystals from Et_2O/EtOH. Mp: 63–64°.

SYNS: ISOAMINILE CITRATE □ α-(ISOPROPYL)-α-(β-DIMETHYLAMINOPROPYL)PHENYLACETONITRIL CITRATE □ PERACON

TOXICITY DATA with REFERENCE:
orl-rat LD50:250 mg/kg KSRNAM 5,2212,71
scu-rat LD50:220 mg/kg KSRNAM 5,2212,71
ivn-rat LD50:36 mg/kg JNDRAK 2,43,62
orl-mus LD50:274 mg/kg KSRNAM 5,2212,71
scu-mus LD50:157 mg/kg NIIRDN 6,71,82
ivn-mus LD50:52 mg/kg KSRNAM 5,2212,71
ivn-dog LD50:36 mg/kg JNDRAK 2,43,62
ivn-rbt LD50:36 mg/kg JNDRAK 2,43,62

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

PCK669 HR: 3
PEROCAN CYCLAMATE

mf: $C_{16}H_{25}N_2 \bullet C_6H_{13}NO_3S$ mw: 424.69

SYNS: ISOAMINILE CYCLAMATE □ α-(ISOPROPYL)-α-(β-DIMETHYLAMINOPROPYL)PHENYLACETONITRIL CYCLAMATE

TOXICITY DATA with REFERENCE:
orl-mus LD50:380 mg/kg KSRNAM 5,1787,71
scu-mus LD50:175 mg/kg KSRNAM 5,1787,71
ivn-mus LD50:86 mg/kg KSRNAM 5,1787,71

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

PCL000 HR: 3
PEROXIDES, INORGANIC

SAFETY PROFILE: Variable toxicity. They may cause injury on contact with skin or mucous membranes. Moderate to dangerous fire hazard by chemical reaction with reducing agents and contaminants; strong oxidizing agents; contact with moisture may produce much heat. Moderate explosion hazard; heat, shock, or catalysts can cause violent decomposition. Contact with reducing agents may give rise to explosively violent reactions. See also HYDROGEN PEROXIDE and SODIUM PEROXIDE.

PCL250 HR: 3
PEROXIDES, ORGANIC

PROP: Organic compounds containing the —OO— group.

SAFETY PROFILE: Often highly toxic and irritating to the skin, eyes, and mucous membranes. Dangerous fire hazard by chemical reaction with reducing agents or exposure to heat. They readily release oxygen and thus are powerful oxidizers. Severe explosion hazard when shocked, exposed to heat, or by spontaneous chemical reaction. Many peroxides are very unstable. Upon contact with reducing materials, such as organic matter or thiocyanates, an explosion can occur.

Many solvents form dangerous levels of peroxides during storage: e.g., dipropyl ether, divinylacetylene, vinylidene chloride, potassium amide, sodium amide. Other compounds form peroxides in storage but concentration is required to reach dangerous levels: e.g., diethyl ether, ethyl vinyl ether, tetrahydrofuran, p-dioxane, 1,1-diethoxyethane, ethylene glycol dimethyl ether, propyne, butadiene, dicyclopentadiene, cyclohexene, tetrahydronaphthalenes, deca-hydronaphthalenes. Some monomeric materials can form peroxides that catalyze hazardous polymerization reactions: e.g., acrylic acid, acrylonitrile, butadiene, 2-chlorobutadiene, chlorotrifluoroethylene, methyl methacrylate, styrene, tetrafluoroethylene, vinyl acetate, vinylacetylene, vinyl chloride, vinylidine chloride, vinylpyridine. Compounds that contain one or two ether functions are especially susceptible to peroxide formation.

Peroxyacids (RCO•OOH) are some of the most powerful oxidants of the organic peroxides. Some of the simple peroxyacids are peroxyformic acid, peroxyacetic acid, peroxypivalic acid, peroxytrifluoroacetic acid. Traces of transition metals (e.g., cobalt, iron, manganese, nickel, vanadium) can catalyze explosive decomposition of these acids.

Handle all peroxides or peroxide-containing materials with great care. See also specific compounds.

PCL300 CAS: 156768-16-0 HR: 3
PEROXISOMICIN A2
mf: $C_{30}H_{26}O_8$ mw: 514.56
SYNS: (2,9'-BIANTHRACENE-4',8(1'H,5H)-DIONE, 2',3',6,7-TETRAHYDRO-2',6-DIMETHYL-1,2',5',6,9,10'-HEXAHYDROXY- □ DIAST T-514 □ PEROXISOMICINE A2 □ T 514'
TOXICITY DATA with REFERENCE:
orl-mus LD50:61,500 µg/kg TOLED5 90,155,1997
ipr-mus LD50:31,600 µg/kg TOLED5 90,155,1997
SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating vapors.

PCL500 CAS: 79-21-0 HR: 3
PEROXYACETIC ACID
DOT: UN 3149
mf: $C_2H_4O_3$ mw: 76.06
PROP: Not over 40% peracetic acid and not over 6% hydrogen peroxide (FEREAC 41,15972,76). Colorless liquid; strong odor. Fp: 0.1°, bp: 105°, explodes @ 110°, flash p: 105°F (OC), d: 1.15 @ 20°. Sol in H_2O, EtOH, Et_2O.
SYNS: ACETIC PEROXIDE □ ACETYL HYDROPEROXIDE □ ACIDE PERACETIQUE (FRENCH) □ DESOXON 1 □ ESTOSTERIL □ ETHANEPEROXOIC ACID □ HYDROGEN PEROXIDE & PEROXYACETIC ACID MIXT., with acids, H_2O not >5% peroxyacetic acid (DOT) □ HYDROPEROXIDE, ACETYL □ KYSELINA PEROXYOCTOVA □ MONOPERACETIC ACID □ OSBON AC □ PERACETIC ACID □ PEROXOACETIC ACID □ PEROXYACETIC ACID, >43% and with >6% hydrogen peroxide (DOT) □ PROXITANE 4002
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV UCDS** 12/12/68
eye-rbt 1 mg SEV UCDS** 12/12/68
skn-mus TDLo:21 g/kg/26W-I:ETA JNCIAM 55,1359,75
orl-rat LD50:1540 mg/kg UCDS** 12/12/68
ihl-rat LC50:450 mg/m^3 GISAAA 48(6),28,83
orl-mus LD50:210 mg/kg GISAAA 48(6),28,83
skn-rbt LD50:1410 mg/kg UCDS** 12/12/68
orl-gpg LD50:10 mg/kg BSPII* 1/75-19B
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Community Right-To-Know List. Reported in EPA TSCA Inventory.
DFG MAK: Very strong skin effects; Confirmed Animal Carcinogen with Unknown Relevance to Humans
DOT CLASSIFICATION: 5.1; Label: Oxidizer, Corrosive (UN3149)
SAFETY PROFILE: Poison by ingestion. Moderately toxic by inhalation and skin contact. A corrosive eye, skin, and mucous membrane irritant. Questionable carcinogen with experimental tumorigenic data by skin contact. Flammable liquid. Severe explosion hazard when exposed to heat or by spontaneous chemical reaction. Explodes violently at 110°C. A powerful oxidizing agent. Explosive reaction with acetic anhydride, 5-p-chlorophenyl-2,2-dimethyl-3-hexanone. Violent reaction with ether solvents (e.g., tetrahydrofuran, diethyl ether), metal chloride solutions (e.g., calcium chloride, potassium chloride, sodium chloride), olefins, organic matter. Dangerous; keep away from combustible materials. When heated to decomposition it emits acrid smoke and irritating fumes. To fight fire, use water, foam, CO_2. Used as a polymerization initiator, curing agent, and cross-linking agent. See also PEROXIDES, ORGANIC.

PCL750 CAS: 2278-22-0 HR: 3
PEROXYACETYL NITRATE
mf: $C_2H_3NO_5$ mw: 121.06
SYNS: ACETYLNITROPEROXIDE □ NITRIC ACID, ANHYDRIDE with PEROXYACETIC ACID □ PAN
TOXICITY DATA with REFERENCE:
eye-hmn 5 ppm/5M IAPWAR 4,79,61
mmo-sat 2200 nmol/plate MUREAV 157,123,85
ihl-mus LC50:106 ppm/2H AEHLAU 15,739,67
ihl-rat LC50:95 ppm/4H TXCYAC 8,231,77
SAFETY PROFILE: Poison by inhalation. A human eye irritant. Mutation data reported. Extremely explosive. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES and PEROXIDES.

PCL775 CAS: 66955-43-9 HR: 3
PEROXYACETYL PERCHLORATE
mf: $C_2H_3ClO_6$ mw: 158.50
SAFETY PROFILE: An explosive sensitive to detonation or friction. When heated to decomposition it emits toxic fumes of Cl^-. See also PERCHLORATES and PEROXIDES.

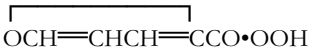
PCM000 CAS: 93-59-4 HR: 3
PEROXYBENZOIC ACID
mf: $C_7H_6O_3$ mw: 138.13
PROP: Leaflets or platelets from pet ether. Mp: 42°, bp: explodes @ 80−100°. Spar sol in water, pet ether.
SYNS: BENZENECARBOPEROXOIC ACID (9CI) □ BENZOYL-HYDROGEN PEROXIDE □ BENZOYL HYDROPEROXIDE □ PERBENZOIC ACID
SAFETY PROFILE: Moderately irritating to skin, eyes, and mucous membranes by ingestion and inhalation. Questionable carcinogen with experimental tumorigenic data by skin contact. A dangerous fire hazard when exposed to heat, flame, or reducing materials. A powerful oxidizing agent. Severe explosion hazard when exposed to heat or flame. Violent reaction with olefins. Can react vigorously with reducing materials. Avoid evaporation. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES, ORGANIC.

PCM250 CAS: 13709-32-5 HR: 3
PEROXYDISULFURYL DIFLUORIDE
mf: $F_2O_6S_2$ mw: 198.13
FSO_2OOSO_2F
PROP: Colorless liquid, readily hydrol to O_2 and FSO_3H. Mp: −55.4, bp: 67.1°.
SAFETY PROFILE: A powerful irritant and corrosive to skin, eyes, and mucous membranes. A very powerful oxidizer. A dangerous fire hazard. Ignites organic materials immediately on contact. Explosive reaction with carbon monoxide; dichloromethane. Violent reaction with boron nitride. When heated to decomposition it emits very toxic fumes of F^- and SO_x. See also PEROXIDES and FLUORIDES.

PCM500 CAS: 107-32-4 HR: 3

PEROXYFORMIC ACID
mf: CH_2O_3 mw: 62.03
PROP: A liquid. Misc in H_2O, EtOH, Et_2O; mod sol in $CHCl_3$, C_6H_6.
SYN: METHANEPEROXOIC ACID
SAFETY PROFILE: A powerful irritant and an oxidizer. A dangerous fire hazard when exposed to heat, flame, or reducing materials. Unstable and shock-sensitive. 80% solution is explosive. Extremely dangerous when moved. Violent reaction with carbon, red phosphorus, silicon, formaldehyde, benzaldehyde, aniline, alkenes. Self-reactive. Incompatible with metals, nonmetals, organic materials. When heated to decomposition it emits acrid smoke and irritating fumes.

PCM550 CAS: 5797-06-8 HR: 3
PEROXYFUROIC ACID
mf: $C_5H_4O_4$ mw: 128.08



SAFETY PROFILE: Explodes violently at 40°C. Explodes or decomposes violently on contact with finely divided metal salts; ergosterol; pyrogallol; or animal charcoal. When heated to decomposition it emits acrid smoke and irritating fumes.

PCM750 CAS: 5106-46-7 HR: 3
PEROXYHEXANOIC ACID
mf: $C_6H_{12}O_3$ mw: 132.16
SAFETY PROFILE: A powerful oxidizer. Explodes and ignites on rapid heating. When heated to decomposition it emits acrid smoke and irritating fumes.

PCN000 CAS: 19356-22-0 HR: 2
PEROXYLINOLENIC ACID
mf: $C_{18}H_{30}O_3$ mw: 294.48
SYNS: LINOLENATE HYDROPEROXIDE □ LINOLENIC HYDROPEROXIDE □ 9,12,15-OCTADECATRIENEPEROXOIC ACID (Z,Z,Z) (9CI)
TOXICITY DATA with REFERENCE:
mma-sat 100 µg/plate ABCHA6 44,1989,80
scu-rat TDLo:1 g/kg/45W:CAR FCTXAV 12,451,74
scu-rat TD:1765 mg/kg/95W:NEO FCTXAV 12,451,74
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

PCN500 HR: 3
PEROXYMONOPHOSPHORIC ACID
mf: H_3O_5P mw: 87.0
SYN: PEROXOMONOPHOSPHORIC ACID
SAFETY PROFILE: Very irritating and corrosive to tissues of skin, eyes, mucous membranes. Powerful oxidizer. A dangerous fire hazard when exposed to heat, flame, or reducing materials. Causes ignition on contact with organic materials. Hazardous reaction with potassium permanganate + coal. When heated to decomposition it emits toxic fumes of PO_x. See also PHOSPHATES.

PCN750 CAS: 7722-86-3 HR: 3
PEROXYMONOSULFURIC ACID
mf: H_2O_5S mw: 114.08
PROP: Colorless crystals, stable over a few days; hygroscopic. Decomp in H_2O to H_2SO_4 + H_2O_2. Sol in H_2O, EtOH, and Et_2O.
SYN: PEROXOMONOSULFURIC ACID
SAFETY PROFILE: Strong irritant. Powerful oxidizer. An explosive. Explosive reaction acetone; alcohols; aromatics (e.g., aniline; benzene; phenol); platinum; manganese dioxide; silver. Incompatible with acetone; catalysts; fibers. When heated to decomposition it emits toxic fumes of SO_x. See also PEROXIDES.

PCO000 CAS: 26604-66-0 HR: 3
PEROXYNITRIC ACID
mf: HNO_4 mw: 79.02
SAFETY PROFILE: A poison. Very irritating and corrosive to tissue. Decomposes explosively. A dangerous fire hazard when exposed to heat, flame, or reducing materials. Upon decomposition it emits toxic fumes of NO_x. See also PEROXIDES and NITRIC ACID.

PCO050 CAS: 19059-14-4 HR: 2
PEROXYNITRITE
mf: NO_3 mw: 62.00
SYN: PEROXYNITRITE
TOXICITY DATA with REFERENCE:
skn-mus TDLo:1.2 mg/kg:CAR BIPBU* 24,1282,2001
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data reported. When heated to decomposition it emits toxic vapors of NO_x.

PCO100 CAS: 4212-43-5 HR: 3
PEROXYPROPIONIC ACID
mf: $C_3H_6O_3$ mw: 90.08
PROP: A liquid. Fp: −13.5°.
SYN: PROPANE PEROXOIC ACID
SAFETY PROFILE: Burns very rapidly (deflagrates) when heated. Mixtures with organic solvents explode when heated. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES.

PCO150 CAS: 5796-89-4 HR: 3
PEROXYPROPIONYL NITRATE
mf: $C_3H_5NO_5$ mw: 135.08
$CH_3CH_2CO{\bullet}OONO_2$
SAFETY PROFILE: An extremely explosive gas. Handle only if highly diluted by air or nitrogen. When heated to decomposition it emits toxic fumes of NO_x. See also PEROXIDES and NITRATES.

PCO175 CAS: 66955-44-0 HR: 3
PEROXYPROPIONYL PERCHORATE
mf: $C_3H_5ClO_6$ mw: 172.52
$CH_3CH_2CO{\bullet}OOClO_3$
SAFETY PROFILE: An explosive sensitive to detonation or friction. When heated to decomposition it emits toxic fumes of Cl^-. See also PERCHLORATES and PEROXIDES.

PCO250 CAS: 359-48-8 HR: 3
PEROXYTRIFLUOROACETIC ACID
mf: $C_2HF_3O_3$ mw: 130.03
SAFETY PROFILE: A poison. A powerful oxidizer. Corrosive and irritating to skin, eyes, mucous membranes. Reaction with 4-iodo-3,5-dimethylisoxazole forms an explosive by-product. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES and PEROXIDES.

PCO500 CAS: 2015-28-3 HR: 3
PERPHENAZINE DIHYDROCHLORIDE
mf: $C_{21}H_{26}ClN_3OS$•2ClH mw: 476.93
PROP: Crystals. Mp: 225−226°.
SYN: 4-(3-(2-CHLOROPHENOTHIAZIN-10-YL)PROPYL)-1-PIPERAZINEETHANOL DIHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:318 mg/kg 27ZQAG -,36,72
ipr-rat LD50:124 mg/kg 27ZQAG -,36,72
ivn-rat LD50:34 mg/kg AIPTAK 118,358,59
orl-mus LD50:110 mg/kg AIPTAK 118,358,59
scu-mus LD50:960 mg/kg 27ZQAG -,36,72
ivn-mus LD50:19 mg/kg 27ZQAG -,36,72
ivn-dog LD50:51 mg/kg 27ZQAG -,36,72
ivn-cat LD50:35 mg/kg 27ZQAG -,36,72
ivn-pgn LD50:32 mg/kg 27ZQAG -,36,72
ims-pgn LD50:250 mg/kg 27ZQAG -,36,72
SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, and intramuscular routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of Cl^-, NO_x, SO_x, and HCl.

PCO750 CAS: 3111-71-5 HR: 3
PERPHENAZINE HYDROCHLORIDE
mf: $C_{21}H_{26}ClN_3OS$•ClH mw: 440.47
TOXICITY DATA with REFERENCE:
ivn-mus LD50:46 mg/kg CCCCAK 38,2137,73
SAFETY PROFILE: Poison by intravenous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of Cl^-, NO_x, SO_x and HCl.

PCO850 CAS: 5352-90-9 HR: 3
PERPHENAZINE MALEATE
mf: $C_{21}H_{26}ClN_3OS$•$C_4H_4O_4$ mw: 520.09
SYN: 4-(3-(2-CHLOROPHENOTHIAZIN-10-YL)PROPYL)-1-PIPERAZINEETHANOL MALEATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:317 mg/kg NIIRDN 6,768,82
ipr-rat LD50:133 mg/kg NIIRDN 6,768,82
orl-mus LD50:392 mg/kg NIIRDN 6,768,82
ipr-mus LD50:206 mg/kg NIIRDN 6,768,82
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of Cl^-, NO_x, and SO_x.

PCP250 CAS: 58-32-2 HR: 3
PERSANTIN
mf: $C_{24}H_{40}N_8O_4$ mw: 504.72
PROP: Yellow needles from EtOAc. Mp: 163°. Sol in dil acids.
SYNS: ANGINAL ◻ 2,6-BIS(BIS(2-HYDROXYETHYL)AMINO)-4,8-DIPIPERIDINOPYRIMIDO(5,4-d)PYRIMIDINE ◻ 2,6-BIS(DIETHANOLAMINO)-4,8-DIPIPERIDINOPYRIMIDO(5,4-d)PYRIMIDINE ◻ CARDOXIN ◻ CLERIDIUM 150 ◻ CORONARINE ◻ CURANTYL ◻ 2,2',2",2'''-(4,8-DIPIPERIDINOPYRIMIDO-(5,4-d)PYRIMIDINE-2,6-DIYLDINITRILO)TETRAETHANOL ◻ DIPYRIDAMINE ◻ DIPYRIDAMOL ◻ DIPYRIDAMOLE ◻ DIPYRIDAN ◻ DIPYUDAMINE ◻ GULLIOSTIN ◻ NATYL ◻ PERIDAMOL ◻ PERSANTINE ◻ PIROAN ◻ PRANDIOL ◻ RA 8 ◻ USAF GE-12
TOXICITY DATA with REFERENCE:
dni-rat:lvr 200 nmol/L CNREA8 43,1616,83
oms-rat:lvr 300 nmol/L CNREA8 43,1616,83
oms-mus:ast 60 µmol/L BCPCA6 22,2511,73
orl-man LDLo:1429 µg/kg:CVS JAMAAP 257,1515,87
orl-man TDLo:1071 µg/kg:CVS JAMAAP 257,1515,87
orl-rat LD50:8400 mg/kg MEIEDD 10,489,83
scu-rat LD50:1650 mg/kg ARZNAD 22,892,72
ivn-rat LD50:195 mg/kg ARZNAD 22,892,72
orl-mus LD50:2150 mg/kg ARZNAD 11,848,61
ipr-mus LD50:150 mg/kg NTIS** AD691-490
scu-mus LD50:2700 mg/kg NIIRDN 6,330,82
ivn-mus LD50:150 mg/kg ARZNAD 11,848,61
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. Human systemic effects cardiomyopathy including infarction. Mutation data reported. Used as a coronary vasodilator. When heated to decomposition it emits toxic fumes of NO_x.

PCP500 HR: 2
PERSIMMON
PROP: Tannin containing fraction of unripe fruit of *Diospyros virginiana* (JNCIAM 57,207,76).
SYNS: DIOSPYROS VIRGINIANA ◻ TANNIN from PERSIMMON
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also TANNIN.

PCP750 CAS: 8007-00-9 HR: 1
PERU BALSAM
PROP: Peru Balsam is the exudation from the trunk of the tree *Myroxylon pereirae* (FCTXAV 12,807,74).
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 12,807,74
orl-rat LD50:>5 g/kg FCTXAV 12,951,74
skn-rbt LD50:>10 g/kg FCTXAV 12,951,74
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.

PCQ000 CAS: 8007-00-9 HR: 2
PERU BALSAM OIL
PROP: Constituents are benzyl benzoate and benzyl cinnamate, found in balsam of *Myroxylon pereirae* (FCTXAV 12,807,74).

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 12,807,74
orl-rat LD50:2360 mg/kg FCTXAV 12,807,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

PCQ250 CAS: 198-55-0 HR: 2
PERYLENE
mf: $C_{20}H_{12}$ mw: 252.32
PROP: Bronze plates from AcOH or toluene. Mp: 273−274°.
SYNS: DIBENZ(de,kl)ANTHRACENE □ PERI-DINAPHTHALENE □ PERILENE
TOXICITY DATA with REFERENCE:
mmo-sat 25 nmol/plate TXCYAC 18,219,80
mma-sat 2 µg/plate CRNGDP 5,925,84
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 32,411,83. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

PCQ750 CAS: 60102-37-6 HR: 2
PETASITENINE
mf: $C_{19}H_{27}NO_7$ mw: 381.47
PROP: Crystals from C_6H_6/hexane or Me_2CO. Mp: 129−130°. Pyrrolizidine alkaloid isolated from *Petasites japonicus Maxim* (JNCIAM 58,1155,77).
SYNS: FUKINOTOXIN □ FUKINOTOXIN (neutral) □ PETASITENINE (neutral)
TOXICITY DATA with REFERENCE:
mma-sat 1 mg/plate MUREAV 68,211,79
dns-rat:lvr 2 µmol/L CNREA8 45,3125,85
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 31,207,83.
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. Used as a food and herbal remedy. When heated to decomposition it emits toxic fumes of NO_x.

PCR000 CAS: 91845-41-9 HR: 3
PETASITES JAPONICUS MAXIM
PROP: Dried flower stalk of *Petasites Japonicus Maxim* (GANNA2 64,527,73).
SYNS: COLTS FOOT □ FUKI-NO-TOH (JAPANESE)
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

PCR100 HR: D
PETITGRAIN OIL, PARAGUAY TYPE
PROP: From steam distillation of the leaves of *Citrus aurantium* L. subspecies *amara*. Yellow to brown liquid; harsh bitter odor. D: 0.878−0.889, refr index: 1.455 @ 20°. Sol in fixed oils, mineral oil, propylene glycol; insol in glycerin.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

PCR150 CAS: 1607-17-6 HR: 3
PETRIN
TOXICITY DATA with REFERENCE:
ipr-mus LD50:200 mg/kg 85ERAY 3,1636,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

PCR200 HR: D
PETROLATUM
PROP: White to amber solid. D: 0.815−0.880, mp: 38−60°. Insol in water, alc; sol ether, solvent hexane, oil, benzene, carbon disulfide, chloroform, turpentine.
SYNS: WHITE PETROLATUM □ YELLOW PETROLATUM
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

PCR250 CAS: 8002-05-9 HR: 3
PETROLEUM
DOT: UN 1267
PROP: A thick, flammable, dark-yellow to brown or green-black liquid. D: 0.780−0.970, flash p: 20−90°F. Insol in water; sol in benzene, chloroform, ether. Consists of a mixture of hydrocarbons from C_2H_6 and up, chiefly of the paraffins, cycloparaffins, or cyclic aromatic hydrocarbons, with small amounts of benzene hydrocarbons, sulfur, and oxygenated compounds. IDLH 1100 ppm [10%LEL].
SYNS: BASE OIL □ COAL LIQUID □ COAL OIL □ CRUDE OIL □ CRUDE PETROLEUM □ PETROL □ PETROLEUM CRUDE □ PETROLEUM CRUDE OIL (DOT) □ ROCK OIL □ SENECA OIL
TOXICITY DATA with REFERENCE:
mma-sat 1 mg/plate CRNGDP 3,21,78
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 45,119,89; Animal Limited Evidence IMEMDT 45,119,89; Human Inadequate Evidence IMEMDT 45,119,89. Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data by skin contact. A dangerous fire hazard when exposed to heat, flame, or powerful oxidizers. To fight fire, use foam, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also MINERAL OIL.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #48.

PCR500 CAS: 8052-42-4 HR: 2
PETROLEUM ASPHALT
PROP: Steam refined asphalt (IMSUAI 34,255,65).
SYNS: ASPHALT, PETROLEUM □ PETROLEUM ROOFING TAR □ ROAD ASPHALT

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data on skin contact. When heated to decomposition it emits acrid smoke and irritating fumes. See also ASPHALT.

PCS250 CAS: 8002-05-9 HR: 3
PETROLEUM DISTILLATE
DOT: UN 1268
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD JACTDZ 5(3),225,86
eye-rbt 100 mg MLD JACTDZ 5(3),225,86
par-man TDLo:57 mg/kg DICPBB 15,693,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 400 ppm
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Human systemic effects by parenteral route: cough, dyspnea, nausea or vomiting. Mildly toxic by inhalation and ingestion. Moderate skin and eye irritation. A flammable liquid when exposed to heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes. Used as a vehicle for pesticides. See also PETROLEUM and ASPHALT.

PCS260 CAS: 64742-44-5 HR: 2
PETROLEUM DISTILLATES, CLAY-TREATED HEAVY NAPHTHENIC
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

PCS270 CAS: 64742-45-6 HR: 2
PETROLEUM DISTILLATES, CLAY-TREATED LIGHT NAPHTHENIC
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

PCS750 HR: 2
PETROLEUM 60 SOLVENT
PROP: Consists of a mixture of hydrocarbons from C_5-C_{10}, chiefly of paraffins, cycloparaffins, alkyl benzenes, and benzene (TXAPA9 34,374,75).
TOXICITY DATA with REFERENCE:
ihl-hmn TCLo:550 ppm/15M:EYE TXAPA9 34,374,75
ihl-rat LC50:4900 ppm/4H TXAPA9 34,374,75
ihl-cat LCLo:4100 ppm/4H TXAPA9 34,374,75
NIOSH REL: (Refined Petroleum Solvents) TWA 350 mg/m^3; CL 1800 mg/m^3/15M
SAFETY PROFILE: Mildly toxic by inhalation. Human systemic effects by inhalation: change in sense of smell and taste, conjunctiva irritation. When heated to decomposition it emits acrid smoke and irritating fumes. See also individual components.

PCT000 HR: 2
PETROLEUM 70 SOLVENT
PROP: Consists of a mixture of hydrocarbons from C_5-C_{10}, chiefly of paraffins, monocycloparaffins, and alkyl benzenes (TXAPA9 34,395,75).
TOXICITY DATA with REFERENCE:
ihl-hmn TCLo:180 ppm/15M:EYE TXAPA9 34,395,75
ihl-dog LCLo:930 ppm/4H TXAPA9 34,395,75
NIOSH REL: (Refined Petroleum Solvents) TWA 350 mg/m^3; CL 1800 mg/m^3/15M
SAFETY PROFILE: Mildly toxic by inhalation. Human systemic effects by inhalation: lachrymation. When heated to decomposition it emits acrid smoke and irritating fumes. See also OLEFINS.

PCT250 CAS: 8032-32-4 HR: 3
PETROLEUM SPIRITS
DOT: UN 1271
PROP: Volatile, clear, colorless and non-fluorescent liquid. Mp: <−73°, bp: 40−80°, ULC: 95−100, lel: 1.1%, uel: 5.9%, flash p: <0°F, d: 0.635−0.660, autoign temp: 550°F, vap d: 2.50.
SYNS: BENZINE (LIGHT PETROLEUM DISTILLATE) ◻ BENZOLINE ◻ CANADOL ◻ LIGROIN ◻ PAINTER'S NAPHTHA ◻ PETROLEUM ETHER ◻ PETROLEUM SPIRIT (DOT) ◻ REFINED SOLVENT NAPHTHA ◻ SKELLYSOLVE F ◻ SKELLYSOLVE G ◻ VARNISH MARKER'S NAPHTHA ◻ VM and P NAPHTHA ◻ VM & P NAPHTHA ◻ VM&P NAPHTHA ◻ VM & P NAPHTHA (ACGIH,OSHA)
TOXICITY DATA with REFERENCE:
eye-hmn 880 ppm/15M TXAPA9 32,263,75
ihl-rat LC50:3400 ppm/4H TXAPA9 32,263,75
ivn-mus LD50:40 mg/kg PCJOAU 7,765,73
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 300 ppm; STEL 400 PPM
ACGIH TLV: TWA 300 ppm; Animal Carcinogen
NIOSH REL: (VM & P Naphtha) TWA 350 mg/m^3; CL 1800 mg/m^3/15M
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Confirmed carcinogen. A poison by intravenous route. Mildly toxic by inhalation. Ingestion can cause a burning sensation, vomiting, diarrhea, drowsiness, and, in severe cases, pulmonary edema. Inhalation of concentrated vapors can cause intoxication resembling that from alcohol, headache, nausea, coma, and hemorrhage to various vital organs. An eye irritant. A flammable liquid and highly dangerous fire hazard when exposed to heat, flame, sparks, or oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. Highly dangerous; keep away from heat or flame. To fight fire, use foam, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Naphthas, 1550.

PCT500 HR: 1
PETROLEUM 50 THINNER

PROP: A mixture of paraffins, monocycloparaffins, condensed cycloparaffins, benzene, toluene, and C_8 alkyl benzenes (TXAPA9 36,427,76).
SYN: 50 THINNER
TOXICITY DATA with REFERENCE:
eye-hmn 530 ppm/30M MLD TXAPA9 36,427,76
ihl-rat LC50:8300 ppm/4H TXAPA9 36,427,76
SAFETY PROFILE: Mildly toxic by inhalation. A human eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also BENZENE, TOLUENE, and OLEFINS.

PCT600 HR: D
PETROLEUM WAX
PROP: Translucent; tasteless and odorless wax. Mp: 48−93°. Insol in water; very sltly sol in org solvs.
SYNS: MICROCRYSTALLINE WAX ◻ PETROLEUM WAX, SYNTHETIC (FCC) ◻ REFINED PETROLEUM WAX
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

PCU000 CAS: 1429-30-7 HR: 3
PETUNIDOL
mf: $C_{16}H_{13}O_7$ mw: 317.29
PROP: Gray-brown leaflets or prisms from HCl (aq).
SYNS: 2-(3,4-DIHYDROXY-5-METHOXYPHENYL)-3,5,7-TRIHYDROXYBENZOPYRYLIUM, ACID ANION ◻ 3,3',4',5,7-PENTAHYDROXY-5'-METHOXYFLAVYLIUM ACID ANION
TOXICITY DATA with REFERENCE:
ipr-rat LD50:2350 mg/kg CHTPBA 2,33,67
ivn-rat LD50:240 mg/kg CHTPBA 2,33,67
ipr-mus LD50:4110 mg/kg CHTPBA 2,33,67
ivn-mus LD50:840 mg/kg CHTPBA 2,33,67
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating fumes.

PCU350 CAS: 17466-45-4 HR: 3
PHALLOIDIN
mf: $C_{35}H_{48}N_8O_{11}S$ mw: 788.97
PROP: Hexahydrate, needles or crystals from water. Mp: 280−282°. Solubility in water 0.5%; much more sol in hot water; freely sol in methanol, ethanol, butanol, pyridine.
SYN: PHALLOIDINE
TOXICITY DATA with REFERENCE:
mor-rat:lvr 1 µmol/L CYTZAM 17,73,78
dni-rat:lvr 100 nmol/L TOXIA6 25,1265,87
ipr-mus LD50:2 mg/kg NEJMAG 269,223,63
ivn-mus LDLo:6600 µg/kg AEPPAE 190,406,38
orl-mam LDLo:1000 µg/kg CTOXAO 17,45,80
SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x, and NO_x.

PCU355 CAS: 28227-92-1 HR: 3
PHALLOIN
mf: $C_{35}H_{48}N_8O_{10}S$ mw: 772.97
SYN: PHALLOIDIN, 7-(4-HYDROXY-l-LEUCINE)-(9CI)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:1 mg/kg NEJMAG 269,223,63
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PCU360 CAS: 9000-70-8 HR: D
PHARMAGEL A
PROP: Sltly yellow sheets, flakes, or coarse powder. Sol in hot H_2O, glycerol, AcOH; insol in org solvs.
SYNS: ABSORBABLE GELATIN SPONGE ◻ GELATIN ◻ GELATINE ◻ GELATIN FOAM ◻ GELATINS ◻ GELFOAM ◻ GT ◻ PHARMAGEL AdB ◻ PHARMAGEL B ◻ PURAGEL ◻ SPONGIOFORT ◻ VEE GEE GELATIN
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

PCU375 HR: 3
PHEASANT'S EYE
PROP: Small perennials which have 2- to 3-inch yellow or red flowers in the spring. Native to the alpine areas of southern Europe, Asia Minor, and Asia, they are cultivated in the northern United States, particularly in rock gardens.
SYNS: A. AESTIVALIS ◻ A. AMURENSIS ◻ A. ANNUA ◻ ADONIS (VARIOUS SPECIES) ◻ A. VERNALIS ◻ FLOR de ADONIS (CUBA) ◻ GOTA de SANGRE (CUBA) ◻ RED MOROCCO
SAFETY PROFILE: Most parts of the plant contain a cardiac glycoside similar to digitalis and may also contain a strong irritant. No human poisonings have been reported in the United States. Cardiac glycosides may cause death by their effect on heart function. See also DIGITALIS.

PCU390 HR: 1
PHELLOBERIN A
PROP: Contains 37.5 mg berberine chloride, 37.5 mg clioquinol in carboxymethylcellulose (NIIRDN 6,666,82).
TOXICITY DATA with REFERENCE:
orl-rat LD50:10 g/kg NIIRDN 6,666,82
orl-mus LD50:7120 mg/kg KSRNAM 11,464,77
SAFETY PROFILE: Mildly toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and Cl^-. A bacteriostatic agent. See also BERBERINE and CARBOXYMETHYLCELLULOSE.

PCU400 CAS: 14436-50-1 HR: 3
PHEM
mf: $C_{19}H_{29}NO_4$ mw: 335.49
SYNS: ETHYLPHENYLMALONIC ACID 2-(DIETHYLAMINO)-ETHYL ETHYL ESTER ◻ ETHYLPHENYL-PROPANEDIOIC ACID-2-(DIETHYLAMINO)ETHYL ETHYL ESTER (9CI) ◻ PHENYLAETHYLMALONSAEURE-AETHYL-DIAETHYL-AMINOAETHYL-DI-ESTER (GERMAN) ◻ Sch 5705
TOXICITY DATA with REFERENCE:
orl-rat LD50:3700 mg/kg AEPPAE 237,264,59
ipr-rat LD50:320 mg/kg AEPPAE 237,264,59
orl-mus LD50:440 mg/kg AEPPAE 237,264,59
ipr-mus LD50:210 mg/kg AEPPAE 237,264,59

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

PCU425 CAS: 10477-72-2 HR: 3
PHENACID
mf: $C_{12}H_{15}Cl_2NO_2$ mw: 276.18
SYNS: 4-(BIS(2-CHLOROETHYL)AMINO)-BENZENEACETIC ACID (9CI) □ (p-(BIS(2-CHLOROETHYL)AMINO)PHENYL)-ACETIC ACID □ 2-(p-(BIS(2-CHLOROETHYL)AMINO)PHENYL)-ACETIC ACID □ CB 1331 □ p-N,N-DI-(2-CHLOROETHYL)-AMINOPHENYL ACETIC ACID □ NSC-71964
TOXICITY DATA with REFERENCE:
sln-dmg-par 3 mmol/L GENRA8 1,173,60
sln-dmg-unr 10 mmol/L ANYAA9 160,228,69
ipr-rat LDLo:15 mg/kg BCPCA6 5,192,60
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

PCU500 CAS: 551-16-6 HR: 2
PHENACYL-6-AMINOPENICILLINATE
mf: $C_8H_{12}N_2O_3S$ mw: 216.28
PROP: A solid. Mp: 208−209° (decomp). Obtained from *Penicillum chrysogenum* and *Pleurotus ostroeatus*.
SYNS: 6-AMINOPENICILLANIC ACID □ 6-APA □ 6-APS □ PENICIN □ PENIN
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 and SO_x.

PCV350 CAS: 2522-81-8 HR: 2
PHENACYLPIVALATE
mf: $C_{13}H_{16}O_3$ mw: 220.29
PROP: A solid. Mp: 62−63°.
SYNS: BENZOYLCARBINOL TRIMETHYLACETATE □ BENZOYLCARBINYL TRIMETHYLACETATE □ 2,2-DIMETHYL-PROPANOIC ACID-2-OXO-2-PHENYLETHYL ESTER (9CI) □ PIBECARB
TOXICITY DATA with REFERENCE:
ipr-rat LD50:2600 mg/kg GNRIDX 4,1,70
orl-mus LD50:1900 mg/kg KSRNAM 8,1895,74
ipr-mus LD50:1400 mg/kg KSRNAM 8,1895,74
scu-mus LD50:4900 mg/kg KSRNAM 8,1895,74
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

PCV400 CAS: 13598-00-0 HR: 3
PHENAKITE
mf: $O_4Si{\bullet}2Be$ mw: 110.11
SYNS: BERYLLIUM SILICATE □ PHENACITE □ PHENAKITE (Be_2SiO_4) □ PHENAZITE
CONSENSUS REPORTS: IARC Cancer Review: Group 1 IMEMDT 58,41,93; Human Sufficient Evidence IMEMDT 58,41,93; Animal Sufficient Evidence IMEMDT 58,41,93.
SAFETY PROFILE: Confirmed human carcinogen. When heated to decomposition it emits toxic vapors of Be.

PCV500 CAS: 189-92-4 HR: 2
PHENALENO(1,9-gh)QUINOLINE
mf: $C_{19}H_{11}N$ mw: 253.31
PROP: Yellow needles from EtOH. Mp: 152−153°.
SYNS: PYRENOLINE □ PYRIDO(2',3':4)PYRENE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

PCV750 CAS: 31031-74-0 HR: 3
PHENAMACIDE HYDROCHLORIDE
mf: $C_{13}H_{19}NO_2{\bullet}ClH$ mw: 257.79
SYNS: AKLONIN (GERMAN) □ AKLONINE □ (±)-α-AMINOBENZENEACETIC ACID,3-METHYLBUTYL ESTER HYDROCHLORIDE (9CI) □ ISOAMYL PHENYLAMINO-ACETATE HYDROCHLORIDE □ ISOPENTYL-2-PHENYL-GLYCINATE HYDROCHLORIDE □ 3-METHYLBUTYL α-AMINOBENZENEACETATE HYDROCHLORIDE (±)- □ PHENYLAMINOACETIC ACID ISOAMYL ESTER HYDROCHLORIDE □ dl-2-PHENYLGLYCINISOAMYLES-TERHYDROCHLORID (GERMAN)
TOXICITY DATA with REFERENCE:
orl-mus LD50:2600 mg/kg PHARAT 33,749,78
ipr-mus LD50:415 mg/kg PHARAT 30,765,75
ivn-mus LD50:77 mg/kg PHARAT 33,749,78
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

PCV775 CAS: 40068-20-0 HR: D
PHENAMIDE
mf: $C_{14}H_{20}Cl_2N_2O$ mw: 303.26
PROP: Antifungal.
SYNS: 2-(p-(BIS(2-CHLOROETHYL)AMINO))-N-ETHYLACET-AMIDE □ 4-(BIS(2-CHLOROETHYL)AMINO)-N-ETHYL-BENZENEACETAMIDE □ NSC-122053
TOXICITY DATA with REFERENCE:
orl-rat TDLo:100 mg/kg (14D pre):REP STEDAM 19,771,72
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

PCW000 CAS: 7258-91-5 HR: 2
PHENANTHRA-ACENAPHTHENE
mf: $C_{24}H_{16}$ mw: 304.40
SYN: 4,5-DIHYDRONAPHTH(1,2-k)ACEPHENANTHRYLENE
TOXICITY DATA with REFERENCE:
skn-mus TDLo:1250 mg/kg/52W-I:ETA PRLBA4 117,318,35
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data by skin contact. When

heated to decomposition it emits acrid smoke and irritating fumes.

PCW250 CAS: 85-01-8 HR: 3
PHENANTHRENE
mf: $C_{14}H_{10}$ mw: 178.24
PROP: Solid or monoclinic crystals; plates from EtOH. Mp: 100°, bp: 339°, d: 1.179 @ 25°, vap press: 1 mm @ 118.3°, vap d: 6.14. Insol in water; sol in CS_2, benzene, and hot alc; very sol in ether.
SYNS: COAL TAR PITCH VOLATILES: PHENANTHRENE □ PHENANTHREN (GERMAN) □ PHENANTRIN
TOXICITY DATA with REFERENCE:
mma-sat 100 µg/plate APSXAS 17,189,80
sce-ham-ipr 900 mg/kg/24H MUREAV 66,65,79
skn-mus TDLo:71 mg/kg:NEO JNCIAM 50,1717,73
orl-mus LD50:700 mg/kg HYSAAV 29,19,64
ivn-mus LD50:56 mg/kg CSLNX* NX#00190
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 32,419,83. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 0.2 mg/m^3
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. Mutation data reported. A human skin photosensitizer. Questionable carcinogen with experimental neoplastigenic and tumorigenic data by skin contact. Combustible when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use water, foam, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-58 or NIOSH: Polynuclear Aromatic Hydrocarbons (HPLC), 5506; (GC), 5515.

PCW500 CAS: 20057-09-4 HR: 2
PHENANTHRENE-3,4-DIHYDRODIOL
mf: $C_{14}H_{12}O_2$ mw: 212.26
SYNS: 3,4-DIHYDROMORPHOL □ 3,4-DIHYDRO-3,4-PHENANTHRENEDIOL
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data by skin contact. When heated to decomposition it emits acrid smoke and irritating fumes.

PCX000 CAS: 585-08-0 HR: 2
9,10-PHENANTHRENE OXIDE
mf: $C_{14}H_{10}O$ mw: 194.24
PROP: Colorless needles or crystals from CH_2Cl_2/cyclohexane. Mp: 148°. Very sltly sol in water; very sol in alc, ether.
SYNS: 1a,9b-DIHYDROPHENANTHRO(9,10-B)OXIRENE (9CI) □ 9,10-EPOXY-9,10-DIHYDROPHENANTHRENE □ PHENANTHRENE-9,10-EPOXIDE
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate MUTAEX 1,35,86
mma-sat 100 µg/plate MUREAV 66,337,79
dni-omi 100 µg/L PNASA6 74,1378,77
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 acrid smoke and irritating fumes.

PCX250 CAS: 84-11-7 HR: 3
PHENANTHRENEQUINONE
mf: $C_{14}H_8O_2$ mw: 208.22
PROP: Orange-yellow needles. D: 1.405 @ 4°, mp: 208.5−210°, bp: >300° subl. Very sltly sol in water; sol in hot alc, benzene; sltly sol in ether.
SYNS: 9,10-PHENANTHRAQUINONE □ 9,10-PHENANTHRENEDIONE □ 9,10-PHENANTHRENEQUINONE
TOXICITY DATA with REFERENCE:
mma-sat 30 µmol/L PNASA6 81,1696,84
ipr-mus LDLo:165 mg/kg HBTXAC 5,110,59
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by acute intraperitoneal route. Questionable carcinogen with experimental tumorigenic data by skin contact. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

PCX275 CAS: 159092-78-1 HR: D
PHENANTHRENE, 1,6,9-TRINITRO-
mf: $C_{14}H_7N_3O_6$ mw: 313.24
SYN: 1,6,9-TRINITROPHENANTHRENE
TOXICITY DATA with REFERENCE:
mic-sat 1 nmol/plate MUREAV 349,137,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

PCX300 CAS: 229-87-8 HR: D
6-PHENANTHRIDINE
mf: $C_{13}H_9N$ mw: 179.23
SYNS: 5-AZAPHENANTHRENE □ 9-AZAPHENANTHRENE □ 3,4-BENZOISOQUINOLINE □ BENZO(c)QUINOLINE □ 3,4-BENZOQUINOLINE □ PHENANTHRIDINE
TOXICITY DATA with REFERENCE:
mic-bac-sat 50 µg/plate 50NNAZ 7,73,83
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

PCY250 CAS: 66-71-7 HR: 3
1,10-PHENANTHROLINE
mf: $C_{12}H_8N_2$ mw: 180.22
PROP: Crystals from benzene. Mp: 93−94°, anhydr 117°. Sol in water, alc, ether.
SYNS: 4,5-DIAZAPHENANTHRENE □ ORTHOPHENANTHROLINE □ β-PHENANTHROLINE □ o-PHENANTHROLINE □ 1,10-o-PHENANTHROLINE
TOXICITY DATA with REFERENCE:
dni-hmn:leu 5 mg/L ONCOBS 46,193,89
ipr-mus TDLo:30 mg/kg (female 8D post):TER JPMSAE 66,1755,77
ipr-mus LD50:75 mg/kg JPETAB 196,478,76
ivn-mus LD50:18 mg/kg JPETAB 137,1,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PCY300 CAS: 84-12-8 HR: 3
4,7-PHENANTHROLINE-5,6-DIONE
mf: $C_{12}H_6N_2O_2$ mw: 210.20
PROP: Crystals from methanol. Mp: 295° (decomp). Sparingly sol in water, alc; sol in dil mineral acids.
SYNS: 11925 C ◻ CIBA 11925 ◻ ENTHOHEX ◻ ENTOBEX ◻ ENTRONON ◻ PHANQUINONE ◻ PHANQUINONUM ◻ PHANQUONE ◻ 4,7-PHENANTHROLENE-5,6-QUINONE ◻ PQ
TOXICITY DATA with REFERENCE:
sln-asn 1 g/L MUREAV 26,159,74
orl-rat LD50:5 mg/kg ANTCAO 8,297,58
orl-mus LD50:4 mg/kg ANTCAO 8,297,58
SAFETY PROFILE: Poison by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PCY400 CAS: 14635-33-7 HR: 2
PHENANTHRO(2,1-d)THIAZOLE
mf: $C_{15}H_9NS$ mw: 235.31
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

PCY500 CAS: 4120-78-9 HR: 2
N-3-PHENANTHRYLACETAMIDE
mf: $C_{16}H_{13}NO$ mw: 235.30
SYNS: 3-ACETAMIDOPHENANTHRENE ◻ 3-ACETAMINO-PHENANTHRENE ◻ 3-ACETYLAMINOPHENANTHRENE
TOXICITY DATA with REFERENCE:
orl-rat TDLo:4572 mg/kg/32W-C:CAR CNREA8 15,188,55
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

PCY750 CAS: 4235-09-0 HR: 2
N-9-PHENANTHRYLACETAMIDE
mf: $C_{16}H_{13}NO$ mw: 235.30
SYNS: 9-ACETAMIDOPHENANTHRENE ◻ 9-ACETAMIN-OPHENANTHRENE ◻ 9-ACETYLAMINOPHENANTHRENE ◻ 9-PHENANTHRYLACETAMIDE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

PCZ000 CAS: 2438-51-9 HR: 2
N-2-PHENANTHRYLACETOHYDROXAMIC ACID
mf: $C_{16}H_{13}NO_2$ mw: 251.30
SYNS: 2-(N-HYDROXYACETAMIDO)PHENANTHRENE ◻ N-HYDROXY-2-ACETYLAMINOPHENANTHRENE ◻ N-HYDROXY-N-2-PHENANTHRENYL-ACETAMIDE (9CI) ◻ 2-PHENANTHRYLACETHYDROXAMIC ACID
TOXICITY DATA with REFERENCE:
oms-bcs 10 g/L CNREA8 30,1473,70
dns-hmn:fbr 10 μmol/L/5H IJCNAW 16,284,75
dnd-rat-ipr 40 mg/kg CRNGDP 5,231,84
scu-rat TDLo:30 mg/kg/4W-I:CAR CNREA8 26,2239,66
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PDA250 CAS: 3366-65-2 HR: 2
2-PHENANTHRYLAMINE
mf: $C_{14}H_{11}N$ mw: 193.26
PROP: Crystals from ligroin. Mp: 85°.
SYN: 2-AMINOPHENANTHRENE
TOXICITY DATA with REFERENCE:
mma-sat 50 ng/plate CBINA8 26,11,79
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AROMATIC AMINES.

PDA500 CAS: 1892-54-2 HR: 2
3-PHENANTHRYLAMINE
mf: $C_{14}H_{11}N$ mw: 193.26
PROP: Crystals from ligroin. Mp: 87.5°.
SYN: 3-AMINOPHENANTHRENE
TOXICITY DATA with REFERENCE:
mma-sat 200 ng/plate ENMUDM 6,497,84
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AROMATIC AMINES.

PDA750 CAS: 947-73-9 HR: 2
9-PHENANTHRYLAMINE
mf: $C_{14}H_{11}N$ mw: 193.26
PROP: A solid. Mp: 104°.
SYN: 9-AMINOPHENANTHRENE
TOXICITY DATA with REFERENCE:
mma-sat 250 ng/plate JJIND8 71,293,83
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AROMATIC AMINES.

PDB000 CAS: 578-94-9 HR: 3
PHENARSAZINE CHLORIDE
DOT: UN 1698
mf: $C_{12}H_9AsClN$ mw: 277.59
PROP: Light yellow to green granules from xylene or CCl_4, or by subl; irritating odor. Mp: 195° (dimorph), bp: 410° (decomp), d: 1.65, vap press: very low @ 20°, vap d: 9.6. Very sltly sol in water; sltly sol in benzene, brass. Corrodes iron, bronze.
SYNS: ADAMSITE ◻ 5-AZA-10-ARSENAANTHRACENE CHLORIDE ◻ 10-CHLORO-5,10-DIHYDROARSACRIDINE ◻ 10-CHLORO-5,10-DIHYDROPHENARSAZINE ◻ DIPHENYL-AMINECHLORARSINE ◻ DIPHENYLAMINECHLOROARSINE (DOT) ◻ DM
TOXICITY DATA with REFERENCE:
ihl-hmn LCLo:30 g/m^3 SCJUAD 4,33,67
ihl-hmn TCLo:19 mg/m^3/3M:GIT:PUL AIHAAP 23,199,62
ihl-hmn LCLo:54 ppm/30M NTIS** PB214-270

ivn-mus LD50:35 mg/kg CSLNX* NX#11444
ivn-rbt LD50:6 mg/kg AIHAAP 23,194,62
CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List.
DOT CLASSIFICATION: 6.1; Label: Poison
OSHA PEL: TWA 0.5 mg(As)/m^3
SAFETY PROFILE: Human poison by inhalation. Poison experimentally by intravenous route. Human systemic effects by inhalation: changes in function or structure of salivary glands, nausea or vomiting, cough. May be irritating to skin, eyes, and mucous membranes. A vomiting type of poison gas (non-persistent). When heated to decomposition it emits very toxic fumes of As and Cl^-. See also ARSENIC COMPOUNDS.

PDB250 CAS: 4095-45-8 HR: 3
PHENARSAZINE OXIDE
mf: $C_{24}H_{18}As_2N_2O$ mw: 500.28
SYN: PZO
TOXICITY DATA with REFERENCE:
skn-gpg 250 mg/5D SEV TXCYAC 10,341,78
orl-rat LD50:83 mg/kg TXCYAC 10,341,78
orl-gpg LD50:77 mg/kg TXCYAC 10,341,78
CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.05 mg(As)/m^3
SAFETY PROFILE: Poison by ingestion. Moderately toxic by inhalation. A severe skin irritant. When heated to decomposition it emits very toxic fumes of As and NO_x. See also ARSENIC COMPOUNDS.

PDB300 CAS: 73973-02-1 HR: 3
S-(10-PHENARSAZINYL)-O,O-DIISOOCTYLPHOSPHORODITHIOATE
mf: $C_{28}H_{43}AsNO_2PS_2$ mw: 595.73
SYNS: 10-PHENARSAZINETHIOL, S-ESTER with O,O-DIISOOCTYLPHOSPHORODITHIOATE □ PHOSPHORO-DITHIOIC ACID, O,O-DIISOOCTYL S-(10-PHENARSAZINYL) ESTER
TOXICITY DATA with REFERENCE:
ivn-mus LD50:20 mg/kg CSLNX* NX#00779
OSHA PEL: TWA 0.5 mg(As)/m^3
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x, SO_x, PO_x, and As.

PDB350 CAS: 51753-57-2 HR: 2
PHENAZEPAM
mf: $C_{15}H_{10}BrClN_2O$ mw: 349.63
SYN: FENAZEPAM
TOXICITY DATA with REFERENCE:
ipr-rat LD50:720 mg/kg KHFZAN 13(10),108,79
orl-mus LD50:2400 mg/kg KHFZAN 13(10),108,79
ipr-mus LD50:620 mg/kg KHFZAN 13(10),108,79
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^-, Br^-, and NO_x.

PDB400 CAS: 2876-22-4 HR: D
1-PHENAZINAMINE (9CI)
mf: $C_{12}H_9N_3$ mw: 195.24
SYNS: 1-AMINOPHENAZINE □ PHENAZINE, 1-AMINO-
TOXICITY DATA with REFERENCE:
slt-orl-uns-dmg 9200 nmol/vial MUREAV 369,75,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

PDB500 CAS: 92-82-0 HR: 3
PHENAZINE
mf: $C_{12}H_8N_2$ mw: 180.22
PROP: Pale-yellow-orange crystals from AcOH. Mp: 176−177°, bp: >360° (subl). Very sltly sol in water; sol in cold and hot alc, ether; mod sol in Et_2O, C_6H_6.
SYNS: AZOPHENYLENE □ DIBENZOPARADIAZINE □ DIBENZOPYRAZINE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:400 mg/kg EJMCA5 10,273,75
ivn-mus LD50:180 mg/kg CSLNX* NX#02474
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

PDB600 CAS: 655-86-7 HR: D
2,3-PHENAZINEDIAMINE
mf: $C_{12}H_{10}N_4$ mw: 210.26
SYNS: 2,3-DIAMINOPHENAZINE □ PHENAZINE, 2,3-DIAMINO-
TOXICITY DATA with REFERENCE:
mic-sat 100 ng/plate MUREAV 227,135,1989
slt-orl-uns-dmg 8400 nmol/tube MUREAV 369,75,1996
dnr-orl-uns-dmg 4900 nmol/tube MUREAV 369,75,1996
dnd-hmn-lym 50 µmol/L MUREAV 446,57,1999
cyt-hmn-lym 90 µmol/L MUREAV 446,57,1999
sce-hmn-lym 45 µmol/L MUREAV 446,57,1999
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

PDB750 CAS: 304-81-4 HR: 2
PHENAZIN-5-OXIDE
mf: $C_{12}H_8N_2O$ mw: 196.22
PROP: Orange needles from EtOH. Mp: 226.5°.
SYNS: N-OXIDE de PHENAZINE (FRENCH) □ PHENAZIN □ PHENAZINE-N-OXIDE □ PHENAZINE-5N-OXIDE □ PHENAZINE-9-OXIDE □ PHENAZIN OXIDE □ PZ-13
TOXICITY DATA with REFERENCE:
mma-sat 1 mg/plate MUREAV 116,185,83
orl-rat LD50:6600 mg/kg OYYAA2 12,483,76
orl-mus LD50:5500 mg/kg OYYAA2 12,465,76
ipr-mus LD50:500 mg/kg EJMCA5 10,273,75
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental teratogenic and reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PDC000 CAS: 91-75-8 HR: 3
PHENAZOLINE
mf: $C_{17}H_{19}N_3$ mw: 265.39
PROP: A solid. Mp: 121−122°.

SYNS: ANTASTEN □ ANTAZOLINE □ ANTIHISTAL □ ANTISTINE □ AZALONE □ BEN-A-HIST □ 2-(N-BENZYL-ANILINOMETHYL)-2-IMIDAZOLINE □ 4,5-DIHYDRO-N-PHENYL-N-PHENYLMETHYL-1H-IMIDAZOLE-2-METHAN-AMINE □ HISTOSTAB □ IMIDAMINE □ 5512-M □ 2-PHENYL-BENZYL-AMINO-METHYLIMIDAZOLIN (GERMAN) □ 2-(N-PHENYL-N-BENZYLAMINOMETHYL)IMIDAZOLINE

TOXICITY DATA with REFERENCE:
eye-rbt 1% OPHTAD 143,154,62
orl-mus LD50:398 mg/kg ARZNAD 7,237,57
ipr-mus LD50:100 mg/kg AEPPAE 237.171.59
scu-mus LD50:135 mg/kg ARZNAD 17,214,67

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

PDC250 CAS: 136-40-3 HR: 3
PHENAZOPYRIDINIUM CHLORIDE

mf: $C_{11}H_{11}N_5$•ClH mw: 249.73

PROP: Red crystals; sltly bitter taste. Mp: 233−238°. Sltly sol in cold water, alc; sol in acetic acid; insol in acetone, benzene, chloroform, ether.

SYNS: AZODINE □ AZODIUM □ AZODYNE □ AZO GANTRISIN □ AZO GASTANOL □ AZO-MANDELAMINE □ AZOMINE □ AZO-STANDARD □ AZO-STAT □ AZOTREX □ BARIDIUM □ BISTERIL □ CYSTAMINE "MCCLUNG" □ CYSTOPYRIN □ CYSTURAL □ 2,6-DIAMINO-3-PHENYLAZO-PYRIDINE HYDROCHLORIDE □ 2,6-DIAMINO-3-(PHENYL-AZO)PYRIDINE MONOHYDROCHLORIDE □ DI-AZO □ DIRIDONE □ DOLONIL □ EUCISTIN □ GIRACID □ MALLO-FEEN □ MALLOPHENE □ NC 150 □ NCI-C01672 □ NEFRECIL □ PAP □ PDP □ PHENAZO □ PHENAZODINE □ PHENAZO-PYRIDINE HYDROCHLORIDE □ PHENYLAZODIAMINO-PYRIDINE HYDROCHLORIDE □ β-PHENYLAZO-α,α'-DIAMINOPYRIDINE HYDROCHLORIDE □ 3-PHENYLAZO-2,6-DIAMINOPYRIDINE HYDROCHLORIDE □ PHENYLAZO-α,α'-DIAMINOPYRIDINE MONOHYDROCHLORIDE □ 3-(PHENYL-AZO)-2,6-PYRIDINEDIAMINE, HYDROCHLORIDE □ PHENYL-AZOPYRIDINE HYDROCHLORIDE □ PHENYLAZO TABLETS □ PHENYL-IDIUM □ PHENYL-IDIUM 200 □ PIRID □ PIRIDA-CIL □ PYRAZODINE □ PYRAZOFEN □ PYREDAL □ PYRIDACIL □ PYRIDENAL □ PYRIDENE □ PYRIDIATE □ PYRIDIUM □ PYRIDIVITE □ PYRIPYRIDIUM □ PYRIZIN □ SEDURAL □ SULADYNE □ SULODYNE □ THIOSULFIL-A FORTE □ URAZIUM □ URIDINAL □ URIPLEX □ UROBIOTIC-250 □ URODINE □ UROFEEN □ UROMIDE □ UROPHENYL □ UROPYRIDIN □ UROPYRINE □ UTOSTAN □ VESTIN □ W 1655

TOXICITY DATA with REFERENCE:
slt-mus:lyms 20 mg/L EMMUEG 17,196,91
cyt-ham:ovr 30 mg/L EMMUEG 10(Suppl 10),1,87
orl-man TDLo:114 mg/kg:GIT,SYS HUTODJ 2,539,83
orl-man TDLo:86 mg/kg/10D-I:CNS AIMEAS 106,164,87
orl-cld TDLo:35 mg/kg:BLD,SYS AJDCAI 117,369,69
orl-chd TDLo:400 mg/kg:CNS,PUL AJDCAI 110,105,65
orl-wmn TDLo:34 mg/kg:GIT,KID,MET AIMEAS 72,89,70
orl-chd TDLo:125 mg/kg:PUL,BLD CPEDAM 10,537,71
orl-wmn TDLo:140 mg/kg:GIT,BLD,MET CMAJAX 91,756,64
orl-rat LD50:403 mg/kg TXAPA9 1,42,59
ipr-rat LDLo:200 mg/kg JPETAB 51,200,34
ivn-mus LD50:180 mg/kg CSLNX* NX#04014

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,312,87; Animal Sufficient Evidence IMEMDT 24,163,80; Human Limited Evidence IMEMDT 24,163,80; Animal Inadequate Evidence IMEMDT 8,117,75. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-99,78.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. A poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Human systemic effects by ingestion: somnolence, cyanosis, diarrhea, nausea or vomiting, anuria or decreased urine volume, normocytic anemia, methemoglobinemia-carboxyhemoglobinemia, dehydration, changes in blood sodium levels. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

PDC750 CAS: 2275-14-1 HR: 3
PHENCAPTON

mf: $C_{11}H_{15}Cl_2O_2PS_3$ mw: 377.31

SYNS: O,O-DIAETHYL-S((2,5-DICHLOR-PHENYL-THIO)-METHYL)-DITHIOPHOSPHAT (GERMAN) □ S-(2,5-DICHLORO-PHENYLTHIOMETHYL) O,O-DIETHYL PHOSPHORODITHIO-ATE □ 2,5-DICHLOROPHENYLTHIOMETHYL O,O-DIETHYL PHOSPHORODITHIOATE □ S-(2,5-DICHLOROPHENYLTHIO-METHYL) DIETHYL PHOSPHOROTHIOLOTHIONATE □ O,O-DIETHYL-S-(2,5-DICHLOROPHENYLTHIOMETHYL) DITHIO-PHOSPHATE □ O,O-DIETHYL-S-(2,5-DICHLOROPHENYLTHIO-METHYL) DITHIOPHOSPHORAN □ O,O-DIETHYL-S-(2,5-DICHLOROPHENYLTHIOMETHYL) PHOSPHORODITHIOATE □ O,O-DIETHYL-S-(2,5-DICHLOROPHENYLTHIOMETHYL) PHOSPHOROTHIOLOTHIONATE □ DITHIOPHOSPHATE de-O,O-DIETHYLE et de S(2,5-DICHLOROPHENYL) THIOMETHY-LE (FRENCH) □ EENKAPTON (DUTCH) □ ENT 25,585 □ GEIGY G-28029 □ PRZEDZIORKOFOS (POLISH)

TOXICITY DATA with REFERENCE:
orl-rat LD50:61 mg/kg PAPOAC 19,415,68
skn-rat LD50:652 mg/kg 85DPAN -,-,71/76
orl-mus LD50:220 mg/kg ARSIM* 20,10,66
orl-ckn LD50:886 mg/kg TXAPA9 11,49,67

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. A cholinesterase inhibitor. When heated to decomposition it emits very toxic fumes of Cl^-, PO_x, and SO_x. See also PARATHION.

PDC850 CAS: 3735-90-8 HR: 3
PHENCARBAMID

mf: $C_{19}H_{24}N_2OS$ mw: 328.51

PROP: Crystals. Mp: 48−49°, bp: 120−126°. Practically insol in water; freely sol in methanol, ether, chloroform. Sol in pet ether.

SYNS: BAYER 1355 □ DIPHENYLTHIOCARBAMIC ACID-S-(2-(DIETHYLAMINO)ETHYL) ESTER □ ESCORPAL □ FENCARBAMIDE □ PHENCARBAMIDE □ RISPASULF

TOXICITY DATA with REFERENCE:
orl-rat LD50:370 mg/kg AIPTAK 155,393,65
scu-rat LD50:400 mg/kg AIPTAK 155,393,65
ivn-rat LD50:30 mg/kg AIPTAK 155,393,65
scu-mus LD50:93 mg/kg AIPTAK 155,393,65
ivn-mus LD50:32 mg/kg AIPTAK 155,393,65

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also CARBAMATES and ESTERS.

PDC875 CAS: 58-13-9 HR: 3
PHENCARBAMIDE HYDROCHLORIDE
mf: $C_{19}H_{24}N_2OS{\bullet}ClH$ mw: 364.97
PROP: Crystals from MeCOEt. Mp: 180−182°. Sol in H_2O.
SYNS: BA 1355 □ S-(2-(DIETHYLAMINO)ETHYL) DIPHENYLTHIOCARBAMATE HYDROCHLORIDE □ DIPHENYLAMIN-(β-DIAETHYLAMINOAETHYL)-CARBAMIDTHIOESTER (GERMAN) □ DIPHENYLCARBAMOTHIOIC ACID-S-(2-(DIETHYLAMINO)ETHYL) ESTER HYDROCHLORIDE □ DIPHENYLTHIOCARBAMIC ACID-S-(2-(DIETHYLAMINO)ETHYL) ESTER HYDROCHLORIDE □ ESCORPAL □ FENCARBAMIDE HYDROCHLORIDE □ PHENCARBAMID HYDROCHLORIDE (GERMAN)
TOXICITY DATA with REFERENCE:
orl-rat LD50:410 mg/kg AIPTAK 155,393,65
scu-rat LD50:400 mg/kg AIPTAK 155,393,65
ivn-rat LD50:33 mg/kg AIPTAK 155,393,65
scu-mus LD50:103 mg/kg AIPTAK 155,393,65
ivn-mus LD50:32 mg/kg AIPTAK 151,515,64
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl. See also CARBAMATES and ESTERS.

PDC890 CAS: 77-10-1 HR: 3
PHENCYCLIDINE
mf: $C_{17}H_{25}N$ mw: 243.43
PROP: Colorless crystals. Mp: 46−46.5°, bp: 135−137°.
SYNS: CL-395 □ HOG □ PCP (anesthetic) □ 1-(1-PHENYLCYCLOHEXYL)PIPERIDINE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:2800 μg/kg TOLED5 12,171,82
SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects. Caution: This is a controlled substance (depressant) listed in the U.S. Code of Federal Regulations, Title 21 Part 1308.12 (1985). The ethylamine, pyrrolidine and thiophene analogs are listed as hallucinogens, Title 21 Part 1308.11. When heated to decomposition it emits toxic fumes of NO_x.

PDD000 CAS: 569-59-5 HR: 3
PHENDIMETRAZINE TARTRATE
mf: $C_{19}H_{19}N{\bullet}C_4H_6O_6$ mw: 411.49
PROP: A solid. Mp: 165−167°.
SYNS: 2-METHYL-9-PHENYL-2,3,4,9-TETRAHYDRO-1H-INDENO(2,1-c)PYRIDINE TARTRATE □ 2-METHYL-9-PHENYL-2,3,4,9-TETRAHYDRO-1-PYRIDINDENE TARTRATE □ PHENINDAMINE HYDROGEN TARTRATE □ PLEGINE □ THEOPHORIN TARTRATE □ THEPHORIN TARTRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:280 mg/kg 29ZVAB -,91,69
scu-rat LDLo:200 mg/kg CRSBAW 144,887,50
orl-mus LD50:265 mg/kg JPETAB 105,291,52
ipr-mus LD50:88 mg/kg JPETAB 105,291,52
ivn-mus LD50:18 mg/kg CSLNX* NX#03034
orl-rbt LD50:577 mg/kg 29ZVAB -,91,69
ivn-gpg LD50:24,500 μg/kg AIPTAK 113,313,58
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. An antihistamine. When heated to decomposition it emits toxic fumes of NO_x.

PDD300 CAS: 65-29-2 HR: 3
(v-PHENENYLTRIS(OXYETHYLENE))TRIS-(TRIETHYLAMMONIUM IODIDE)
mf: $C_{30}H_{60}N_3O_3{\bullet}3I$ mw: 891.63
PROP: Crystals from Me_2CO (aq). Mp: 152−153°. Insol in Me_2CO, Et_2O, C_6H_6, and $CHCl_3$.
SYNS: BENZCURINE IODIDE □ F 2559 □ FLAXEDIL □ GALLAMINE □ RELAXAN □ RETENSIN □ RP 3697 □ SYNCURARINE □ TRICURAN □ 1,2,3-TRI(β-DIETHYLAMINOETHOXY)BENZENE TRIETHIODIDE □ TRI(β-DIETHYLAMINOETHOXY)-1,2,3-BENZENE TRI-IODOETHYLATE □ TRIIODOETHYLATE de GALLAMINE (FRENCH) □ TRIIODOETHYLATE of TRI(DIETHYLAMINOETHYLOXY)-1,2,3-BENZENE □ 1,2,3-TRIS(2-DIETHYLAMINOETHOXY)BENZENE TRIETHIODIDE □ 1,2,3-TRIS(2-DIETHYLAMINOETHOXY)BENZENE TRIS(ETHYLIODIDE) □ 1,2,3-TRIS(2-TRIETHYLAMMONIUM ETHOXY)BENZENE TRIIODIDE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:23,200 μg/kg NIIRDN 6,178,82
scu-rat LD50:28,500 μg/kg NIIRDN 6,178,82
ivn-rat LD50:5100 μg/kg NIIRDN 6,178,82
idu-rat LD50:380 mg/kg AIPTAK 180,155,69
orl-mus LD50:425 mg/kg AIPTAK 80,172,49
ipr-mus LD50:10 mg/kg AIPTAK 184,75,70
scu-mus LD50:16,400 μg/kg OYYAA2 9,117,75
ivn-mus LD50:1800 μg/kg CSLNX* NX#01979
par-mus LD50:1700 μg/kg APFRAD 7,368,49
ivn-dog LD50:800 μg/kg AIPTAK 80,172,49
orl-rbt LD50:100 mg/kg AIPTAK 80,172,49
scu-rbt LDLo:2 mg/kg AIPTAK 80,172,49
ivn-rbt LD50:440 μg/kg IJNEAQ 5,305,66
ims-rbt LDLo:2 mg/kg AIPTAK 80,172,49
ivn-ckn LD50:600 μg/kg AIPTAK 122,152,59
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, parenteral, intraduodenal, intraperitoneal, and intramuscular routes. When heated to decomposition it emits very toxic fumes of NH_3, NO_x, and I^-. See also IODIDES.

PDD350 CAS: 132-93-4 HR: 3
PHENETHICILLIN K
mf: $C_{17}H_{19}N_2O_5S{\bullet}K$ mw: 402.54
PROP: dl-Form: Crystals from acetone. Mp: 234.5−235.5° (decomp 230−232°). Much less hygroscopic than benzylpenicillin sodium. Freely sol in water.
SYNS: ALFACILLIN □ ALFOCILLIN □ ALTICINA □ ASTRACILLIN □ BENDRALAN □ BL P 152 □ BRL 152 □ BROCSIL □ BROXIL □ CHEMIPEN □ CHEMIPEN-C □ CRAMCILLIN-S □ CVK □ DARCIL □ FENETICILLINE □ K PHENETHICILLIN □ MAXIPEN □ OPTIPEN □ α-ORACILLIN □ ORALOPEN □ PEN 200 □ PENSIG □ PHENETHECILLIN POTASSIUM □ PHENETHECILLIN POTASSIUM SALT □ PHENETHICILLIN K SALT □ PHENETICILLIN POTASSIUM □ PHENO-m-PENICILLIN □ PHENOXYAETHYLPENICILLIN K-SALZ (GERMAN) □ α-PHENOXYETHYLPENICILLIN □ α-PHENOXYETHYLPENICILLIN POTASSIUM □ α-PHENOXYETHYLPENICILLIN POTASSIUM SALT □ POTASSIUM METHYLPHENOXYMETHYL-

PENICILLIN □ POTASSIUM PHENETHICILLIN □ POTASSIUM-α-PHENOXYETHYL PENICILLIN □ POTASSIUM (1-PHENOXY-ETHYL)PENICILLIN □ POTASSIUM-6-(α-PHENOXYPROPION-AMIDO)PENICILLANATE □ PRIOSPEN □ RO-CILLIN □ SEMOPEN □ SYNAPEN □ SYNCILLIN □ SYNERPENIN □ SYNTHECILLIN □ SYNTHECILLINE

TOXICITY DATA with REFERENCE:
ipr-rat LD50:1750 mg/kg ARZNAD 12,751,62
ipr-mus LD50:1896 mg/kg NIIRDN 6,661,82
ivn-mus LD50:312 mg/kg NIIRDN 6,661,82
ivn-gpg LD50:324 mg/kg RPOBAR 2,311,70

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of K_2O, SO_x, and NO_x.

PDD400 CAS: 7493-57-4 HR: 1
1-PHENETHOXY-1-PROPOXYETHANE
mf: $C_{13}H_{20}O_2$ mw: 208.33

PROP: Colorless liquid with floral, herbal aroma.

SYNS: ACETALDEHYDE, PHENETHYL PROPYL ACETAL □ ACETAL R □ BENZENE, (2-(1-PROPOXYETHOXY)ETHYL)- □ PROPYL PHENETHYL ACETAL

TOXICITY DATA with REFERENCE:
eye-rbt 100 mg MLD FCTOD7 30,109S,92
orl-rat LD50:>5 g/kg FCTOD7 30,109S,92
skn-rbt LD50:>5 g/kg FCTOD7 30,109S,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PDD750 CAS: 60-12-8 HR: 2
PHENETHYL ALCOHOL
mf: $C_8H_{10}O$ mw: 122.18

PROP: Colorless liquid; floral odor of roses. Mp: −27°, bp: 220°, flash p: 216°F, d: 1.020 @ 20°/4°, vap d: 4.21. Misc with alc, ether; sol in fixed oils, glycerin, propylene glycol.

SYNS: BENZYL CARBINOL □ ETHANOL, 2-PHENYL- □ FEMA No. 2858 □ β-FENETHYLALKOHOL □ β-FENYLETHANOL □ β-HYDROXYETHYLBENZENE □ METHANOL, BENZYL- □ ORANGE OIL □ PEA □ β-PEA □ PHENETHANOL □ β-PHEN-ETHYL ALCOHOL □ 2-PHENETHYL ALCOHOL □ β-PHENYL-ETHANOL □ 2-PHENYLETHANOL □ PHENYLETHYL ALCOH-OL □ β-PHENYLETHYL ALCOHOL □ 2-PHENYLETHYL ALCOHOL □ ROSE OIL

TOXICITY DATA with REFERENCE:
eye-rbt 12 g/10M MLD ARZNAD 9,349,59
skn-gpg 100 mg MLD FCTXAV 13,903,75
mmo-smc 1000 ppm GENRA8 13,107,69
uns-mus:ast 8360 μmol/L BCPCA6 22,2511,73
orl-rat LD50:1790 mg/kg FCTXAV 2,327,64
scu-mus LDLo:1640 mg/kg JPETAB 14,211,20
skn-rbt LD50:790 mg/kg TXAPA9 28,313,74
orl-rbt LDLo:2 g/kg JEENAI 48,139,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and eye irritant. Experimental teratogenic effects. Other experimental reproductive effects. Causes severe central nervous system injury to experimental animals. Mutation data reported. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

PDE000 CAS: 98-85-1 HR: 3
α-PHENETHYL ALCOHOL
DOT: UN 2937
mf: $C_8H_{10}O$ mw: 122.18

PROP: Colorless liquid; hyacinth odor. Bp: 204°, fp: 21.4°, d: 1.015 @ 20°/20°, refr index: 1.525, vap press: 0.1 mm @ 20°, vap d: 4.21, flash p: 205°F (OC). Sol in fixed oils, propylene glycol; very sol in glycerin.

SYNS: BENZENEMETHANOL, α-METHYL- □ ETHANOL, 1-PHENYL- □ FEMA No. 2685 □ 1-FENYLETHANOL □ FENYL-METHYLKARBINOL □ α-METHYLBENZYL ALCOHOL (FCC) □ METHYLPHENYLCARBINOL □ METHYPHENYLMETHANOL □ NCI-C55685 □ 1-PHENYLETHANOL □ PHENYLMETHYL-CARBINOL □ STYRALLYL ALCOHOL □ STYRALYL ALCOHOL

TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H open JIHTAB 26,269,44
skn-rbt 500 mg/24H MOD FCTXAV 12,995,74
eye-rbt 2 mg SEV AJOPAA 29,1363,46
orl-rat LD50:400 mg/kg JIHTAB 26,269,44
scu-mus LD50:250 mg/kg AIPTAK 116,154,58
ivn-dog LDLo:200 mg/kg JPETAB 15,129,20
skn-rbt LD50:2500 mg/kg FCTXAV 12,995,74

CONSENSUS REPORTS: NTP Carcinogenesis Studies (gavage); Some Evidence: rat NTPTR* NTP-TR-369,90; (gavage); No Evidence: mouse NTPTR* NTP-TR-369,90. 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. A skin and severe eye irritant. Questionable carcinogen. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, foam, CO_2, dry chemical.

PDE250 CAS: 64-04-0 HR: 3
β-PHENETHYLAMINE
mf: $C_8H_{11}N$ mw: 121.20

PROP: Colorless to sltly yellow liquid; fishy odor. Bp: 197−198°, d: 0.96 @ 15.5°/15.5°, vap d: 4.18. Sol in water; very sol in alc, ether.

SYNS: β-AMINOETHYLBENZENE □ 1-AMINO-2-PHENYLETHANE □ β-PHENYLAETHYLAMIN (GERMAN) □ 1-PHENYL-2-AMINO-AETHAN (GERMAN) □ 1-PHENYL-2-AMINOETHANE □ PHENYLETHYLAMINE □ ω-PHENYLETHYLAMINE □ 2-PHENYLETHYLAMINE

TOXICITY DATA with REFERENCE:
orl-rat LDLo:800 mg/kg AEPPAE 195,647,40
ipr-rat LDLo:100 mg/kg AEPPAE 195,647,40
scu-mus LD50:320 mg/kg ARZNAD 7,620,57
ivn-mus LD50:100 mg/kg JPETAB 106,341,52
icv-mus LD50:39 mg/kg TYKNAQ 27,131,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, intracervical, and intravenous routes. Moderately toxic by ingestion. A strong base. A skin irritant and possible sensitizer. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

PDE500 CAS: 156-28-5 HR: 3
β-PHENETHYLAMINE HYDROCHLORIDE
mf: $C_8H_{11}N$•ClH mw: 157.66
PROP: Orthorhombic platelets or leaflets from EtOH. Mp: 223−224°. Very sol in water; sol in alc; insol in ether.
SYNS: 1-PHENYL-2-AMINOETHANE HYDROCHLORIDE □ β-PHENYLATHYLAMINHYDROCHLORID (GERMAN) □ β-PHENYLETHYLAMINE HYDROCHLORIDE □ 2-PHENYL-ETHYLAMINE HYDROCHLORIDE □ USAF EL-76
TOXICITY DATA with REFERENCE:
eye-man 50 mg SEV AIMDAP 39,404,27
orl-hmn TDLo:714 mg/kg:CVS AIMDAP 39,404,27
orl-hmn TDLo:45 mg/kg:CNS KLWOAZ 17,1580,38
scu-rat LDLo:160 mg/kg JPETAB 71,62,41
scu-mus LD50:470 mg/kg JPPMAB 15,472,63
ivn-rbt LDLo:50 mg/kg JPETAB 36,363,29
skn-gpg LDLo:200 mg/kg JPETAB 32,121,27
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by skin contact, subcutaneous, and intravenous routes. A human eye irritant. A skin irritant and possible sensitizer. Human systemic effects by ingestion: blood pressure lowering, anorexia. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also AMINES.

PDF000 CAS: 114-86-3 HR: 3
β-PHENETHYLBIGUANIDE
mf: $C_{10}H_{15}N_5$ mw: 205.30
SYNS: DBI □ N'-β-FENETILFORMAMIDINILIMINOUREA (ITALIAN) □ FENFORMINA □ NCI-C01741 □ β-PHENE-THYBIGUANIDE □ 1-PHENETHYLBIGUANIDE □ PHENE-THYLDIGUANIDE □ N'-β-PHENETHYLFORMAMIDIN-YLLIMINOUREA □ PHENFORMINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1650 mg/kg BCFAAI 110,470,71
orl-mus LD50:830 mg/kg BCFAAI 110,470,71
ipr-mus LD50:140 mg/kg BCFAAI 97,396,58
scu-gpg LD50:16 mg/kg MEXPAG 8,237,63
ivn-gpg LDLo:30 mg/kg 43ZRAD 1,337,80
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-7,77.
SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

PDF250 CAS: 834-28-6 HR: 3
PHENETHYLBIGUANIDE HYDROCHLORIDE
mf: $C_{10}H_{15}N_5$•ClH mw: 241.76
PROP: A solid. Mp: 175−178°. Sol in water.
SYNS: DBI-TD □ DIPAR □ 1-FENETILBIGUANIDE CLORIDR-ATO (ITALIAN) □ MELTROL □ N'-β-PHENETHYLBIGUANIDE HYDROCHLORIDE □ 1-PHENETHYLBIGUANIDE HYDROCHL-ORIDE □ PHENOFORMINE HYDROCHLORIDE □ 1-PHENYL-AETHYLBIGUANID HYDROCHLORID (GERMAN) □ USAF VI-6
TOXICITY DATA with REFERENCE:
orl-rat LD50:938 mg/kg FRPSAX 15,521,60
ipr-rat LD50:172 mg/kg FRPSAX 15,521,60
ivn-rat LD50:17,500 μg/kg ARZNAD 23,1571,73
orl-mus LD50:407 mg/kg TXAPA9 14,393,69
ipr-mus LD50:150 mg/kg NTIS** AD691-490
ivn-mus LD50:17,800 μg/kg CSLNX* NX#00094
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

PDF500 CAS: 7476-91-7 HR: 2
PHENETHYL CHLORACETATE
mf: $C_{10}H_{11}ClO_2$ mw: 198.66
SYN: CHLORO-ACETIC ACID, PHENETHYL ESTER
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:500 mg/kg CBCCT* 8,99,56
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of Cl^-.

PDF510 CAS: 64049-71-4 HR: 3
(4,β-PHENETHYLENEBIS(CARBONYLMETH-YL))BIS(DIMETHYL-2-HYDROXYETHYL-AMMONIUM) DIBROMIDE
mf: $C_{20}H_{34}N_2O_4$•2Br mw: 526.38
SYN: AMMONIUM, (4,β-PHENETHYLENEBIS(CARBONYL-METHYL))BIS(DIMETHYL-2-HYDROXYETHYL-, DIBROMIDE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:90 μg/kg TXAPA9 27,666,1974
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and Br^-.

PDF525 CAS: 499-30-9 HR: D
2-PHENETHYLGLUCOSINOLATE
mf: $C_{15}H_{21}NO_9S_2$ mw: 423.49
PROP: Hygroscopic solid.
SYNS: GLUCONASTURCIN □ GLUCONASTURTIIN □ GLUCOPYRANOSE, 1-THIO-, 1-HYDROCINNAMOHYDROXIM-ATENO-(HYDROGEN SULFATE), β-d- □ β-d-GLUCOPYRAN-OSE, 1-THIO-, 1-(N-(SULFOOXY)BENZENEPROPANIMIDATE) (9CI) □ PHENETHYLGLUCOSINOLATE □ 1-THIOGLUCO-PYRANOSE 1-HYDROCINNAMOHYDROXIMATE NO-(HYDROGEN SULFATE) β-d-
TOXICITY DATA with REFERENCE:
cyt-ham-ovr 2300 mg/L MUREAV 348,19,95
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PDF750 CAS: 103-48-0 HR: 2
PHENETHYL ISOBUTYRATE
mf: $C_{12}H_{16}O_2$ mw: 192.28

PROP: Colorless to light-yellow liquid; fruity, rosy odor. D: 0.987, refr index: 1.486−1.490, flash p: 212°F. Sol in alc, fixed oils; insol in water @ 230°.
SYNS: BENZYLCARBINOL ISOBUTYRATE □ BENZYLCARBINYL ISOBUTYRATE □ FEMA No. 2862 □ PHENYLETHYL ISOBUTYRATE □ β-PHENYLETHYL ISOBUTYRATE □ 2-PHENYLETHYL ISOBUTYRATE □ 2-PHENYLETHYL-2-METHYLPROPIONATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:5200 mg/kg FCTXAV 16,637,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

PDF775 CAS: 140-26-1 HR: 2
PHENETHYL ISOVALERATE
mf: $C_{13}H_{18}O_2$ mw: 206.31
PROP: Colorless to sltly yellow liquid; fruity, rosy odor. D: 0.973, refr index: 1.484, flash p: 212°F. Sol in alc, fixed oils; insol in water @ 263°.
SYNS: FEMA No. 2871 □ 3-METHYL-BUTANOIC ACID 2-PHENYLETHYL ESTER □ PHENETHYL ESTER ISOVALERIC ACID □ PHENYLETHYL ISOVALERATE □ β-PHENYLETHYL ISOVALERATE □ 2-PHENYLETHYL-3-METHYLBUTYRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:6220 mg/kg VPITAR 33(5),48,74
orl-mus LD50:6220 mg/kg VPITAR 33(5),48,74
orl-gpg LD50:6220 mg/kg VPITAR 33(5),48,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

PDF780 CAS: 24817-51-4 HR: 1
PHENETHYL 2-METHYLBUTYRATE
mf: $C_{13}H_{18}O_2$ mw: 206.31
PROP: Sweet floral and fruity odor.
SYNS: BENZYLCARBINYL 2-METHYLBUTYRATE □ BUTANOIC ACID, 2-METHYL-, 2-PHENYLETHYL ESTER □ BUTYRIC ACID, 2-METHYL-, PHENETHYL ESTER (8CI) □ β-PHENYLETHYL α-METHYLBUTANOATE □ PHENYLETHYL 2-METHYLBUTYRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5 g/kg FCTOD7 26,399,88
skn-rbt LD50:>5 g/kg FCTOD7 26,399,88
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.

PDF790 HR: 2
2-PHENETHYL 2-METHYLBUTYRATE
mf: $C_{13}H_{18}O_2$ mw: 206.28
PROP: Colorless liquid; floral, fruity odor. D: 0.973, refr index: 1.484, flash p: 212°F. Sol in alc, fixed oils; insol in water.
SYN: FEMA No. 3632
SAFETY PROFILE: Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

PDF800 CAS: 2550-26-7 HR: 3
PHENETHYL METHYL KETONE
mf: $C_{10}H_{12}O$ mw: 148.22
PROP: A liquid. D: 0.985 @ 22°/4°, bp: 235°.
SYNS: BENZYLACETONE □ METHYL PHENETHYL KETONE □ METHYL PHENYLETHYL KETONE □ METHYL-2-PHENYLETHYL KETONE □ 4-PHENYLBUTAN-2-ONE □ 4-PHENYL-2-BUTANONE □ β-PHENYLETHYL METHYL KETONE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV FCTOD7 21,647,83
eye-rbt 2000 ppm FCTOD7 21,647,83
orl-rat LD50:3200 mg/kg FCTOD7 21,647,83
orl-mus LD50:1590 mg/kg YHTPAD 15(5),7,80
ipr-mus LD50:583 mg/kg YHTPAD 15(5),7,80
skn-rbt LD50:>5 g/kg FCTOD7 21,647,83
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An eye and severe skin irritant. Flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

PDI000 CAS: 102-20-5 HR: 2
PHENETHYL PHENYLACETATE
mf: $C_{16}H_{16}O_2$ mw: 240.32
PROP: Colorless to sltly yellow liquid above 26°; rosy, hyacinth odor. D: 1.079−1.082, flash p: 212°F. Sol in alc; insol in water.
SYNS: BENZENEACETIC ACID, 2-PHENYLETHYL ESTER □ BENZYLCARBINYL-α-TOLUATE □ FEMA No. 2866 □ PHENYLACETIC ACID, PHENETHYL ESTER □ β-PHENYLETHYL PHENYLACETATE □ 2-PHENYLETHYL PHENYLACETATE □ 2-PHENYLETHYL-α-TOLUATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:15 g/kg FCTXAV 2,327,64
orl-mus LD50:3190 mg/kg VPITAR 33(5),48,74
orl-gpg LD50:3190 mg/kg VPITAR 33(5),48,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

PDI250 CAS: 33384-03-1 HR: 2
N-(p-PHENETHYL)PHENYLACETO-HYDROXAMIC ACID
mf: $C_{16}H_{17}NO_2$ mw: 255.34
SYNS: N-HYDROXY-4-ACETYLAMINOBIBENZYL □ N-HYDROXY-4'-PHENETHYLACETANILIDE
TOXICITY DATA with REFERENCE:
dns-hmn:fbr 100 μmol/L/5H IJCNAW 16,284,75
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PDI500 CAS: 332-14-9 HR: 3
1-PHENETHYLPIPERIDINE
mf: $C_{13}H_{19}N$ mw: 189.33
SYNS: 1-PIPERIDINO-2-PHENYL-AETHAN (GERMAN) □ 1-PIPERIDINO-2-PHENYLETHANE
TOXICITY DATA with REFERENCE:
scu-mus LD50:150 mg/kg ARZNAD 15,126,65
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x.

PDI550 CAS: 40576-25-8 HR: 3
1-PHENETHYL-3-(PIPERIDINOCARBONYL)-PIPERIDINE
mf: $C_{19}H_{28}N_2O$ mw: 300.49
SYNS: KETONE, 1-PHENETHYL-3-PIPERIDYL PIPERIDINO □ 1-PHENETHYL-3-PIPERIDYL PIPERIDINO KETONE □ PIPERIDINE, 1-((1-(2-PHENYLETHYL)-3-PIPERIDINYL)-CARBONYL)-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:148 mg/kg CPBTAL 21,1,73
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.

PDJ000 CAS: 78219-62-2 HR: 3
1-PHENETHYL-4-PIPERIDYL-p-AMINOBENZOATE HYDROCHLORIDE
mf: $C_{20}H_{22}N_2O_2$•ClH mw: 358.90
SYN: p-AMINO-BENZOIC ACID-1-PHENETHYL-4-PIPERIDYL ESTER HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ivn-rat LDLo:13 mg/kg JACSAT 51,922,29
scu-mus LDLo:100 mg/kg JACSAT 51,922,29
SAFETY PROFILE: Poison by intravenous and subcutaneous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also ESTERS.

PDJ250 CAS: 78219-63-3 HR: 3
1-PHENETHYL-4-PIPERIDYL BENZOATE HYDROCHLORIDE
mf: $C_{20}H_{23}NO_2$•ClH mw: 345.90
SYN: BENZOIC ACID-1-PHENETHYL-4-PIPERIDYL ESTER HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ivn-rat LDLo:25 mg/kg JACSAT 51,922,29
scu-mus LDLo:1000 mg/kg JACSAT 51,922,29
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also ESTERS.

PDK000 CAS: 122-70-3 HR: 1
PHENETHYL PROPIONATE
mf: $C_{11}H_{14}O_2$ mw: 178.25
SYNS: BENZYLCARBINYL PROPIONATE □ ENT 18,544 □ 2-PHENYLETHYL PROPIONATE □ PROPANOIC ACID-2-PHENYLETHYL ESTER
TOXICITY DATA with REFERENCE:
orl-rat LD50:4000 mg/kg FCTXAV 12,807,74
skn-rbt LD50:>5 g/kg FCTXAV 12,963,74
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 fumes. See also ESTERS.

PDK200 HR: 2
PHENETHYL SALICYLATE
mf: $C_{15}H_{14}O_3$ mw: 242.27
PROP: White crystals; balsamic odor. Solidification point: 41°, flash p: 212°F. Sol in alc; insol in water.
SYN: FEMA No. 2868
SAFETY PROFILE: Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

PDK300 CAS: 3898-45-1 HR: 2
1-PHENETHYLSEMICARBAZIDE
mf: $C_9H_{13}N_3O$ mw: 179.25
SYNS: SEMICARBAZIDE, 1-PHENETHYL- □ WL 20
TOXICITY DATA with REFERENCE:
scu-mus LD50:1111 mg/kg JOENAK 30,205,64
SAFETY PROFILE: Moderately toxic by subcutaneous route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PDK500 CAS: 3473-12-9 HR: 2
2-PHENETHYL-3-THIOSEMICARBAZIDE
mf: $C_9H_{13}N_3S$ mw: 195.31
SYNS: SEMICARBAZIDE, 2-PHENETHYL-3-THIO- □ WL 19
TOXICITY DATA with REFERENCE:
scu-mus LD50:750 mg/kg JOENAK 30,205,64
SAFETY PROFILE: Moderately toxic by subcutaneous route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

PDK750 CAS: 2158-04-5 HR: 3
PHENETHYLUREA
mf: $C_9H_{12}N_2O$ mw: 164.23
SYN: N-DIMETHYL-N-NITROSOUREA
TOXICITY DATA with REFERENCE:
orl-mus LD50:2500 mg/kg JPPMAB 21,366,69
ipr-mus LD50:328 mg/kg JPETAB 52,211,34
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.

PDK790 CAS: 156-43-4 HR: 3
PHENETIDINE
mf: $C_8H_{11}NO$ mw: 137.20
PROP: A liquid. Mp: 4°, bp: 253°.
SYNS: 4-AMINOETHOXYBENZENE □ p-AMINOFENETOL □ p-AMINOPHENETOLE □ 4-AMINOPHENETOLE □ ANILINE, p-ETHOXY- □ BENZENAMINE, 4-ETHOXY-(9CI) □ p-ETHOXY-ANILINE □ 4-ETHOXYANILINE □ 4-ETHOXYBENZENAMINE □ p-FENETIDIN □ p-PHENETIDIN

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD FCTOD7 20,563,82
eye-rbt 100 mg MOD FCTOD7 20,563,82
eye-rbt 100 mg/45 rns MLD FCTOD7 20,563,82
mma-sat 1 µmol/plate CPBTAL 33,2877,85
dni-ham:lng 160 µmol/L MUTAEX 3,51,88
orl-rat LD50:580 mg/kg GISAAA 35(8),28,70
ihl-rat LCLo:250 mg/m^3 GISAAA 35(8),28,70
orl-mus LD50:530 mg/kg GTPZAB 25(8),50,81
ipr-mus LD50:692 mg/kg JMCMAR 17,900,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion and intraperitoneal routes. Caution: It can be absorbed through the skin. A skin and eye irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PDK800 CAS: 621-33-0 HR: D
m-PHENETIDINE
mf: $C_8H_{11}NO$ mw: 137.20
PROP: Yellow orange liquid. Bp: 248°.
SYNS: BENZENAMINE, 3-ETHOXY-(9CI) □ m-ETHOXYANILINE □ 3-ETHOXYANILINE □ 3-ETHOXYBENZENAMINE
TOXICITY DATA with REFERENCE:
mma-sat 1 mg/plate EMMUEG 11(Suppl 12),1,88
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

PDK819 CAS: 94-70-2 HR: 2
o-PHENETIDINE
mf: $C_8H_{11}NO$ mw: 137.20
PROP: Colorless oily liquid. Mp: −20 bp: 228°.Dissolves in alcohol, ether and olefinic acid, but not in water.
SYNS: 2-AMINOPHENETOLE □ o-ETHOXYANILINE □ 2-ETHOXYANILINE □ 2-PHENETIDINE
TOXICITY DATA with REFERENCE:
orl-mus LDLo:600 mg/kg NYKZAU 52,215,56
orl-rbt LD50:600 mg/kg NYKZAU 52,215,56
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

PDL000 CAS: 63957-36-8 HR: 3
m-PHENETIDINE ANTIMONYL TARTRATE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:16,100 µg(Sb)/kg AJTMAQ 25,263,45
CONSENSUS REPORTS: Antimony and its compounds are on The Community Right-To-Know List.
OSHA PEL: TWA 0.5 mg(Sb)/m^3
ACGIH TLV: TWA 0.5 mg(Sb)/m^3
NIOSH REL: (Antimony): TWA 0.5 mg(Sb)/m^3
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of Sb. See also ANTIMONY COMPOUNDS.

PDL100 CAS: 49720-83-4 HR: 3
o-PHENETIDINE ANTIMONYL TARTRATE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:21,100 µg(Sb)/kg AJTMAQ 25,263,45
CONSENSUS REPORTS: Antimony and its compounds are on The Community Right-To-Know List.
OSHA PEL: TWA 0.5 mg(Sb)/m^3
ACGIH TLV: TWA 0.5 mg(Sb)/m^3
NIOSH REL: (Antimony): TWA 0.5 mg(Sb)/m^3
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of Sb. See also ANTIMONY COMPOUNDS.

PDL500 CAS: 6273-75-2 HR: 3
p-PHENETIDINE ANTIMONYL TARTRATE
mf: $C_{12}H_{16}NO_8Sb{\bullet}H_2O$ mw: 442.06
SYN: p-PHENETIDINANTIMONYLTARTRAT (GERMAN)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:24,900 µg(Sb)/kg AJTMAQ 25,263,45
ivn-mus LDLo:80 mg/kg HBAMAK 4,1289,35
CONSENSUS REPORTS: Antimony and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.5 mg(Sb)/m^3
ACGIH TLV: TWA 0.5 mg(Sb)/m^3
NIOSH REL: (Antimony) TWA 0.5 mg(Sb)/m^3
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and Sb. See also ANTIMONY COMPOUNDS.

PDL750 CAS: 637-56-9 HR: 2
p-PHENETIDINE HYDROCHLORIDE
mf: $C_8H_{11}NO{\bullet}ClH$ mw: 173.66
SYNS: p-AMINOPHENYL ETHYL ETHER HYDROCHLORIDE □ BENZENAMINE, 4-ETHOXY-, HYDROCHLORIDE (9CI) □ 4-ETHOXYANILINE HYDROCHLORIDE □ 4-ETHOXYBENZENAMINE HYDROCHLORIDE □ PHENETIDINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:2080 mg/kg GISAAA 35,28,70
orl-mus LD50:1180 mg/kg GISAAA 35,28,70
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

PDM000 CAS: 103-73-1 HR: 3
PHENETOLE
mf: $C_8H_{10}O$ mw: 122.18
PROP: Colorless liquid. D: 0.967 @ 20°/4°, fp: −28.6°, mp: −30°, bp: 172°, flash p: 145°F. Very insol in water; very sol in alc, ether.
SYNS: BENZENE, ETHOXY- □ ETHER, ETHYL PHENYL □ ETHOXYBENZENE □ ETHYL PHENYL ETHER □ PHENYL ETHYL ETHER
TOXICITY DATA with REFERENCE:
scu-rat LDLo:3500 mg/kg RMSRA6 15,561,1895
orl-mus LD50:2200 mg/kg JPETAB 88,400,46
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Flammable liquid when exposed to heat, sparks, or flame. Can react vigorously with oxidizing materials. To fight fire, use dry chemical, CO_2, foam, spray or mist. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

PDM100 CAS: 6192-36-5 HR: 2
I-PHENETURIDE
mf: $C_{11}H_{14}N_2O_2$ mw: 206.27
SYNS: N-(AMINOCARBONYL)-α-ETHYLBENZENEACETAMIDE (−)- ◻ BENZENEACETAMIDE, N-(AMINOCARBONYL)-α-ETHYL-, (−)- ◻ (−)-PHENETURIDE ◻ UREA, (2-PHENYLBUTYRYL)-, (−)-
TOXICITY DATA with REFERENCE:
orl-mus LD50:1140 mg/kg AIPTAK 122,15,59
SAFETY PROFILE: Moderately toxic by ingestion.

PDM250 CAS: 404-82-0 HR: 3
PHENFLUORAMINE HYDROCHLORIDE
mf: $C_{12}H_{16}F_3N{\bullet}ClH$ mw: 267.75
PROP: A solid. Mp: 166°.
SYNS: N-ETHYL-α-METHYL-m-TRIFLUOROMETHYLPHENETHYLAMINE ◻ N-ETHYL-α-METHYL-m-(TRIFLUOROMETHYL)PHENETHYLAMINE HYDROCHLORIDE ◻ FENFLUORAMINE HYDROCHLORIDE ◻ PONDERAL ◻ PONDERAX ◻ PONDIMIN ◻ 1-(3-TRIFLUOROMETHYLPHENYL)-2-ETHYLAMINOPROPANE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-hmn TDLo:7 mg/kg:EYE,CNS,GIT BMJOAE 1,740,67
orl-rat LD50:69 mg/kg TXAPA9 14,182,69
ipr-rat LD50:90 mg/kg TXAPA9 19,705,71
orl-mus LD50:170 mg/kg THERAP 20,297,65
ivn-mus LD50:90 mg/kg TXAPA9 19,705,71
orl-dog LD50:100 mg/kg TXAPA9 19,705,71
ivn-dog LD50:23 mg/kg TXAPA9 14,182,69
orl-cat LD50:60 mg/kg TXAPA9 19,705,71
orl-rbt LD50:50 mg/kg TXAPA9 19,705,71
ipr-gpg LD50:100 mg/kg TXAPA9 19,705,71
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Human systemic effects by ingestion: mydriasis, change in motor activity, nausea. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits very toxic fumes of F^-, NO_x, and HCl.

PDM500 CAS: 92-43-3 HR: 3
PHENIDONE
mf: $C_9H_{10}N_2O$ mw: 162.21
PROP: Mp: 121°.
SYNS: 1-PHENYL-3-OXOPYRAZOLIDINE ◻ 1-PHENYL-3-PYRAZOLIDINONE ◻ 1-PHENYL-3-PYRAZOLIDONE
TOXICITY DATA with REFERENCE:
orl-rat LD50:200 mg/kg KODAK* -,-,71
ipr-rat LD50:200 mg/kg KODAK* -,-,71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

PDM750 CAS: 577-91-3 HR: 3
PHENIODOL
mf: $C_{15}H_{12}I_2O_3$ mw: 494.07
SYNS: BILIOGNOST ◻ BILISELECTAN ◻ β-(3,5-DIIODO-4-HYDROXYPHENYL)-α-PHENYLPROPIONIC ACID ◻ 3,5-DIIODO-α-PHENYLPHLORETIC ACID ◻ DIKOL ◻ β-(4-HYDROXY-3,5-DIIODOPHENYL)-α-PHENYLPROPIONIC ACID ◻ IODOALPHIONIC ACID ◻ IODOBIL ◻ JODOBIL ◻ β-(4-OXY-3,5-DIJOD-PHENYL)-α-PHENYL-PROPIONSAEURE (GERMAN) ◻ PRIODAX ◻ TENICID
TOXICITY DATA with REFERENCE:
orl-rat LD50:1100 mg/kg KLWOAZ 20,125,41
ipr-rat LD50:510 mg/kg JAPMA8 42,476,53
scu-rat LD50:540 mg/kg KLWOAZ 20,125,41
ivn-rat LD50:390 mg/kg KLWOAZ 20,125,41
ipr-mus LD50:640 mg/kg JAPMA8 42,476,53
ivn-mus LD50:400 mg/kg JMCMAR 13,997,70
orl-cat LDLo:500 mg/kg JLCMAK 27,1376,42
ivn-cat LDLo:100 mg/kg JLCMAK 27,1376,42
ipr-gpg LD50:930 mg/kg JAPMA8 42,476,53
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of I^-.

PDN000 CAS: 55-52-7 HR: 3
PHENIPRAZINE
mf: $C_9H_{14}N_2$ mw: 150.25
SYNS: CASTRON ◻ CATRAL ◻ CATRAN ◻ CATRONIAZIDE ◻ CAVODIL ◻ DICATRON ◻ FENILISOPROPILIDRAZINA ◻ 2-HYDRAZINO-1-PHENYLPROPANE ◻ JB 516 ◻ KATRON ◻ KATRONIAZID ◻ (α-METHYLPHENETHYL)HYDRAZINE ◻ MIRAL ◻ P 1142 ◻ PHENIZINE ◻ 1-PHENYL-2-HYDRAZINOPROPANE ◻ β-PHENYLISOPROPYLHYDRAZINE ◻ PHENYLISOPROPYLHYDRAZINE ◻ PIH ◻ PSICOSTEN ◻ RUN
TOXICITY DATA with REFERENCE:
oms-bcs 10 mmol/L MUREAV 5,343,68
unr-man TDLo:117 mg/kg/2.5Y:EYE BMJOAE 1,331,63
orl-rat LD50:34 mg/kg 27ZQAG -,353,72
ipr-rat LD50:40 mg/kg 27ZQAG -,353,72
scu-rat LD50:45 mg/kg 27ZQAG -,353,72
ivn-rat LD50:44 mg/kg 27ZQAG -,353,72
orl-mus LD50:150 mg/kg JJPAAZ 13,186,63
ipr-mus LD50:48 mg/kg JJPAAZ 13,186,63
scu-mus LD50:95 mg/kg ANYAA9 80,568,59
ivn-mus LD50:12 mg/kg ARZNAD 12,352,62
scu-cat LDLo:30 mg/kg JPETAB 128,7,60
ivn-cat LDLo:30 mg/kg JPETAB 128,7,60
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Human systemic effects by an unspecified route: visual field effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PDN250 CAS: 66-05-7 HR: 3
PHENIPRAZINE HYDROCHLORIDE
mf: $C_9H_{14}N_2{\bullet}ClH$ mw: 186.71
PROP: A solid. Mp: 122−124°.
SYNS: CATRON HYDROCHLORIDE ◻ CATRONIACID ◻ JB 516 ◻ (1-METHYL-2-PHENYLETHYL)-HYDRAZINEIUM CHLORIDE ◻ PHENYLISOPROPYLHYDRAZINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
orl-mus LD50:59 mg/kg IJNEAQ 5,125,66
ipr-mus LD50:112 mg/kg JMCMAR 18,20,75
scu-mus LD50:87 mg/kg IJNEAQ 5,125,66
ivn-mus LD50:66 mg/kg IJNEAQ 5,125,66
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic fumes of Cl^-, NO_x, and HCl.

PDN500 CAS: 537-05-3 HR: 3
PHENODIANISYL HYDROCHLORIDE
mf: $C_{23}H_{25}N_3O_3$•ClH mw: 427.97
PROP: Crystals, odorless. Mp: 176°. Very sol in alc; insol in water, oils.
SYNS: ACOINE □ AKOIN HYDROCHLORID (GERMAN) □ N,N'-BIS(4-METHOXYPHENYL)-N"-(4-ETHOXYPHENYL)-GUANIDINE HYDROCHLORIDE □ α,γ-DI-p-ANISYL-β-(ETHOXYPHENYL)GUANIDINE HYDROCHLORIDE □ DIANISYL-MONOPHENETHYLGUANIDINE HYDROCHLORIDE □ DIPARAANISYL-MONOPHENETHYL-GUANIDIN-HYDROCHLORID (GERMAN) □ 2-(4-ETHOXYPHENYL)-1,3-BIS(4-METHOXYPHENYL)GUANIDINE HYDROCHLORIDE □ GUANICAINE □ PHENODIANISYL
TOXICITY DATA with REFERENCE:
scu-mus LDLo:300 mg/kg HDTU** -,-,33
ivn-mus LDLo:53 mg/kg WDMU** -,-,36
orl-dog LDLo:75 mg/kg HBAMAK 4,1291,35
scu-rbt LDLo:150 mg/kg MEIEDD 10,1043,83
scu-gpg LDLo:150 mg/kg HBAMAK 4,1291,35
SAFETY PROFILE: Poison by ingestion, intravenous, and subcutaneous routes. Solutions are decomposed by light. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

PDN750 CAS: 108-95-2 HR: 3
PHENOL
DOT: UN 1671/UN 2312/NA 2821
mf: C_6H_6O mw: 94.12
PROP: Deliquescent needles or white, crystalline mass that turns pink or red if not perfectly pure; burning taste, distinctive odor. Mp: 43°, fp: 41°, bp: 90.2° @ 25 mm, flash p: 175°F (CC), d: 1.072, autoign temp: 1319°F, vap press: 1 mm @ 40.1°, vap d: 3.24. Sol in water; misc in alc and ether. IDLH 250 ppm
SYNS: ACIDE CARBOLIQUE (FRENCH) □ BAKER'S P AND S LIQUID and OINTMENT □ BENZENOL □ CARBOLIC ACID □ CARBOLSAEURE (GERMAN) □ FENOL (DUTCH, POLISH) □ FENOLO (ITALIAN) □ HYDROXYBENZENE □ MONO-HYDROXYBENZENE □ MONOPHENOL □ NCI-C50124 □ OXYBENZENE □ PHENIC ACID □ PHENOL, molten (DOT) □ PHENOL ALCOHOL □ PHENOLE (GERMAN) □ PHENYL HYDRATE □ PHENYL HYDROXIDE □ PHENYLIC ACID □ PHENYLIC ALCOHOL □ RCRA WASTE NUMBER U188
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV BIOFX* 27-4/73
skn-rbt 535 mg open SEV UCDS** 1/6/66
eye-rbt 5 mg SEV UCDS** 1/6/66
oms-hmn:hla 17 mg/L WATRAG 19,577,85
dns-rat-orl 4 g/kg JJIND8 74,1283
orl-inf LDLo:10 mg/kg 34ZIAG -,463,69
orl-hmn LDLo:14 g/kg 34ZIAG -,463,69
orl-hmn LDLo:140 mg/kg 29ZWAE -,329,68
orl-rat LD50:317 mg/kg PSEBAA 32,592,35
ihl-rat LC50:316 mg/m^3 GISAAA 41(6),103,76
skn-rat LD50:669 mg/kg BJIMAG 27,155,70
scu-rat LD50:460 mg/kg TOIZAG 10,1,63
orl-mus LD50:270 mg/kg GISAAA 38(8),6,73
ihl-mus LC50:177 mg/m^3 GISAAA 41(6),103,76
ivn-mus LD50:112 mg/kg QJPPAL 12,212,39
orl-dog LDLo:500 mg/kg HBAMAK 4,1319,35
orl-cat LDLo:80 mg/kg HBAMAK 4,1319,35
scu-cat LDLo:80 mg/kg JPETAB 80,233,44
skn-rbt LD50:850 mg/kg AIHAAP 37(10),596,76
par-rbt LDLo:300 mg/kg RMSRA6 15,561,1895
ipr-gpg LDLo:300 mg/kg HBTXAC 1,228,56
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (oral); No Evidence: mouse, rat NCITR* NCI-CG-TR-203,80. EPA Extremely Hazardous Substances List. Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 5 ppm (skin)
ACGIH TLV: TWA 5 ppm (skin); BEI: 250 mg(total phenol)/g creatinine in urine at end of shift; Not Classifiable as a Human Carcinogen
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans; BAT: 300 mg/L at end of shift
NIOSH REL: (Phenol) TWA 20 mg/m^3; CL 60 mg/m^3/15M
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Human poison by ingestion. An experimental poison by ingestion, subcutaneous, intravenous, parenteral, and intraperitoneal routes. Moderately toxic by skin contact. A severe eye and skin irritant. Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. An experimental teratogen. Absorption of phenolic solutions through the skin may be very rapid, and can cause death within 30 minutes to several hours by exposure of as little as 64 square inches of skin. Lesser exposures can cause damage to the kidneys, liver, pancreas, and spleen, and edema of the lungs. Ingestion can cause corrosion of the lips, mouth, throat, esophagus, and stomach, and gangrene. Ingestion of 1.5 g has killed. Chronic exposures can cause death from liver and kidney damage. Dermatitis resulting from contact with phenol or phenol-containing products is fairly common in industry. A common air contaminant.

Combustible when exposed to heat, flame, or oxidizers. Potentially explosive reaction with aluminum chloride + nitromethane (at 110°C/100 bar), formaldehyde, peroxydisulfuric acid, peroxymonosulfuric acid, sodium nitrite + heat. Violent reaction with aluminum chloride + nitrobenzene (at 120°C), sodium nitrate + trifluoroacetic acid, butadiene. 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.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #32 or NIOSH: Phenol, 3502; Phenol and p-Cresol in Urine, 8305.

PDN800 CAS: 55720-14-4 HR: D

PHENOL, 2-(((2-ANILINO-5-NITROPHENYL)-IMINO)METHYL)-6-METHOXY-
mf: $C_{20}H_{17}N_3O_4$ mw: 363.40
SYNS: 2-(((2-ANILINO-5-NITROPHENYL)IMINO)METHYL)-6-METHOXYPHENOL □ 4-NITRO-2-(2'-OXY-3'-METHOXY-BENZYLIDENAMINO)DIPHENYLAMINE □ PHENOL, 2-METHOXY-6-(((5-NITRO-2-(PHENYLAMINO)-PHENYL)IMINO)METHYL)-
TOXICITY DATA with REFERENCE:
mic-bcs 10 mmol/L FAVUAI 6,118,1974
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

PDO250 CAS: 98-14-6 HR: 3
PHENOL-p-ARSONIC ACID
mf: $C_6H_7AsO_4$ mw: 218.05
PROP: White powder or yellow prisms from AcOH or Me_2CO. Mp: 177−178° decomp. Very sol in H_2O, EtOH; spar sol in Me_2CO, Et_2O, EtOAc; sol in H_2O, EtOH.
SYNS: p-HYDROXYBENZENEARSONIC ACID □ p-HYDROXYPHENYLARSONIC ACID □ OXARSANILIC ACID
TOXICITY DATA with REFERENCE:
orl-rat LDLo:450 mg/kg JPETAB 63,122,38
ivn-rat LDLo:100 mg/kg JPETAB 63,122,38
ims-rat LDLo:90 mg/kg JPETAB 63,122,38
ivn-mus LD50:56 mg/kg CSLNX* NX#04548
CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.5 mg(As)/m^3
SAFETY PROFILE: Poison by intravenous and intramuscular routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of As. See also ARSENIC COMPOUNDS.

PDO275 CAS: 8002-06-0 HR: 2
PHENOL, CAMPHORATED
mf: $C_{10}H_{16}O{\bullet}C_6H_6O$ mw: 246.38
SYNS: BICYCLO(2.2.1)HEPTAN-2-ONE, 1,7,7-TRIMETHYL-, MIXT. WITH PHENOL □ CAMPHO-PHENIQUE □ CARBOLATED CAMPHOR □ PHENOLATED CAMPHOR
TOXICITY DATA with REFERENCE:
mor-ham-emb 10 ppm SHIGAZ 74,1365,1987
dns-ham-emb 300 ppm SHIGAZ 74,1365,1987
sce-ham-emb 10 ppm SHIGAZ 74,1365,1987
orl-man TDLo:629 µL/kg:EYE,CNS,GIT SMJOAV 90,647,1997
orl-mus LD50:775 mg/kg NIIRDN-,1077,1995
SAFETY PROFILE: Moderately toxic by ingestion. Human systemic effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

PDO300 CAS: 1464-44-4 HR: 2
PHENOL GLUCOSIDE
mf: $C_{12}H_{16}O_6$ mw: 256.28
PROP: White powder. Mp: 176−178°.
SYNS: GLUCOPYRANOSIDE, PHENYL-, β-D- □ β-D-GLUCOPYRANOSIDE, PHENYL- □ PHENYL β-D-GLUCOPYRANOSIDE □ PHENYL β-D-GLUCOSIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:980 mg/kg NYKZAU 49,84,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

PDO750 CAS: 77-09-8 HR: 3
PHENOLPHTHALEIN
mf: $C_{20}H_{14}O_4$ mw: 318.34
PROP: Small crystals or needles. Mp: 258−262°, d: 1.299. Very sol in chloroform; sltly sol in water.
SYNS: AGORAL □ 3,3-BIS(p-HYDROXYPHENYL)PHTHALIDE □ α-DI(p-HYDROXYPHENYL)PHTHALIDE □ DIHYDROXY-PHTHALOPHENONE □ EUCHESSINA □ EVAC-Q-KIT □ EVAC-Q-KWIK □ EVAC-U-GEN □ FEEN-A-MINT GUM □ FENOLFTALEIN □ 1(3H)-ISOBENZOFURANONE, 3,3-BIS(4-HYDROXYPHENYL)- □ KOPROL □ LAXOGEN □ LILO □ NCI-C55798 □ PHTHALIDE 3,3,-BIS(p-HYDROXYPHENYL)- □ PHTHALIMETTEN □ PRULET □ PURGA □ PURGEN □ PURGOPHEN □ SPULMAKO-LAX □ TRILAX
TOXICITY DATA with REFERENCE:
orl-man TDLo:29 mg/kg:GIT,SYS PGMJAO 60,491,84
orl-rat LD:>1 g/kg NCNSA6 5,25,53
ipr-rat LDLo:500 mg/kg NCNSA6 5,30,53
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Confirmed carcinogen. US Food and Drug Administration recommends removal from laxative formulations. Moderately toxic by intraperitoneal route. Human systemic effects: changes in urine composition, gastritis, nausea or vomiting. Used in medicine as a laxative; in chemistry as an indicator. When heated to decomposition it emits acrid smoke and irritating fumes.

PDO775 CAS: 81-92-5 HR: 3
PHENOLPHTHALOL
mf: $C_{20}H_{18}O_3$ mw: 306.36
SYN: BENZENEMETHANOL, 2-(BIS(4-HYDROXYPHENYL)-METHYL)-
TOXICITY DATA with REFERENCE:
scu-rat TDLo:160 mg/kg/18H JAFCAU 18,1108,1970
SAFETY PROFILE: A poison by subcutaneous route. When heated to decomposition it emits acrid smoke and irritating vapors.

PDO800 CAS: 143-74-8 HR: 2
PHENOLSULFONPHTHALEIN
mf: $C_{19}H_{14}O_5S$ mw: 354.39
PROP: Pink to crimson powder. Mp: 218°. Sltly sol in water.
SYNS: FENOLIPUNA □ PHENOL, 4,4'-(3H-2,1-BENZOXA-THIOL-3-YLIDENE)BIS-, S,S-DIOXIDE (9CI) □ PHENOL, 4,4'-(3H-2,1-BENZOXATHIOL-3-YLIDENE)DI-, S,S-DIOXIDE □ PHENOL RED □ PHENOLSULFONEPHTHALEIN □ PHENOLSULPHO-NPHTHALEIN □ PSP □ PSP (INDICATOR) □ SULFONPHTHAL □ SULPHENTAL □ SULPHONTHAL
TOXICITY DATA with REFERENCE:
mmo-sat 1 mg/plate AEMIDF 42,641,81
orl-rat LD50:>600 mg/kg CTOXAO 4(2),185,71
ivn-rat LD50:752 mg/kg DRUGAY -,930,90
ivn-mus LD50:1368 mg/kg DRUGAY -,930,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. Mutation data reported. When heated to decomposition it emits toxic vapors of SO_x.

PDO900 CAS: 3627-49-4 HR: 3
PHENOPERIDINE HYDROCHLORIDE
mf: $C_{23}H_{29}NO_3$•ClH mw: 403.99
SYNS: PIPERIDINE, 4-CARBETHOXY-1-(3-HYDROXY-3-PHENYLPROPYL)-4-PHENYL-, HYDROCHLORIDE □ 4-PHENYL-4-CARBETHOXY-1-(3-HYDROXY-3-PHENYL-PROPYL)PIPERIDINE HYDROCHLORIDE □ ISONIPECOTIC ACID, 1-(3-HYDROXY-3-PHENYLPROPYL)-4-PHENYL-, ETHYL ESTER, HYDROCHLORIDE □ 4-PIPERIDINECARBOXYLIC ACID, 1-(3-HYDROXY-3-PHENYLPROPYL)-4-PHENYL-, ETHYL ESTER, HCL □ SC-9369
TOXICITY DATA with REFERENCE:
ipr-mus LD50:64 mg/kg 27ZQAG-,299,1972
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl^-.

PDP100 CAS: 63496-48-0 HR: 2
PHENOSMOLIN
SYN: FENOSMOLIN
TOXICITY DATA with REFERENCE:
orl-rat LD50:1200 mg/kg VETNAL 57(8),29,81
orl-mus LD50:1646 mg/kg VETNAL 57(8),29,81
skn-mus LD50:7500 mg/kg VETNAL 57(8),29,81
SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. When heated to decomposition it emits acrid smoke and irritating fumes.

PDP250 CAS: 92-84-2 HR: 3
PHENOTHIAZINE
mf: $C_{12}H_9NS$ mw: 199.28
PROP: Yellow plates, rhombic leaflets, or diamond-shaped plates from toluene or butanol. Mp: 182°, sublimes at 130° at 1 mm, bp: 371°. Freely sol in benzene; sol in ether, hot acetic acid; sltly sol in alc and in mineral oils; practically insol in pet ether, chloroform, water.
SYNS: AFI-TIAZIN □ AGRAZINE □ ANTIVERM □ BIVERM □ CONTAVERM □ DIBENZOPARATHIAZINE □ DIBENZO-THIAZINE □ DIBENZO-1,4-THIAZINE □ ENT 38 □ FEENO □ FENOTHIAZINE (DUTCH) □ FENOTIAZINA (ITALIAN) □ FENOVERM □ FENTIAZIN □ HELMETINA □ LETHELMIN □ NEMAZENE □ NEMAZINE □ ORIMON □ PADOPHENE □ PENTHAZINE □ PHENEGIC □ PHENOSAN □ PHENOVERM □ PHENOVIS □ PHENOXUR □ PHENTHIAZINE □ RECONOX □ SOUFRAMINE □ THIODIFENYLAMINE (DUTCH) □ THIODI-PHENYLAMIN (GERMAN) □ THIODIPHENYLAMINE □ TIODIFENILAMINA (ITALIAN) □ VERMITIN □ WURM-THIONAL □ XL-50
TOXICITY DATA with REFERENCE:
orl-chd LDLo:425 mg/kg/5D LANCAO 242,86,42
orl-mus LD50:5000 mg/kg DNEUD5 7,45,80
ivn-mus LD50:178 mg/kg CSLNX* NX#00586
CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 5 mg/m^3 (skin)
ACGIH TLV: TWA 5 mg/m^3 (skin)
NIOSH REL: (Phenothiazine) TWA 5 mg/m^3 (skin)
SAFETY PROFILE: Poison by intravenous route. Moderately toxic to humans by ingestion. Experimental reproductive effects. An insecticide. Large doses, i.e., heavy exposure, may cause hemolytic anemia and toxic degeneration of the liver. Can cause skin irritation and photosensitization. Dangerous; when heated to decomposition or on contact with acid or acid fumes it emits highly toxic fumes of SO_x and NO_x.

PDP500 CAS: 13764-35-7 HR: 3
PHENOTHIAZINE-10-CARBODITHIOIC ACID-2-(DIETHYLAMINO)ETHYL ESTER
mf: $C_{19}H_{22}N_2S_3$ mw: 374.61
SYNS: DIETHYLAMINOETHYLPHENO-THIAZINYL-10-DITHIOCARBOXYLATE □ PHENOTHIAZINYL-10-DITHIA-CARBOXYLATE de DIETHYLAMINOETHYLE (FRENCH)
TOXICITY DATA with REFERENCE:
orl-rat LD50:2000 mg/kg CRSBAW 154,965,60
scu-rat LD50:2000 mg/kg CRSBAW 154,965,60
orl-mus LD50:400 mg/kg CRSBAW 154,965,60
ipr-mus LD50:130 mg/kg CRSBAW 154,965,60
scu-mus LD50:800 mg/kg CRSBAW 154,965,60
ivn-mus LD50:85 mg/kg CRSBAW 154,965,60
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also ESTERS.

PDP600 CAS: 15904-73-1 HR: 1
10H-PHENOTHIAZINE-10-PROPANAMINE, 3-METHOXY-N,N,β-TRIMETHYL-
mf: $C_{19}H_{24}N_2OS$ mw: 328.51
SYNS: 10-(3-(DIMETHYLAMINO)-2-METHYLPROPYL)-3-METHOXYPHENOTHIAZINE □ 10-(3'-DIMETHYLAMINO-2'-METHYL-1'-PROPYL)-3-METHOXYPHENOTHIAZINE □ PHENOTHIAZINE, 10-(3-(DIMETHYLAMINO)-2-METHYLPROPYL)-3-METHOXY-
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg MLD FCTOD7 20,573,82
eye-rbt 100 mg/30S RNS MLD FCTOD7 20,573,82
SAFETY PROFILE: An eye irritant. When heated to decomposition it emits toxic fumes of SO_x.

PDQ750 CAS: 262-20-4 HR: 3
PHENOXATHRIN
mf: $C_{12}H_8OS$ mw: 200.26
PROP: Plates from MeOH. Mp: 59°, bp: 185−187° @ 23 mm.
SYNS: DIBENZOTHIOXIN □ 1,4-DIBENZOTHIOXINE □ PHENOTHIOXIN □ PHENOXATHINE □ PHENOXTHIN □ USAF DO-17
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 toxic fumes of SO_x.

PDR000 CAS: 2120-70-9 HR: 1

PHENOXYACETALDEHYDE
mf: $C_8H_8O_2$ mw: 136.16
PROP: Crystals. Mp: 38°, bp: 215° (decomp).
SYN: CORTEX ALDEHYDE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 14,659,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

PDR100 CAS: 122-59-8 HR: 3
PHENOXYACETIC ACID
mf: $C_8H_8O_3$ mw: 152.16
PROP: Needles from water. Mp: 98°; bp: 285° (some decomposition). One gram dissolves in about 75 mL water. Freely sol in alc, ether, benzene, carbon disulfide, glacial acetic acid.
SYNS: GLYCOLIC ACID PHENYL ETHER □ GLYCOLLIC ACID PHENYL ETHER □ PHENOXYETHANOIC ACID □ o-PHENYL-GLYCOLIC ACID □ PHENYLIUM
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 17,887,79
orl-rat LD50:1500 mg/kg JACTDZ 1,94,90
ipr-rat LD50:323 mg/kg FCTXAV 17,887,79
orl-mus LD50:3750 mg/kg GISAAA 46(1),25,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

PDR200 CAS: 32852-92-9 HR: 1
3-PHENOXYACETOPHENONE
mf: $C_{14}H_{12}O_2$ mw: 212.26
SYNS: ACETOPHENONE, 3'-PHENOXY- □ ETHANONE, 1-(3-PHENOXYPHENYL)-(9CI) □ m-PHENOXYACETOPHENONE □ 3'-PHENOXYACETOPHENONE □ 1-(3-PHENOXYPHENYL)-ETHANONE
TOXICITY DATA with REFERENCE:
orl-rat LD50:4160 mg/kg KSRNAM 14,4395,80
orl-mus LD50:6177 mg/kg KSRNAM 14,4395,80
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PDR250 CAS: 4279-76-9 HR: 3
PHENOXYACETYLENE
mf: C_8H_6O mw: 118.14
PROP: Bp: 64−65° @ 20 mm.
SAFETY PROFILE: Explodes on rapid heating. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.

PDR490 CAS: 2688-84-8 HR: 3
o-PHENOXYANILINE
mf: $C_{12}H_{11}NO$ mw: 185.24
PROP: Tan crystalline solid. Bp: 170° @ 18mm, mp: 47−49°. Flash pt: >230.
SYNS: 2-ADE □ 2-AMINODIPHENYL ETHER □ o-AMINO-PHENYL PHENYL ETHER □ 2-AMINOPHENYL PHENYL ETHER □ ANILINE, 2-PHENOXY- □ ANILINE, o-PHENOXY-(8CI) □ BENZENAMINE, 2-PHENOXY-(9CI) □ 2-PHENOXYANILINE □ 2-PHENOXYBENZENAMINE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:212 mg/kg TXCYAC 8,347,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

PDR500 CAS: 139-59-3 HR: 1
p-PHENOXYANILINE
mf: $C_{12}H_{11}NO$ mw: 185.24
PROP: Needles from H_2O. Mp: 83−84°, bp: 187−189° @ 14 mm.
SYNS: 4-AMINOBIPHENYL ETHER □ 4-AMINODIFENYL-ETHER □ 4-AMINODIPHENYL ETHER □ p-AMINOPHENYL PHENYL ETHER □ 4-AMINOPHENYL PHENYL ETHER □ BENZENAMINE, 4-PHENOXY-(9CI) □ 4-PHENOXYANILINE □ 4-PHENOXYBENZENAMINE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK -,119,72
eye-rbt 100 mg/24H MOD 28ZPAK -,119,72
mmo-sat 25 µg/plate MUREAV 67,123,79
mma-sat 25 µg/plate MUREAV 67,123,79
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also ETHERS.

PDR600 CAS: 39515-51-0 HR: 2
3-PHENOXYBENZALDEHYDE
mf: $C_{13}H_{10}O_2$ mw: 198.23
SYNS: BENZALDEHYDE, 3-PHENOXY- □ m-PHENOXYBENZ-ALDEHYDE □ m-(PHENYLOXY)BENZALDEHYDE
TOXICITY DATA with REFERENCE:
ipr-mus LD:>500 mg/kg JAFCAU 26,954,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

PDR603 CAS: 2243-42-7 HR: 3
o-PHENOXYBENZOIC ACID
mf: $C_{13}H_{10}O_3$ mw: 214.22
SYN: BENZOIC ACID, 2-PHENOXY-
TOXICITY DATA with REFERENCE:
ivn-rat TDLo:10,711 µg/kg BIPBU* 25,686,2002
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

PDR605 CAS: 2215-77-2 HR: 3
p-PHENOXYBENZOIC ACID

mf: $C_{13}H_{10}O_3$ mw: 214.22
SYN: BENZOIC ACID, 4-PHENOXY-
TOXICITY DATA with REFERENCE:
ivn-rat TDLo:10,711 µg/kg BIPBU* 25,686,2002
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

PDR610 CAS: 51632-16-7 HR: 2
3-PHENOXYBENZYL BROMIDE
mf: $C_{13}H_{11}BrO$ mw: 263.15
SYNS: BENZENE, 1-(BROMOMETHYL)-3-PHENOXY- □ 1-(BROMOMETHYL)-3-PHENOXYBENZENE □ m-(BROMOMETHYL)PHENYL PHENYL ETHER □ m-PHENOXYBENZYL BROMIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:2326 mg/kg NTIS** OTS0537681
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Br^-.

PDR650 CAS: 53874-66-1 HR: 2
3-PHENOXYBENZYL CHLORIDE
mf: $C_{13}H_{11}ClO$ mw: 218.69
PROP: Liquid. Bp: 141−142°, d: 1.189 g/ml 25°. Flash pt: >230° F.
SYNS: BENZENE, 1-(CHLOROMETHYL)-3-PHENOXY- □ 1-(CHLOROMETHYL)-3-PHENOXYBENZENE □ m-PHENOXYBENZYL CHLORIDE □ 3-PHENOXYPHENYLMETHYL CHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1224 mg/kg GISAAA 56(2),16,91
skn-rat LD50:5723 mg/kg GISAAA 55(7),93,90
orl-mus LD50:1666 mg/kg GISAAA 56(2),16,91
orl-gpg LD50:1250 mg/kg GISAAA 55(7),93,90
SAFETY PROFILE: Moderately toxic by ingestion. A combustible liquid. When heated to decomposition it emits toxic vapors of Cl^-.

PDR660 CAS: 51629-13-1 HR: 2
3′-PHENOXYBENZYL α-ETHYL-4-METHOXYPHENYLACETATE
mf: $C_{24}H_{24}O_4$ mw: 376.48
SYNS: BENZENEACETIC ACID, α-ETHYL-4-METHOXY-, (3-PHENOXYPHENYL)METHYL ESTER □ (3-PHENOXYPHENYL)-METHYL α-ETHYL-4-METHOXYBENZENEACETATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:>1 g/kg USXXAM #4062968
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PDR664 CAS: 51628-37-6 HR: 2
3′-PHENOXYBENZYL α-ETHYLPHENYL-ACETATE
mf: $C_{23}H_{22}O_3$ mw: 346.45
SYNS: BENZENEACETIC ACID, α-ETHYL-, (3-PHENOXYPHENYL)METHYL ESTER □ (3-PHENOXYPHENYL)METHYL α-ETHYLBENZENEACETATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:>1 g/kg USXXAM #4062968
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PDR666 CAS: 51629-15-3 HR: 2
3′-PHENOXYBENZYL α-ISOPROPENYL-4-METHOXYPHENYLACETATE
mf: $C_{25}H_{24}O_4$ mw: 388.49
SYNS: BENZENEACETIC ACID, 4-METHOXY-α-(1-METHYLETHENYL)-, (3-PHENOXYPHENYL)METHYL ESTER □ (3-PHENOXYPHENYL)METHYL 4-METHOXY-α-(1-METHYL-ETHENYL)BENZENEACETATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:>1 g/kg USXXAM #4062968
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PDR668 CAS: 51629-54-0 HR: 2
3′-PHENOXYBENZYL α-ISOPROPENYL-4-METHYLPHENYLACETATE
mf: $C_{25}H_{24}O_3$ mw: 372.49
SYNS: BENZENEACETIC ACID, 4-METHYL-α-(1-METHYLETHENYL)-, (3-PHENOXYPHENYL)METHYL ESTER □ (3-PHENOXYPHENYL)METHYL 4-METHYL-α-(1-METHYLETHENYL)-BENZENEACETATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:>1 g/kg USXXAM #4062968
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PDR670 CAS: 51629-48-2 HR: 2
3′-PHENOXYBENZYL α-ISOPROPYL-4-CHLOROPHENYLACETATE
mf: $C_{24}H_{21}ClO_3$ mw: 392.90
SYNS: BENZENEACETIC ACID, 4-CHLORO-α-(1-METHYL-ETHENYL)-, (3-PHENOXYPHENYL)METHYL ESTER □ (3-PHENOXYPHENYL)METHYL 4-CHLORO-α-(1-METHYLETHEN-YL)BENZENEACETATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:>1 g/kg USXXAM #4062968
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Cl^-.

PDR675 CAS: 51628-95-6 HR: 2
3′-PHENOXYBENZYL α-ISOPROPYL-4-METHOXYPHENYLACETATE
mf: $C_{25}H_{26}O_4$ mw: 390.51
SYNS: BENZENEACETIC ACID, 4-METHOXY-α-(1-METHYLETHYL)-, (3-PHENOXYPHENYL)METHYL ESTER □ (3-PHENOXYPHENYL)METHYL 4-METHOXY-α-(1-METHYLETHYL)BENZENEACETATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:>1 g/kg USXXAM #4062968
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PDR680 CAS: 51629-37-9 HR: 2
3′-PHENOXYBENZYL α-ISOPROPYL-4-

METHYLPHENYLACETATE
mf: $C_{25}H_{26}O_3$ mw: 374.51
SYNS: BENZENEACETIC ACID, 4-METHYL-α-(1-METHYLETHYL)-, (3-PHENOXYPHENYL)METHYL ESTER □ (3-PHENOXYPHENYL)METHYL 4-METHYL-α-(1-METHYLETHYL)BENZENEACETATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:>1 g/kg USXXAM #4062968
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PDR700 CAS: 26002-80-2 HR: 1
3-PHENOXYBENZYL D-Z/E CHRYSANTHEMATE
mf: $C_{23}H_{26}O_3$ mw: 350.49
PROP: Pale yellow to yellow brown liquid. Insol in water.
SYNS: CYCLOPROPANECARBOXYLIC ACID, 2,2-DIMETHYL-3-(2-METHYLPROPENYL)-, m-PHENOXYBENZYL ESTER □ MULTICIDE 2154 □ OMS 1809 □ OMS 1810 □ PHENOTHRIN □ PHENOXYTHRIN □ PT 515 □ S 2539 □ SUMITHRIN □ WELLCIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:>10 g/kg YKYUA6 37,1481,86
skn-rat LD50:>5 g/kg JPIFAN (37),30,80
ipr-rat LD50:>5 g/kg JPIFAN (37),30,80
scu-rat LD50:>5 g/kg JPIFAN (37),30,80
orl-mus LD50:10 g/kg YKYUA6 32,47,81
skn-mus LD50:>5 g/kg JPIFAN (37),30,80
CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

PDS250 CAS: 69782-16-7 HR: 3
(4-PHENOXYBUTYL)HYDRAZINE MALEATE
mf: $C_{10}H_{16}N_2O{\bullet}C_4H_4O_4$ mw: 296.36
TOXICITY DATA with REFERENCE:
orl-mus LD50:375 mg/kg JMCMAR 6,63,63
ipr-mus LD50:250 mg/kg JMCMAR 6,63,63
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits fumes of NO_x.

PDS500 CAS: 46231-41-8 HR: 3
(2-PHENOXYETHYL)GUANIDINE
mf: $C_9H_{13}N_3O$ mw: 179.25
TOXICITY DATA with REFERENCE:
orl-mus LD50:750 mg/kg JMCMAR 6,705,63
scu-mus LD50:250 mg/kg JMCMAR 6,705,63
ivn-mus LD50:44,096 µg/kg BCPCA6 12,229,63
SAFETY PROFILE: Poison by subcutaneous and intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x.

PDS750 CAS: 4230-21-1 HR: 3
(2-PHENOXYETHYL)HYDRAZINE HYDROCHLORIDE
mf: $C_8H_{12}N_2O{\bullet}ClH$ mw: 188.68
TOXICITY DATA with REFERENCE:
orl-mus LD50:200 mg/kg JMCMAR 6,63,63
ipr-mus LD50:200 mg/kg JMCMAR 6,63,63
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Cl^-, NO_x, and HCl.

PDS900 CAS: 103-60-6 HR: 2
PHENOXYETHYL ISOBUTYRATE
mf: $C_{12}H_{16}O_3$ mw: 208.28
PROP: Colorless liquid; honey, roselike odor. D: 1.044, refr index: 1.492, flash p: 212°F. Misc in alc, chloroform, ether; insol in water.
SYNS: FEMA No. 2873 □ ISOBUTYRIC ACID, 2-PHENOXYETHYL ESTER (6CI,8CI) □ PROPANOIC ACID, 2-METHYL-, 2-PHENOXYETHYL ESTER
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5 g/kg FCTXAV 12,955,74
skn-rbt LD50:>5 g/kg FCTXAV 12,955,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

PDS925 CAS: 51628-96-7 HR: 2
5′-PHENOXYFURFURYL α-ISOPROPYL-4-METHOXYPHENYLACETATE
mf: $C_{23}H_{24}O_5$ mw: 380.47
SYNS: BENZENEACETIC ACID, 4-METHOXY-α-(1-METHYLETHYL)-, (5-PHENOXY-2-FURANYL)METHYL ESTER □ (5-PHENOXY-2-FURANYL)METHYL 4-METHOXY-α-(1-METHYLETHYL)BENZENEACETATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:>1 g/kg USXXAM #4062968
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PDT250 CAS: 59-96-1 HR: 3
N-PHENOXYISOPROPYL-N-BENZYL-β-CHLOROETHYLAMINE
mf: $C_{18}H_{22}ClNO$ mw: 303.86
PROP: Crystals from pet ether. Mp: 38−49°. Sol in C_6H_6.
SYNS: A 688 □ BENSYLYTE □ 2-(N-BENZYL-2-CHLOROETHYLAMINO)-1-PHENOXYPROPANE □ BENZYL(2-CHLOROETHYL)-(1-METHYL-2-PHENOXYETHYL)AMINE □ BENZYLT □ N-(2-CHLOROETHYL)-N-(1-METHYL-2-PHENOXYETHYL)-BENZENEMETHANAMINE □ N-(2-CHLOROETHYL)-N-(1-METHYL-2-PHENOXYETHYL)BENZYLAMINE □ DIBENYLIN □ DIBENYLINE □ DIBENZYLINE □ NSC-37448 □ PHENOXYBENZAMINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:2500 mg/kg 27ZIAQ -,-,65
ice-rat LD50:3400 µg/kg AITEAT 24,223,76
orl-mus LD50:1535 mg/kg 27ZIAQ -,195,73
ivn-dog LDLo:10 mg/kg 27ZIAQ -,195,73
orl-gpg LD50:500 mg/kg 27ZIAQ -,195,73
CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 24,185,80; Animal Limited Evidence IMEMDT 9,223,75.
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and neoplastigenic data. Poison

by intravenous and intracerebral routes. Moderately toxic by ingestion. Human reproductive effects by ingestion: spermatogenesis. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

PDT500 CAS: 87-08-1 HR: 3
PHENOXYMETHYLPENICILLIN
mf: $C_{16}H_{18}N_2O_5S$ mw: 350.42
PROP: A solid. Mp: 120−128° (decomp). Sol in H_2O.
SYNS: ACIPEN V ◻ APOPEN ◻ BEROMYCIN ◻ DISTAQUAINE V ◻ ESKACILLIAN V ◻ FENACILIN ◻ FENOSPEN ◻ FENOXYPEN ◻ MEROPENIN ◻ ORACILLIN ◻ ORATREN ◻ OSPEN ◻ PENICILLIN PHENOXYMETHYL ◻ PENICILLIN V ◻ PEN-ORAL ◻ PEN V ◻ PEN-VEE ◻ PHENOPENICILLIN ◻ 6-PHENOXYACETAMIDOPENICILLANIC ACID ◻ PHENOXYMETHYLENEPENICILLINIC ACID ◻ STABICILLIN ◻ V-CIL ◻ V-CILLIN ◻ VEBECILLIN
TOXICITY DATA with REFERENCE:
dni-mus:ast 200 µg/L NEOLA4 22,105,75
oms-mus:ast 200 µg/L NEOLA4 22,105,75
orl-wmn TDLo:10 mg/kg/2D:LIV,MET,SKN LANCAO 2,1297,76
orl-mus LD50:>1500 mg/kg ANTBAL 17,616,72
ipr-mus LD50:12 mg/kg ANTBAL 17,616,72
scu-mus LD50:24 mg/kg ANTBAL 17,616,72
ivn-mus LD50:8 mg/kg ANTBAL 17,616,72
SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. Human systemic effects by ingestion: impaired liver function, dermatitis, fever. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

PDT750 CAS: 132-98-9 HR: 2
d-α-PHENOXYMETHYLPENICILLINATE K SALT
mf: $C_{16}H_{17}N_2O_5S{\bullet}K$ mw: 388.51
PROP: Sol in water.
SYNS: ANTIBIOCIN ◻ APSIN VK ◻ ARCACIL ◻ ARCASIN ◻ BEROMYCIN ◻ BEROMYCIN 400 ◻ BEROMYCIN (penicillin) ◻ BETAPEN-VK ◻ CALCIOPEN K ◻ CLIACIL ◻ COMPOCILLIN-VK ◻ DISTAKAPS V-K ◻ DISTAQUAINE V-K ◻ DOWPEN V-K ◻ DQV-K ◻ FENOXYPEN ◻ ICIPEN ◻ ISOCILLIN ◻ ISPENORAL ◻ LEDERCILLIN VK ◻ MEGACILLIN ORAL ◻ ORACIL-VK ◻ ORAPEN ◻ OSPENEFF ◻ PEDIPEN ◻ PENAGEN ◻ PENCOMPREN ◻ PENICILLIN POTASSIUM PHENOXYMETHYL ◻ PENICILLIN V POTASSIUM ◻ PENICILLIN V POTASSIUM SALT ◻ PEN-VEE-K ◻ PEN-VEE-K POWDER ◻ PENVIKAL ◻ PEN-V-K POWDER ◻ PFIZERPEN VK ◻ PHENOXYMETHYLPENICILLIN POTASSIUM ◻ POTASSIUM PENICILLIN V SALT ◻ POTASSIUM PHENOXYMETHYLPENICILLIN ◻ PVK ◻ QIDPEN VK ◻ ROBICILLIN VK ◻ ROCILLIN-VK ◻ ROSCOPENIN ◻ SK-PENICILLIN VK ◻ STABILLIN VK SYRUP 125 ◻ STABILLIN VK SYRUP 62.5 ◻ SUMAPEN VK ◻ SUSPEN ◻ UTICILLIN VK ◻ V-CIL-K ◻ V-CILLIN K ◻ VEETIDS ◻ VEPEN
TOXICITY DATA with REFERENCE:
cyt-hmn:lym 3 g/L MUTAEX 4,439,89
cyt-ham:ovr 9 g/L NTPTR* NTP-TR-336,88
orl-rat LD50:1040 mg/kg TXAPA9 18,185,71
ims-rat LD50:1124 mg/kg PJPPAA 29,39,77
ipr-mus LD50:1351 mg/kg NIIRDN 6,661,82
ivn-mus LD50:1000 mg/kg ARZNAD 12,751,62
CONSENSUS REPORTS: NTP Carcinogenesis Studies (gavage): No Evidence: Mouse, Rat NTPTR* NTP-TR-336,88. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion, intramuscular, intraperitoneal, and intravenous routes. Human mutation data reported. Questionable carcinogen with no experimental evidence. When heated to decomposition it emits very toxic fumes of NO_x, K_2O, and SO_x. Used as a pharmaceutical and veterinary drug.

PDU250 CAS: 17692-39-6 HR: 3
4-(3-(p-PHENOXYMETHYLPHENYL)PROPYL)-MORPHOLINE
mf: $C_{20}H_{25}NO_2$ mw: 311.46
PROP: Crystals from pet ether. Mp: 52−53°, bp: 238−240° @ 1.1 mm.
SYNS: ERBOCAIN ◻ FOMOCAINE ◻ p-FOMOCAINE ◻ P 652 ◻ PANACAINE ◻ N-(γ-(5-PHENOXYMETHYL-PHENYL)-PROPYL)-MORPHOLIN (GERMAN) ◻ N-(4-(PHENOXYMETHYL)-γ-PHENYL-PROPYL)-MORPHOLIN (GERMAN) ◻ 4-(3-(4-(PHENOXYMETHYL)PHENYL)PROPYL)-MORPHOLINE, (9CI) ◻ 4-(3-(α-PHENOXY-p-TOLYL)PROPYL)-MORPHOLINE
TOXICITY DATA with REFERENCE:
ivn-rat LD50:140 mg/kg ARZNAD 8,539,58
ipr-mus LD50:325 mg/kg ARZNAD 8,539,58
scu-mus LD50:1300 mg/kg ARZNAD 8,539,58
ivn-mus LD50:110 mg/kg ARZNAD 8,539,58
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x.

PEU525 CAS: 55609-55-7 HR: D
2-PHENYL-4,5-DIHYDROIMIDAZO(1,2-A)-QUINOLINE
mf: $C_{17}H_{14}N_2$ mw: 246.33
SYN: IMIDAZO(1,2-A)QUINOLINE, 4,5-DIHYDRO-2-PHENYL-
TOXICITY DATA with REFERENCE:
scu-ham TDLo: 80 mg/kg (female 4-8D post):REP RDMIDP 4,237,1982
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

PDU500 CAS: 69782-01-0 HR: 3
((1-PHENOXYMETHYL)PROPYL)HYDRAZINE HYDROCHLORIDE
mf: $C_{10}H_{16}N_2O{\bullet}ClH$ mw: 216.74
TOXICITY DATA with REFERENCE:
orl-mus LD50:200 mg/kg JMCMAR 6,63,63
ipr-mus LD50:200 mg/kg JMCMAR 6,63,63
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

PDU750 CAS: 39754-64-8 HR: 2
PHENOXYMETHYL-6-TETRAHYDROXAZINE-1,3-THIONE-2
mf: $C_{11}H_{13}NO_2S$ mw: 223.31
SYNS: 6-PHENOXYMETHYL-3,4,5,6-TETRAHYDROXAZINE-1,3 THIONE-2 ◻ 3,4,5,6-TETRAHYDRO-6-PHENOXYMETHYL-2H-

1,3-OXAZINE-2-THIONE □ TETRAHYDRO-6-(PHENOXYMETHYL)-2H-1,3-OXAZINE-2-THIONE □ TIFEMOXONE

TOXICITY DATA with REFERENCE:
orl-rat LD50:2200 mg/kg ATSUDG 1,229,78
orl-mus LDLo:700 mg/kg EJMCA5 11,75,76

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

PDV000 CAS: 69782-09-8 HR: 3
(5-PHENOXYPENTYL)HYDRAZINE MALEATE
mf: $C_{11}H_{18}N_2O{\bullet}C_4H_4O_4$ mw: 310.39

TOXICITY DATA with REFERENCE:
orl-mus LD50:500 mg/kg JMCMAR 6,63,63
ipr-mus LD50:125 mg/kg JMCMAR 6,63,63

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

PDV250 CAS: 713-68-8 HR: 2
m-PHENOXYPHENOL
mf: $C_{12}H_{10}O_2$ mw: 186.22

PROP: A liquid. Bp: 143−146° @ 2 mm.

TOXICITY DATA with REFERENCE:
orl-rat LD50:1211 mg/kg HYSAAV 36,293,71
skn-rat LD50:2750 mg/kg HYSAAV 36,293,71
orl-mus LD50:493 mg/kg HYSAAV 36,293,71
orl-mam LD50:2307 mg/kg GISAAA 45(10),16,80
skn-mam LD50:1057 mg/kg GISAAA 45(10),16,80

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.

PDV300 CAS: 58039-73-9 HR: 2
2-(2-(2-PHENOXYPHENYL)ETHYL)MORPHOLINE (Z)-2-BUTENEDIOATE (2:1)
mf: $C_{36}H_{42}O_4{\bullet}C_4H_4O_4$ mw: 654.86

SYNS: MORPHOLINE, 2-(2-(2-PHENOXYPHENYL)ETHYL)-, (Z)-2-BUTENEDIOATE (2:1) □ 2-(β-(2-PHENOXYPHENYL)ETHYL)-MORPHOLINE HYDROGEN MALEATE (2:1)

TOXICITY DATA with REFERENCE:
orl-mus LD50:1 g/kg USXXAM #4049808

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

PDV330 CAS: 51630-33-2 HR: 2
(3-PHENOXYPHENYL)METHYL 4-CHLORO-α-(1-METHYLETHYL)BENZENEACETATE
mf: $C_{24}H_{23}ClO_3$ mw: 394.92

SYNS: BENZENEACETIC ACID, 4-CHLORO-α-(1-METHYLETHYL)-, (3-PHENOXYPHENYL)METHYL ESTER □ DUO CHONG WEI □ S 5439 □ SQ 5439

TOXICITY DATA with REFERENCE:
orl-mus LD50:>1 g/kg USXXAM #4062968

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

PDV360 CAS: 51630-04-7 HR: 2
(3-PHENOXYPHENYL)METHYL α-ETHYL-4-METHYLBENZENEACETATE
mf: $C_{24}H_{24}O_3$ mw: 360.48

SYN: BENZENEACETIC ACID, α-ETHYL-4-METHYL-, (3-PHENOXYPHENYL)METHYL ESTER

TOXICITY DATA with REFERENCE:
orl-mus LD50:>1 g/kg USXXAM #4062968

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

PDV460 CAS: 770-35-4 HR: 2
1-PHENOXY-2-PROPANOL
mf: $C_9H_{12}O_2$ mw: 152.21

SYNS: PHENOXYISOPROPANOL □ β-PHENOXYISOPROPANOL □ 2-PROPANOL, 1-PHENOXY- □ PROPYLENE PHENOXETOL

TOXICITY DATA with REFERENCE:
orl-rat LD50:2830 mg/kg NTIS** OTS0539745
skn-rbt LD50:>2 g/kg NTIS** OTS0539745

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

PDV700 CAS: 3941-06-8 HR: 3
PHENOXYPROPAZINE MALEATE
mf: $C_9H_{14}N_2O{\bullet}C_4H_4O_4$ mw: 282.33

PROP: Prismatic needles from 2-propanol. Mp: 107−108°.

SYNS: COMPOUND 1275 □ COMPOUND HP1275 □ DRAZINE □ HP 1275 □ HYDRAZINE, (1-METHYL-2-PHENOXYETHYL)-, (Z)-2-BUTENEDIOATE (1:1) (9CI) □ HYDRAZINE, (1-METHYL-2-PHENOXYETHYL)-, MALEATE □ HYDRAZINE, 1-(1-PHENOXY-2-PROPYL)-, MALEATE □ (1-METHYL-2-PHENOXYETHYL)-HYDRAZINE MALEATE □ (1-METHYL-2-PHENOXYETHYL)-HYDRAZINIUM

TOXICITY DATA with REFERENCE:
orl-mus LD50:460 mg/kg 27ZQAG -,402,72
ipr-mus LD50:350 mg/kg JMCMAR 6,63,63

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

PDV725 CAS: 940-31-8 HR: 3
2-PHENOXYPROPIONIC ACID
mf: $C_9H_{10}O_3$ mw: 166.19

SYNS: ACIDE PHENOXY-2-PROPIONIQUE □ PROPIONIC ACID, 2-PHENOXY-

TOXICITY DATA with REFERENCE:
ipr-rat LD50:391 mg/kg TSPMA6 34,121,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PDV750 CAS: 69781-96-0 HR: 3
(3-PHENOXYPROPYL)HYDRAZINE MALEATE
mf: $C_9H_{14}N_2O{\bullet}C_4H_4O_4$ mw: 282.33

TOXICITY DATA with REFERENCE:
orl-mus LD50:250 mg/kg JMCMAR 6,63,63
ipr-mus LD50:250 mg/kg JMCMAR 6,63,63
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

PDW250 CAS: 55837-27-9 HR: 3
4-PHENOXY-3-(PYRROLIDINYL)-5-SULFAMOYLBENZOIC ACID
mf: $C_{17}H_{18}N_2O_5S$ mw: 362.43
PROP: Pale-yellow platelets from MeOH (aq). Mp: 225−227°.
SYNS: 3-(AMINOSULFONYL)-4-PHENOXY-5-(1-PYRROLIDINYL)-BENZOIC ACID □ ARELIZ □ HOE 118 □ PIRETANIDE □ S 73 4118
TOXICITY DATA with REFERENCE:
orl-rbt TDLo:13 mg/kg (female 6-18D post):TER KSRNAM 14,4367,80
orl-rat LD50:5601 mg/kg DRFUD4 2,393,77
ipr-rat LD50:485 mg/kg KSRNAM 14,4254,80
scu-rat LD50:1100 mg/kg KSRNAM 14,4254,80
ivn-rat LD50:700 mg/kg KSRNAM 14,4254,80
orl-mus LD50:2 g/kg KSRNAM 14,4254,80
ipr-mus LD50:700 mg/kg KSRNAM 14,4254,80
scu-mus LD50:660 mg/kg KSRNAM 14,4254,80
ivn-mus LD50:618 mg/kg KSRNAM 14,4254,80
orl-rbt LD50:960 mg/kg KSRNAM 14,4254,80
ivn-rbt LD50:178 mg/kg KSRNAM 14,4254,80
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. Used as a diuretic agent. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

PDW400 CAS: 50-60-2 HR: 3
PHENTALAMINE
mf: $C_{17}H_{19}N_3O$ mw: 281.39
PROP: Crystals. Mp: 174−175°.
SYNS: C 7337 CIBA □ 2-((N-(m-HYDROXYPHENYL)-p-TOLUIDINO)METHYL)-2-IMIDAZOLINE □ 2-(m-HYDROXY-N-p-TOLYLANILINOMETHYL)-2-IMIDAZOLINE □ PHENOTOLAMINE □ PHENTOLAMINE □ REGITIN □ REGITINE □ REGITIPE □ ROGITINE □ 2-(N'-p-TOLYL-N'-m-HYDROXYPHENYLAMINOMETHYL)-2-IMIDAZOLINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1250 mg/kg PSEBAA 71,70,49
scu-rat LD50:275 mg/kg PSEBAA 71,70,49
ivn-rat LD50:75 mg/kg PSEBAA 71,70,49
orl-mus LD50:1000 mg/kg AIPTAK 112,319,57
ipr-mus LD50:200 mg/kg ARZNAD 21,1727,71
ivn-mus LD50:35 mg/kg AIPTAK 105,317,56
orl-rbt LD50:2000 mg/kg CLDND* 81,352,51
scu-rbt LDLo:200 mg/kg SMWOAS 81,352,51
ivn-rbt LD50:28 mg/kg AIPTAK 174,243,68
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

PDW500 CAS: 437-38-7 HR: 3
PHENTANYL
mf: $C_{22}H_{28}N_2O$ mw: 336.52
PROP: Crystals. Mp: 83−84°.
SYNS: FENTANEST □ FENTANIL □ FENTANYL □ N-PHENETHYL-4-(N-PROPIONYLANILINO)PIPERIDINE □ 1-PHENETHYL-4-N-PROPIONYLANILINOPIPERIDINE □ N-PHENYL-N-(1-(2-PHENYLETHYL)-4-PIPERIDINYL)-PROPANAMIDE (9CI) □ R 4263 □ SENTONIL
TOXICITY DATA with REFERENCE:
ivn-hmn TDLo:2 μg/kg:PUL,CNS BMJOAE 1,278,78
orl-rat LD50:18 mg/kg JPPMAB 25,929,73
scu-rat LD50:1500 μg/kg PCJOAU 23,395,89
ivn-rat LD50:2910 μg/kg JMCMAR 17,1047,74
ipr-mus LD50:76 mg/kg PCJOAU 10,1193,76
SAFETY PROFILE: Poison by intraperitoneal routes. Human systemic effects by intravenous route: somnolence, respiratory depression. When heated to decomposition it emits toxic fumes of NO_x.

PDW750 CAS: 990-73-8 HR: 3
PHENTANYL CITRATE
mf: $C_{22}H_{28}N_2O{\bullet}C_6H_8O_7$ mw: 528.66
PROP: Crystals. Mp: 149−151°. Slightly sol in H_2O.
SYNS: FENTANEST □ FENTANYL CITRATE □ LEPTANAL □ McN-JR 4263 □ MCN-JR-4263-49 □ PENTANYL □ N-(1-PHENETHYL-4-PIPERIDINYL)PROPIONANILIDE DIHYDROGEN CITRATE □ N-(1-PHENETHYL-4-PIPERIDYL)-PROPIONANILIDE CITRATE □ N-(1-PHENETHYL-4-PIPERIDYL)PROPIONANILIDE DIHYDROGEN CITRATE □ R 4263 □ R 5240 □ SUBLIMAZE □ SUBLIMAZE CITRATE
TOXICITY DATA with REFERENCE:
ivn-man TDLo:15 μg/kg/7M-C ANESAV 78,629,93
orl-rat LD50:18 mg/kg TXAPA9 18,185,71
scu-rat LD50:5460 μg/kg NIIRDN 6,666,82
ivn-rat LD50:990 μg/kg NIIRDN 6,666,82
ivn-mus LD50:10,100 μg/kg NIIRDN 6,666,82
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. See also PHENTANYL.

PDW800 CAS: 3690-28-6 HR: 3
PHENTHOATE OXON
mf: $C_{12}H_{17}O_5PS$ mw: 304.32
PROP: Colorless crystalline solid with aromatic odor. Mp: 17−18°, d: 1.226. Flash pt: 165−170° C.
SYNS: ACETIC ACID, MERCAPTOPHENYL-, ETHYL ESTER, DIMETHYL PHOSPHATE (6CI) □ ACETIC ACID, MERCAPTOPHENYL-, ETHYL ESTER, S-ESTERWITH O,O-DIMETHYL PHOSPHOROTHIOATE □ BENZENEACETIC ACID, α-((DIMETHOXYPHOSPHINYL)THIO)-, ETHYL ESTER (9CI)
TOXICITY DATA with REFERENCE:
orl-rat LD50:63 mg/kg JAFCAU 20,944,1972
SAFETY PROFILE: A poison by ingestion. A combustible liquid. When heated to decomposition it emits toxic vapors of PO_x and SO_x.

PDW950 CAS: 65-28-1 HR: 3
PHENTOLAMINE MESYLATE
mf: $C_{17}H_{19}N_3O{\bullet}CH_4O_3S$ mw: 377.50
PROP: A solid. Mp: 177−181°.

SYNS: PHENTOLAMINE MESILATE □ PHENTOLAMINE METHANESULFONATE □ PHENTOLAMINE METHANE-SULPHONATE □ REGITINE MESYLATE □ REGITINE METHANESULFONATE □ REGITIN METHANESULPHONATE

TOXICITY DATA with REFERENCE:
scu-rat LDLo:275 mg/kg NIIRDN 6,667,82
ivn-rat LDLo:75 mg/kg NIIRDN 6,667,82
scu-rbt LDLo:200 mg/kg NIIRDN 6,667,82
ivn-rbt LDLo:35 mg/kg NIIRDN 6,667,82

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

PDX000 CAS: 101-48-4 HR: 2
PHENYLACETALDEHYDE DIMETHYL ACETAL
mf: $C_{10}H_{14}O_2$ mw: 166.24

PROP: Colorless liquid; strong odor. D: 1.000−1.006, refr index: 1.493, flash p: 194°F. Sol in fixed oils, propylene glycol; insol in glycerin.

SYNS: (2,2-DIMETHOXYETHYL)-BENZENE (9CI) □ 1,1-DIMETHOXY-2-PHENYLETHANE □ FEMA No. 2876 □ HYSCYLENE P □ PHENACETALDEHYDE DIMETHYL ACETAL □ α-TOLYL ALDEHYDE DIMETHYL ACETAL □ VIRIDINE

TOXICITY DATA with REFERENCE:
orl-rat LD50:3500 mg/kg FCTXAV 13,681,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PDX250 CAS: 5694-72-4 HR: 2
PHENYLACETALDEHYDE GLYCERYL ACETAL
mf: $C_{11}H_{14}O_3$ mw: 194.25

SYNS: 2-BENZYL-4-HYDROXYMETHYL-1,3-DIOXANE □ 2-BENZYL-4-HYDROXYMETHYL-1,3-DIOXOLANE □ 2-BENZYL-4-METHANOL-1,3-DIOXANE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 14,829,76
orl-rat LD50:1720 mg/kg FCTXAV 14,829,76
ipr-mus LD50:523 mg/kg AIPTAK 85,474,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

PDX500 CAS: 519-87-9 HR: 2
N-PHENYLACETAMIDE
mf: $C_{14}H_{13}NO$ mw: 211.28

PROP: Crystals from pet ether. Mp: 103°.

SYNS: N-ACETYLDIPHENYLAMINE □ DIPHENYL-ACETAMIDE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:600 mg/kg PCJOAU 10,579,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PDX750 CAS: 103-81-1 HR: 2
2-PHENYLACETAMIDE
mf: C_8H_9NO mw: 135.18

PROP: Plates or leaflets. Mp: 157−158°. Very sol in alc; sltly sol in water, benzene, ether.

SYNS: BENZENEACETAMIDE (9CI) □ α-PHENYLACETAMIDE □ PHENYLACETIC ACID AMIDE □ PHENYL-β-ACETYLAMINE □ α-TOLUAMIDE □ α-TOLUIMIDIC ACID

TOXICITY DATA with REFERENCE:
ipr-mus LD50:430 mg/kg PCJOAU 10,579,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PDY000 CAS: 2113-47-5 HR: 2
2′-PHENYLACETANILIDE
mf: $C_{14}H_{13}NO$ mw: 211.28

PROP: Needles from EtOH (aq) or pet ether. Mp: 121°, bp: 355°.

SYNS: ACETAMIDOBIPHENYL □ 2-ACETYLAMINOBIPHEN-YL □ N-(2-BIPHENYLYL)ACETAMIDE

TOXICITY DATA with REFERENCE:
mma-sat 250 µg/plate MUREAV 118,49,83
orl-rat TDLo:4200 mg/kg/35W-C:ETA,REP CNREA8 16,525,56

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

PDY250 CAS: 2113-54-4 HR: 2
3′-PHENYLACETANILIDE
mf: $C_{14}H_{13}NO$ mw: 211.28

PROP: Needles from EtOH. Mp: 148°.

SYNS: 3-ACETYLAMINOBIPHENYL □ N-(3-BIPHENYLYL)-ACETAMIDE

TOXICITY DATA with REFERENCE:
orl-rat TDLo:4200 mg/kg/35W-C:ETA CNREA8 16,525,56

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

PDY500 CAS: 4075-79-0 HR: 2
4′-PHENYLACETANILIDE
mf: $C_{14}H_{13}NO$ mw: 211.28

PROP: Crystals from MeOH (aq). Mp: 171°.

SYNS: 4-ACETAMIDOBIPHENYL □ 4-ACETYLAMINOBIPHENYL □ 4-BIPHENYLACETAMIDE □ N-4-BIPHENYLACETAMIDE □ N-(4-BIPHENYLYL)ACETAMIDE □ p-PHENYLACETANILIDE

TOXICITY DATA with REFERENCE:
mma-sat 100 µg/plate BBRCA9 73,1025,76
orl-rat TDLo:2770 mg/kg/21W-C:CAR CNREA8 15,188,55
orl-rat TD:4070 mg/kg/34W-C:CAR CNREA8 16,525,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. Used in the manufacture of plastics, resins, rubber, synthetics, dyes, and pigments.

PDY750 CAS: 122-79-2 HR: 2
PHENYL ACETATE
mf: $C_8H_8O_2$ mw: 136.16
PROP: Water-white liquid. D: 1.081 @ 15°/15°, bp: 195−196°, vap d: 4.7, flash p: 176°F. Misc in alc, chloroform, and ether; very sltly sol in water; highly refractive.
SYNS: ACETYL PHENOL □ FENYLESTER KYSELINY OCTOVE □ PHENOL ACETATE
TOXICITY DATA with REFERENCE:
skn-rbt 535 mg open MLD UCDS** 11/4/64
orl-rat LD50:1630 mg/kg AIHAAP 30,470,69
skn-rbt LD50:8000 mg/kg UCDS** 11/4/69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. A skin irritant. Combustible when exposed to heat, flame or oxidizers. To fight fire, use alcohol foam. When heated to decomposition it emits acrid smoke and irritating fumes.

PDY850 CAS: 103-82-2 HR: 2
PHENYLACETIC ACID
mf: $C_8H_8O_2$ mw: 136.16
PROP: Leaflets on distillation in vac; plates, tablets from pet ether; disagreeable odor of geranium. Mp: 76.5°, bp: 265.5°, d (77°/4°) 1.091, flash p: 212°F. Sltly sol in cold water; freely sol in hot water; sol in alc and ether. Solubility @ 25° in chloroform (moles/L): 4.422; in carbon tetrachloride: 1.842; in acetylene tetrachloride: 4.513; in trichlorethylene: 3.299; in tetrachlorethylene: 1.558; in pentachloroethane: 3.252.
SYNS: BENZENACETIC ACID □ BENZENEACETIC ACID □ FEMA No. 2878 □ ω-PHENYLACETIC ACID □ α-TOLUIC ACID
TOXICITY DATA with REFERENCE:
orl-rat LD50:2250 mg/kg VPITAR 33(5),48,74
ipr-rat LD50:1600 mg/kg BCFAAI 112,53,73
orl-mus LD50:2250 mg/kg VPITAR 33(5),48,74
ipr-mus LD50:2270 mg/kg FRPSAX 13,286,58
scu-mus LD50:1500 mg/kg AIPTAK 116,154,58
orl-gpg LD50:2250 mg/kg VPITAR 33(5),48,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. An experimental teratogen. Combustible liquid. Used in production of drugs of abuse. When heated to decomposition it emits acrid smoke and irritating fumes.

PDY870 HR: 2
PHENYLACETIC ACID 2-BENZYLHYDRAZIDE
mf: $C_{15}H_{16}N_2O$ mw: 240.33
SYNS: N-BENZYL-N'-PHENYLACETYLHYDRAZIDE □ P-5307
TOXICITY DATA with REFERENCE:
orl-rat LD50:2500 mg/kg JJPAAZ 13,186,63
ipr-rat LD50:515 mg/kg JJPAAZ 13,186,63
orl-mus LD50:767 mg/kg JJPAAZ 13,186,63
ipr-mus LD50:525 mg/kg JJPAAZ 13,186,63
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

PEA500 CAS: 4468-48-8 HR: 3
α-PHENYLACETOACETONITRILE
mf: $C_{10}H_9NO$ mw: 159.20
PROP: Crystals from EtOH (aq) or EtOAc/pet ether. Mp: 90−91°.
SYNS: ACETOACETONITRILE, 2-PHENYL-(8CI) □ ACETONITRILE, PHENYLACETO □ α-ACETYLBENZENEACETONITRILE □ BENZENEACETONITRILE, α-ACETYL-(9CI) □ PHENYL ACETO-ACETONITRILE □ 2-PHENYLACETO-ACETONITRILE □ USAF PE-1
TOXICITY DATA with REFERENCE:
ipr-mus LD50:200 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x and CN^-. See also NITRILES.

PEA750 CAS: 140-29-4 HR: 3
PHENYLACETONITRILE
DOT: UN 2470
mf: C_8H_7N mw: 117.16
PROP: Oily liquid; aromatic odor. Mp: −23.8°, bp: 233.5°, d: 1.0214 @ 15°/15°, vap press: 1 mm @ 60.0°. Insol in water; misc in alc, ether.
SYNS: BENZENEACETONITRILE □ BENZYL CYANIDE □ BENZYLKYANID □ BENZYL NITRILE □ (CYANOMETHYL)-BENZENE □ α-CYANOTOLUENE □ ω-CYANOTOLUENE □ 2-PHENYLACETONITRILE □ PHENYLACETONITRILE, liquid (DOT) □ PHENYL ACETYL NITRILE □ α-TOLUNITRILE □ USAF KF-21
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTOD7 20(Suppl),803,82
orl-rat LD50:270 mg/kg GISAAA 32,20,67
ihl-rat LC50:430 mg/m^3/2H HYSAAV 32,176,67
skn-rat LD50:2 g/kg FCTOD7 20(Suppl),803,82
ipr-rat LDLo:74,982 μg/kg TOLED5 10,265,82
orl-mus LD50:45,500 μg/kg ARTODN 55,47,84
ihl-mus LC50:100 mg/m^3/2H 85GMAT -,25,82
scu-mus LDLo:32 mg/kg AIPTAK 12,447,04
skn-rbt LD50:270 mg/kg FCTOD7 20(Suppl),803,82
ipr-mus LD50:10 mg/kg NTIS** AD277-689
scu-rbt LDLo:50 mg/kg AIPTAK 5,161,1899
scu-frg LDLo:1500 mg/kg AIPTAK 5,161,1899
ims-pgn LDLo:120 mg/kg FCTOD7 20,803,82
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Community Right-To-Know List. Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Poison by ingestion, inhalation, skin contact, subcutaneous, and intraperitoneal routes. A skin irritant. Explosive reaction with sodium hypochlorite. Used in production of drugs of abuse. When heated to decomposition it emits very toxic fumes of CN^- and NO_x. See also NITRILES.

PEB000 CAS: 451-40-1 HR: 3
2-PHENYLACETOPHENONE
mf: $C_{14}H_{12}O$ mw: 196.26
PROP: Plates. Mp: 60°, bp: 320°.
SYNS: BENZYL PHENYL KETONE □ DEOXYBENZOIN □ DESOXYBENZOIN □ 1,2-DIPHENYLETHANONE □ 2-PHENYLACETOPHENONE □ PHENYL BENZYL KETONE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:320 mg/kg CSLNX* NX#03836
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Poison by intravenous route. Flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

PEB250 CAS: 63040-30-2 HR: 2
4′-PHENYL-o-ACETOTOLUIDE
mf: $C_{15}H_{15}NO$ mw: 225.31
SYN: 3-METHYL-4-ACETYLAMINOBIPHENYL
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

PEB750 CAS: 536-74-3 HR: 3
PHENYLACETYLENE
mf: C_8H_6 mw: 102.14
PROP: Oil. D: 0.94, fp: −45°, bp: 142°. Sol in Me_2CO, $CHCl_3$, and C_6H_6.
SYNS: ACETYLENE, PHENYL- □ ETHINYLBENZENE □ ETHYNYLBENZENE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:100 mg/kg CSLNX* NX#04866
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Explosive reaction with perchloric acid above −78°C. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.

PEB775 CAS: 25439-20-7 HR: 2
PHENYLACETYLGLYCINE DIMETHYLAMIDE
mf: $C_{12}H_{16}N_2O_2$ mw: 220.30
SYN: N,N-DIMETHYL-2-(2-PHENYLACETAMIDO)ACETAMIDE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:1180 mg/kg NIIRDN 6,658,82
orl-mus LD50:1600 mg/kg NIIRDN 6,658,82
ipr-mus LD50:1400 mg/kg NIIRDN 6,658,82
ivn-mus LD50:965 mg/kg NIIRDN 6,658,82
SAFETY PROFILE: Moderately toxic by ingestion, intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also AMIDES.

PEC250 CAS: 63-98-9 HR: 2
(PHENYLACETYL)UREA
mf: $C_9H_{10}N_2O_2$ mw: 178.21
PROP: Crystals from EtOH. Mp: 212−216°.
SYNS: A-1348 □ ACETYLUREUM □ N-(AMINOCARBONYL)BENZENEACETAMIDE □ CARBAMIDE PHENYLACETATE □ CETYLUREUM □ COMITIADONE □ EFERON □ EPHERON □ EPICLASE □ FELUREA □ FEN-ACEMID □ FENACEMIDE □ FENACETEAMIDE □ FEN-ACETIL-KARBAMIDE □ FENILEP □ FENISED □ FEN-OSTENYL □ FENURAL □ FENUREA □ FENURONE □ FENYTAN □ NEOPHEDAN □ NEOPHENAL □ PHACETUR □ PHENACALUM □ PHENACEMIDE □ PHENACEREUM □ PHENACETUR □ PHENACETYLCARBAMIDE □ PHENACETYL-UREA □ PHENARONE □ PHENICARB □ PHENURON □ PHENUTAL □ α-PHENYLACETYLUREA □ PHENYL-ACETYLUREE (FRENCH) □ PHENYRIT □ PHETYLUREUM □ TRIOXANONA
TOXICITY DATA with REFERENCE:
orl-rat LD50:1600 mg/kg ABMGAJ 2,335,59
orl-mus LD50:987 mg/kg NIIRDN 6,655,82
ipr-mus LD50:1550 mg/kg RPOBAR 2,309,70
orl-dog LDLo:3500 mg/kg 27ZIAQ -,188,73
orl-cat LDLo:2000 mg/kg 27ZIAQ -,-,65
orl-rbt LD50:2500 mg/kg 27ZQAG -,366,72
ipr-rbt LD50:2500 mg/kg 27ZQAG -,366,72
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental teratogenic effects. Used as an anticonvulsive agent. When heated to decomposition it emits toxic fumes of NO_x.

PEC500 CAS: 673-06-3 HR: 1
d-PHENYLALANINE
mf: $C_9H_{11}NO_2$ mw: 165.21
PROP: Needles from alc, white crystalline platelets or leaflets from water. Mp: 196° (decomp); sol in hot water; very sltly sol in alc; sltly sol in pet ether.
SYNS: dl-α-AMINO-β-PHENYLPROPIONIC ACID □ NCI-C60195 □ d-β-PHENYLALANINE □ dl-PHENYLALANINE (FCC)
TOXICITY DATA with REFERENCE:
orl-hmn TDLo:500 mg/kg/5W-I:GIT JACTDZ 1(3),124,82
ipr-rat LD50:5452 mg/kg ABBIA4 64,319,56
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by intraperitoneal route. Human systemic effects by ingestion: nausea, hypermotility, diarrhea. When heated to decomposition it emits toxic fumes of NO_x.

PEC750 CAS: 63-91-2 HR: 1
l-PHENYLALANINE
mf: $C_9H_{11}NO_2$ mw: 165.21
PROP: White crystals or crystalline powder or needles from water; slt odor and bitter taste. Mp: decomp @ 283−284° (rapid heat). Sol in water; very sltly sol in alc and ether.
SYNS: ALANINE, PHENYL- □ ALANINE, 3-PHENYL- □ l-ALANINE, PHENYL- □ (S)-α-AMINOBENZENEPROPANOIC ACID □ α-AMINOHYDROCINNAMIC ACID □ α-AMINO-β-PHENYLPROPIONIC ACID □ ANTIBIOTIC FN 1636 □ HYDROCINNAMIC ACID, α-AMINO- □ PAL □ PHENYL-

ALANINE □ PHENYL-α-ALANINE □ β-PHENYLALANINE □ β-PHENYL-α-ALANINE, l- □ l-β-PHENYLALANINE □ (S)-PHENYLALANINE □ 3-PHENYLALANINE

TOXICITY DATA with REFERENCE:
mmo-esc 2 mmol/L MUREAV 161,113,86
sce-hmn:lym 10 mg/L MUREAV 280,279,92
ipr-rat LD50:5287 mg/kg ABBIA4 58,253,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by intraperitoneal route. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PED750 CAS: 148-82-3 HR: 3
l-PHENYLALANINE MUSTARD
mf: $C_{13}H_{18}Cl_2N_2O_2$ mw: 305.23

PROP: Needles from MeOH. Mp: 182−183° (decomp).

SYNS: ALANINE NITROGEN MUSTARD □ ALKERAN □ AT-290 □ p-N-BIS(2-CHLOROETHYL)AMINO-l-PHENYLALANINE □ l-3-(p-(BIS(2-CHLOROETHYL)AMINO)PHENYL)ALANINE □ 3-(p-(p-(BIS(2-CHLOROETHYL)AMINO)PHENYL))-l-ALANINE □ 4-(BIS(2-CHLOROETHYL)AMINO)-l-PHENYLALANINE □ CB 3025 □ p-N-DI(CHLOROETHYL)AMINOPHENYLALANINE □ p-DI-(2-CHLOROETHYL)AMINO-l-PHENYLALANINE □ 3-p-(DI(2-CHLOROETHYL)AMINO)-PHENYL-l-ALANINE □ MELPHALAN □ NCI-C04853 □ NSC-8806 □ l-PAM □ PHENYLALANINE NITROGEN MUSTARD □ RCRA WASTE NUMBER U150 □ l-SARCOLYSIN □ p-l-SARCOLYSIN □ SK-15673

TOXICITY DATA with REFERENCE:
skn-rbt 5 mg/24H rns TXCYAC 14,117,79
skn-rbt 1 pph/24H MLD NTIS** PB270-483
mmo-sat 100 µg/plate ONCODU 18,95,79
dnr-esc 100 µg/disc CNREA8 34,1658,74
dnr-esc 100 µg/disc CNREA8 34,1658,74
ipr-rat TDLo:70 mg/kg/26W-I:NEO RRCRBU 52,1,75
orl-hmn TDLo:700 mg/kg/7D:GIT 34ZIAG -,367,69
orl-hmn TDLo:1200 µg/kg/5D-I:GIT CCROBU 57,369,73
ivn-cld LDLo:4500 mg/kg NZMJAX 97,816,84
ivn-man LDLo:8140 mg/kg NZMJAX 97,816,84
ivn-inf TDLo:28 mg/kg:GIT,BLD LANCAO 2,1048,84
orl-rat LD50:11,200 µg/kg IYKEDH 10,710,79
ipr-rat LD50:4484 µg/kg BCPCA6 13,969,64
ice-rat LD50:200 µg/kg JPPMAB 18,760,66
ivn-mus LD50:23 mg/kg NTIS** PB84-162486

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 7,239,87; Animal Sufficient Evidence; Human Limited Evidence IMEMDT 9,167,75. NCI Carcinogenesis Studies (ipr); Clear Evidence: mouse, rat RRCRBU 52,1,75. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed human carcinogen producing leukemia and Hodgkin's disease. Poison by ingestion, intravenous, and intracerebral routes. Human systemic effects by ingestion: nausea, hypermotility, diarrhea, agranulocytosis, thrombocytopenia. Human reproductive effects by ingestion: menstrual changes. Mutation data reported. A skin irritant. Used as a poison gas. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

PED800 CAS: 133073-82-2 HR: 3
d-PHENYLALANYL-l-PHENYLALANYL-l-PHENYLALANYL-d-TRYPTOPHYL-l-LYSYL-l-THREON YL-l-PHENYLALANYL-l-THREONINAMIDE
mf: $C_{61}H_{75}N_{11}O_{10}$ mw: 1122.33

SYNS: BIM-23052 □ d-PHE-PHE-PHE-d-TRP-LYS-THR-PHE-THR-NH2

TOXICITY DATA with REFERENCE:
ice-rat TDLo:2244.7 ng/kg JPETAB 293,1099,2000

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

PED850 CAS: 150155-61-6 HR: 3
d-PHENYLALANYL-l-PHENYLALANYL-l-TYROSYL-d-TRYPTOPHYL-l-LYSYL-l-VALYL-l-PHENYLALANYL-3-(2-NAPHTHALENYL)-d-ALANINAMIDE
mf: $C_{71}H_{81}N_{11}O_9$ mw: 1232.49

SYNS: BIM-23056 □ d-PHE-PHE-TYR-d-TRP-LYS-VAL-PHE-d-NAL-NH2

TOXICITY DATA with REFERENCE:
ice-rat TDLo:45.415 µg/kg JPETAB 293,1099,2000

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

PEE100 CAS: 83997-16-4 HR: 3
d-PHENYLALANYL-l-PROLYL-l-ARGININE ALDEHYDE SULFATE (1:1)
mf: $C_{20}H_{30}N_5O_3{\bullet}H_2O_4S$ mw: 486.56

SYNS: N-(4-((AMINOIMINOMETHYL)AMINO)-1-FORMYLBUTYL)-3-PHENYLALANYL-l-PROLINAMIDE SULFATE, (S)- □ GYKI 14166 □ (S)-d-PHENYLALANYL-N-(4-((AMINOIMINOMETHYL)AMINO)-1-FORMYLBUTYL)-l-PROLINAMIDE SULFATE (1:1) □ RGH-2958

TOXICITY DATA with REFERENCE:
orl-mus LD50:1250 mg/kg DRFUD4 10,829,85
ipr-mus LD50:225 mg/kg DRFUD4 10,829,85
ivn-mus LD50:45 mg/kg DRFUD4 10,829,85

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

PEE200 CAS: 140-27-2 HR: 1
3-PHENYLALLYL ISOVALERATE
mf: $C_{14}H_{18}O_2$ mw: 218.32

PROP: Flavoring agent.

SYNS: BUTANOIC ACID, 3-METHYL-, 3-PHENYL-2-PROPENYL ESTER □ CINNAMYL ISOVALERATE □ CINNAMYL 3-METHYL BUTYRATE □ ISOVALERIC ACID, CINNAMYL ESTER (6CI,7CI,8CI) □ 3-METHYLBUTANOIC ACID 3-PHENYL-2-PROPENYL ESTER

TOXICITY DATA with REFERENCE:
orl-rat LD50:5 g/kg FCTXAV 12,857,74
skn-rbt LD50:>5 g/kg FCTXAV 12,857,74

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.

PEE300 CAS: 22374-89-6 HR: 3
1-PHENYL-3-AMINOBUTANE
mf: $C_{10}H_{15}N$ mw: 149.26
SYNS: BENZENEPROPANAMINE, α-METHYL- □ α-METHYLBENZENEPROPANAMINE □ (+−)-α-METHYL-BENZENEPROPANAMINE □ α-METHYL-γ-PHENYL-N-PROPYLAMIN □ α-METHYL-γ-PHENYL-N-PROPYLAMINE □ 1-PHENYL-3-AMINO-BUTAN □ PROPYLAMINE, α-METHYL-γ-PHENYL- □ PROPYLAMINE, 1-METHYL-3-PHENYL-
TOXICITY DATA with REFERENCE:
orl-rat LD :>600 mg/kg AEPPAE 195,647,1940
ipr-rat LDLo:100 mg/kg AEPPAE 195,647,1940
par-mus LD50:100 mg/kg AEPPAE 195,647,1940
SAFETY PROFILE: A poison by intraperitoneal and parenteral route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

PEE500 CAS: 1078-21-3 HR: 2
β-PHENYL-γ-AMINOBUTYRIC ACID
mf: $C_{10}H_{13}NO_2$ mw: 179.24
SYNS: β-(AMINOMETHYL)BENZENEPROPANOIC ACID □ β-(AMINOMETHYL)HYDROCINNAMIC ACID □ 4-AMINO-3-PHENYLBUTANOIC ACID □ 4-AMINO-3-PHENYLBUTYRIC ACID □ FENIBUT □ FENIGAM □ FENIGAMA □ PGABA □ PHENIBUT □ PHENIGAM □ PHENIGAMA □ β-PHENYL-γ-AMINOBUTYRATE □ PHENYLGAM □ PHENYLGAMMA □ PhGABA
TOXICITY DATA with REFERENCE:
orl-hmn TDLo:5 mg/kg:CNS BEXBAN 57,52,64
ipr-rat LD50:700 mg/kg BEXBAN 57,52,64
ipr-mus LD50:900 mg/kg BEXBAN 57,52,64
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Human systemic effects by ingestion: somnolence, hallucinations, distorted perception. Used as a mood elevator and tranquilizer. When heated to decomposition it emits toxic fumes of NO_x.

PEE600 CAS: 43085-16-1 HR: 2
17-β-PHENYLAMINOCARBONYLOXYOESTRA-1,3,5(10)-TRIENE-3-METHYL ETHER
mf: $C_{26}H_{31}NO_3$ mw: 405.58
SYN: STS 153
TOXICITY DATA with REFERENCE:
orl-mus TDLo:100 mg/kg (female 12-16D post):ETA,REP AMSHAR 28,209,80
SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also ETHERS.

PEE750 CAS: 1698-60-8 HR: 2
1-PHENYL-4-AMINO-5-CHLORPYRIDAZ-6-ONE
mf: $C_{10}H_8ClN_3O$ mw: 221.66
PROP: Pale-yellowish solid. Mp: 205−206°. Spar sol in H_2O, C_6H_6; sltly sol in Me_2CO, MeOH.
SYNS: 5-AMINO-4-CHLORO-2,3-DIHYDRO-3-OXO-2-PHENYL-PYRIDAZINE □ 5-AMINO-4-CHLORO-2-PHENYL-3(2H)-PYRIDAZINONE □ BUREX (CZECH) □ CHLORIDAZON □ 1-FENYL-4-AMINO-5-CHLOR-6-PYRIDAZINON (CZECH) □ HS-119-1 □ PCA □ PHENOSANE □ 1-PHENYL-4-AMINO-5-CHLOROPYRIDAZON-(6) (GERMAN) □ 1-PHENYL-4-AMINO-5-CHLOROPYRIDAZONE-6 □ 1-PHENYL-4-AMINO-5-CHLORO-6-PYRIDAZONE □ PYRAMINE □ PYRAMIN RB □ PYRAZON □ PYRAZONE □ PYRAZONL
TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H SEV 28ZPAK -,151,72
orl-rat LD50:647 mg/kg FAATDF 7,299,86
ipr-rat LD50:600 mg/kg GTPZAB 23(8),48,79
orl-mus LD50:1000 mg/kg GTPZAB 23(8),48,79
ipr-mus LD50:410 mg/kg GTPZAB 23,8,48,79
orl-rbt LD50:2000 mg/kg GTPZAB 23(8),48,79
skn-rbt LD50:2500 mg/kg 85JFAN A080,85
orl-gpg LD50:760 mg/kg GTPZAB 23(8),48,79
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A severe eye irritant. Experimental reproductive effects. Used as a preemergence and early post-emergence herbicide. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

PEF500 CAS: 10535-87-2 HR: 3
PHENYL-2-AMINO-1-PROPANE HYDROCHLORIDE
mf: $C_{22}H_{31}NO{\bullet}ClH$ mw: 362.00
SYNS: 1-(p-ETHOXYPHENYL)-1-DIETHYLAMINO-3-METHYL-3-PHENYLPROPANE HYDROCHLORIDE □ SP 725
TOXICITY DATA with REFERENCE:
orl-rat LD50:1887 mg/kg ARZNAD 12,178,62
ipr-rat LD50:185 mg/kg ARZNAD 12,178,62
scu-rat LD50:2358 mg/kg ARZNAD 12,178,62
orl-mus LD50:270 mg/kg EJMCA5 12,459,77
ipr-mus LD50:90 mg/kg ARZNAD 12,178,62
scu-mus LD50:643 mg/kg ARZNAD 12,178,62
SAFETY PROFILE: Poison by ingestion and intraperitoneal route. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

PEF750 CAS: 24301-86-8 HR: 3
PHENYL-1-AMINO-1-PROPANE HYDROCHLORIDE
mf: $C_9H_{13}N{\bullet}ClH$ mw: 171.69
SYNS: H 1672 □ 1-PHENYL-1-AMINO-PROPANE, HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
scu-rat LDLo:164 mg/kg JPETAB 71,62,41
scu-mus LD50:205 mg/kg ARZNAD 14(3),178,64
ivn-rbt LDLo:50 mg/kg JACSAT 53,1875,31
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

PEG000 CAS: 86-26-0 HR: 2
o-PHENYLANISOLE

mf: $C_{13}H_{12}O$ mw: 184.25
PROP: Prisms from pet ether. Mp: 29−30°, bp: 274°.
SYNS: 2-METHOXY BIPHENYL ◻ METHYL DIPHENYL ETHER ◻ 2-PHENYLANISOLE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 13,681,75
orl-rat LD50:3600 mg/kg FCTXAV 13,681,75
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

PEG250 CAS: 613-37-6 HR: 2
p-PHENYLANISOLE
mf: $C_{13}H_{12}O$ mw: 184.25
PROP: Leaves or plates from alc. Mp: 91−92°, bp: 174° @ 18 mm. Sol in hot alc.
SYNS: p-METHOXYBIPHENYL ◻ 4-METHOXYBIPHENYL
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

PEG500 CAS: 91-40-7 HR: 3
N-PHENYLANTHRANILIC ACID
mf: $C_{13}H_{11}NO_2$ mw: 213.25
PROP: Needles or prisms from alc. Mp: 184°, decomp @ 183−184°. Very sltly sol in hot water; sol in hot alc; very sltly sol in ether.
SYNS: o-ANILINOBENZOIC ACID ◻ 2-ANILINOBENZOIC ACID ◻ 2-CARBOXYDIPHENYLAMINE ◻ DIPHENYLAMINE-2-CARBOXYLIC ACID ◻ FENAMIC ACID ◻ PA ◻ 2-(PHENYL-AMINO)BENZOIC ACID ◻ PHENYLANTHRANILIC ACID
TOXICITY DATA with REFERENCE:
ipr-mus LD50:235 mg/kg RPTOAN 37,105,74
ivn-mus LD50:160 mg/kg YKKZAJ 89,1392,69
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.

PEG750 CAS: 637-03-6 HR: 3
PHENYL ARSINE OXIDE
mf: C_6H_5AsO mw: 168.03
PROP: Colorless crystals from EtOH. Mp: 119−120°.
SYNS: ARSENOSOBENZENE ◻ ARZENE ◻ PHENYLARSENOXIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:1930 µg/kg JPETAB 74,210,42
ivn-mus LDLo:1570 µg/kg PHBUA9 2,19,54
ivn-rbt LD50:790 µg/kg JPETAB 69,342,40
CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.5 mg(As)/m^3
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of As. See also ARSENIC COMPOUNDS.

PEH000 CAS: 622-37-7 HR: 3
PHENYL AZIDE
mf: $C_6H_5N_3$ mw: 119.13
PROP: Pale-yellow oil. D: 1.09 @ 25°, bp: 73.5 @ 22−24 mm.
SYN: AZIDOBENZENE
SAFETY PROFILE: Explodes when heated. Explosive or violent reactions with Lewis acids [e.g., aluminum chloride (explosive); sulfuric acid (violent)]. When heated to decomposition it emits toxic fumes of NO_x. See also AZIDES.

PEH250 CAS: 13279-22-6 HR: 2
N-PHENYL-1-AZIRIDINECARBOXAMIDE
mf: $C_9H_{10}N_2O$ mw: 162.21
SYNS: 1-AZIRIDINECARBOXANILIDE ◻ N-PHENYLAMINO-CARBONYL)AZIRIDINE ◻ 1-PHENYLCARBAMOYLAZIRIDINE ◻ PHENYL-N-CARBAMOYLAZIRIDINE
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x.

PEH500 CAS: 17918-11-5 HR: 3
α-PHENYL-1-AZIRIDINEETHANOL
mf: $C_{10}H_{13}NO$ mw: 163.24
SYNS: α-(1-AZIRIDINYLMETHYL)BENZYL ALCOHOL ◻ 2-(1-AZIRIDINYL)-1-PHENYLETHANOL
TOXICITY DATA with REFERENCE:
orl-mus LD50:133 mg/kg EJMCA5 12,149,77
ipr-mus LD50:80 mg/kg EJMCA5 12,149,77
ivn-mus LD50:180 mg/kg CSLNX* NX#04518
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. See also ALCOHOLS.

PEH750 CAS: 4128-71-6 HR: 2
4′-PHENYLAZOACETANILIDE
mf: $C_{14}H_{13}N_3O$ mw: 239.30
PROP: Golden needles from EtOH. Mp: 144−146°.
SYNS: p-ACETAMIDOAZOBENZENE ◻ 4-ACETYLAMINO-AZOBENZENE ◻ p-PHENYLAZOACETANILIDE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

PEI000 CAS: 60-09-3 HR: 3
p-(PHENYLAZO)ANILINE
mf: $C_{12}H_{11}N_3$ mw: 197.26
PROP: Yellow crystals or orange needles with blue case from EtOH. Mp: 126°, bp: 360°. Sltly sol in hot water; sol in hot alc and ether.
SYNS: AAB ◻ AMINOAZOBENZENE ◻ p-AMINOAZO-BENZENE ◻ 4-AMINOAZOBENZENE ◻ 4-AMINO-1,1'-AZOBENZENE ◻ p-AMINOAZOBENZOL ◻ 4-AMINOAZO-BENZOL ◻ p-AMINODIPHENYLIMIDE ◻ ANILINE YELLOW ◻

4-BENZENEAZOANILINE □ BRASILAZINA OIL YELLOW G □ CERES YELLOW R □ C.I. 11000 □ C.I. SOLVENT BLUE 7 □ C.I. SOLVENT YELLOW 1 □ FAST SPIRIT YELLOW AAB □ OIL SOLUBLE ANILINE YELLOW □ OIL YELLOW AAB □ ORGANOL YELLOW □ PARAPHENOLAZO ANILINE □ 4-(PHENYLAZO)ANILINE □ 4-(PHENYLAZO)BENZENAMINE □ p-PHENYLAZOPHENYLAMINE □ SOLVENT YELLOW 1 □ SUDAN YELLOW R □ USAF EK-1375

TOXICITY DATA with REFERENCE:
mmo-sat 50 nmol/plate CRNGDP 3,113,82
otr-ham:kdy 80 µg/L BJCAAI 37,873,78
scu-mus TDLo:296 mg/kg (15-19D preg):NEO,TER CALEDQ 17,321,83
ipr-mus LD50:200 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 8,53,75. Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed carcinogen with experimental neoplastigenic and tumorigenic data. Poison by intraperitoneal route. An experimental teratogen. Mutation data reported. Used as a dye for lacquer, varnish, wax products, oil stains, and styrene resins. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

PEI250 CAS: 3457-98-5 HR: 2
p-(PHENYLAZO)ANILINE HYDROCHLORIDE
mf: $C_{12}H_{11}N_3$•ClH mw: 233.72

PROP: Reddish-blue needles. Sol in water.

SYNS: p-AMINOAZOBENZENE HYDROCHLORIDE □ 4-AMINOAZOBENZENE HYDROCHLORIDE □ C.I. SOLVENT YELLOW 1, MONOHYDROCHLORIDE

TOXICITY DATA with REFERENCE:
orl-rat LD50:1250 mg/kg MarJV# 29MAR77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PEI750 CAS: 36368-30-6 HR: 3
1-PHENYLAZO-2-ANTHROL
mf: $C_{20}H_{14}N_2O$ mw: 298.36

SYN: BENZENEAZO-2-ANTHROL

TOXICITY DATA with REFERENCE:
imp-mus TDLo:80 mg/kg BJCAAI 17,127,63

SAFETY PROFILE: A poison by intramuscular route. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

PEI800 CAS: 101-75-7 HR: 3
4-(PHENYLAZO)DIPHENYLAMINE
mf: $C_{18}H_{15}N_3$ mw: 273.36

SYNS: AZOBENZENE, 4-ANILINO- □ DIPHENYLAMINE, 4-(PHENYLAZO)-

TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#03760

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PEJ250 CAS: 22670-79-7 HR: 3
N-PHENYLAZO-N-METHYLTAURINE SODIUM SALT
mf: $C_9H_{12}N_3O_3S$•Na mw: 265.29

SYNS: 3-METHYL-1-PHENYL-3-(2-SULFOETHYL)TRIAZENE SODIUM SALT □ 1-PHENYL-3-METHYL-3-(2-SULFOAETHYL) NATRIUM SALZ (GERMAN) □ 1-PHENYL-3-METHYL-3-(2-SULFOETHYL)TRIAZENE, SODIUM SALT

TOXICITY DATA with REFERENCE:
scu-rat TDLo:1170 mg/kg/78W-I:NEO,REP ZKKOBW 81,285,74
scu-rat LD50:150 mg/kg ZKKOBW 81,285,74

SAFETY PROFILE: Poison by subcutaneous route. Experimental reproductive effects. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits very toxic fumes of NO_x, Na_2O, and SO_x.

PEJ500 CAS: 842-07-9 HR: 2
1-(PHENYLAZO)-2-NAPHTHOL
mf: $C_{16}H_{12}N_2O$ mw: 248.30

PROP: Dark-reddish-yellow leaflets. Mp: 134°. Sol in Et_2O, CS_2, C_6H_6, pet ether, conc HCl.

SYNS: ATUL ORANGE R □ BENZENEAZO-β-NAPHTHOL □ BENZENE-1-AZO-2-NAPHTHOL □ 1-BENZOAZO-2-NAPHTHOL □ BRILLIANT OIL ORANGE R □ CALCOGAS ORANGE NC □ CALCO OIL ORANGE 7078 □ CAMPBELLINE OIL ORANGE □ CARMINAPH □ CERES ORANGE R □ CEROTINORANGE G □ C.I. 12055 □ C.I. SOLVENT YELLOW 14 □ DISPERSOL YELLOW PP □ DUNKELGELB □ ENIAL ORANGE I □ FAST OIL ORANGE □ FAST ORANGE □ FETTORANGE R □ GRASAN ORANGE R □ HIDACO OIL ORANGE □ LACQUER ORANGE VG □ MOTIORANGE R □ NCI-C53929 □ OIL ORANGE □ OLEAL ORANGE R □ ORANGE A l'HUILE □ ORANGE INSOLUBLE OLG □ ORANGE PEL □ ORANGE RESENOLE No. 3 □ ORANGE SOLUBLE A l'HUILE □ ORGANOL ORANGE □ ORIENT OIL ORANGE PS □ PETROL ORANGE Y □ 1-(PHENYLAZO)-2-NAPHTHALENOL □ 1-PHENYLAZO-β-NAPHTHOL □ PLASTORESIN ORANGE F4A □ PYRONALORANGE □ RESINOL ORANGE R □ RESOFORM ORANGE G □ SANSEL ORANGE G □ SCHARLACH B □ SILOTRAS ORANGE TR □ SOLVENT YELLOW 14 □ SOMALIA ORANGE I □ SOUDAN I □ SPIRIT ORANGE □ SPIRIT YELLOW I □ STEARIX ORANGE □ SUDAN ORANGE R □ TERTROGRAS ORANGE SV □ TOYO OIL ORANGE □ WAXAKOL ORANGE GL □ WAXOLINE YELLOW I

TOXICITY DATA with REFERENCE:
mmo-sat 300 ng/plate SCIEAS 236,933,87
mnt-rat-orl 250 mg/kg CRNGDP 12,1403,91 NTPTR* NTP-TR-226,82

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 8,225,75. NTP Carcinogenesis Bioassay (feed); Clear Evidence: rat NTPTR* NTP-TR-226,82. Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen with experimental

carcinogenic, neoplastigenic, and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. Used for coloring hydrocarbon solvents, oils, fats, waxes, shoe and floor polishes, and gasoline.

PEJ600 CAS: 131-22-6 HR: D
4-PHENYLAZO-1-NAPHTHYLAMINE
mf: $C_{16}H_{13}N_3$ mw: 247.32
SYNS: C.I. 11350 □ C.I. SOLVENT YELLOW 4 □ 1-NAPHTHALENAMINE, 4-(PHENYLAZO)- □ α-NAPHTHYL RED □ NUBIAN YELLOW TB □ PHENYLAZO α-NAPHTHYLAMINE
TOXICITY DATA with REFERENCE:
mma-sat 500 μg/plate AEMIDF 42,641,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

PEK000 CAS: 532-82-1 HR: 2
4-PHENYLAZO-m-PHENYLENEDIAMINE
mf: $C_{12}H_{12}N_4$•ClH mw: 248.74
PROP: A solid. Mp: 235°.
SYNS: ASTRA CHRYSOIDINE R □ BRASILAZINA ORANGE Y □ BRILLIANT OIL ORANGE Y BASE □ CALCOZINE CHRYSOIDINE Y □ CALCOZINE ORANGE YS □ CHRYSOIDIN □ CHRYSOIDINE □ CHRYSOIDINE A □ CHRYSOIDINE B □ CHRYSOIDINE C CRYSTALS □ CHRYSOIDINE G □ CHRYSOIDINE GN □ CHRYSOIDINE HR □ CHRYSOIDINE(II) □ CHRYSOIDINE J □ CHRYSOIDINE M □ CHRYSOIDINE ORANGE □ CHRYSOIDINE PRL □ CHRYSOIDINE PRR □ CHRYSOIDINE SL □ CHRYSOIDINE SPECIAL (biological stain and indicator) □ CHRYSOIDINE SS □ CHRYSOIDINE Y □ CHRYSOIDINE Y BASE NEW □ CHRYSOIDINE Y CRYSTALS □ CHRYSOIDINE Y EX □ CHRYSOIDINE YGH □ CHRYSOIDINE YL □ CHRYSOIDINE YN □ CHRYSOIDINE Y SPECIAL □ CHRYSOIDIN FB □ CHRYSOIDIN Y □ CHRYSOIDIN YN □ CHRYZOIDYNA F.B. (POLISH) □ C.I. 11270 □ C.I. BASIC ORANGE 2 □ C.I. BASIC ORANGE 3 □ C.I. BASIC ORANGE 2, MONOHYDROCHLORIDE □ C.I. SOLVENT ORANGE 3 □ 2,4-DIAMINOAZOBENZENE HYDROCHLORIDE □ DIAZOCARD CHRYSOIDINE G □ ELCOZINE CHRYSOIDINE Y □ LEATHER ORANGE HR □ 4-(PHENYLAZO)-1,3-BENZENEDIAMINE MONOHYDROCHLORIDE □ 4-(PHENYLAZO)-m-PHENYLENEDIAMINE MONOHYDROCHLORIDE □ PURE CHRYSOIDINE YBH □ PURE CHRYSOIDINE YD □ PYRACRYL ORANGE Y □ SUGAI CHRYSOIDINE □ TERTROPHENE BROWN CG
TOXICITY DATA with REFERENCE:
mma-sat 50 μg/plate MUREAV 44,9,77
mmo-smc 100 μg/L VINIT* #428-84
orl-mus LDLo:1670 mg/kg AEPPAE 195,295,40
scu-mus LDLo:1670 mg/kg AEPPAE 195,295,40
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,169,87; Animal Sufficient Evidence IMEMDT 8,91,75. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HCl. Used as a colorant in textiles, paper, leather, inks, wood, and biological stains.

PEK050 CAS: 22287-69-0 HR: 2
p-(PHENYLAZO)PHENYL ISOCYANIDE
mf: $C_{13}H_9N_3$ mw: 207.25
SYN: PHENYL ISOCYANIDE, p-(PHENYLAZO)-
TOXICITY DATA with REFERENCE:
orl-mus LD :>1 g/kg USXXAM #3422190
scu-mus LD :>500 mg/kg USXXAM #3422190
SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x.

PEK100 CAS: 2569-58-6 HR: 3
4-PHENYLAZOPYRIDINE
mf: $C_{11}H_9N_3$ mw: 183.23
SYN: PYRIDINE, 4-(PHENYLAZO)-
TOXICITY DATA with REFERENCE:
orl-mus LDLo:80 mg/kg NYKZAU 63,95,67
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

PEK250 CAS: 94-78-0 HR: 2
3-(PHENYLAZO)-2,6-PYRIDINEDIAMINE
mf: $C_{11}H_{11}N_5$ mw: 213.27
PROP: Red crystals. Mp: 139°.
SYNS: AP □ 2,6-DIAMINO-3-PHENYLAZOPYRIDINE □ DIRIDONE □ DPP □ GASTRACID □ GASTROTEST □ MALLOPHENE □ NC 150 □ PHENAZODINE □ PHENAZOPYRIDINE □ PHENYLAZO TABLET □ PIRID □ PYRAZOFEN □ PYRIDACIL □ PYRIDIUM □ PYRIPYRIDIUM □ SEDURAL □ URIDINAL □ URODINE □ W 1655
TOXICITY DATA with REFERENCE:
ipr-rat LD50:560 mg/kg JPETAB 51,200,34
CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 8,117,75.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. Used as a local anesthetic. When heated to decomposition it emits toxic fumes of NO_x.

PEK675 CAS: 33244-00-7 HR: 3
N-PHENYLBENZAMIDRAZONE HYDROCHLORIDE
mf: $C_{13}H_{13}N_3$•ClH mw: 247.75
SYNS: BENZAMIDEPHENYLHYDRAZONE HYDROCHLORIDE □ CBS-1114 □ 2-PHENYLHYDRAZIDEBENZENECARBOXIMIDIC ACID MONOHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:170 mg/kg DRFUD4 9,102,84
ivn-rat LD50:63 mg/kg DRFUD4 9,102,84
ipr-mus LD50:150 mg/kg DRFUD4 9,102,84
ivn-mus LD50:45 mg/kg DRFUD4 9,102,84
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

PEK750 CAS: 19383-97-2 HR: 2
5-PHENYL-1:2-BENZANTHRACENE
mf: $C_{24}H_{16}$ mw: 304.40
SYN: BENZ(a)ANTHRACENE, 8-PHENYL

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

PEL000 CAS: 29222-39-7 HR: 2
PHENYL-1,2,4-BENZENETRIOL
mf: $C_{12}H_{10}O_3$ mw: 202.22
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:500 mg/kg CBCCT* 8,482,56
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.

PEL250 CAS: 716-79-0 HR: 3
2-PHENYLBENZIMIDAZOLE
mf: $C_{13}H_{10}N_2$ mw: 194.25
PROP: Needles from water or plates from alc. Mp: 296−297.5°. Sol in methanol; sltly sol in water, benzene, chloroform.
SYNS: 1H-BENZIMIDAZOLE, 2-PHENYL-(9CI) □ GAINEX □ PHENIZIDOLE □ 2-PHENYL-1H-BENZIMIDAZOLE □ PHENZIDOL □ PHENZIDOLE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:167 mg/kg FRPSAX 33,516,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.

PEL500 CAS: 93-99-2 HR: 2
PHENYL BENZOATE
mf: $C_{17}H_{10}O_2$ mw: 246.27
PROP: Colorless crystals or prisms; geranium odor. Mp: 71°, bp: 314°, d: 1.235, vap press: 1 mm @ 106.8°. Insol in water; very sol in hot alc, ether; sltly sol in cold alc, ether.
TOXICITY DATA with REFERENCE:
orl-mus LD50:1225 mg/kg YKKZAJ 89,1179,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated it emits acrid smoke and irritating fumes. See also ESTERS, PHENOL and BENZOIC ACID.

PEL600 CAS: 92-92-2 HR: D
p-PHENYLBENZOIC ACID
mf: $C_{13}H_{10}O_2$ mw: 198.23
PROP: White colored flake crystals. Mp: 225°.
SYNS: (1,1'-BIPHENYL)-4-CARBOXYLIC ACID (9CI) □ 4-BIPHENYLCARBOXYLIC ACID □ 4-CARBOXYBIPHENYL □ 4-DIPHENYLCARBOXYLIC ACID □ PARA PHENYL BENZOIC ACID □ 4-PHENYLBENZOIC ACID
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

PEL650 CAS: 6914-98-3 HR: 3
2-PHENYL-BENZO(de)ISOQUINOLINE-1,3-DIONE
mf: $C_{18}H_{11}NO_2$ mw: 273.29
SYNS: 1H-BENZ(de)ISOQUINOLINE-1,3(2H)-DIONE, 2-PHENYL- □ 2-PHENYL-1,8-NAPHTHALIMIDE
TOXICITY DATA with REFERENCE:
ipr-mus TDLo:0.46 mg/kg FRMCE8 55,319,2000
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

PEL750 CAS: 363-03-1 HR: 3
PHENYL-p-BENZOQUINONE
mf: $C_{12}H_8O_2$ mw: 184.20
PROP: Yellow leaflets from pet ether. Mp: 113.5−114°.
SYNS: p-BENZOQUINONE, 2-PHENYL- □ 2,5-CYCLOHEXADIENE-1,4-DIONE, 2-PHENYL-(9CI) □ PHENYL-BENZOQUINONE □ o-PHENYLBENZOQUINONE □ PHENYL-1,4-BENZOQUINONE □ 2-PHENYLBENZOQUINONE □ 2-PHENYL-2,5-CYCLOHEXADIENE-1,4-DIONE □ PHENYL-QUINONE
TOXICITY DATA with REFERENCE:
dnd-rat-par 50 mg/L JJCREP 78,1027,87
ipr-mus LD50:19 mg/kg ARZNAD 20,1751,70
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

PEM000 CAS: 36774-74-0 HR: 2
2-PHENYL-5-BENZOTHIAZOLEACETIC ACID
mf: $C_{15}H_{11}NO_2S$ mw: 269.33
TOXICITY DATA with REFERENCE:
orl-mus LD50:1365 mg/kg JMCMAR 16,930,73
ipr-mus LD50:800 mg/kg JMCMAR 16,930,73
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

PEM750 CAS: 511-55-7 HR: 3
8-(p-PHENYLBENZYL)ATROPINIUM BROMIDE
mf: $C_{30}H_{34}NO_3$•Br mw: 536.56
PROP: Crystals. Mp: 230°. Decomp @ 220−222°.
SYNS: N-(p-BIPHENYLMETHYL)-ATROPINIUM BROMIDE □ N,4-BIPHENYL-METHYL-dl-TROPEYL-α-TROPINIUMBROMID (GERMAN) □ p-BIPHENYLMETHYL-(dl-TROPYL-α-TROP-INIUM)BROMIDE □ DENDREPAR □ 4-DIPHENYLMETHYL-TROPYLTROPINIUM BROMIDE □ 4-DIPHENYL-METHYL-dl-TROPYLTROPINIUM BROMIDE □ GASTRIPON □ 3-α-HYDRO-XY-8-(p-PHENYLBENZYL)-1-α-H,5-α-H-TROPANIUM BROMIDE, (±)-TROPATE □ N-399 □ XENYTROPIUM BROMIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1880 mg/kg OYYAA2 8,533,74
ipr-rat LD50:66 mg/kg OYYAA2 8,533,74
scu-rat LD50:243 mg/kg OYYAA2 8,533,74
ivn-rat LD50:9400 μg/kg AIPTAK 113,1,57
orl-mus LD50:1650 mg/kg OYYAA2 8,533,74
ipr-mus LD50:37,100 μg/kg OYYAA2 8,533,74

scu-mus LD50:173 mg/kg OYYAA2 8,533,74
ivn-mus LD50:9200 µg/kg ARZNAD 16,637,66
ivn-rbt LDLo:7 mg/kg AIPTAK 113,1,57
ipr-gpg LDLo:30 mg/kg AIPTAK 113,1,57
SAFETY PROFILE: Poison by intravenous, subcutaneous, and intraperitoneal routes. Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x and Br^-. See also BROMIDES.

PEN000 CAS: 2045-52-5 HR: 3
N-PHENYL-N-BENZYL-N′,N′-DIMETHYLETHYLENEDIAMINE HYDROCHLORIDE
mf: $C_{17}H_{22}N_2$•ClH mw: 290.87
PROP: A solid. Mp: 203−204°.
SYNS: ANTERGAN HYDROCHLORIDE ◻ N-BENZYL-N-DIMETHYLAMINOETHYL, ANILINE, HYDROCHLORIDE ◻ COMPOUND 2339 RP ◻ CORPS 2339 R P (FRENCH) ◻ N-DIMETHYLAMINOETHYLBENZYLANILINE HYDROCHLORIDE ◻ PHENBENZAMINE HYDROCHLORIDE ◻ 2339 R.P. HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:300 mg/kg AIPTAK 68,339,42
scu-rat LD50:15 mg/kg CRSBAW 144,887,50
scu-gpg LD50:110 mg/kg PHREA7 27,542,47
orl-mus LD50:325 mg/kg JPETAB 93,210,48
scu-mus LD50:125 mg/kg JPETAB 93,210,48
ivn-mus LD50:35 mg/kg JPETAB 93,210,48
ivn-rbt LD50:15 mg/kg JPETAB 93,210,47
SAFETY PROFILE: Poison by ingestion, intravenous, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x. Used as an antihistaminic agent. See also AMINES.

PEO000 CAS: 55-57-2 HR: 3
PHENYLBIGUANIDE HYDROCHLORIDE
mf: $C_8H_{11}N_5$•ClH mw: 213.70
PROP: Prisms. Mp: 237°.
SYNS: N'-PHENYLBIGUANIDE MONOHYDROCHLORIDE ◻ 1-PHENYLBIGUANIDE MONOHYDROCHLORIDE ◻ N-PHENYL-IMIDODICARBONIMIDIC DIAMIDE MONOHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:1200 mg/kg CKFRAY 1,434,52
ipr-mus LD50:290 mg/kg JMCMAR 10,521,67
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 HCl and NO_x.

PEO500 CAS: 108-86-1 HR: 3
PHENYL BROMIDE
DOT: UN 2514
mf: C_6H_5Br mw: 157.02
PROP: Colorless, clear, mobile liquid. Mp: −30.7°, bp: 156.2°, flash p: 124°F, d: 1.497, vap press: 10 mm @ 40°, vap d: 5.41, autoign temp: 1051°F.
SYNS: BROMOBENZENE (DOT) ◻ MONOBROMOBENZENE ◻ NCI-C55492
TOXICITY DATA with REFERENCE:
mnt-mus-ipr:125 mg/kg/24H MUTAEX 2,111,87
ipr-mus LD50:817 mg/kg MUTAEX 2,111,87
orl-gpg LD50:1700 mg/kg 85GMAT -,28,82
orl-rbt LD50:3300 mg/kg 85GMAT -,28,82
orl-rat LD50:2699 mg/kg GTPZAB 19(9),36,75
orl-uns LD50:2700 mg/kg GTPZAB 32(10),25,88
ipr-rat LD50:3882 mg/kg TXAPA9 83,108,86
ihl-rat LC50:20,411 mg/m^3 GTPZAB 19(9),36,75
ipr-rat LD50:3882 mg/kg TXAPA9 83,108,86
orl-mus LD50:2700 mg/kg GTPZAB 13(9),56,69
ihl-mus LC50:21 g/m^3/2H GTPZAB 13(9),56,69
ipr-mus TDLo:3768 mg/kg/18D-I JTEHD6 21,325,87
ipr-mus LD50:1000 mg/kg JJIND8 62,911,79
scu-mus LD50:2000 mg/kg JJPAAZ 3,99,54
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. Mildly toxic by inhalation. An eye and mucous membrane irritant. Mutation data reported. Flammable liquid when exposed to heat, sparks, or flame. Can react with oxidizing materials. To fight fire, use water to blanket fire, foam, CO_2, water spray or mist, dry chemical. Violent reaction with bromobutane + sodium when heated above 30°C. When heated to decomposition it emits toxic fumes of Br^-. See also BROMIDES.

PEO600 CAS: 25687-87-0 HR: 3
4-PHENYL-2-BUTANONE 3-THIOSEMICARBAZONE
SYN: 2-BUTANONE, 4-PHENYL-, 3-THIOSEMICARBAZONE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:250 mg/kg NCNSA6 5,45,1953
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PEO750 CAS: 70145-60-7 HR: 3
PHENYLBUTAZONE CALCIUM SALT
mf: $C_{19}H_{20}N_2O_2$•Ca mw: 348.49
SYNS: DA-241 ◻ 1,2-DIPHENYL-4-BUTYL-3,5-DIKETOPYRAZOLIDINE CALCIUM SALT ◻ P 241
TOXICITY DATA with REFERENCE:
orl-rat LD50:997 mg/kg FRPSAX 12,521,57
ivn-rat LD50:104 mg/kg FRPSAX 13,922,58
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

PEP250 CAS: 90-27-7 HR: 3
2-PHENYLBUTYRIC ACID
mf: $C_{10}H_{12}O_2$ mw: 164.22
PROP: White adhering crystalline powder. Flash pt: >110° C.
SYN: α-PHENYL BUTYRIC ACID
TOXICITY DATA with REFERENCE:
orl-mus LD50:1154 mg/kg BCFAAI 100,143,61
ipr-mus LD50:1320 mg/kg FRPSAX 13,286,58
scu-mus LD50:800 mg/kg AIPTAK 116,154,58
ivn-mus LD50:320 mg/kg CSLNX* NX#03832

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

PEQ000 CAS: 63982-25-2 HR: 3
N-PHENYLCARBAMIC ACID-3-(DIMETHYLAMINO)PHENYL ESTER HYDROCHLORIDE
mf: $C_{15}H_{16}N_2O_2$•ClH mw: 292.79
SYN: PHENYLCARBAMIC ESTER OF 3-OXYPHENYLDIMETHYLAMINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LDLo:500 mg/kg JPETAB 43,413,31
ivn-mus LDLo:20 mg/kg JPETAB 43,413,31
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also CARBAMATES and ESTERS.

PEQ250 CAS: 100836-70-2 HR: 2
N-PHENYLCARBAMIC ACID-2-(METHYL(1-PHENOXY-2-PROPYL)AMINO) ETHYL ESTER HYDROCHLORIDE
mf: $C_{19}H_{24}N_2O_3$•ClH mw: 364.91
SYN: C 6304
TOXICITY DATA with REFERENCE:
eye-rbt 2% MLD ARZNAD 9,113,59
scu-mus LD50:437 mg/kg ARZNAD 9,113,59
SAFETY PROFILE: Moderately toxic by subcutaneous route. An eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also CARBAMATES.

PEQ500 CAS: 2828-42-4 HR: 2
o-(N-PHENYLCARBAMOYL)PROPANONOXIME
mf: $C_{10}H_{12}N_2O_2$ mw: 192.24
SYNS: ACETONE-o-CARBANILOYLOXIME □ ACETONE-OXIME-N-PHENYLCARBAMATE □ ACETONE OXIME PHENYLURETHANE □ o-(N-PHENYLCARBAMOYL)-PROPANONOXIM (GERMAN) □ 2-PROPANONE, o-((PHENYLAMINO)CARBONYL)OXIME □ PROXIMPHAM (GERMAN)
TOXICITY DATA with REFERENCE:
orl-rat LD50:1540 mg/kg FCTXAV 8,517,70
orl-mus LD50:1300 mg/kg 85DPAN -,-,71/76
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

PEQ750 CAS: 104-68-7 HR: 2
PHENYL CARBITOL
mf: $C_{10}H_{14}O_3$ mw: 182.24
PROP: Liquid. Bp: 207° @ 55 mm, fp: −50°, d: 1.1158 @ 20°/20°, vap press: <0.01 mm @ 20°, vap d: 6.28.
SYNS: DIETHYLENE GLYCOL MONOPHENYL ETHER □ DIETHYLENE GLYCOL PHENYL ETHER □ 2-(2-PHENOXYETHOXY)ETHANOL
TOXICITY DATA with REFERENCE:
skn-rbt 505 mg open MLD UCDS** 8/16/61
eye-rbt 2 mg open SEV AMIHBC 10,61,54
orl-rat LD50:2140 mg/kg AMIHBC 10,61,54
skn-rbt LD50:2120 mg/kg UCDS** 8/16/61
CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and severe eye irritant. Some glycol ethers have dangerous human reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

PER000 CAS: 122-99-6 HR: 2
PHENYL CELLOSOLVE
mf: $C_8H_{10}O_2$ mw: 138.18
PROP: Yellow, brown or clear liquid. Mp: 14°, bp: 242°, flash p: 250°F, d: 1.11 @ 20°/20°, fp: 11−13°.
SYNS: AROSOL □ DOWANOL EP □ DOWANOL EPH □ EMERESSENCE 1160 □ EMERY 6705 □ ETHYLENE GLYCOL MONOPHENYL ETHER □ ETHYLENE GLYCOL PHENYL ETHER □ 2-FENOXYETHANOL (CZECH) □ FENYLCELLOSOLVE (CZECH) □ GLYCOL MONOPHENYL ETHER □ β-HYDROXYETHYL PHENYL ETHER □ 1-HYDROXY-2-PHENOXYETHANE □ PHENOXETHOL □ PHENOXETOL □ PHENOXYETHANOL □ 2-PHENOXYETHANOL □ PHENOXYETHYL ALCOHOL □ PHENOXYTOL □ PHENYLMONOGLYCOL ETHER □ ROSE ETHER
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD UCDS** 6/24/58
skn-rbt 500 mg/24H MOD 28ZPAK -,99,72
eye-rbt 6 mg MOD UCDS** 6/24/58
eye-rbt 250 µg/24H SEV 28ZPAK -,99,72
dni-esc 2000 ppm MCBIA7 28,7,80
oms-esc 2000 ppm MCBIA7 28,7,80
orl-rat LD50:1260 mg/kg JIHTAB 23,259,41
skn-rbt LD50:5000 mg/kg UCDS** 6/24/58
CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
DFG MAK: 20 ppm
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and severe eye irritant. Mutation data reported. Some glycol ethers have dangerous human reproductive effects. Combustible when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes. To fight fire, use CO_2, dry chemical. Used as a solvent for ester-type resins. See also GLYCOL ETHERS.

PER250 CAS: 48145-04-6 HR: 2
PHENYL CELLOSOLVE ACRYLATE
mf: $C_{11}H_{12}O_3$ mw: 192.23
PROP: Colorless to yellowish lquid with pungent odor. Mp: −36°, bp: 11°, d: 1.0998 g/cm^3. Flash pt: 143° C. Sol in water.~
SYNS: CHEMLINK 160 □ EBECRYL 110 □ LIGHT ESTER PO-A □ 2-PHENOXYETHANOL ACRYLATE □ PHENOXYETHYL ACRYLATE □ POA □ 2-PROPENOIC ACID, 2-PHENOXYETHYL ESTER □ R 561 □ SR 339
TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 12/2/71
orl-rat LD50:5190 mg/kg UCDS** 12/2/71
skn-rbt LD50:1800 mg/kg UCDS** 12/2/71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. A skin irritant. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

PER300 CAS: 587-65-5 HR: 3
N-PHENYLCHLOROACETAMIDE
mf: C_8H_8ClNO mw: 169.62
SYNS: ACETAMIDE, 2-CHLORO-N-PHENYL- □ ACETANILIDE, 2-CHLORO- □ CHLOROACETANILIDE □ α-CHLOROACETANILIDE □ 2-CHLOROACETANILIDE □ 2-CHLORO-N-PHENYLACETAMIDE
TOXICITY DATA with REFERENCE:
sce-hmn-lym 300 nmol/L MUREAV 395,159,1997
ipr-rat LD50:810 mg/kg JAPMA8 48,204,1959
ipr-mus LD50:900 mg/kg JAPMA8 48,204,1959
ivn-mus LD50:100 mg/kg CSLNX* NX#00010
SAFETY PROFILE: A poison by intravenous route. Moderately toxic by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

PER500 CAS: 4460-46-2 HR: 3
PHENYLCHLORODIAZIRINE
mf: $C_7H_5ClN_2$ mw: 152.58

PROP: Pale-yellow oil. Bp: 25 @ 0.1 mm.
SAFETY PROFILE: The pure material is a much more shock-sensitive explosive than glycerylnitrate. May explode when heated above 80°C. Product of reaction with phenylacetylene is explosive. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-.

PER600 CAS: 64049-07-6 HR: 3
PHENYL(β-CHLOROVINYL)CHLOROARSINE
mf: $C_8H_7AsCl_2$ mw: 248.97
SYNS: ARSINE, CHLORO(2-CHLOROVINYL)PHENYL- □ PHENYL(β-CHLOROVINYL)CHLORARSINE □ TL 59
TOXICITY DATA with REFERENCE:
ihl-mus LC50:1 g/m^3/10M NTIS** PB158-508
OSHA PEL: TWA 0.5 mg(As)/m^3
SAFETY PROFILE: Poison by inhalation. When heated to decomposition it emits toxic fumes of As and Cl^-.

PER700 CAS: 525-82-6 HR: 3
2-PHENYLCHROMONE
mf: $C_{15}H_{10}O_2$ mw: 222.25
PROP: White powder.
SYNS: ASMACORIL □ 4H-1-BENZOPYRAN-4-ONE, 2-PHENYL- □ CHROMOCOR □ CROMARIL □ FLAVONE □ 2-PHENYL-4H-1-BENZOPYRAN-4-ONE □ PHENYLCHROMONE
TOXICITY DATA with REFERENCE:
dni-hmn:fbr 100 mg/L BCPCA6 33,3823,84
orl-mus LD50:2500 mg/kg JHTCAO 21,193,84
ipr-mus LD50:380 mg/kg FRPSAX 13,561,58
scu-mus LD >400 mg/kg ANTCAO 3,603,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

PER750 CAS: 827-52-1 HR: 3
PHENYLCYCLOHEXANE
mf: $C_{12}H_{16}$ mw: 160.28
PROP: Colorless, oily liquid or plates. Mp: 7−8°, bp: 240.0°, flash p: 210°F (OC), d: 0.938 ± 0.02 @ 25°/15.6°, vap press: 1 mm @ 67.5°.
SYN: CYCLOHEXYLBENZENE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:5000 mg/kg 28ZRAQ -,55,60
ipr-mus LD50:248 mg/kg LIFSAK 31,803,82
ivn-mus LD50:67 mg/kg LIFSAK 31,803,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, fog, mist, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

PES000 CAS: 1444-64-0 HR: 2
2-PHENYL CYCLOHEXANOL
mf: $C_{12}H_{16}O$ mw: 176.28
PROP: Colorless to pale straw-colored liquid. Bp: 276−281°, flash p: 280°F, d: 1.033 @ 25°/25°, vap d: 6.13.
SYN: INSECT REPELLENT 448
TOXICITY DATA with REFERENCE:
orl-mus LD50:5400 mg/kg JPETAB 93,26,48
orl-rbt LD50:2700 mg/kg JPETAB 93,26,48
orl-gpg LD50:1600 mg/kg JPETAB 93,26,48
SAFETY PROFILE: Moderately toxic by ingestion. Can cause dermatitis. Combustible 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. See also ALCOHOLS.

PES500 CAS: 4994-16-5 HR: 3
4-PHENYLCYCLOHEXENE
mf: $C_{12}H_{14}$ mw: 158.26
PROP: New rug odor.
SYNS: BENZENE, 3-CYCLOHEXEN-1-YL- □ 3-CYCLOHEXEN-1-YLBENZENE
TOXICITY DATA with REFERENCE:
orl-rat LD50:>2 g/kg AIHAAP 52,192,91
ihl-rat LC :>60 ppm/6H AIHAAP 52,192,91
SAFETY PROFILE: A poison by inhalation. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PES750 CAS: 712-50-5 HR: 3
PHENYL CYCLOHEXYL KETONE

mf: $C_{13}H_{16}O$ mw: 188.29
PROP: Needles from pet ether. Mp: 59−60°, bp: 164−165° @ 18 mm.
SYN: USAF KF-3
TOXICITY DATA with REFERENCE:
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. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

PET000 CAS: 101-87-1 HR: 2
N-PHENYL-N′-CYCLOHEXYL-p-PHENYLENEDI-AMINE
mf: $C_{18}H_{22}N_2$ mw: 266.42
SYNS: N-FENYL-N'-CYKLOHEXYL-p-FENYLENDIAMIN (CZECH) □ VULKACIT 4010 (CZECH)
TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H MOD 28ZPAK -,73,72
orl-rat LD50:>2 g/kg RCTEA4 45,627,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

PET250 CAS: 125-85-9 HR: 3
1-PHENYLCYCLOPENTANECARBOXYLIC ACID-2-DIETHYLAMINOETHYL ESTER HYDROCHLORIDE
mf: $C_{18}H_{27}NO_2$•ClH mw: 325.92
PROP: Crystals. Mp: 145−146°.
SYNS: CARAMIPHEN □ CARAMIPHENE HYDROCHLORIDE □ DIETHYLAMINOETHYL-1-PHENYLCYCLOPENTANE-1-CARBOXYLATE HYDROCHLORIDE □ GEIGY 2747 □ HYDROCHLORIDE OF 1-PHENYLCYCLOPENTANECARBOXY-LIC ACID DIETHYLAMINOETHYL ESTER □ PANPARNIT □ PARPANIT □ PENTAPHENE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:209 mg/kg JPETAB 96,42,49
ivn-rat LD50:35 mg/kg SMWOAS 76,1282,46
orl-mus LD50:485 mg/kg AIPTAK 134,255,61
ipr-mus LD50:222 mg/kg JPETAB 96,42,49
scu-mus LDLo:500 mg/kg ARZNAD 6,695,56
ivn-mus LD50:36,500 µg/kg EJPHAZ 9,304,70
orl-cat LD50:390 mg/kg JPETAB 96,42,49
ivn-rbt LD50:25 mg/kg JPETAB 96,42,49
scu-gpg LD50:130 mg/kg AIPTAK 137,375,62
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x. Used as an anticholinergic drug.

PET500 CAS: 13492-01-8 HR: 3
PHENYLCYCLOPROMINE SULFATE
mf: $C_{18}H_{20}N_2$•O_4S mw: 360.46
PROP: Crystals.
SYNS: 1-AMINO-2-PHENYLCYCLOPROPANE SULFATE □ CYCLOPROPANAMINE, 2-PHENYL-, trans-(±)-, SULFATE (2:1) □ PARNATE □ trans,D,L-2-PHENYLCYCLOPROPYLAMINE SULFATE □ TRANCYLPROMINE SULFATE □ TRANSAMINE SULFATE □ TRANYLCYPRAMINE SULFATE □ TRANYLCYPROMINE SULFATE □ TRANYLCYPROMINE SULPHATE
TOXICITY DATA with REFERENCE:
orl-man TDLo:34 mg/kg/60D-I AJPSAO 140,1229,83
orl-wmn TDLo:1200 µg/kg/3D-I AJPSAO 144,119,87
ipr-rat LD50:45 mg/kg ABMGAJ 18,617,67
orl-mus LD50:38 mg/kg 27ZQAG -,359,72
ipr-mus LD50:41 mg/kg EJPHAZ 6,115,69
ivn-mus LD50:37 mg/kg 27ZQAG -,359,72
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Human toxic effects by ingestion. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

PET750 CAS: 3721-28-6 HR: 3
trans-2-PHENYLCYCLOPROPYLAMINE
mf: $C_9H_{11}N$ mw: 133.21
SYNS: PARNATE □ trans-2-PHENYL-1-AMINOCYCLOPRO-PANE □ SKF 385 □ TRANILCYPROMINE □ TRANSAMINE □ TRANYLCYPRAMINE □ TRANYLCYPROMINE
TOXICITY DATA with REFERENCE:
cyt-oin-urn 10 g/L JCLBA3 47,182a,70
ipr-rat LD50:30 mg/kg FCTXAV 3,597,65
orl-mus LD50:20 mg/kg BCPCA6 17,369,68
ipr-mus LD50:11,300 µg/kg BRXXAA #1460700
scu-mus LD50:30 mg/kg BCPCA6 17,369,68
SAFETY PROFILE: Poison by ingestion, intraperitoneal, and subcutaneous routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

PET800 CAS: 3282-32-4 HR: 3
PHENYL DIAZOMETHYL KETONE
mf: $C_8H_6N_2O$ mw: 146.16
PROP: Yellow square plates. Mp: 44−48°.
SYNS: ACETOPHENONE, 2-DIAZO- □ DIAZOACETO-PHENONE □ α-DIAZOACETOPHENONE □ omega-DIAZOACETOPHENONE □ 2-DIAZOACETOPHENONE □ DIAZOMETHYL PHENYL KETONE □ 2-DIAZO-1-PHENYLETHANONE □ ETHANONE, 2-DIAZO-1-PHENYL-(9CI)
TOXICITY DATA with REFERENCE:
mmo-omi 4000 ppm/24H-C DKBSAS 183,668,68
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Mutation data reported. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

PEU000 CAS: 56974-46-0 HR: 3
3-PHENYL-5-(DIBUTYLAMINOETHYLAMINO)-1,2,4-OXADIAZOLE HYDROCHLORIDE
mf: $C_{18}H_{28}N_4O$•ClH mw: 352.96
PROP: A solid. Mp: 145°. Sol in H_2O, EtOH, $CHCl_3$.
SYNS: ADREVIL □ BUTALAMINE HYDROCHLORIDE □ 5-((2-(DIBUTYLAMINO)-ETHYL)AMINO)-3-PHENYL-1,2,4-OXADIAZOLE HYDROCHLORIDE □ N,N-DIBUTYL-N'-(3-PHENYL-1,2,4-OXADIAZOL-5-YL)-1,2-ETHANEDIAMINE HYDROCHLORIDE □ HEMOTROPE □ LA 1221 □ SUREM □ SURHEME

TOXICITY DATA with REFERENCE:
orl-rat LD50:1600 mg/kg THERAP 24,745,69
orl-mus LD50:625 mg/kg THERAP 24,745,69
scu-mus LD50:2500 mg/kg THERAP 24,745,69
ivn-mus LD50:43 mg/kg THERAP 24,745,69
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl. Used as a vasodilator. See also AMINES.

PEU100 CAS: 2431-96-1 HR: 2
PHENYL-N,N-DIETHYLACETAMIDE
mf: $C_{12}H_{17}NO$ mw: 191.30
PROP: Colorless to faintly yellow liquid. D: 1.007−-1.014, mp: −5°, bp: 143°. Flash pt: 110° C (OC). Very sparingly sol in water.
SYNS: ACETAMIDE, N,N-DIETHYL-2-PHENYL- □ BENZENE-ACETAMIDE, N,N-DIETHYL-(9CI) □ N,N-DIETHYLBENZENE-ACETAMIDE □ N,N-DIETHYLPHENYLACETAMIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:825 mg/kg IJEBA6 31,755,93
ihl-rat LC50:1375 mg/m^3/4H TXCYAC 67,85,91
skn-rat LD50:1749 mg/kg IJSIDW 49,220,87
orl-mus LD50:900 mg/kg IJEBA6 31,755,93
skn-mus LD50:1600 mg/kg TXCYAC 58,81,89
orl-rbt LD50:635 mg/kg IJEBA6 31,755,93
skn-rbt LD50:3505 mg/kg TOLED5 45,67,89
SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and skin contact. A combustible liquid. When heated to decomposition it emits toxic vapors of NO_x.

PEU500 CAS: 13056-98-9 HR: 2
1-PHENYL-3,3-DIETHYLTRIAZENE
mf: $C_{10}H_{15}N_3$ mw: 177.28
SYNS: 3,3-DIETHYL-1-PHENYLTRIAZENE □ 1-FENYL-3,3-DIETHYLTRIAZEN (CZECH) □ 1-PHENYL-3,3-DIAETHYLTRIAZEN (GERMAN)
TOXICITY DATA with REFERENCE:
mnt-mus-ipr 71 mg/kg/24H MUREAV 56,319,78
cyt-ham:lng 10 mg/L MUREAV 88,197,81
scu-rat TDLo:300 mg/kg:CAR,REP ZKKOBW 81,285,74
scu-rat TDLo:110 mg/kg/(15D preg):CAR,TER IARCCD 4,45,73
orl-rat LD50:520 mg/kg 28ZPAK -,77,72
scu-rat LD50:420 mg/kg ZKKOBW 81,285,74
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PEU545 CAS: 1176-75-6 HR: D
2-(p-(2-PHENYL-3,4-DIHYDRO-1-NAPHTHYL)PHENOXY)TRIETHYLAMINE
mf: $C_{28}H_{32}NO$ mw: 398.61
SYN: TRIETHYLAMINE, 2-(p-(2-PHENYL-3,4-DIHYDRO-1-NAPHTHYL)PHENOXY)-
TOXICITY DATA with REFERENCE:
orl-rat TDLo:3500 µg/kg (female 1D pre) (1-6D post):REP CHINAG (10),408,1963
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

PEU600 CAS: 61001-31-8 HR: D
2-PHENYL-5,6-DIHYDROPYRAZOLO(5,1-a)ISO-QUINOLINE
mf: $C_{17}H_{14}N_2$ mw: 246.33
SYN: 5,6-DIHYDRO-2-PHENYLPYRAZOLO(5,1-a)ISOQUINOLINE
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PEU650 CAS: 55308-57-1 HR: D
2-PHENYL-5,6-DIHYDRO-s-TRIAZOLO(5,1-a)-ISOQUINOLINE
mf: $C_{16}H_{13}N_3$ mw: 247.32
SYNS: 5,6-DIHYDRO-2-PHENYL-(1,2,4)TRIAZOLO(5,1-a)ISOQUINOLINE (9CI) □ L 10499
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PEV500 CAS: 1754-58-1 HR: 3
O-PHENYL-N,N′-DIMETHYL PHOSPHORODI-AMIDATE
mf: $C_8H_{13}N_2O_2P$ mw: 200.20
PROP: Crystals from $CHCl_3/Et_2O$ or CCl_4. Mp: 103−104°. Sltly sol in EtOAc, C_6H_6.
SYNS: DIAMIDAFOS □ DIAMIDFOS □ DOWCO 169 □ NELLITE
TOXICITY DATA with REFERENCE:
orl-rat LD50:140 mg/kg SPEADM 74-1,-,74
orl-rbt LD50:63 mg/kg SPEADM 74-1,-,74
skn-rbt LD50:100 mg/kg FMCHA2 -,C166,83
orl-bwd LD50:13 mg/kg TXAPA9 21,315,72
SAFETY PROFILE: Poison by ingestion and skin contact. When heated to decomposition it emits very toxic fumes of PO_x and NO_x. A pesticide used on tobacco to control rootknot nematodes.

PEV600 CAS: 36981-93-8 HR: 3
2-PHENYL-5,5-DIMETHYL-TETRAHYDRO-1,4-OXAZINE HYDROCHLORIDE
mf: $C_{12}H_{17}NO{\bullet}ClH$ mw: 227.76
SYN: 2-PHENYL-5,5-DIMETHYL-TETRAHYDRO-1,4-OXAZIN HYDROCHLORID (GERMAN)
TOXICITY DATA with REFERENCE:
orl-rbt TDLo:275 mg/kg (7-17D preg):TER ARZNAD 24,1627,74
orl-rat LD50:450 mg/kg ARZNAD 24,1627,74
orl-mus LD50:380 mg/kg ARZNAD 24,1627,74
SAFETY PROFILE: Poison by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

PEV750 CAS: 390-64-7 HR: 3
1-PHENYL-2-(1′,1′-DIPHENYLPROPYL-3′-

AMINO)PROPANE
mf: $C_{24}H_{27}N$ mw: 329.52
SYNS: B-436 □ BISMETHIN □ CARDITIN □ CORPAX □ N-(3,3-DIPHENYLPROPYL)-α-METHYLPHENETHYLAMINE □ ELECOR □ HOSTAGINAN □ N-(1-METHYL-2-PHENYLETHYL)-γ-PHENYLBENZENEPROPANAMINE □ PRENYLAMINE □ SEGONTIN □ SYNADRIN □ VALECOR
TOXICITY DATA with REFERENCE:
orl-man TDLo:13 mg/kg ATXKA8 31,217,74
orl-man TDLo:2816 mg/kg/3Y-I BMJOAE 288,1048,84
orl-wmn TDLo:3600 mg/kg:CVS BMJOAE 2(6087),608,77
ivn-rat LD50:11 mg/kg ARZNAD 20,1362,70
ivn-mus LD50:250 mg/kg TXAPA9 6,676,64
SAFETY PROFILE: Poison by intravenous route. Human systemic effects by ingestion: arrythmia. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PEW000 CAS: 30748-29-9 HR: 3
4-PHENYL-1,2-DIPHENYL-3,5-PYRAZOLIDINE-DIONE
mf: $C_{20}H_{20}N_2O_2$ mw: 320.42
SYNS: ANALUD □ DA 2370 □ FENILPRENAZONE □ FEPRAZONE □ 4-(β-ISOAMYLENYL)-1,2-DIPHENYL-3,5-PYRAZOLIDINEDIONE □ 4-(2-ISOPENTENYL)-1,2-DIPHENYL-3,5-PYRAZOLIDINEDIONE □ METHRAZONE □ 4-(3-METHYL-2-BUTENYL)-1,2-DIPHENYL-3,5-PYRAZOLIDINEDIONE □ PRENAZONE □ 4-PRENYL-1,2-DIPHENYL-3,5-PYRAZOLIDINEDIONE □ ZEPELIN
TOXICITY DATA with REFERENCE:
orl-rat LD50:1343 mg/kg IYKEDH 10,133,79
ipr-rat LD50:362 mg/kg IYKEDH 10,133,79
orl-mus LD50:1067 mg/kg ARZNAD 22,196,72
ipr-mus LD50:270 mg/kg IYKEDH 10,133,79
scu-mus LDLo:374 mg/kg IYKEDH 10,133,79
ivn-mus LD50:180 mg/kg ARZNAD 22,196,72
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PEW250 CAS: 882-33-7 HR: 3
PHENYL DISULFIDE
mf: $C_{12}H_{10}S_2$ mw: 218.34
PROP: White powder or needles from alc. Mp: 62−63°, bp: 310°. Insol in water; sol in alc; very sol in ether.
SYNS: DIPHENYL DISULFIDE □ DISULFIDE DIPHENYL □ USAF E-1
TOXICITY DATA with REFERENCE:
ipr-mus LD50:100 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x. Flammable when exposed to heat or flame. See also SULFIDES.

PEW500 CAS: 123-01-3 HR: 2
1-PHENYLDODECANE
mf: $C_{18}H_{30}$ mw: 246.48
PROP: A liquid. Mp: −7°, bp: 179−180° @ 13 mm, flash p: 285°F, d: 0.9, vap d: 8.47.
SYNS: DETERGENT ALKYLATE □ DODECYLBENZENE □ PHENYLDODECAN (GERMAN)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Probably moderately toxic. Combustible 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.

PEW550 CAS: 23647-94-1 HR: D
3,3′-(1,4-PHENYLENEBIS(CARBONYLIMINO-4,1-PHENYLENECARBONYLIMINO))BIS(1-ETHYLPYRIDINIUM)
mf: $C_{36}H_{34}N_6O_4$ mw: 614.76
SYNS: PYRIDINIUM, 3,3'-(1,4-PHENYLENEBIS(CARBONYLIMINO-4,1-PHENYLENECARBONYLIMINO))BIS(1-ETHYL- □ PYRIDINIUM,-3,3'-(1,4-PHENYLENEBIS(CARBONYLIMINO-4,1-PHENYLENECARBONYLIMINO))BIS(1-ETHYL- □ SN 5754
TOXICITY DATA with REFERENCE:
mic-smc 200 μmol/L EJCODS 19,1575,1983
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

PEW600 CAS: 64059-47-8 HR: 3
(p-PHENYLENEBIS(CARBONYLMETHYL))BIS-(DIMETHYL-2-HYDROXYETHYL-AMMONIUM)DIBROMIDE
mf: $C_{18}H_{32}N_2O_4$•2Br mw: 500.34
SYN: AMMONIUM, (p-PHENYLENEBIS(CARBONYLMETHYL))-BIS(DIMETHYL-2-HYDROXYETHYL-, DIBROMIDE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:900 μg/kg TXAPA9 27,666,1974
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and Br^-.

PEW650 CAS: 63868-81-5 HR: 3
1,1′-(p-PHENYLENEBIS(CARBONYLMETHYL))-DI-3-PICOLINIUM DIBROMIDE
mf: $C_{22}H_{22}N_2O_2$•2Br mw: 506.28
SYN: 3-PICOLINIUM, 1,1'-(p-PHENYLENEBIS(CARBONYL-METHYL))DI-, DIBROMIDE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:105 μg/kg TXAPA9 27,666,1974
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and Br^-.

PEW700 HR: 3
PHENYLENE-p,p′-BIS(2-DIMETHYLBENZYL-AMMONIUMPROPYL) DICHLORIDE
mf: $C_{30}H_{42}N_2$•2Cl mw: 501.64
SYNS: p-PHENYLENEBIS(1-METHYLETHYLENE)BIS(BENZYL-DIMETHYLAMMONIUM CHLORIDE) □ (p-PHENYLENEBIS(1-METHYLETHYLENE))BIS(BENZYLDIMETHYLAMMONIUM) DICHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:96 mg/kg DIPHAH 13,131,61
scu-mus LD50:625 μg/kg AITEAT 14,104,66

ivn-mus LD50:525 µg/kg DIPHAH 13,131,61
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of Cl^-, NO_x, and NH_3. See also CHLORIDES.

PEW725 CAS: 2488-01-9 HR: 2
1,4-PHENYLENEBIS(DIMETHYLSILANE)
mf: $C_{10}H_{18}Si_2$ mw: 194.46
SYNS: 1,4-BIS(DIMETHYLSILYL)BENZENE □ p-PHENYLENE-BIS(DIMETHYLSILANE) □ SILANE, p-PHENYLENEBIS(DI-METHYL)- □ SILANE, 1,4-PHENYLENEBIS(DIMETHYL)-(9CI)
TOXICITY DATA with REFERENCE:
orl-mus LD50:1535 mg/kg 85JCAE -,1235,86
skn-mus LD50:3 g/kg 85JCAE -,1235,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Slightly toxic by skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

PEW750 CAS: 64491-74-3 HR: 2
(1,2-PHENYLENEBIS(IMINOCARBONOTHIO-YL))BIS-CARBAMIC ACID, DIMETHYL ESTER, mixed with 5-ETHOXY-3-(TRI-CHLOROMETHYL)-1,2,4-THIADIAZOLE
mf: $C_{12}H_{14}N_4O_4S_2$•$C_5H_5Cl_3N_2OS$ mw: 589.95
SYN: BANROT
TOXICITY DATA with REFERENCE:
orl-rat LD50:5 g/kg FMCHA2 -,C23,83
skn-rbt LD50:2 g/kg FMCHA2 -,C23,83
SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and Cl^-. Used to control damping off, root and stem rot diseases. See also CARBAMATES.

PEX250 CAS: 539-48-0 HR: 2
p-PHENYLENEBIS(METHYLAMINE)
mf: $C_8H_{12}N_2$ mw: 136.22
PROP: Crystals. Mp: 35°, bp: 230° @ 10 mm.
SYNS: 1,4-BIS-AMINOMETHYLBENZEN (CZECH) □ p-XYLYLENDIAMINE (CZECH)
TOXICITY DATA with REFERENCE:
skn-rbt 750 µg/24H SEV 85JCAE -,448,86
eye-rbt 50 µg/24H SEV 28ZPAK -,64,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A severe skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

PEX275 CAS: 41595-29-3 HR: 2
N,N′-1,4-PHENYLENEBIS(4-METHYLBENZENE-SULFONAMIDE)
mf: $C_{20}H_{20}N_2O_4S_2$ mw: 416.54
SYNS: BENZENESULFONAMIDE, N,N'-1,4-PHENYLENEBIS(4-METHYL- □ p-TOLUENESULFONAMIDE, N,N'-p-PHENYLENEBIS-
TOXICITY DATA with REFERENCE:
ipr-mus LD :>500 mg/kg CBCCT* 6,64,54
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PEX300 HR: 3
m-PHENYLENEBIS(1-METHYLETHYLENE))-BIS(BENZYLDIMETHYLAMMONIUM CHLORIDE)
mf: $C_{30}H_{42}N_2$•2Cl mw: 501.64
SYNS: (m-PHENYLENEBIS(1-METHYLETHYLENE)BIS-(BENZYLDIMETHYLAMMONIUM) DICHLORIDE □ PHENYLENE-m,m'-DI-(2-DIMETHYLBENZYLAMMONIUM-PROPYL) DICHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:87 mg/kg DIPHAH 13,131,61
scu-mus LD50:4500 µg/kg AITEAT 14,104,66
ivn-mus LD50:325 µg/kg DIPHAH 13,131,61
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of Cl^-, NO_x, and NH_3. See also CHLORIDES.

PEX325 HR: 3
m-PHENYLENEBIS(1-METHYLETHYLENE)BIS-(DIMETHYLETHYLAMMONIUM BROMIDE)
mf: $C_{20}H_{38}N_2$•2Br mw: 466.42
SYNS: (m-PHENYLENEBIS(1-METHYLETHYLENE))BIS-(DIMETHYLETHYLAMMONIUM) DIBROMIDE □ PHENYLENE-m,m'-DI(2-DIMETHYLETHYLAMMONIUMPROPYL)DIBROMIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:35 mg/kg DIPHAH 13,131,61
scu-mus LD50:3 mg/kg AITEAT 14,104,66
ivn-mus LD50:1300 µg/kg DIPHAH 13,131,61
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of Br^-, NO_x, and NH_3. See also BROMIDES.

PEX330 HR: 3
p-PHENYLENEBIS(1-METHYLETHYLENE)BIS-(DIMETHYLETHYLAMMONIUM) BROMIDE
mf: $C_{20}H_{39}N_2$•2Br mw: 466.42
SYNS: (p-PHENYLENEBIS(1-METHYLETHYLENE))BIS-(DIMETHYLETHYLAMMONIUM) DIBROMIDE □ PHENYLENE-p,p'-DI(2-DIMETHYLETHYLAMMONIUMPROPYL) DIBROMIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:58 mg/kg DIPHAH 13,131,61
scu-mus LD50:4250 µg/kg AITEAT 14,104,66
ivn-mus LD50:1875 µg/kg DIPHAH 13,131,61
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of Br^-, NO_x, and NH_3. See also BROMIDES.

PEX350 HR: 3
m-PHENYLENEBIS(1-METHYLETHYLENE)BIS-(TRIMETHYLAMMONIUM BROMIDE)
mf: $C_{18}H_{34}N_2$•2Br mw: 438.36
SYNS: (m-PHENYLENEBIS(1-METHYLETHYLENE))BIS-(TRIMETHYLAMMONIUM) DIBROMIDE □ PHENYLENE-m,m'-BIS(2-TRIMETHYLAMMONIUMPROPYL) DIBROMIDE
TOXICITY DATA with REFERENCE:

orl-mus LD50:65 mg/kg DIPHAH 13,131,61
scu-mus LD50:6500 µg/kg AITEAT 14,104,66
ivn-mus LD50:2500 µg/kg DIPHAH 13,131,61
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of Br^-, NO_x, and NH_3. See also BROMIDES.

PEX355 HR: 3
p-PHENYLENEBIS(1-METHYLETHYLENE)-BIS(TRIMETHYLAMMONIUM BROMIDE)
mf: $C_{18}H_{34}N_2$•2Br mw: 438.36
SYNS: (p-PHENYLENEBIS(1-METHYLETHYLENE))BIS-(TRIMETHYLAMMONIUM) DIBROMIDE □ PHENYLENE-p,p'-BIS(2-TRIMETHYLAMMONIUMPROPYL) DIBROMIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:75 mg/kg DIPHAH 13,131,61
scu-mus LD50:10 mg/kg AITEAT 14,104,66
ivn-mus LD50:2500 µg/kg DIPHAH 13,131,61
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of Br^-, NO_x, and NH_3. See also BROMIDES.

PEX500 CAS: 23564-05-8 HR: 2
4,4'-o-PHENYLENEBIS(3-THIOALLOPHANIC ACID)DIMETHYL ESTER
mf: $C_{12}H_{14}N_4O_4S_2$ mw: 342.42
SYNS: BAS 32500F □ o-BIS(3-METHOXYCARBONYL-2-THIOUREIDO)BENZENE □ 1,2-BIS(METHOXYCARBONYL-THIOUREIDO)BENZENE □ 1,2-BIS(3-(METHOXYCARBONYL)-2-THIOUREIDO)BENZENE □ CERCOBIN METHYL □ DIMETHYL-4,4'-o-PHENYLENE-BIS-(3-THIOALLOPHANATE) □ ENOVIT M □ FUNGITOX □ METHYL THIOPHANATE □ NEOTOPSIN □ NF 44 □ PELT-44 □ SIPCAVIT □ TD 1771 □ TOPSIN WP METHYL □ ZYBAN
TOXICITY DATA with REFERENCE:
mmo-smc 5 ppm RSTUDV 6,161,76
sln-asn 14 µmol/L EVHPAZ 31,81,79
orl-rat LD50:6640 mg/kg TXAPA9 23,606,72
ipr-rat LD50:1140 mg/kg TXAPA9 23,606,72
orl-mus LD50:3400 mg/kg TXAPA9 23,606,72
ipr-mus LD50:790 mg/kg TXAPA9 23,606,72
orl-dog LDLo:4000 mg/kg TXAPA9 23,606,72
orl-rbt LD50:2270 mg/kg TXAPA9 23,606,72
orl-gpg LD50:3640 mg/kg TXAPA9 23,606,72
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. Used for plant disease control in vegetables, fruits, and turf. See also ESTERS.

PEX750 CAS: 68772-49-6 HR: 3
1,1'-(p-PHENYLENEBIS(VINYLENE-p-PHENYLENE))BIS(PYRIDINIUM) DI-p-TOLUENESULFONATE
mf: $C_{29}H_{26}N_2$•$2C_7H_7O_3S$ mw: 744.97
TOXICITY DATA with REFERENCE:
dnd-mus:lym 760 nmol/L JMCMAR 22,134,79
ipr-mus LD10:7 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.

PEY000 CAS: 108-45-2 HR: 3
m-PHENYLENEDIAMINE
DOT: UN 1673
mf: $C_6H_8N_2$ mw: 108.16
PROP: White crystals from C_6H_6/hexane. Mp: 65°, bp: 287°, d: 1.139, vap press: 1 mm @ 99.8°. Sol in water, methanol, ethanol, chloroform, acetone; sltly sol in ether, carbon tetrachloride; very sltly sol in benzene, toluene.
SYNS: m-AMINOANILINE □ 3-AMINOANILINE □ APCO 2330 □ m-BENZENEDIAMINE □ 1,3-BENZENEDIAMINE □ C.I. 76025 □ DEVELOPER 11 □ m-DIAMINOBENZENE □ 1,3-DIAMINOBENZENE □ DIRECT BROWN BR □ m-FENYLEN-DIAMIN (CZECH) □ METAPHENYLENEDIAMINE □ 1,3-PHENYLENEDIAMINE □ m-PHENYLENEDIAMINE (DOT) □ PHENYLENEDIAMINE, META, solid (DOT)
TOXICITY DATA with REFERENCE:
bfa-rat/sat 240 mg/kg MUREAV 138,137,84
cyt-ham:lng 12 mg/L GMCRDC 27,95,81
scu-rat TDLo:1485 mg/kg/47W-I:ETA KJMSAH 13,175,62
orl-rat LD50:280 mg/kg GISAAA 53(7),62,88
unr-mus LD50:65,300 µg/kg GTPZAB 31(8),46,87
orl-mus LD50:67,700 µg/kg GISAAA 53(7),62,88
ipr-rat LD50:283 mg/kg JTEHD6 2,657,77
scu-rat LDLo:30 mg/kg ZEPTAT 17,59,15
ipr-mus LDLo:400 mg/kg RBPMAZ 22,1,52
ivn-dog LDLo:17 mg/kg JIDHAN 4,386,23
orl-cat LDLo:300 mg/kg JIDHAN 4,386,23
orl-rbt LDLo:300 mg/kg JIDHAN 4,386,23
skn-rbt LDLo:5000 mg/kg JTEHD6 2,657,77
scu-rbt LDLo:200 mg/kg JIDHAN 4,386,23
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 16,111,78. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
ACGIH TLV: TWA 0.1 mg/m^3; Not Classifiable as a Human Carcinogen
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD
SAFETY PROFILE: Suspected carcinogen with experimental tumorigenic and teratogenic data. Poison by ingestion, intravenous, subcutaneous, and intraperitoneal routes. Mildly toxic by skin contact. Mutation data reported. Combustible when exposed to heat or flame. A hair dye ingredient. When heated to decomposition it emits toxic fumes of NO_x. See also other phenylenediamine entries and AMINES.

PEY250 CAS: 95-54-5 HR: 3
o-PHENYLENEDIAMINE
DOT: UN 1673
mf: $C_6H_8N_2$ mw: 108.16
PROP: Tan crystals or leaflets from water. Mp: 104°, bp: 257°. Sltly sol in water; very sol in alc, chloroform, ether.
SYNS: 2-AMINOANILINE □ o-BENZENEDIAMINE □ 1,2-BENZENEDIAMINE □ C.I. 76010 □ C.I. OXIDATION BASE 16 □

o-DIAMINOBENZENE □ 1,2-DIAMINOBENZENE □ EK 1700 □ NSC-5354 □ ORTHAMINE □ 1,2-PHENYLENEDIAMINE (DOT)

TOXICITY DATA with REFERENCE:
mma-sat 1 µmol/plate JTSCDR 7,61,82
mnt-gpg-ipr 216 mg/kg/24H ARTODN 43,249,80
scu-rat LDLo:600 mg/kg AIPTAK 36,140,30
ihl-rat LC50:1873 mg/m^3 GISAAA 51(1),73,86
skn-rat LD50:>5 g/kg 85INA8 6,1214,91
orl-rat LD50:1070 mg/kg JTEHD6 2,657,77
ipr-rat LD50:516 mg/kg JTEHD6 2,657,77
unr-rat LD50:660 mg/kg GISAAA 51(1),73,86
orl-gpg LD50:360 mg/kg GISAAA 53(7),62,88
unr-gpg LD50:360 mg/kg GISAAA 51(1),73,86
orl-cat LDLo:250 mg/kg 85INA8 6,1214,91
orl-mus LD50:366 mg/kg GISAAA 53(7),62,88
ihl-mus LC50:>91 mg/m^3/4H 85INA8 6,1214,91
ipr-mus LD50:245 mg/kg NCISP* JAN86
scu-mus LD50:450 mg/kg KJMSAH 13,175,62
skn-rbt LDLo:5000 mg/kg JTEHD6 2,657,77
orl-bwd LD50:133 mg/kg AECTCV 12,355,83

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

ACGIH TLV: TWA 0.1 mg/m^3; Animal Carcinogen

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Confirmed carcinogen. Poison by ingestion and intraperitoneal routes. Moderately toxic by subcutaneous route. Mildly toxic by skin contact. Mutation data reported. A pesticide and pharmaceutical. When heated to decomposition it emits toxic fumes of NO_x. See also other phenylenediamine entries and AMINES.

PEY500 CAS: 106-50-3 HR: 3
p-PHENYLENEDIAMINE

DOT: UN 1673
mf: $C_6H_8N_2$ mw: 108.16

PROP: White to sltly red crystals or leaflets from Et_2O. Mp: 146°, flash p: 312°F, vap d: 3.72, bp: 267°. Sol in alc, chloroform, ether. IDLH 25 mg/m^3.

SYNS: p-AMINOANILINE □ 4-AMINOANILINE □ BASF URSOL D □ p-BENZENEDIAMINE □ 1,4-BENZENEDIAMINE □ BENZOFUR D □ C.I. 76060 □ C.I. DEVELOPER 13 □ C.I. OXIDATION BASE 10 □ DEVELOPER 13 □ DEVELOPER PF □ p-DIAMINOBENZENE □ 1,4-DIAMINOBENZENE □ DURAFUR BLACK R □ FENYLENODWUAMINA (POLISH) □ FOURAMINE D □ FOURRINE D □ FOURRINE 1 □ FUR BLACK 41867 □ FUR BROWN 41866 □ FURRO D □ FUR YELLOW □ FUTRAMINE D □ NAKO H □ ORSIN □ PARA □ PARAPHENYLEN-DIAMINE □ PELAGOL D □ PELAGOL DR □ PELAGOL GREY D □ PELTOL D □ 1,4-PHENYLENEDIAMINE □ PHENYLENEDIAMINE, PARA, solid (DOT) □ PPD □ RENAL PF □ SANTOFLEX IC □ TERTRAL D □ URSOL D □ USAF EK-394 □ VULKANOX 4020 □ ZOBA BLACK D

TOXICITY DATA with REFERENCE:
skn-hmn 250 mg/24H MLD JSCCA5 23,371,72
skn-mus 250 mg/24H MLD JSCCA5 23,371,72
skn-dog 250 mg/24H MLD JSCCA5 23,371,72
skn-rbt 12,500 µg/24H MLD FCTXAV 15,607,77
skn-rbt 250 mg/24H MOD JSCCA5 23,371,72
skn-pig 250 mg/24H MLD JSCCA5 23,371,72
skn-gpg 250 mg/24H MLD JSCCA5 23,371,72
mma-sat 10 µg/plate BCPCA6 26,729,77
otr-rat:emb 1850 ng/plate JJATDK 1,190,81
sln-dmg-orl 15,500 µmol/L/3D MUREAV 48,181,77
orl-man TDLo:71 mg/kg HUTODJ 8,345,89
orl-rat LD50:80 mg/kg JTEHD6 2,657,77
ivn-rat LDLo:50 mg/kg BSRSA6 41,302,72
scu-mus LDLo:140 mg/kg JSCCA5 12,500,61
ipr-rbt LDLo:150 mg/kg JIDIAQ 42,473,28
ivn-rbt LDLo:300 mg/kg AIMDAP 36,724,25
ipr-rat LD50:37 mg/kg JTEHD6 2,657,77
scu-rat LDLo:170 mg/kg JIDHAN 4,386,23
ipr-mus LD50:50 mg/kg NTIS** AD277-689
scu-dog LDLo:100 mg/kg XPHBAO 271,40,41
ivn-dog LDLo:17 mg/kg JIDHAN 4,386,23
orl-cat LDLo:100 mg/kg JIDHAN 4,386,23
orl-rbt LDLo:250 mg/kg JIDHAN 4,386,23
skn-rbt LDLo:5000 mg/kg JTEHD6 2,657,77
scu-rbt LDLo:200 mg/kg JIDHAN 4,386,23

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 16,125,78. Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 0.1 mg/m^3 (skin)

ACGIH TLV: TWA 0.1 mg/m^3 (skin); Not Classifiable as a Human Carcinogen

DFG MAK: 0.1 mg/m^3 as total dust; Confirmed Animal Carcinogen with Unknown Relevance to Humans

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Suspected carcinogen with experimental tumorigenic data. Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Mildly toxic by skin contact. A human skin irritant. Mutation data reported. Implicated in aplastic anemia. Can cause fatal liver damage. The p-form is more toxic and a stronger irritant than the o- and m- isomers. When used as a hair dye it caused vertigo, anemia, gastritis, exfoliative dermatitis, and death. Has caused asthma and other respiratory symptoms in the fur-dyeing industry. Combustible when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use water, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phenylenediamine entries and AMINES.

PEY600 CAS: 615-28-1 HR: 3
o-PHENYLENEDIAMINE DIHYDROCHLORIDE

mf: $C_6H_8N_2$•2ClH mw: 181.08

PROP: Needles. Very sol in water.

SYN: USAF EK-678

TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate EMMUEG 19(Suppl 21),2,92
orl-mus TDLo:260 g/kg/78W-C:CAR JEPTDQ 2,325,78
orl-mus TD:518 g/kg/78W-C:CAR JEPTDQ 2,325,78
ipr-rat LD50:290 mg/kg NCIBR* NIH-NCI-E-68-1311,10,73
ipr-mus LD50:200 mg/kg NTIS** AD414-344

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also other phenylenediamine entries and AMINES.

PEY650 CAS: 624-18-0 HR: 3
p-PHENYLENEDIAMINE DIHYDROCHLORIDE
mf: $C_6H_8N_2$•2ClH mw: 181.08
PROP: Colorless triclinic. Very sol in water; sltly sol in alc; insol in HCl.
SYNS: p-AMINOANILINE DIHYDROCHLORIDE ☐ 4-AMINOANILINE DIHYDROCHLORIDE ☐ p-BENZENEDIAMINE DIHYDROCHLORIDE ☐ 1,4-BENZENEDIAMINE DIHYDROCHLORIDE ☐ C.I. 76061 ☐ C.I. OXIDATION BASE 10A ☐ p-DIAMINOBENZENE DIHYDROCHLORIDE ☐ 1,4-DIAMINOBENZENE DIHYDROCHLORIDE ☐ DURAFUR BLACK RC ☐ FOURINE DS ☐ FOURRINE 64 ☐ NCI-C03930 ☐ OXIDATION BASE 10A ☐ p-PDA HCl ☐ p-PD HCl ☐ PELAGOL CD ☐ PELAGOL GREY CD ☐ 1,4-PHENYLENEDIAMINE DIHYDROCHLORIDE ☐ p-PHENYLENEDIAMINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
mma-sat 33,300 ng/plate ENMUDM 7(Suppl 5),1,85
mma-esc 333 µg/plate ENMUDM 7(Suppl 5),1,85
orl-rat LD50:147 mg/kg NCILB* NIH-NCI-E-C-72-3252
orl-mus LD50:316 mg/kg NCILB* NIH-NCI-E-C-72-3252
scu-mus LDLo:50 mg/kg XPHBAO 271,42,41
scu-dog LDLo:10 mg/kg XPHBAO 271,42,41
scu-rbt LDLo:20 mg/kg XPHBAO 271,42,41
scu-frg LDLo:10 mg/kg XPHBAO 271,42,41
CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 16,125,78. NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-174,79. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and subcutaneous routes. Questionable carcinogen. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HCl. Used as an analytical reagent. See also other phenylenediamine entries and AMINES.

PEY750 CAS: 541-69-5 HR: 3
m-PHENYLENEDIAMINE HYDROCHLORIDE
mf: $C_6H_8N_2$•2ClH mw: 181.08
PROP: Colorless needles. Very sol in water; sltly sol in alc, ether.
SYNS: m-AMINOANILINE DIHYDROCHLORIDE ☐ 3-AMINOANILINE DIHYDROCHLORIDE ☐ m-BENZENEDI-AMINE DIHYDROCHLORIDE ☐ 1,3-BENZENEDIAMINE HYDROCHLORIDE ☐ m-DIAMINOBENZENE DIHYDROCHLORIDE ☐ 1,3-DIAMINOBENZENE DIHYDROCHLORIDE ☐ 1,3-PHENYLENEDIAMINE DIHYDROCHLORIDE ☐ USAF EK-206
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate ENMUDM 7,535,85
ipr-rat LD50:325 mg/kg NCIBR* NIH-NCI-E-68-1311,10,73
ipr-mus LD50:100 mg/kg NTIS** AD414-344
CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 16,111,78. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also other phenylenediamine entries and AMINES.

PEY800 CAS: 88-45-9 HR: D
p-PHENYLENEDIAMINESULFONIC ACID
mf: $C_6H_8N_2O_3S$ mw: 188.22
SYNS: BENZENESULFONIC ACID, 2,5-DIAMINO- ☐ 2,5-DIAMINOBENZENE SULFONIC ACID
TOXICITY DATA with REFERENCE:
dns-rat:lvr 100 µmol/L MUREAV 206,183,88
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.

PFA250 CAS: 88-63-1 HR: 2
1,3-PHENYLENEDIAMINE-4-SULFONIC ACID
mf: $C_6H_8N_2O_3S$ mw: 188.22
PROP: Plates and prisms from H_2O.
SYNS: o-AMINOSULFANILIC ACID ☐ 1,3-DIAMINOBENZENE-SULFONIC ACID ☐ 2,4-DIAMINOBENZENESULFONIC ACID ☐ 1,3-DIAMINO-BENZENE-4-SULFONIC ACID ☐ 1,3-DIAMINO-BENZENE-6-SULFONIC ACID ☐ KYSELINA-2,4-DIAMINO-BENZEN-SULFONOVA (CZECH) ☐ KYSELINA-1,3-FENYLENDI-AMIN-4-SULFONOVA (CZECH) ☐ m-PHENYLENEDIAMINE-SULFONIC ACID ☐ m-PHENYLENEDI-AMINE-4-SULFONIC ACID
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD 28ZPAK -,180,72
eye-rbt 20 mg/24H SEV 28ZPAK -,180,72
orl-rat LD50:3480 mg/kg 28ZPAK -,180,72
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 very toxic fumes of NO_x and SO_x.

PFA300 CAS: 104-49-4 HR: 3
1,4-PHENYLENE DIISOCYANATE
mf: $C_8H_4N_2O_2$ mw: 160.14
SYNS: BENZENE, 1,4-DIISOCYANATO- ☐ 1,4-DIISOCYANATOBENZENE ☐ ISOCYANIC ACID, p-PHENYLENE ESTER (6CI,7CI,8CI) ☐ p-PHENYLENE DIISOCYANATE ☐ p-PHENYLENE ISOCYANATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg SEV NTIS** OTS0530176
ihl-rat LCLo:335 mg/m^3/4H NTIS** OTS0543429
SAFETY PROFILE: A poison by inhalation. A severe skin irritant. When heated to decomposition it emits toxic vapors of NO_x.

PFA500 CAS: 4044-65-9 HR: 3
1,4-PHENYLENEDIISOTHIOCYANIC ACID
mf: $C_8H_4N_2S_2$ mw: 192.26

PROP: Needles from Me_2CO; tasteless, odorless, colorless crystals. Mp: 132°.
SYNS: BISCOMATE □ BITOSCANATE □ 1,4-DIISOTHIOCYANATOBENZENE □ ISOTHIOCYANIC ACID-p-PHENYLENE ESTER □ JONIT □ PHENYLENE-1,4-DIISOTHIOCYANATE □ PHENYLENE THIOCYANATE
TOXICITY DATA with REFERENCE:
orl-hmn TDLo:3 mg/kg:CNS,GIT JTMHA9 72,252,69
orl-rat LD50:21 mg/kg JTMHA9 72,253,69
orl-mus LD50:230 mg/kg FAZMAE 17,108,73
ipr-mus LD50:21 mg/kg FAZMAE 17,108,73
CONSENSUS REPORTS: Cyanide 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 intraperitoneal routes. Human systemic effects by ingestion: hallucinations, nausea. When heated to decomposition it emits very toxic fumes of NO_x, CN^-, and SO_x. See also THIOCYANATES.

PFA600 CAS: 1477-20-9 HR: D
N,N′-(p-PHENYLENEDIMETHYLENE)BIS(2,2-DICHLORO-N-ETHYLACETAMIDE)
mf: $C_{16}H_{26}Cl_4N_2O_2$ mw: 420.24
SYNS: N,N'-BIS(DICHLOROACETYL)-N,N'-DIETHYL-1,4-XYLYLENEDIAMINE □ N,N'-(1,4-PHENYLENEBIS(METHYLENE))BIS(2,2-DICHLORO-N-ETHYL-ACETAMIDE (9CI) □ WIN 13,099
TOXICITY DATA with REFERENCE:
spm-hmn-orl 3800 mg/kg/19W TXAPA9 3,1,61
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Human reproductive effects by ingestion: changes in testes, epididymis, sperm duct and spermatogenesis. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

PFA750 CAS: 4561-43-7 HR: 3
PHENYLETHANOL AMINE HYDROCHLORIDE
mf: $C_8H_{11}NO{\bullet}ClH$ mw: 173.66
SYNS: 1-PHENYL-2-AMINO-1-ETHANOL, HYDROCHLORIDE □ α-PHENYL-β-AMINOETHANOL HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
scu-rat LDLo:320 mg/kg JPETAB 71,62,41
orl-mus LDLo:1250 mg/kg QJPPAL 9,203,36
ipr-mus LD50:520 mg/kg AEPPAE 237,171,59
ivn-mus LDLo:275 mg/kg QJPPAL 9,203,36
ivn-rbt LDLo:38 mg/kg JPETAB 32,121,27
scu-gpg LDLo:1000 mg/kg JACSAT 52,3317,30
SAFETY PROFILE: Poison by intravenous and subcutaneous routes. Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also AMINES.

PFA850 CAS: 101-84-8 HR: 2
PHENYL ETHER
mf: $C_{12}H_{10}O$ mw: 170.22
PROP: Colorless low-melting crystals; geranium odor. Mp: 37−39°, bp: 259°, flash p: 239°F, d: 1.0728 @ 20°, vap d: 5.86, autoign temp: 1148°F, lel: 0.8%, uel: 1.5%. IDLH 100 ppm.
SYNS: BIPHENYL OXIDE □ DIPHENYL ETHER □ DIPHENYL OXIDE □ GERANIUM CRYSTALS □ PHENOXYBENZENE
TOXICITY DATA with REFERENCE:
eye-rat 10 ppm/140H TXAPA9 33,78,75
skn-rbt 500 mg/24H MLD FCTXAV 12,707,74
eye-rbt 10 ppm/140H TXAPA9 33,78,75
orl-rat LD50:3370 mg/kg FCTXAV 12,707,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: Vapor: TWA 1 ppm
ACGIH TLV: TWA 1 ppm; STEL 2 ppm (vapor)
DFG MAK: 1 ppm (7.1 mg/m^3)
NIOSH REL: (Phenyl Ether, vapor) TWA 1 ppm
SAFETY PROFILE: Moderately toxic by ingestion. Prolonged exposure damages liver, spleen, kidneys, and thyroid, and upsets gastrointestinal tract. A skin and eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. For explosion hazard, see ETHERS. To fight fire, use water, foam, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Phenyl Ether S72.

PFA860 CAS: 8004-13-5 HR: 3
PHENYL ETHER-BIPHENYL MIXTURE
mf: $C_{12}H_{10}{\bullet}C_{12}H_{10}O$ mw: 324.44
PROP: Eutectic mixture 73.5% phenylether and 26.5% biphenyl by weight (MELAAD 48,247,57). IDLH 10 ppm.
SYNS: BIPHENYL, mixed with BIPHENYL OXIDE (3:7) □ BIPHENYL-DIPHENYL ETHER mixture □ 1,1'-BIPHENYL, mixed with 1,1'-OXYBIS(BENZENE) □ DINIL □ DINYL □ DIPHENYL mixed with DIPHENYL OXIDE □ DIPHYL □ DOWTHERM □ DOWTHERM A
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK -,271,72
eye-rbt 500 mg/24H MLD 28ZPAK -,271,72
ihl-hmn TCLo:3 ppm:IRR 28ZRAQ -,204,60
orl-rat LD50:2460 mg/kg 28ZPAK -,271,72
orl-mus LD50:3210 mg/kg GTPZAB 1342,69
orl-rbt LD50:4200 mg/kg 85GMAT -,61,82
orl-gpg LD50:3 g/kg 85GMAT -,61,82
OSHA PEL: Vapor: TWA 1 ppm
NIOSH REL: (Phenyl Ether-Biphenyl Mixture, vapor) TWA 1 ppm
SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion. Human systemic effects by inhalation: unspecified effects on the sense of smell, conjunctiva irritation, and unspecified respiratory effects. A mild skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Phenyl Ether-Biphenyl Mixture S73.

PFB000 CAS: 10402-90-1 HR: 3
1-(2-PHENYL-2-ETHOXYETHYL)-4-(2-BENZYLOXYPROPYL)PIPERAZINE
mf: $C_{24}H_{32}N_2O_2$ mw: 380.58

SYNS: 3-(4-(β-ETHOXYPHENETHYL)-1-PIPERAZINYL)-2-METHYLPROPIOPHENONE □ 3-(4-(2-ETHOXY-2-PHENYL-ETHYL)-1-PIPERAZINYL)-2-METHYL-1-PHENYL-1-PROPANONE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:111 mg/kg OYYAA2 2,314,68
scu-mus LD50:246 mg/kg OYYAA2 2,314,68

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

PFB250 CAS: 103-45-7 HR: 2
2-PHENYLETHYL ACETATE
mf: $C_{10}H_{12}O_2$ mw: 164.22

PROP: Colorless liquid; sweet, rosy, honey odor. Mp: 164.2°, bp: 223.6°, fp: <−20°, flash p: 230°F, d: 1.032 @ 25°/25°, refr index: 1.497−1.501. Sol in alc, fixed oils, propylene glycol; insol in glycerin, water @ 232°.

SYNS: ACETIC ACID-2-PHENYLETHYL ESTER □ BENZYLCARBINYL ACETATE □ FEMA No. 2857 □ β-PHENETHYL ACETATE □ 2-PHENETHYL ACETATE □ β-PHENYLETHYL ACETATE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 12,957,74
orl-rat LD50:3670 mg/kg VPITAR 33(5),48,74
orl-mus LD50:3670 mg/kg VPITAR 33(5),48,74
orl-gpg LD50:3670 mg/kg VPITAR 33(5),48,74
skn-rbt LD50:6210 mg/kg FCTXAV 12,807,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PFB350 CAS: 90-49-3 HR: 2
PHENYLETHYLACETYLUREA
mf: $C_{11}H_{14}N_2O_2$ mw: 206.27

PROP: dl-Form: Needles from ethanol. Mp: 149−150°. d-Form: Needles from ethanol. Mp: 168−169°. l-Form: Crystals from 50% ethanol. Mp: 162−163°.

SYNS: BENURIDE □ ETHYLPHENACEMIDE □ 1-((ETHYL)PHENYLACETYL)UREA □ LIRCAPYL □ M 551 □ PHENETURIDE □ PHENURIDE □ N-(α-PHENYLBUTYR-YL)UREA □ 2-PHENYLBUTYRYLUREA □ PHENYLETHYL-ACETYLUREE (FRENCH) □ S 46

TOXICITY DATA with REFERENCE:
orl-rat LD50:1143 mg/kg ARZNAD 18,524,68
orl-mus LD50:910 mg/kg NIIRDN 6,114,82
orl-rbt LDLo:1000 mg/kg AIPTAK 91,437,52
orl-gpg LD50:641 mg/kg AIPTAK 91,437,52

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

PFB500 CAS: 2842-37-7 HR: 2
2-PHENYLETHYLAMINOETHANOL
mf: $C_{10}H_{15}NO$ mw: 165.26

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 LD50:1870 mg/kg AMIHBC 10,61,54
skn-rbt LD50:3 g/kg AMIHBC 10,61,54

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.

PFB750 CAS: 94-47-3 HR: 2
2-PHENYLETHYL BENZOATE
mf: $C_{15}H_{14}O_2$ mw: 226.29

PROP: Yellow liquid. Bp: 177−178° @ 8 mm. Insol in water; sol in alc, ether.

SYNS: BENZYL CARBINYL BENZOATE □ PHENETHYL ALCOHOL, BENZOATE □ PHENETHYL BENZOATE □ PHENYLETHYL BENZOATE □ β-PHENYLETHYL BENZOATE

TOXICITY DATA with REFERENCE:
orl-rat LD50:5000 mg/kg FCTXAV 13,681,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion route. Combustible when exposed to flame. When heated to decomposition it emits acrid smoke and irritating fumes. An insecticide. See also BENZOIC ACID.

PFB770 CAS: 103-63-9 HR: 2
2-PHENYLETHYL BROMIDE
mf: C_8H_9Br mw: 185.08

SYNS: BENZENE, (2-BROMOETHYL)- □ β-BROMOETHYL-BENZENE □ (2-BROMOETHYL)BENZENE □ PHENETHYL BROMIDE □ β-PHENETHYL BROMIDE □ 2-PHENETHYL BROMIDE □ PHENYLETHYL BROMIDE □ β-PHENYLETHYL BROMIDE

TOXICITY DATA with REFERENCE:
orl-rat LD50:811 mg/kg NTIS** OTS0536710

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

PFB800 CAS: 103-52-6 HR: 2
PHENYLETHYL BUTYRATE
mf: $C_{12}H_{16}O_2$ mw: 192.28

SYNS: BENZYLCARBINYL BUTYRATE □ 2-PHENETHYL BUTANOATE □ β-PHENETHYL N-BUTANOATE □ PHENETHYL BUTYRATE □ 2-PHENYLETHYL BUTYRATE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 17,859,79
orl-rat LD50:4600 mg/kg FCTXAV 17,889,79
orl-rbt LDLo:2 g/kg JEENAI 48,139,55

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 ESTERS.

PFB850 CAS: 63951-12-2 HR: 3
N-PHENYL-N-ETHYL-N′,N′-DIETHYL ETHYLENEDIAMINE HYDROCHLORIDE
mf: $C_{14}H_{24}N_2{\bullet}ClH$ mw: 256.86

SYNS: ANILINE, N-DIETHYLAMINOETHYL-N-ETHYL-, HYDROCHLORIDE □ COMPOUND 1571 F □ CORPS 1571 F □

DIETHYLAMINOETHYL ETHYLANILINE □ ETHYLENEDIAMINE, N-PHENYL-N,N,N'-TRIETHYL-, HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
ipr-rat LD50:142 mg/kg JPETAB 83,120,45
scu-rat LD50:750 mg/kg AIPTAK 68,339,42
scu-mus LDLo:400 mg/kg AIPAAV 63,485,39
ivn-mus LDLo:30 mg/kg AIPAAV 63,485,39
scu-rbt LDLo:250 mg/kg AIPAAV 63,485,39
ivn-rbt LDLo:25 mg/kg AIPAAV 63,485,39
scu-gpg LDLo:250 mg/kg AIPAAV 63,485,39
ivn-gpg LDLo:30 mg/kg AIPAAV 63,485,39

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

PFC100 CAS: 10138-63-3 HR: 1
β-PHENYLETHYL ESTER HYDRACRYLIC ACID
mf: $C_{11}H_{14}O_3$ mw: 194.25
SYN: PHENETHYL ESTER HYDRACRYLIC ACID

TOXICITY DATA with REFERENCE:
orl-rat LD50:7800 mg/kg JPETAB 93,26,48
skn-rat LD50:10 g/kg JPETAB 93,26,48
orl-mus LD50:4600 mg/kg JPETAB 93,26,48

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

PFC250 CAS: 104-62-1 HR: 2
2-PHENYLETHYL FORMATE
mf: $C_9H_{10}O_2$ mw: 150.19
SYNS: BENZYLCARBINYL FORMATE □ PHENETHYL ALCOHOL, FORMATE □ PHENETHYL FORMATE □ β-PHENYLETHYL FORMATE

TOXICITY DATA with REFERENCE:
orl-rat LD50:3220 mg/kg FCTXAV 12,807,74
skn-rbt LD50:>5 g/kg FCTXAV 12,959,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PFC500 CAS: 51-71-8 HR: 3
2-PHENYLETHYLHYDRAZINE
mf: $C_8H_{12}N_2$ mw: 136.22
PROP: Oil. Bp: 137−139° @ 12−13°.
SYNS: 1-HYDRAZINO-2-PHENYLETHANE □ NARDIL □ PHENELZINE □ PHENETHYLHYDRAZINE □ β-PHENYLETHYLHYDRAZINE □ STINERVAL □ W 1544

TOXICITY DATA with REFERENCE:
oms-bcs 10 mmol/L MUREAV 5,343,68
orl-chd TDLo:7500 μg/kg:CNS AJDCAI 130,507,76
orl-mus LD50:130 mg/kg BCPCA6 17,369,68
ipr-mus LD50:135 mg/kg FATOAO 32,526,69
scu-mus LD50:150 mg/kg BCPCA6 17,369,68

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and subcutaneous routes. Human systemic effects by ingestion: ataxia, somnolence. An experimental teratogen. Experimental reproductive effects. Mutation data reported. Used as an antidepressant. When heated to decomposition it emits toxic fumes of NO_x.

PFC750 CAS: 156-51-4 HR: 3
β-PHENYLETHYLHYDRAZINE SULFATE
mf: $C_8H_{12}N_2{\bullet}H_2O_4S$ mw: 234.30
SYNS: ALACINE □ ALAZIN □ ALAZINE □ EP-411 □ ESTINERVAL □ FELAZINE □ FENELZIN □ 1-HYDRAZINO-2-PHENYLETHANE HYDROGEN SULPHATE □ KALGAN □ MAO-REM □ MONOPHEN □ MONOTEN □ N-1544A □ NARDELZINE □ NARDIL □ P 1531 □ PHENALZINE □ PHENALZINE DIHYDROGEN SULFATE □ PHENALZINE HYDROGEN SULPHATE □ PHENELZIN □ PHENELZINE ACID SULFATE □ PHENELZINE BISULPHATE □ PHENELZINE SULFATE □ PHENETHYLHYDRAZINE SULFATE (1:1) □ PHENLINE □ PHENODYNE □ PHENYLAETHYL-HYDRAZIN □ β-PHENYLETHYLHYDRAZINE DIHYDROGEN SULFATE □ 2-PHENYLETHYLHYDRAZINE DIHYDROGEN SULPHATE □ β-PHENYLETHYLHYDRAZINE HYDROGEN SULPHATE □ PHENYLETHYLHYDRAZINE SULPHATE □ S 1544 □ STINERVAL

TOXICITY DATA with REFERENCE:
mma-sat 800 μg/plate NEZAAQ 33,474,78
dnr-esc 4300 nmol/plate JTEHD6 9,287,82
orl-mus TDLo:28 g/kg/77W-C:NEO CNREA8 36,917,76
orl-hmn TDLo:1070 μg/kg/D:CNS,GIT,CVS 34ZIAG -,461,69
orl-man TDLo:46 mg/kg/10W-I:LIV, AJMEAZ 80,689,86
orl-wmn TDLo:18 mg/kg ANASAB 41,53,86
orl-rat LD50:210 mg/kg ANYAA9 107,899,63
orl-mus LD50:156 mg/kg ANYAA9 107,899,63
ipr-mus LD50:162 mg/kg JMCMAR 18,20,75
scu-mus LD50:125 mg/kg JOENAK 30,205,64
ivn-mus LD50:157 mg/kg ANYAA9 107,899,63

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,312,87; Human Inadequate Evidence IMEMDT 24,175,80; Animal Limited Evidence IMEMDT 24,175,80. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. Human systemic effects by ingestion: wakefulness, blood pressure lowering, constipation, hepatitis, fibrous hepatitis. Experimental reproductive effects. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. Used as a drug for the treatment of depression. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

PFC775 CAS: 27254-37-1 HR: 3
2-PHENYLETHYL HYDROPEROXIDE
mf: $C_8H_{10}O_2$ mw: 138.17

SAFETY PROFILE: Decomposes violently at room temperature. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES.

PFD250 CAS: 55719-85-2 HR: 1
PHENYLETHYL-α-METHYLBUTENOATE
mf: $C_{13}H_{16}O_2$ mw: 204.29
SYNS: PHENETHYL TIGLATE □ PHENYLETHYL TIGLATE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 13,681,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PFD325 CAS: 3558-60-9 HR: 2
PHENYLETHYL METHYL ETHER
mf: $C_9H_{12}O$ mw: 136.21
PROP: Fragrant liquid. Bp: 189−190°.
SYNS: METHYL PHENETHYL ETHER ◻ METHYL 2-PHENETHYL ETHER ◻ METHYL PHENYLETHYL ETHER ◻ β-PHENYLETHYL METHYL ETHER
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTOD7 20(Suppl),807,82
orl-rat LD50:4100 mg/kg FCTOD7 20(Suppl),807,82
skn-rbt LD50:3970 mg/kg FCTOD7 20(Suppl),807,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

PFD400 CAS: 1988-89-2 HR: 3
4-(1-PHENYLETHYL)PHENOL
mf: $C_{14}H_{14}O$ mw: 198.28
SYNS: 4-(1-FENYLETHYL)FENOL ◻ p-(α-METHYLBENZYL)PHENOL ◻ 4-(α-METHYLBENZYL)PHENOL ◻ PHENOL, p-(α-METHYLBENZYL)- ◻ PHENOL, 4-(1-PHENYLETHYL)- ◻ 4-(PHENYLETHYLIDENE)PHENOL ◻ STYROLFENOL
TOXICITY DATA with REFERENCE:
orl-frg LD50:330 mg/kg GTPZAB 12(12),44,68
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PFD500 CAS: 78219-38-2 HR: 3
β-2-PHENYLETHYLPIPERIDINOETHYL BENZOATE HYDROCHLORIDE
mf: $C_{22}H_{27}NO_2$•ClH mw: 373.96
SYN: BENZOIC ACID, 2-(2-PHENYLETHYLPIPERIDINO) ETHYL ESTER, HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
scu-mus LD50:1250 mg/kg JACSAT 52,1633,30
ivn-mus LD50:28 mg/kg JACSAT 52,1633,30
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

PFD750 CAS: 78219-45-1 HR: 3
γ-2-PHENYLETHYLPIPERIDINOPROPYL BENZOATE HYDROCHLORIDE
mf: $C_{23}H_{29}NO_2$•ClH mw: 387.99
SYN: BENZOIC ACID-3-(2-PHENYLETHYLPIPERIDINO) PROPYL ESTER, HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ivn-rat LDLo:22 mg/kg JACSAT 55,4625,33
scu-mus LD50:550 mg/kg JACSAT 52,1633,30
ivn-mus LD50:15 mg/kg JACSAT 52,1633,30
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

PFE500 CAS: 940-41-0 HR: 2
(2-PHENYLETHYL)TRICHLOROSILANE
mf: $C_8H_9CL_3Si$ mw: 239.61
PROP: A liquid. D: 1.24 @ 20°/4°, bp: 242°.
TOXICITY DATA with REFERENCE:
skn-rbt 5 mg/24H SEV 85JCAE -,1232,86
eye-rbt 750 µg/24H SEV 85JCAE -,1232,86
orl-rat LDLo:2830 mg/kg AIHAAP 23,95,62
skn-rbt LD50:740 mg/kg AIHAAP 23,95,62
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 toxic fumes of Cl^-. See also CHLOROSILANES.

PFE900 CAS: 32228-97-0 HR: 2
N-PHENYL-2-FLUORENAMINE
mf: $C_{19}H_{15}N$ mw: 257.35
SYN: N-PHENYL-9H-FLUORENAMINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

PFF000 CAS: 31874-15-4 HR: 2
N-PHENYL-2-FLUORENYLHYDROXYLAMINE
mf: $C_{19}H_{15}NO$ mw: 273.35
SYN: N-PHENYL-N-9H-FLUOREN-2-YLHYDROXYLAMINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

PFF300 CAS: 7250-71-7 HR: 2
PHENYLGLYCERYL ETHER DIACETATE
mf: $C_{13}H_{16}O_5$ mw: 252.29
SYNS: GLYCEROL PHENYL ETHER DIACETATE ◻ 3-PHENOXY-1,2-PROPANEDIOL DIACETATE ◻ 1-PHENYL ETHER-2,3-DIACETATE GLYCEROL
TOXICITY DATA with REFERENCE:
orl-rat LD50:5250 mg/kg SCCUR* -,5,61
orl-mus LD50:9200 mg/kg SCCUR* -,5,61
ipr-mus LD50:1850 mg/kg JPETAB 97,414,49
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

PFF350 CAS: 98819-68-2 HR: D
(2R,3R)-3-PHENYLGLYCIDOL
mf: $C_9H_{10}O_2$ mw: 150.19
SYNS: (2R,3R)-(+)-2,3-EPOXY-3-PHENYL-1-PROPANOL ◻ OXIRANEMETHANOL, 3-PHENYL-, (2R-trans)- ◻ 3-PHENYLOXIRANEMETHANOL (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 acrid smoke and irritating vapors.

PFF360 CAS: 122-60-1 HR: 3
PHENYL GLYCIDYL ETHER
mf: $C_9H_{10}O_2$ mw: 150.19
PROP: IDLH 100 ppm.

SYNS: 1,2-EPOXY-3-PHENOXYPROPANE □ 2,3-EPOXY-PROPYLPHENYL ETHER □ FENYL-GLYCIDYLETHER (CZECH) □ GLYCIDYL PHENYL ETHER □ PGE □ PHENOL-GLYCIDA-ETHER (GERMAN) □ PHENOL GLYCIDYL ETHER (MAK) □ 3-PHENOXY-1,2-EPOXYPROPANE □ PHENOXYPROPENE OXIDE □ PHENOXYPROPYLENE OXIDE □ PHENYL-2,3-EPOXYPROPYL ETHER

TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H SEV AMIHBC 10,61,54
skn-rbt 500 mg/24H MOD 28ZPAK -,136,72
eye-rbt 250 µg/24H SEV 28ZPAK -,136,72
mmo-esc 20 µmol/L ARTODN 46,277,80
mmo-klp 100 µmol/L MUREAV 89,269,81
mmo-sat 50 µg/plate MUREAV 67,9,79
hma-mus/sat 2500 mg/kg MUREAV 67,9,79
orl-rat LD50:3850 mg/kg AMIHAB 14,250,56
orl-mus LD50:1400 mg/kg AMIHAB 14,250,56
scu-mus LD50:760 mg/kg ARZNAD 15,1355,65
skn-rbt LD50:1500 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 47,237,89; Animal Sufficient Evidence IMEMDT 47,237,89. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 1 ppm

ACGIH TLV: TWA 0.1 ppm (skin, sensitizer) Confirmed Animal Carcinogen with Unknown Relevance to Humans

DFG MAK: Confirmed Animal Carcinogen, Suspected Human Carcinogen

NIOSH REL: (Phenyl Glycidyl Ether) CL 1 ppm/15M

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Moderately toxic by ingestion, skin contact, and subcutaneous routes. A severe eye and skin irritant. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. Used as a chemical intermediate. See also ETHERS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Phenyl Glycidyl Ether S74.

PFF500 CAS: 78265-97-1 HR: 3
dl-2-PHENYLGLYCINEDECYLESTERHYDRO-CHLORIDE
mf: $C_{18}H_{29}NO_2$•ClH mw: 327.94
SYN: (±)-α-AMINO-BENZENEACETIC ACID, DECYL ESTER, HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:350 mg/kg PHARAT 33,749,78
ivn-mus LD50:62 mg/kg PHARAT 33,749,78

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-. See also ESTERS.

PFF750 CAS: 25287-52-9 HR: 3
dl-2-PHENYLGLYCINEHEPTYLESTERHYDRO-CHLORIDE
mf: $C_{15}H_{23}NO_2$•ClH mw: 285.85
SYN: (±)-α-AMINO-BENZENEACETIC ACID HEPTYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
orl-mus LD50:2500 mg/kg PHARAT 33,749,78
ipr-mus LD50:145 mg/kg PHARAT 33,749,78
ivn-mus LD50:39 mg/kg PHARAT 33,749,78

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

PFG000 CAS: 69357-11-5 HR: 3
dl-2-PHENYLGLYCINEHEXYLESTERHYDRO-CHLORIDE
mf: $C_{14}H_{21}NO_2$•ClH mw: 271.82

TOXICITY DATA with REFERENCE:
ipr-mus LD50:182 mg/kg PHARAT 33,749,78
ivn-mus LD50:50 mg/kg PHARAT 33,749,78

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

PFG250 CAS: 69357-14-8 HR: 3
dl-2-PHENYLGLYCINENONYLESTERHYDRO-CHLORIDE
mf: $C_{17}H_{27}NO_2$•ClH mw: 313.91
SYN: (±)-α-AMINO-BENZENEACETIC ACID NONYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:249 mg/kg PHARAT 33,749,78
ivn-mus LD50:44 mg/kg PHARAT 33,749,78

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

PFG500 CAS: 69357-13-7 HR: 3
dl-2-PHENYLGLYCINEOCTYLESTERHYDRO-CHLORIDE
mf: $C_{16}H_{25}NO_2$•ClH mw: 299.88
SYN: (±)-α-AMINO-BENZENEACETIC ACID OCTYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:229 mg/kg PHARAT 33,749,78
ivn-mus LD50:42 mg/kg PHARAT 33,749,78

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

PFG750 CAS: 69357-10-4 HR: 3
dl-2-PHENYLGLYCINEPENTYLESTERHYDRO-CHLORIDE
mf: $C_{13}H_{19}NO_2$•ClH mw: 257.79
SYN: (±)-α-AMINO-BENZENEACETIC ACID PENTYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:418 mg/kg PHARAT 33,749,78
ivn-mus LD50:69 mg/kg PHARAT 33,749,78

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

PFH250 HR: 3
PHENYLGLYOXAL
mf: $C_8H_6O_2$ mw: 134.14

PROP: Flash p: <73.4°F.

SAFETY PROFILE: Dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.

PFH260 CAS: 6175-45-7 HR: 3
PHENYLGLYOXAL DIETHYL ACETAL
mf: $C_{12}H_{16}O_3$ mw: 208.28
SYNS: α-α-DIETHOXYACETOPHENONE □ 2,2-DIETHOXYACETOPHENONE □ ETHANONE, 2,2-DIETHOXY-1-PHENYL- □ GLYOXAL, PHENYL-, 2-(DIETHYL ACETAL)
TOXICITY DATA with REFERENCE:
orl-rat LD50:5660 µL/kg TXAPA9 28,313,74
skn-rbt LD50:11,300 µL/kg TXAPA9 28,313,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by ingestion and skin contact routes. When heated to decomposition it emits acrid smoke and irritating vapors.

PFH275 HR: 3
PHENYLGOLD
mf: C_6H_5Au mw: 274.07
SAFETY PROFILE: A touch-sensitive explosive, even at −70°C. When heated to decomposition it emits acrid smoke and irritating fumes.

PFI000 CAS: 100-63-0 HR: 3
PHENYLHYDRAZINE
DOT: UN 2572
mf: $C_6H_8N_2$ mw: 108.16
PROP: Yellow, monoclinic crystals, oil, or plates (usually an oil with aniline-like odor). Mp: 19.6°, bp: 243.5° (decomp), flash p: 192°F (CC), d: 1.0978 @ 20°/4°, vap press: 1 mm @ 71.8°, vap d: 3.7. Sltly sol in hot water; misc in alc, chloroform, ether, benzene. IDLH 15 ppm.
SYNS: FENILIDRAZINA (ITALIAN) □ FENYLHYDRAZINE (DUTCH) □ HYDRAZINE-BENZENE □ HYDRAZINOBENEZENE □ PHENYLHYDRAZIN (GERMAN)
TOXICITY DATA with REFERENCE:
mmo-omi 150 µg/L MUREAV 173,233,86
dnd-mus-ipr 350 µmol/kg CNREA8 41,1469,81
orl-rat LD50:188 mg/kg HYSAAV 30,191,65
scu-rat LDLo:40 mg/kg AEPPAE 182,118,36
orl-mus LDLo:175 mg/kg HYSAAV 30,191,65
scu-mus LDLo:170 mg/kg JIDHAN 18,1,36
orl-dog LDLo:200 mg/kg XPHBAO 271,159,41
ivn-dog LDLo:120 mg/kg XPHBAO 271,159,41
orl-rbt LD50:80 mg/kg HYSAAV 30,191,65
scu-rbt LDLo:80 mg/kg AEPPAE 182,118,36
orl-gpg LD50:80 mg/kg HYSAAV 30,191,65
ipr-mus LD50:170 mg/kg CNREA8 41,1469,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 5 ppm (skin); STEL 10 ppm
ACGIH TLV: TWA 0.1 ppm (skin); Animal Carcinogen
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
NIOSH REL: CL 0.6 mg/m^3/2H
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Poison by ingestion, subcutaneous, and intravenous routes. Experimental reproductive effects. Mutation data reported. Ingestion or subcutaneous injection can cause hemolysis of red blood cells. Other effects are damage to the spleen, liver, kidneys, and bone marrow. The most common effect of occupational exposure is the development of dermatitis, which, in sensitized persons, may be quite severe. Systemic effects include anemia and general weakness, gastrointestinal disturbances, and injury to the kidneys. Flammable when exposed to heat, flame, or oxidizers. To fight fire, use alcohol foam. Violent reaction with 2-phenylamino-3-phenyloxazirane. Reacts with perchloryl fluoride to form an explosive product. Vigorous reaction with lead(IV) oxide. Used as a chemical reagent, in organic synthesis, and in the manufacture of dyes and drugs. Dangerous; when heated to decomposition it emits highly toxic fumes of NO_x; can react with oxidizing materials.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Phenyl Hydrazine, S160.

PFI250 CAS: 59-88-1 HR: 3
PHENYLHYDRAZINE HYDROCHLORIDE
mf: $C_6H_8N_2$•ClH mw: 144.62
PROP: Leaflets from water; crystals from alc. Mp: 250−254° (decomp). Very sol in water; sol in alc; insol in ether.
SYNS: PHENYLHYDRAZINE MONOHYDROCHLORIDE □ PHENYLHYDRAZIN HYDROCHLORID (GERMAN) □ PHENYLHYDRAZINIUM CHLORIDE
TOXICITY DATA with REFERENCE:
mmo-sat 800 µg/plate NEZAAQ 33,474,78
mma-sat 800 µg/plate NEZAAQ 33,474,78
ipr-rat LD50:161 mg/kg ABMGAJ 18,617,67
orl-mus LD50:2100 mg/kg QJDRAZ 9,1455,69
scu-mus LD50:89 mg/kg FRPSAX 9,274,54
orl-rbt LDLo:25 mg/kg HBAMAK 4,1289,35
scu-rbt LDLo:25 mg/kg HBAMAK 4,1289,35
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Extremely Hazardous Substances List.
NIOSH REL: (Hydrazines) CL 0.6 mg/m^3/2H
SAFETY PROFILE: Poison by ingestion, intraperitoneal, and subcutaneous routes. Experimental reproductive effects. Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

PFI500 CAS: 98-71-5 HR: 2
PHENYLHYDRAZINE-p-SULFONIC ACID
mf: $C_6H_8N_2O_3S$ mw: 188.22
PROP: Crystals from alc; needles or leaflets from H_2O. Mp: 286°. Sol in hot and cold water; sltly sol in alc.
TOXICITY DATA with REFERENCE:
orl-rat LDLo:500 mg/kg JPETAB 90,260,47
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

PFI600 CAS: 100482-34-6 HR: 3
o-(PHENYLHYDROXYARSINO)BENZOIC ACID
mf: $C_{13}H_{11}AsO_3$ mw: 290.16
SYNS: BENZOIC ACID, o-(PHENYLHYDROXYARSINO)- □ 2-CARBOXYDIPHENYLARSINOUS ACID
TOXICITY DATA with REFERENCE:
ivn-mus LDLo:10 mg/kg PHBUA9 2,19,54
OSHA PEL: TWA 0.5 mg(As)/m^3
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of As.

PFI750 CAS: 63918-85-4 HR: 3
1-PHENYL-2-(β-HYDROXYETHYL)AMINO-PROPANE
mf: $C_{11}H_{17}NO$ mw: 179.29
SYNS: 1-PHENYL-2-β-OXY-AETHYL-AMINO-PROPAN (GERMAN) □ α-PHENYL-β-OXYETHYLAMINOPROPANE □ 2-(α-METHYLPHENETHYL)AMINOETHANOL
TOXICITY DATA with REFERENCE:
orl-rat LDLo:250 mg/kg AEPPAE 195,647,40
ipr-mus LDLo:250 mg/kg AEPPAE 195,647,40
ipr-mus LDLo:750 mg/kg AEPPAE 195,647,40
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

PFJ000 CAS: 94-35-9 HR: 2
2-PHENYL-2-HYDROXYETHYL CARBAMATE
mf: $C_9H_{11}NO_3$ mw: 181.21
SYNS: AL 1076 □ CARBAMIC ACID-β-HYDROXYPHENETHYL ESTER □ β-HYDROXYPHENETHYL ALCOHOL-α-CARBAMATE □ β-HYDROXYPHENETHYL CARBAMATE □ 2-HYDROXY-2-PHENYLETHYL CARBAMATE □ LINAXAR □ MYOSPAZ □ SINAXAR □ STIRAMATO □ STYRAMATE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:1300 mg/kg JPETAB 126,318,59
orl-mus LD50:1240 mg/kg JPETAB 126,318,59
ipr-mus LD50:750 mg/kg 27ZQAG -,407,72
scu-cat LD50:1200 mg/kg JPETAB 126,318,59
SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x. Used as a skeletal muscle relaxant. See also CARBAMATES.

PFJ250 CAS: 100-65-2 HR: 3
β-PHENYLHYDROXYLAMINE
mf: C_6H_7NO mw: 109.14
PROP: Colorless needles from water. Mp: 81−82°. Sol in hot and cold water; very sol in alc and ether; very sltly sol in ligroin.
SYNS: NCI-C60093 □ N-PHENYLHYDROXYLAMINE
TOXICITY DATA with REFERENCE:
mmo-sat 100 μg/plate NTPTB* JAN82
skn-hmn TDLo:500 μg/kg:SKN AEXPBL 35,401,1895
orl-rat LD50:100 mg/kg GISAAA 44(3),68,79
orl-mus LD50:247 mg/kg GISAAA 44(3),68,79
orl-rbt LD50:125 mg/kg GISAAA 44(3),68,79
scu-rat LDLo:40 mg/kg AEPPAE 182,118,36
orl-dog LDLo:30 mg/kg HBAMAK 4,1289,35
scu-rbt LDLo:50 mg/kg AEXPBL 35,401,1895
scu-pgn LDLo:74 mg/kg AEXPBL 35,401,1895
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and subcutaneous routes. Human systemic effects by skin contact: primary irritation. Preparative hazard. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PFJ275 HR: 3
PHENYLHYDROXYLAMINIUM CHLORIDE
mf: C_6H_8ClNO mw: 145.59
SAFETY PROFILE: May explode in storage. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

PFJ300 CAS: 936-49-2 HR: 3
2-PHENYL-2-IMIDAZOLINE
mf: $C_9H_{10}N_2$ mw: 146.21
SYNS: 1H-IMIDAZOLE, 4,5-DIHYDRO-2-PHENYL- □ 2-IMIDAZOLINE, 2-PHENYL-
TOXICITY DATA with REFERENCE:
ivn-uns LDLo:67 mg/kg AEPPAE 192,141,39
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

PFJ400 CAS: 622-44-6 HR: 3
PHENYLIMIDOCARBONYL CHLORIDE
DOT: UN 1672
mf: $C_7H_5Cl_2N$ mw: 174.03
SYNS: CARBONIMIDIC DICHLORIDE, PHENYL-(9CI) □ N-(DICHLOROMETHYLENE)ANILINE □ PHENYLCARBO-NIMIDIC DICHLORIDE □ N-PHENYLCARBONIMIDIC DICHLORIDE □ PHENYL CARBYLAMINE CHLORIDE □ PHENYLCARBYLAMINE CHLORIDE (DOT) □ PHENYLIMIDO-CARBONYL CHLORIDE □ N-PHENYLIMIDOPHOSGENE □ PHENYLIMINOCARBONYL DICHLORIDE □ N-PHENYL-IMINOCARBONYL DICHLORIDE □ PHENYLISONITRILE DICHLORIDE
TOXICITY DATA with REFERENCE:
ihl-hmn TCLo:7 ppm/10M NTIS** PB214-270
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

PFJ500 CAS: 28140-60-5 HR: 2
N-(3-PHENYLIMINO-1-PROPENYL)ANILINE HYDROCHLORIDE
mf: $C_{15}H_{14}N_2{\bullet}ClH$ mw: 258.77
SYNS: ANILINE, N,N'-1-PROPEN-1-YL-3-YLIDENEDI-, MONO-HYDROCHLORIDE □ β-ANILINOACROLEIN ANIL HYDRO-CHLORIDE □ BENZENAMINE, N-(3-(PHENYLAMINO)-2-PROPENYLIDENE)-, MONOHYDROCHLORIDE □ N-(3-(PHENYLAMINO)-2-PROPENYLIDENE)BENZENAMINE MONOHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1130 mg/kg NTIS** OTS0555958
orl-mus LD50:400 mg/kg NTIS** OTS0555958
skn-gpg LD50:>1 g/kg NTIS** OTS0555958

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl^-.

PFJ750 CAS: 83-12-5 HR: 3
PHENYLINDIONE
mf: $C_{15}H_{10}O_2$ mw: 222.25
PROP: Leaflets from EtOH. Mp: 149−151°.
SYNS: ATHROMBON □ BINDAN □ DANILONE □ DIADILAN □ DINDEVAN □ DINEVAL □ EMANDIONE □ FENHYDREN □ FENILIN □ HEDULIN □ INDEMA □ INDION □ INDON □ PHENHYDREN □ PHENINDIONE □ 2-PHENYL-1,3-DIKETO-HYDRINDENE □ PHENYLEN □ 2-PHENYLINDAN-1,3-DIONE □ 2-PHENYL-1,3-INDANDIONE □ PHENYLLIN □ PID □ PINDIONE
TOXICITY DATA with REFERENCE:
orl-man TDLo:42,500 µg/kg/17D-I:KID BMJOAE 1,1655,63
unr-man TDLo:22 mg/kg/17D-I:SYS,KID,SKN AIMEAS 52,706,60
unr-man TDLo:90 mg/kg/27D-I:SYS,SKN CMAJAX 77,1028,57
orl-man LDLo:48 mg/kg/27D-I:BLD,MET NZMJAX 57,283,58
unr-man LDLo:1683 mg/kg/31D-I:GIT,KID,SKN LANCAO 1,920,63
orl-rat LD50:163 mg/kg EJMCA5 9,519,74
ipr-rat LD50:530 mg/kg PHARAT 27,520,72
orl-mus LD50:175 mg/kg SMWOAS 90,213,60
ipr-mus LD50:150 mg/kg PHARAT 27,520,72
SAFETY PROFILE: A human poison by ingestion. Poison experimentally by ingestion and intraperitoneal routes. Moderately toxic to humans by an unspecified route. Human systemic effects by: blood effects, fever, hepatitis, hepatocellular necrosis, dermatitis, allergic effects, other skin effects, nausea or vomiting, tubule changes, urine volume decrease, interstitial nephritis. When heated to decomposition it emits acrid smoke and irritating fumes. Used to treat angina pectoris.

PFJ760 CAS: 948-65-2 HR: 1
2-PHENYLINDOLE
mf: $C_{14}H_{11}N$ mw: 193.26
SYNS: INDOLE, 2-PHENYL- □ α-PHENYLINDOLE □ STABILIZER I
TOXICITY DATA with REFERENCE:
orl-rat LD50:>6 g/kg ARZNAD 10,44,60
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

PFJ775 HR: 3
PHENYLIODINE(III) CHROMATE
mf: $C_6H_5CrIO_4$ mw: 320.00
SYN: [(CHROMYLDIOXY)IODO]BENZENE
CONSENSUS REPORTS: Chromium and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Explodes at 66°C. When heated to decomposition it emits toxic fumes of I^-. See also CHROMIUM COMPOUNDS and IODINE.

PFJ780 CAS: 58776-08-2 HR: 3
PHENYLIODINE(III) NITRATE
mf: $C_6H_5IN_2O_6$ mw: 328.02
SAFETY PROFILE: Explodes when heated above 100°C. When heated to decomposition it emits toxic fumes of I^- and NO_x. See also NITRATES and IODIDES.

PFK000 HR: 3
9-PHENYL-9-IODOFLUORENE
mf: $C_{18}H_{13}I$ mw: 356.20
SAFETY PROFILE: Explodes. When heated to decomposition it emits toxic fumes of I^-. See also IODIDES.

PFK250 CAS: 103-71-9 HR: 3
PHENYL ISOCYANATE
DOT: UN 2487
mf: C_7H_5NO mw: 119.13
PROP: Liquid, acrid odor. Mp: −30° approx, bp: 158−168°, d: 1.1 @ 20°, vap press: 1 mm @ 10.6°, flash p: 132°. Decomp in water, alc; very sol in ether.
SYNS: CARBANIL □ FENYLISOKYANAT □ ISOCYANIC ACID, PHENYL ESTER □ KARBANIL □ MONDUR P □ PHENYL-CARBIMIDE □ PHENYL CARBONIMIDE
TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate ABCHA6 44,3017,80
orl-rat LD50:940 mg/kg MONS**
orl-mus LD50:196 mg/kg EESADV 17,258,89
skn-rbt LD50:7130 mg/kg TXAPA9 42,417,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 6.1; Label: Poison; DOT Class: 6.1; Label: Poison, Flammable Liquid; DOT Class: 3; Label: Flammable Liquid, Poison
SAFETY PROFILE: A poison. An irritant. Mutation data reported. Flammable liquid when exposed to heat or flame; can react vigorously with oxidizing materials. Has exploded when stirred with (cobalt pentammine triazoperchlorate + nitrosyl perchlorate). When heated to decomposition it emits toxic fumes of CN^- and NO_x. See also CYANATES.

PFL000 CAS: 101-72-4 HR: 2
N-PHENYL-N′-ISOPROPYL-p-PHENYLENE-DIAMINE
mf: $C_{15}H_{18}N_2$ mw: 226.35
PROP: A solid. Mp: 79.5−80°.
SYNS: CYZONE □ ELASTOZONE 34 □ FLEXZONE 3C □ 4-ISOPROPYLAMINODIPHENYLAMINE □ N-ISOPROPYL-N'-FENYL-p-FENYLENDIAMIN (CZECH) □ N-ISOPROPYL-N'-PHENYL-p-PHENYLENEDIAMINE □ NCI-C56304 □ NONOX ZA □ N-2-PROPYL-N'-PHENYL-p-PHENYLENEDIAMINE □ SANTOFLEX 36
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg/24H SEV 28ZPAK -,72,72
orl-rat LD50:720 mg/kg IPSTB3 3,93,76
orl-mus LD50:1122 mg/kg KOKABN 26,438,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. A severe eye irritant. When heated to decomposition it emits

toxic fumes of NO_x. Used in the manufacture of plastics, resins, and rubber. See also AMINES.

PFL100 CAS: 58144-61-9 HR: 3
3-PHENYL-2-ISOXAZOLINE-5-PHOSPHONIC ACID
mf: $C_9H_{10}NO_4P$ mw: 227.17
SYNS: (4,5-DIHYDRO-3-PHENYL-5-ISOXAZOLYL)PHOSPHONIC ACID □ HAB 439 □ PHOSPHONIC ACID, (4,5-DIHYDRO-3-PHENYL-5-ISOXAZOLYL)-
TOXICITY DATA with REFERENCE:
ivn-rat LD50:398 mg/kg DRFUD4 16,1091,1991
ivn-mus LD50:200 mg/kg USXXAM #5006515
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and PO_x.

PFL200 CAS: 3268-27-7 HR: 3
PHENYLLEAD TRILAURATE
mf: $C_{42}H_{74}O_6Pb$ mw: 882.35
SYNS: LEAD, TRIS(LAUROYLOXY)PHENYL- □ PHENYLTRIS(DODECANOYLOXY)PLUMBANE □ PLUMBANE, PHENYLTRIS(DODECANOYLOXY)- □ PLUMBANE, TRIS-(LAUROYLOXY)PHENYL-
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#06376
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of Pb.

PFL500 CAS: 591-51-5 HR: 2
PHENYLLITHIUM
mf: C_6H_5Li mw: 84.06
PROP: A solid. Sol in ethers; insol in hydrocarbons.
SAFETY PROFILE: Incompatible with air, water. Product of reaction with titanium tetraethoxide ignites spontaneously in air and reacts violently with water. When heated to decomposition it emits toxic fumes of Li_2O. See also LITHIUM COMPOUNDS and ORGANOMETALS.

PFL600 CAS: 100-58-3 HR: 3
PHENYLMAGNESIUM BROMIDE
mf: C_6H_5MgBr mw: 181.31
SAFETY PROFILE: Reacts with chlorine to form an explosive product. When heated to decomposition it emits toxic fumes of Br^-. See also MAGNESIUM COMPOUNDS and BROMIDES.

PFL750 CAS: 941-69-5 HR: 3
N-PHENYLMALEIMIDE
mf: $C_{10}H_7NO_2$ mw: 173.18
PROP: Yellow needles from cyclohexane. Mp: 89−89.8°, bp: 162.1−162.3°. Spar sol in water.
SYN: N-FENYLIMID KYSELINY MALEINOVE (CZECH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD SCCUR* -,8,61
orl-rat LD50:188 mg/kg SCCUR* -,8,61
ipr-rat LDLo:25 mg/kg NCNSA6 5,22,53
orl-mus LD50:78 mg/kg SCCUR* -,8,61
orl-rbt LDLo:100 mg/kg SCCUR* -,8,61
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

PFL850 CAS: 108-98-5 HR: 3
PHENYL MERCAPTAN
DOT: UN 2337
mf: C_6H_6S mw: 110.18
PROP: A liquid; repulsive odor. Bp: 169.5°, d: 1.973 @ 25°/4°.
SYNS: PHENOL, THIO- □ RCRA WASTE NUMBER P014 □ THIOFENOL □ THIOPHENOL (DOT) □ USAF XR-19
TOXICITY DATA with REFERENCE:
eye-rbt 108 mg SEV AIHAAP 19,171,58
ipr-mus LD50:25 mg/kg NTIS** AD277-689
orl-rat LD50:46 mg/kg AIHAAP 19,171,58
ihl-rat LC50:33 ppm/4H AIHAAP 19,171,58
skn-rat LD50:300 mg/kg AIHAAP 19,171,58
ipr-rat LD50:10 mg/kg AIHAAP 19,171,58
ihl-mus LC50:28 ppm/4H AIHAAP 19,171,58
orl-bwd LD50:24 mg/kg TXAPA9 21,315,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Extremely Hazardous Substances List.
OSHA PEL: TWA 0.5 ppm
ACGIH TLV: TWA 0.5 ppm; (Proposed: 0.1 ppm (skin))
NIOSH REL: CL 0.5 mg/m^3/15M
DOT CLASSIFICATION: 6.1; Label: Poison, Flammable Liquid
SAFETY PROFILE: Poison by ingestion, inhalation, skin contact, and intraperitoneal routes. A severe eye irritant. Can cause severe dermatitis. Exposure may cause headache and dizziness. When heated to decomposition or on contact with acids it emits toxic fumes of SO_x. See also MERCAPTANS.

PFM250 CAS: 1192-89-8 HR: 3
PHENYLMERCURIC BROMIDE
mf: C_6H_5BrHg mw: 357.61
PROP: Plates from C_6H_6 or Py. IDLH 10 mg/m^3 (as Hg).
SYNS: ARGONAL □ PHENYLMERCURY BROMIDE
TOXICITY DATA with REFERENCE:
unr-rat LD50:55 mg/kg 30ZDA9 -,295,71
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 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/m^3 (skin)
SAFETY PROFILE: Poison by an unspecified route. When heated to decomposition it emits very toxic fumes of Br^- and Hg. See also MERCURY COMPOUNDS and BROMIDES.

PFM500 CAS: 100-56-1 HR: 3
PHENYLMERCURIC CHLORIDE
mf: C_6H_5ClHg mw: 313.15
PROP: Colorless leaves from benzene. Mp: 251°, bp: sublimes. Insol in water; sltly sol in hot alc; sol in pyridine, ether, benzene. IDLH 10 mg/m^3 (as Hg).
SYNS: CHLORID FENYLRTUTNATY (CZECH) ◻ (CHLORO-MERCURI)BENZENE ◻ FENYLMERCURICHLORID (CZECH) ◻ MERCURIPHENYL CHLORIDE ◻ MERFAZIN ◻ MERSOLITE 2 ◻ PHENYL CHLOROMERCURY ◻ PHENYLMERCURY CHLOR-IDE ◻ PHENYLQUECKSILBERCHLORID (GERMAN) ◻ PMC ◻ STOPSPOT
TOXICITY DATA with REFERENCE:
cyt-hmn:hla 1 mg/L JJEMAG 39,47,69
oth-ham:ovr 1250 µg/L MUREAV 290,281,93
orl-rat LD50:60 mg/kg PHJOAV 185,361,60
ipr-rat LDLo:50 mg/kg NCNSA6 5,30,53
scu-rat LD50:47 mg/kg JJEMAG 39,47,69
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 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/m^3; STEL 0.03 mg/m^3 (skin)
SAFETY PROFILE: Poison by ingestion, intraperitoneal, and subcutaneous routes. Human mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^- and Hg. See also MERCURY COMPOUNDS and CHLORIDES.

PFN000 CAS: 14235-86-0 HR: 3
PHENYLMERCURIC DINAPHTHYLMETHANEDISULFONATE
mf: $C_{33}H_{24}Hg_2O_6S_2$ mw: 981.87
PROP: Amorphous powder. IDLH 10 mg/m^3 (as Hg).
SYNS: BIS(PHENYLMERCURI)METHYLENEDINAPHTHALENESULFO NATE ◻ CONOTRANE ◻ FIBROTAN ◻ HYDRAPHEN ◻ HYDRARGAPHEN ◻ METHYLENEDINAPHTHALENE-SULFONIC ACID BISPHENYLMERCURI SALT ◻ PENOTRANE ◻ PHENYL MERCURIC FIXTAN ◻ PHENYLMERCURIC 3,3'-METHYLENEBIS(2-NAPHTHALENESULFONATE) ◻ PHENYLMERCURY METHYLENEDINAPHTHALENE-SULFONATE ◻ P.M.F. ◻ SEPTOTAN ◻ VERSOTRANE
TOXICITY DATA with REFERENCE:
eye-gpg 60 µg/2D SEV TOSUAH 89,863,69
orl-mus LD50:70 mg/kg JPPMAB 2,20,50
ipr-mus LD50:25 mg/kg JPPMAB 2,89,50
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 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/m^3 (skin)
SAFETY PROFILE: Poison by intraperitoneal and ingestion routes. A severe eye irritant. When heated to decomposition it emits very toxic fumes of Hg and SO_x. See also MERCURY COMPOUNDS and SULFONATES.

PFN100 CAS: 100-57-2 HR: 3
PHENYLMERCURIC HYDROXIDE
DOT: UN 1894
mf: C_6H_6HgO mw: 294.71
PROP: Powder or prisms from water. Mp: 234–237°. Sol in hot water. IDLH 10 mg/m^3 (as Hg).
SYNS: HYDROXYPHENYLMERCURY ◻ MERCURY, HYDRO-XYPHENYL- ◻ MERSOLITE 1 ◻ PHENYL HYDROXYMERCURY ◻ PHENYLMERCURIC HYDROXIDE (DOT) ◻ PHENYL-MERCURY HYDROXIDE
TOXICITY DATA with REFERENCE:
sln-oin-dmg-orl 250 mg/L HEREAY 57,446,67
ivn-mus LD50:18 mg/kg CSLNX* NX#03648
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (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/m^3 (skin)
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Poison by intravenous route. Mutation data reported. When heated to decomposition it emits toxic fumes of Hg.

PFN250 CAS: 14354-56-4 HR: 3
PHENYLMERCURIC-8-HYDROXYQUINOLINATE
mf: $C_{15}H_{11}HgNO$ mw: 421.86
PROP: Dimorphous; both orthorhombic forms from MeOH; helical array from CCl_4. Mp: 162–163° (decomposes). IDLH 10 mg/m^3 (as Hg).
SYNS: 8-PHENYLMERCURIOXY-QUIN-OLINE ◻ PHENYL-MERCURY OXYQUINOLATE ◻ QUINEX
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 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/m^3 (skin)
SAFETY PROFILE: Probably a poison. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

PFN500 CAS: 5834-81-1 HR: 3

N-(PHENYLMERCURI)-1,4,5,6,7,7-HEXA-CHLOROBICYCLO(2.2.1)HEPTENE-5-DICARBOXIMIDE
mf: $C_{15}H_7Cl_6HgNO_2$ mw: 646.52
PROP: IDLH 10 mg/m^3 (as Hg).
SYN: PIMM
TOXICITY DATA with REFERENCE:
unr-rat LD50:122 mg/kg 30ZDA9 -,295,71
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 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/m^3 (skin)
SAFETY PROFILE: Poison by an unspecified route. When heated to decomposition it emits very toxic fumes of Cl^-, Hg, and NO_x. See also MERCURY COMPOUNDS.

PFN750 CAS: 63869-08-9 HR: 2
PHENYLMERCURILAURYL THIOETHER
mf: $C_{36}H_{58}Hg_2S$ mw: 924.18
PROP: IDLH 10 mg/m^3 (as Hg).
SYN: BIS(PHENYLMERCURYLAURYL)SULFIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:500 mg/kg NTIS** AD691-490
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 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/m^3 (skin)
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits very toxic fumes of Hg and SO_x. See also MERCURY COMPOUNDS, ETHERS, and SULFIDES.

PFO000 CAS: 103-27-5 HR: 3
PHENYLMERCURI PROPIONATE
mf: $C_9H_{10}HgO_2$ mw: 350.78
PROP: IDLH 10 mg/m^3 (as Hg).
SYNS: METASOL P-6 □ PHENYLMERCURY PROPIONATE □ PHENYL(PROPIONYLOXY)MERCURY □ PROPIONIC ACID, PHENYLMERCURY SALT
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (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/m^3 (skin)
SAFETY PROFILE: Probably a poison. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

PFO250 CAS: 27360-58-3 HR: 3
PHENYLMERCURIPYROCATECHIN
mf: $C_{12}H_{10}HgO_2$ mw: 386.81
PROP: IDLH 10 mg/m^3 (as Hg).
'SYNS: (DIHYDROXYPHENYL)PHENYL MERCURY □ GERMISAN
TOXICITY DATA with REFERENCE:
unr-rat LD50:50 mg/kg 30ZDA9 -,295,71
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 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/m^3 (skin)
SAFETY PROFILE: Poison by an unspecified route. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

PFO500 HR: 3
PHENYLMERCURY ACETATE 95% plus ETHYLMERCURY CHLORIDE 5%
PROP: IDLH 10 mg/m^3 (as Hg).
SYN: (ACETATO)PHENYL-MERCURY mixed with CHLOROETHYL-MERCURY (19:1)
TOXICITY DATA with REFERENCE:
orl-rat LD50:22 mg(Hg)/kg OCHRAI 15,5,63
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (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, Inorganic) TWA 0.05 mg(Hg)/m^3
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of Hg and Cl^-. See also MERCURY COMPOUNDS.

PFO550 CAS: 34604-38-1 HR: 2
PHENYLMERCURY AMMONIUM ACETATE
mf: $C_8H_8HgO_2 \bullet xH_3N$ mw: 456.03

PROP: IDLH 10 mg/m^3 (as Hg).
SYNS: ACETATOPHENYLMERCURATE(1-) AMMONIUM SALT □ GALLOTOX □ MERCURATE(1-), ACETATOPHENYL-, AMMONIUM SALT □ MERCURY, (ACETATO-O)PHENYL-, AMMONIATE □ SETRETE
TOXICITY DATA with REFERENCE:
orl-rat LD50:500 mg/kg FMCHA2 -,C260,89
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (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/m^3 (skin)
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and Hg.

PFO750 CAS: 3688-11-7 HR: 3
PHENYLMERCURY CATECHOLATE
mf: $C_{12}H_{10}HgO_2$ mw: 386.81
PROP: IDLH 10 mg/m^3 (as Hg).
SYNS: (1,2-BENZENEDIOLATO-O)PHENYLMERCURY □ (2-HYDROXYPHENOXY)PHENYLMERCURY (8CI) □ MERCUTAL □ PHENYLQUECKSILBERBRENZKATECHIN (GERMAN)
TOXICITY DATA with REFERENCE:
orl-rat LD50:30 mg/kg 85GYAZ -,129,71
orl-mus LD50:70 mg/kg 85GYAZ -,129,71
ipr-mus LD50:50 mg/kg OCHRAI 15,5,63
orl-ckn LD50:116 mg/kg 85GYAZ -,129,71
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 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/m^3 (skin)
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

PFP000 CAS: 31632-68-5 HR: 3
PHENYLMERCURY NAPHTHENATE
PROP: Contains 10% mercury (AMIHAB 12,477,55). IDLH 10 mg/m^3 (as Hg).
SYN: NAPHTHENIC ACID, PHENYLMERCURY SALT
TOXICITY DATA with REFERENCE:
orl-rat LD50:390 mg/kg AMIHAB 12,477,55
ipr-rat LD50:30 mg/kg AMIHAB 12,477,55
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 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/m^3 (skin)
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

PFP100 CAS: 104-60-9 HR: 3
PHENYLMERCURY OLEATE
mf: $C_{24}H_{38}HgO_2$ mw: 559.21
PROP: IDLH 10 mg/m^3 (as Hg).
SYNS: MERCURY, (9-OCTADECENOATO-O)PHENYL-, (Z)-(9CI) □ MERCURY, (OLEATO)PHENYL- □ PHENYLMERCURIC OLEATE □ PMO 10
TOXICITY DATA with REFERENCE:
orl-rat LD50:48,400 µg/kg ESKHA5 (101),152,83
NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m^3 (skin)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic vapors of Hg.

PFP250 CAS: 102-98-7 HR: 2
PHENYLMERCURY SILVER BORATE
mf: $C_6H_6AgHgO_3$ mw: 434.58
PROP: A solid. Mp: 112–113°. IDLH 10 mg/m^3 (as Hg).
SYNS: BORIC ACID, PHENYLMERCURY SILVER derivative □ MERFEN
TOXICITY DATA with REFERENCE:
eye-rbt 150 mg MOD ARZNAD 9,349,59
eye-gpg 500 mg SEV ARZNAD 9,349,59
CONSENSUS REPORTS: Mercury and its compounds, as well as silver and its compounds, are on the Community Right-To-Know List.
OSHA PEL: TWA 0.01 mg(Ag)/m^3; CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.01 mg(Hg)/m^3; 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/m^3 (skin)
SAFETY PROFILE: A severe eye irritant. When heated to decomposition it emits toxic fumes of Hg. See also SILVER COMPOUNDS, MERCURY COMPOUNDS and BORON COMPOUNDS.

PFP500 CAS: 2279-64-3 HR: 3
PHENYLMERCURY UREA
mf: $C_7H_8HgN_2O$ mw: 336.76
PROP: IDLH 10 mg/m^3 (as Hg).
SYNS: ABAVIT □ LEYTOSAN □ PHENYLMERCURIC UREA □ PHENYLMERCURIUREA
TOXICITY DATA with REFERENCE:

unr-rat LD50:50 mg/kg 30ZDA9 -,295,71

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

OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 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/m^3 (skin)

SAFETY PROFILE: Poison by an unspecified route. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS.

PFP600 CAS: 3683-12-3 HR: 1
PHENYLMETHACRYLATE

mf: $C_{12}H_{14}O_2$ mw: 190.26

SYNS: METHACRYLIC ACID, PHENETHYL ESTER (7CI,8CI) □ PHENETHYL METHACRYLATE □ β-PHENYLETHYL METHACRYLATE □ 2-PHENYLETHYL METHACRYLATE □ PHENYLETHYL 2-METHYL-2-PROPENOATE □ 2-PROPENOIC ACID, 2-METHYL-, 2-PHENYLETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTOD7 30,105S,92

skn-rbt LDLo:5 g/kg FCTOD7 30,105S,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.

PFP700 CAS: 71033-66-4 HR: D
(N^2)-((PHENYLMETHOXY)CARBONYL)-l-GLUTAMINYL-l-TRYPTOPHYL-l-SERYL-l-TYROSYL-d-METHIONYL-l-LEUCYL-l-ARGINYL-N-ETHYL-l-PROLINAMIDE, HYDROCHLORIDE HYDRATE (1:1:2)

mf: $C_{60}H_{84}N_{14}O_{13}S{\bullet}ClH{\bullet}2H_2O$ mw: 1314.14

SYN: Z-(GLN[1])-DES-HIS[2])-d-MET[6])-DES-GLY[10]))-LHRH ETHYLAMIDE HCL H2-O (1:1:2)

TOXICITY DATA with REFERENCE:

scu-rat TDLo:90 mg/kg (female 1D pre):REP JMCMAR 22,935,1979

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

PFP720 CAS: 71033-59-5 HR: D
(N^2)-((PHENYLMETHOXY)CARBONYL)-l-GLUTAMINYL)-l-TRYPTOPHYL-l-SERYL-l-TYROSYL-d-PROLYL-l-LEUCYL-l-ARGINYL-N-ETHYL-l-PROLINAMIDE, ACETATE, HYDRATE (2:7:5)

mf: $C_{60}H_{82}N_{14}O_{13}{\bullet}^7/_2C_2H_4O_2{\bullet}5/_2H_2O$ mw: 1462.61

SYN: Z-(GLN[1])-DES-HIS[2])-d-PRO[6])-DES-GLY[10]))-LHRH ETHYLAMIDE ACETATE HYDRATE

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

PFP730 CAS: 64153-23-7 HR: D
N^2)-((PHENYLMETHOXY)CARBONYL)-l-GLUTAMINYL-l-TRYPTOPHYL-l-SERYL-l-TYROSYL-THREO-β-HYDROXY-d-PHENYLALANYL-l-LEUCYL-l-ARGINYL-N-ETHYL- l-PROLINAMIDE HYDROCHLORIDE HYDRATE (10:17:30)

mf: $C_{64}H_{84}N_{14}O_{14}{\bullet}^{17}/_{10}ClH{\bullet}3H_2O$ mw: 1389.48

SYN: Z-(GLN[1])-DES-HIS[2])-d-PSE[6])-DES-GLY[10]))-LHRH ETHYLAMIDE HCL H2-O

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

PFP740 CAS: 71033-69-7 HR: D
N^2)-((PHENYLMETHOXY)CARBONYL)-l-GLUTAMINYL-l-TRYPTOPHYL-l-SERYL-l-TYROSYL-THREO-β-HYDROXY-d-PHENYLALANYL-l-LEUCYL-l-ARGINYL-N-ETHYL-l-PROLINAMIDE, MONOACETATE (SALT), TETRAHYDRATE

mf: $C_{64}H_{84}N_{14}O_{14}{\bullet}C_2H_2O_2{\bullet}4H_2O$ mw: 1403.74

SYN: Z-(GLN[1])-DES-HIS[2])-d-PSE[6])-DES-GLY[10]))-LHRH ETHYLAMIDE ACETATE 4H2-O

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

PFP760 CAS: 71033-52-8 HR: D
N-((PHENYLMETHOXY)CARBONYL)-o-(PHENYLMETHYL)-l-SERYL-l-TRYPTOPHYL-l-SERYL-l-TYROSYL-d-PHENYLALANYL-l-LEUCYL-l-ARGINYL-N,N-DIMETHYL-l-PROLINAMIDE, MONOACETATE (SALT), HYDRATE

mf: $C_{69}H_{87}N_{13}O_{13}{\bullet}C_2H_4O_2{\bullet}H_2O$ mw: 1384.77

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

PFP780 CAS: 70601-68-2 HR: D
N-((PHENYLMETHOXY)CARBONYL)-o-((PHENYLMETHYL)-l-SERYL-l-TRYPTOPHYL-l-SERYL-l-TYROSYL-o-METHYL-d-TYROSYL-l-LEUCYL-l-ARGINYL-N-ETHYL-l-PROLINAMIDE MONOACETATE (SALT), DIHYDRATE

mf: $C_{70}H_{89}N_{13}O_{14}{\bullet}C_2H_4O_2{\bullet}2H_2O$ mw: 1432.82

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

PFP800 CAS: 64153-17-9 HR: D
N-((PHENYLMETHOXY)CARBONYL)-o-(PHENYLMETHYL)-l-SERYL-l-TRYPTOPHYL-l-SERYL-l-TYROSYL-d-PHENYLALANYL-l-LEUCYL-l-ARGINYL-N-ETHYL-l-PROLINAMIDE, HYDROCHLORIDE, HYDRATE (2:3:4)

mf: $C_{69}H_{87}N_{13}O_{13}{\bullet}3/_2ClH{\bullet}2H_2O$ mw: 1397.24

SYN: Z-(SER(BZL)1-DES-HIS2-d-PHE2-DES-GLY10)-l-HRH ETHYLAMIDE HYDROCHLORIDE HYDRATE (2:3:4)
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl^-.

PFP820 CAS: 70601-60-4 HR: D
N-((PHENYLMETHOXY)CARBONYL)-o-(PHENYLMETHYL)-l-SERYL-l-TRYPTOPHYL-l-SERYL-l-TYROSYL-2,3,4,5,6-PENTAMETHYL-dl-PHENYLALANYL-l-LEUCYL-l-ARGINYL-N-ETHYL-l-PROLINAMIDE MONOACETATE (SALT), DIHYDRATE
mf: $C_{74}H_{97}N_{13}O_{13}•C_2H_4O_2•2H_2O$ mw: 1472.94
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

PFP840 CAS: 70601-54-6 HR: D
N-((PHENYLMETHOXY)CARBONYL)-o-(PHENYLMETHYL)-l-SERYL-l-TRYPTOPHYL-l-SERYL-l-TYROSYL-2,3,4,5,6-PENTAMETHYL-d-PHENYLALANYL-l-LEUCYL-l-ARGINYL-N-ETHYL-l-PROLINAMIDE, MONOACETATE (SALT), HYDRATE
mf: $C_{74}H_{97}N_{13}O_{13}•C_2H_4O_2•H_2O$ mw: 1454.92
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

PFP850 CAS: 537-46-2 HR: 3
d-1-PHENYL-2-METHYLAMINOPROPAN
mf: $C_{10}H_{15}N$ mw: 149.26
SYNS: BENZENEETHANAMINE, N,α-DIMETHYL-, (S)- □ d-DEOXYEPHEDRINE □ (+)-(S)-DEOXYEPHEDRINE □ d-DESOXYEPHEDRINE □ d-N,α-DIMETHYLPHENETHYLAMINE □ METHAMPHETAMIN □ (+)-METHAMPHETAMINE □ d-METHAMPHETAMINE □ d-(S)-METHAMPHETAMINE □ l-METHAMPHETAMINE □ S-(+)-METHAMPHETAMINE □ (+)-METHYLAMPHETAMINE □ d-METHYLAMPHETAMINE □ d-N-METHYLAMPHETAMINE □ N-METHYLAMPHETAMINE □ (+)-N-METHYLAMPHETAMINE □ METHYL-β-PHENYLISOPROPYLAMINE □ NORODIN □ d-PHENYLISOPROPYLMETHYLAMINE □ PHENETHYLAMINE, N,α-DIMETHYL-, (S)-(+)- □ d-1-PHENYL-2-METHYLAMINOPROPANE
TOXICITY DATA with REFERENCE:
unr-man TDLo:14 mg/kg:CNS VHTODE 41,28,1999
ipr-rat LDLo:10 mg/kg NYKZAU 98,121,1991
ivn-rat TDLo:1 mg/kg EJPHAZ 423,27,2001
SAFETY PROFILE: A poison by intraperitoneal and intravenous route. Human systemic effects reported. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

PFQ350 CAS: 1131-18-6 HR: 2
1-PHENYL-3-METHYL-5-AMINOPYRAZOLE
mf: $C_{10}H_{11}N_3$ mw: 173.24
PROP: Needles or prisms from H_2O. Mp: 116°, bp: 197° @ 16 mm. Mod sol in hot H_2O.
SYN: 3-METHYL-1-PHENYL-1H-PYRAZOLE-5-AMINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:2500 mg/kg LONZA# 03FEB81
orl-mus LD50:1300 mg/kg LONZA# 03FEB81
orl-rbt LD50:1000 mg/kg LONZA# 03FEB81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

PFR000 CAS: 120-45-6 HR: 1
PHENYLMETHYLCARBINYL PROPIONATE
mf: $C_{11}H_{14}O_2$ mw: 178.25
SYNS: α-METHYLBENZYL ALCOHOL, PROPIONATE □ α-METHYLBENZYL PROPANOATE □ METHYLPHENYLCARBINYL PROPIONATE □ 1-PHENYLETHYL PROPIONATE □ STYRALLYL PROPIONATE □ STYROLYL PROPIONATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 14,613,76
orl-rat LD50:5200 mg/kg FCTXAV 14,613,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

PFR100 HR: D
PHENYLMETHYLCYCLOSILOXANE, mixed copolymer
TOXICITY DATA with REFERENCE:
orl-rat TDLo:1100 mg/kg (8-12D preg):TER TXAPA9 21,29,72
SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

PFR120 CAS: 85785-20-2 HR: 1
S-(PHENYLMETHYL) (1,2-DIMETHYLPROPYL)ETHYLCARBAMOTHIOATE
mf: $C_{15}H_{23}NOS$ mw: 265.45
SYNS: S-BENZYL 1,2-DIMETHYLPROPYL(ETHYL)-THIOCARBAM-ATE (IUPAC) □ CARBAMOTHIOIC ACID, (1,2-DIMETHYLPROPYL)ETHYL-, S-(PHENYLMETHYL) ESTER □ ESPROCARB □ FUJI GRASS □ SC 2957
TOXICITY DATA with REFERENCE:
orl-rat LD50:>2 g/kg PEMNDP 9,338,91
skn-rat LD50:>2 g/kg PEMNDP 9,338,91
unr-qal LD50:>2 g/kg PEMNDP 9,338,91
ihl-uns LC50:>4 g/m^3/4H PEMNDP 9,338,91
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PFR130 CAS: 52888-80-9 HR: 2
S-(PHENYLMETHYL) DIPROPYLCARBAMOTHIOATE
mf: $C_{14}H_{21}NOS$ mw: 251.42

SYNS: ARKADE ☐ S-BENZYL DIPROPYLTHIOCARBAMATE (IUPAC) ☐ BENZYL DIPROPYLTHIOLCARBAMATE ☐ S-BENZYL DIPROPYL THIOLCARBAMATE ☐ BOXER ☐ CARBAMIC ACID, DIPROPYLTHIO-, S-BENZYL ESTER (7CI) ☐ CARBAMOTHIOIC ACID, DIPROPYL-, S-(PHENYLMETHYL) ESTER ☐ PROSULFOCARB ☐ R 15574 ☐ SC 0574

TOXICITY DATA with REFERENCE:
orl-rat LD50:1820 mg/kg PEMNDP 9,729,91
ihl-rat LC50:>4700 mg/m^3/4H PEMNDP 9,729,91
skn-rbt LD50:>2 g/kg PEMNDP 9,729,91

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

PFR150 CAS: 51630-12-7 HR: 2
(5-(PHENYLMETHYL)-3-FURANYL)METHYL 4-CHLORO-α-ETHYLBENZENEACETATE
mf: $C_{22}H_{21}ClO_3$ mw: 368.88

SYN: BENZENEACETIC ACID, 4-CHLORO-α-ETHYL-, (5-(PHENYLMETHYL)-3-FURANYL)METHYL ESTER

TOXICITY DATA with REFERENCE:
orl-mus LD50:940 mg/kg USXXAM #4062968

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

PFR200 CAS: 10415-87-9 HR: 2
1-PHENYL-3-METHYL-3-PENTANOL
mf: $C_{12}H_{18}O$ mw: 178.30

SYNS: 3-PENTANOL, 3-METHYL-1-PHENYL- ☐ PHENETHYL-METHYLETHYLCARBINOL ☐ PHENYLETHYL METHYL ETHYL CARBINOL

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 17,891,79
orl-rat LD50:2950 mg/kg FCTXAV 17,891,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PFR300 CAS: 72007-81-9 HR: 1
1-PHENYL-3-METHYL-3-PENTANYL ACETATE
mf: $C_{14}H_{20}O_2$ mw: 220.34

SYNS: METHYLETHYL PHENYLETHYL CARBINYL ACETATE ☐ PHENYLETHYL METHYLETHYLCARBINYL ACETATE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 14,833,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PFR325 CAS: 101-71-3 HR: 2
4-(PHENYLMETHYL)PHENOL CARBAMATE
mf: $C_{14}H_{13}NO_2$ mw: 227.28

SYNS: p-BENZYLPHENYL CARBAMATE ☐ BUTOLAN ☐ BUTOLEN ☐ CARBAURINE ☐ CARPHENOL ☐ p-CRESOL, α-PHENYL-, CARBAMATE ☐ DIPHENAN ☐ DIPHENAN (pharmaceutical) ☐ DIPHENANE ☐ OXYBULAN ☐ OXYLAN ☐ PALAFUGE ☐ PARABENCIL ☐ PARABENCILFENOL ☐ PHENOL, 4-(PHENYLMETHYL)-, CARBAMATE

TOXICITY DATA with REFERENCE:
orl-mus LD50:2350 mg/kg ANTCAO 4,917,54

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

PFR350 CAS: 41363-50-2 HR: 3
4-PHENYL-α-METHYLPHENYLACETATE-γ-PROPYLSULFONATE SODIUM SALT
mf: $C_{18}H_{20}O_5S{\bullet}Na$ mw: 371.43

SYNS: 4-FENIL-α-METILFENILACETATO-γ-PROPIL-SOLFONATO SALE SODICO (ITALIAN) ☐ α-METHYL-(1,1'-BIPHENYL)-4-ACETIC ACID 3-SULFOPROPYL ESTER SODIUM SALT

TOXICITY DATA with REFERENCE:
orl-rat LD50:280 mg/kg FRPSAX 28,351,73
scu-rat LD50:270 mg/kg FRPSAX 28,351,73
orl-mus LD50:730 mg/kg FRPSAX 28,351,73
scu-mus LD50:590 mg/kg FRPSAX 28,351,73

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of SO_x and Na_2O. See also ESTERS and SULFONATES.

PFR375 CAS: 3112-85-4 HR: 2
PHENYL METHYL SULFONE
mf: $C_7H_8O_2S$ mw: 156.21

SYNS: BENZENE, (METHYLSULFONYL)-(9CI) ☐ METHYL PHENYL SULFONE ☐ (METHYLSULFONYL)BENZENE ☐ (PHENYLSULFONYL)METHANE ☐ SULFONE, METHYL PHENYL

TOXICITY DATA with REFERENCE:
orl-rat LD50:1470 mg/kg PCBPBS 1,356,71

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

PFR400 CAS: 67633-94-7 HR: 1
2-(PHENYLMETHYL)-4,4,6-TRIMETHYL-1,3-DIOXANE
mf: $C_{14}H_{20}O_2$ mw: 220.34

SYNS: 1,3-DIOXANE, 2-(PHENYLMETHYL)-4,4,6-TRIMETHYL- ☐ PHENYLACETALDEHYDE 2,4-DIHYDROXY-2-METHYL-PENTANE ACETAL ☐ RESEDA BODY

TOXICITY DATA with REFERENCE:
orl-rat LDLo:5 g/kg FCTOD7 30,103S,92
skn-rbt LD50:>5 g/kg FCTOD7 30,103S,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.

PFR600 CAS: 95719-25-8 HR: 2
PHENYLMONOCHLOROTOLYLETHANE
mf: $C_{15}H_{15}Cl$ mw: 230.75

SYNS: BENZENE, CHLOROMETHYL(1-PHENYLETHYL)- ☐ CHLOROMETHYL(1-PHENYLETHYL)BENZENE ☐ TOLUENE, CHLORO(α-METHYLBENZYL)-

TOXICITY DATA with REFERENCE:
orl-rat LD50:4700 mg/kg AZMZA6 61(9),3,84
orl-mus LD50:3800 mg/kg AZMZA6 61(9),3,84

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

PFS350 CAS: 1943-79-9 HR: 3
PHENYLMONOMETHYLCARBAMATE
mf: $C_8H_9NO_2$ mw: 151.18
SYNS: DRC 3345 □ METHYLCARBAMIC ACID PHENYL ESTER □ PHENMEC □ PHENYL METHYLCARBAMATE □ PHENYL N-METHYLCARBAMATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:540 mg/kg BWHOA6 44(1-3),241,71
ipr-rat LD50:357 mg/kg BWHOA6 44(1-3),241,71
ivn-rat LD50:13,600 µg/kg BWHOA6 44(1-3),241,71
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES and ESTERS.

PFS500 CAS: 16033-21-9 HR: 3
1-PHENYL-3-MONOMETHYLTRIAZENE
mf: $C_7H_9N_3$ mw: 135.19
SYN: PMT
TOXICITY DATA with REFERENCE:
mmo-nsc 600 µmol/L MUREAV 13,276,71
skn-mus TDLo:284 mg/kg/8W-I:NEO CNREA8 34,1671,74
scu-mus LDLo:45 mg/kg CNREA8 34,1671,74
SAFETY PROFILE: Poison by subcutaneous route. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PFS600 CAS: 4166-09-0 HR: 3
N-PHENYLMONOTHIOSUCCINIMIDE
mf: $C_{10}H_9NOS$ mw: 191.26
SYNS: SUCCINIMIDE, N-PHENYL-2-THIO- □ USAF WI-2
TOXICITY DATA with REFERENCE:
ipr-mus LD50:250 mg/kg NTIS** AD607-952
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PFS750 CAS: 92-53-5 HR: 3
PHENYL MORPHOLINE
mf: $C_{10}H_{13}NO$ mw: 163.24
PROP: Crystals from ethanol, ether. D: 1.058 @ 270°, mp: 57°, bp: 259.9°. Sol in water, alc, ether.
SYNS: MORPHOLINOBENZENE □ N-PHENYLMORPHOLINE
TOXICITY DATA with REFERENCE:
eye-rbt 5 mg MLD UCDS** 1/13/72
orl-rat LD50:930 mg/kg JIHTAB 23,259,41
skn-rbt LD50:360 mg/kg UCDS** 1/13/72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by skin contact. Moderately toxic by ingestion. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

PFT250 CAS: 90-30-2 HR: 2
N-PHENYL-1-NAPHTHYLAMINE
mf: $C_{16}H_{13}N$ mw: 219.30
PROP: Prisms or needles from alc; leaflets from ligroin. Mp: 62°, bp: 335° @ 528 mm. Sol in water, benzene, alc, acetic acid, ether, chloroform.
SYNS: ACETO PAN □ ADDITIN 30 □ 1-ANILINONAPHTHALENE □ C.I. 44050 □ N-(1-NAPHTHYL)ANILINE □ NEOZONE A □ PANA □ PHENYLNAPHTHYLAMINE □ PHENYL-α-NAPHTHYLAMINE □ N-PHENYL-α-NAPHTHYLAMINE □ α-PHENYLNAPHTHYLAMINE □ VULKANOX PAN
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate SYSWAE 12,41,79
mma-sat 500 nL/plate NTIS** AD-A041-973
otr-hmn:oth 27,500 µg/L ITCSAF 17,719,81
dns-hmn:lng 50 mg/L NTIS** AD-A041-973
dlt-mus-ipr 830 mg/kg/5D-I NTIS** AD-A041-973
orl-mus TDLo:5400 mg/kg/9W-I:CAR CNREA8 44,3098,84
orl-mus TD:17,280 mg/kg/9W-I:CAR CNREA8 44,3098,84
orl-rat LD50:1625 mg/kg AMRL** TR-74-78,74
orl-mus LD50:1231 mg/kg AMRL** TR-74-78,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. Used as a rubber antioxidant. See also AMINES.

PFT500 CAS: 135-88-6 HR: 3
N-PHENYL-β-NAPHTHYLAMINE
mf: $C_{16}H_{13}N$ mw: 219.30
PROP: Rhombic crystals and needles from MeOH. Mp: 107−108°, bp: 395.5°. Insol in water; sol in hot benzene; very sol in hot alc, ether.
SYNS: ACETO PBN □ AGERITE POWDER □ ANILINONAPHTHALENE □ 2-ANILINONAPHTHALENE □ ANTIOXIDANT 116 □ ANTIOXIDANT PBN □ N-(2-NAPHTHYL)ANILINE □ β-NAPHTHYLPHENYLAMINE □ 2-NAPHTHYLPHENYLAMINE □ NCI-C02915 □ NEOZONE D □ NILOX PBNA □ NONOX D □ PBNA □ PHENYL-β-NAPHTHYLAMINE □ PHENYL-2-NAPHTHYLAMINE □ N-PHENYL-2-NAPHTHYLAMINE □ STABILIZATOR AR
TOXICITY DATA with REFERENCE:
otr-hmn:oth 23,100 µg/L ITCSAF 17,719,81
cyt-mus-orl 360 mg/kg/18D GTPZAB 29(9),57,79
orl-mus TDLo:433 g/kg/2Y-C:ETA NTPTR* NTP-TR-333,88
orl-rat LD50:8730 mg/kg HYSAAV 31(2),183,66
orl-mus LD50:1450 mg/kg HYSAAV 31(2),183,66
orl-rbt LDLo:1000 mg/kg TPKVAL 10,91,68
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,318,87; Human Inadequate Evidence IMEMDT 16,325,78; Animal Limited Evidence IMEMDT 16,325,78. Reported in EPA TSCA Inventory.
ACGIH TLV: Not Classifiable as a Human Carcinogen
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Moderately toxic by ingestion. Human

mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PFT600 CAS: 6652-04-6 HR: 2
4-PHENYLNITROSOPIPERIDINE
mf: $C_{11}H_{14}N_2O$ mw: 190.27
SYNS: NITROSO-4-PHENYLPIPERIDINE □ N-NITROSO-4-PHENYLPIPERIDINE □ 1-NITROSO-4-PHENYLPIPERIDINE
TOXICITY DATA with REFERENCE:
mma-sat 25 µg/plate TCMUE9 1,13,84
pic-esc 2 mg/L TCMUE9 1,13,84
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

PFT700 CAS: 58955-84-3 HR: 2
4-PHENYL-6H-1,3,5-OXATHIAZINE
mf: C_9H_9NOS mw: 179.25
SYNS: DIRI 2434 □ 6H-1,3,5-OXATHIAZINE, 4-PHENYL-
TOXICITY DATA with REFERENCE:
orl-rat LD50:650 mg/kg USXXAM #4035496
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PFU250 CAS: 1841-19-6 HR: 3
1-PHENYL-4-OXO-8-(4,4-BIS(4-FLUORO-PHENYL)BUTYL)-1,3,8-TRIAZASPIRO-(4,5)DECANE
mf: $C_{29}H_{31}F_2N_3O$ mw: 475.63
PROP: Yellow powder or crystals. Mp: 187.5−190°.
SYN: 8-(4,4-BIS(p-FLUOROPHENYL)BUTYL)-1-PHENYL-1,3,8-TRIAZASPIRO(4,5)DECAN-4-ONE
TOXICITY DATA with REFERENCE:
ivn-man TDLo:183 µg/kg:SKN BMJOAE 1,523,79
ims-mus LD50:125 mg/kg 27ZQAG -,231,72
SAFETY PROFILE: Poison by intramuscular route. Human systemic effects by intravenous route: corrosive to skin. When heated to decomposition it emits very toxic fumes of F^- and NO_x. See also FLUORIDES.

PFU300 CAS: 120-46-7 HR: 2
PHENYL PHENACYL KETONE
mf: $C_{15}H_{12}O_2$ mw: 224.27
SYNS: OMEGA-BENZOYLACETOPHENONE □ 2-BENZOYL-ACETOPHENONE □ DIBENZOYLMETHANE □ 1,3-DIPHENYL-1,3-PROPANEDIONE □ KARENZU DK2 □ 1,3-PROPANEDIONE, 1,3-DIPHENYL- □ RHODIASTAB 83
TOXICITY DATA with REFERENCE:
orl-rat LD :>500 mg/kg NCNSA6 5,28,1953
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PFU500 CAS: 101-54-2 HR: 2
N-PHENYL-p-PHENYLENEDIAMINE
mf: $C_{12}H_{12}N_2$ mw: 184.26
PROP: Needles from EtOH; crystals from ligroin. Mp: 66°, bp: 155° @ 0.026 mm. Sol in EtOH, Et_2O, acids; insol in H_2O.
SYNS: ACNA BLACK DF BASE □ p-AMINODIFENYLAMIN (CZECH) □ p-AMINODIPHENYLAMINE □ 4-AMINODIPHEN-YLAMINE □ p-ANILINOANILINE □ AZOSALT R □ 1,4-BENZ3NEDIAMINE, N-PHENYL-(9CI) □ C.I. 37240 □ C.I. 76085 □ C.I. AZOIC DIAZO COMPONENT 22 □ C.I. DEVELOPER 15 □ C.I. OXIDATION BASE 2 □ DIPHENYLAMINE, p-AMINO- □ DIPHENYLAMINE, 4-AMINO- □ DIPHENYL BLACK □ FAST BLUE R SALT □ N-FENYL-p-FENYLENDIAMIN □ LUXAN BLACK R □ NAPHTHOELAN NAVY BLUE □ NCI-C02233 □ OXY ACID BLACK BASE □ PELTOL BR □ PELTOL BR II □ N-PHENYL-p-AMINOANILINE □ N-PHENYL-1,4-BENZENEDI-AMINE □ p-SEMIDINE □ VARIAMINE BLUE SALT RT
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg/24H SEV 28ZPAK -,70,72
mmo-sat 150 µg/plate ESKHA5 (94),28,76
orl-rat LD50:464 mg/kg NCILB* NIH-NCI-E-C-72-3252
orl-mus LD50:244 mg/kg TPKVAL 8,126,66
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-82,78. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. A severe eye irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

PFU600 CAS: 4698-96-8 HR: D
p-PHENYLPHENYL GLYCIDYL ETHER
mf: $C_{15}H_{14}O_2$ mw: 226.29
SYNS: 4-BIPHENYLYL GLYCIDYL ETHER □ ETHER, 4-BIPHENYLYL 2,3-EPOXYPROPYL □ OXIRANE, 2-((1,1'-BIPHENYL-4-YLOXY)METHYL)- □ PROPANE, 1-(4-BIPHENYLOXY)-2,3-EPOXY-
TOXICITY DATA with REFERENCE:
mic-sat 10 nmol/plate MUREAV 206,115,1988
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

PFV000 CAS: 63504-15-4 HR: 3
N-PHENYL-N-(1-(PHENYLIMINO)ETHYL)-N′-2,5-DICHLOROPHENYLUREA
mf: $C_{21}H_{22}Cl_2N_3O$ mw: 403.36
SYNS: N-CARBAMOYL-2-(2,6-DICHLOROPHENYL)ACETAMIDINE HYDROCHLORIDE □ 1-(2,6-DICHLOROBENZYLFORMIMIDOYL)UREA HYDRO-CHLORIDE □ LON-954
TOXICITY DATA with REFERENCE:
orl-mus LD50:165 mg/kg ARZNAD 27,2326,77
ivn-mus LD50:180 mg/kg CSLNX* NX#01414
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

PFV250 CAS: 638-21-1 HR: 3
PHENYLPHOSPHINE
mf: C_6H_7P mw: 110.10

PROP: Foul smelling liquid. Bp: 160−161°, d: 1.001 @ 15 mm. Insol in water; sol in alkali; very sol in alc and ether.
SYN: FENYLFOSFIN
TOXICITY DATA with REFERENCE:
ihl-rat LC50:38 ppm/4H AIHAAP 30,154,69
OSHA PEL: CL 0.05 ppm
ACGIH TLV: CL 0.05 ppm
NIOSH REL: (Phenylphosphine) CL 0.05 ppm
SAFETY PROFILE: Poison by inhalation. Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of PO_x. See also PHOSPHINE.

PFV500 CAS: 1571-33-1 HR: 3
PHENYLPHOSPHONIC ACID
mf: $C_6H_7O_3P$ mw: 158.10
PROP: Solid or plates from H_2O or EtOAc. Mp: 165°, d: 1.475. Sol in H_2O.
SYN: BENZENEPHOSPHONIC ACID
TOXICITY DATA with REFERENCE:
ipr-mus LD50:110 mg/kg CBCCT* 2,55,50
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of PO_x.

PFV750 CAS: 1754-47-8 HR: 3
PHENYLPHOSPHONIC ACID DIOCTYL ESTER
mf: $C_{22}H_{39}O_3P$ mw: 382.58
PROP: A liquid. Bp: 204−207° @ 4 mm.
SYN: BENZENEPHOSPHONIC ACID, DIOCTYL ESTER
TOXICITY DATA with REFERENCE:
ivn-mus LDLo:100 mg/kg CBCCT* 5,137,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of PO_x. See also ESTERS.

PFV760 CAS: 27442-58-6 HR: 2
PHENYLPHOSPHONIC ACID ISOBUTYL 2-PROPYNYL ESTER
mf: $C_{13}H_{17}O_3P$ mw: 252.27
SYNS: NIA 16824 □ PHOSPHONIC ACID, PHENYL-, ISOBUTYL 2-PROPYNYL ESTER □ PHOSPHONIC ACID, PHENYL-, 2-METHYLPROPYL 2-PROPYNYL ESTER (9CI)
TOXICITY DATA with REFERENCE:
orl-rat LD50:600 mg/kg JAFCAU 18,753,70
skn-rbt LD50:2500 mg/kg JAFCAU 18,753,70
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic vapors of PO_x.

PFV775 HR: 2
PHENYLPHOSPHONIC AZIDE CHLORIDE
mf: $C_6H_5ClN_3OP$ mw: 201.55
SAFETY PROFILE: Potentially explosive during distillation at 80°C/0.5 mbar. When heated to decomposition it emits toxic fumes of Cl^-, PO_x and NO_x. See also AZIDES.

PFW000 HR: 3
PHENYLPHOSPHONIC DIAZIDE
mf: $C_6H_5N_6OP$ mw: 208.12
SAFETY PROFILE: An impact-, heat-, and flame-sensitive explosive. When heated to decomposition it emits very toxic fumes of NO_x and PO_x. See also AZIDES.

PFW100 CAS: 824-72-6 HR: 3
PHENYL PHOSPHONYL DICHLORIDE
mf: $C_6H_5Cl_2OP$ mw: 178.99
PROP: Pungent liquid. D: 1.40 @ 20°/4°, bp: 126−127° @ 12 mm.
SAFETY PROFILE: A storage hazard. May explode in a sealed bottle due to the release of hydrogen chloride gas. When heated to decomposition it emits toxic fumes of Cl^- and PO_x. See also CHLORIDES.

PFW200 CAS: 3497-00-5 HR: 2
PHENYL PHOSPHORUS THIODICHLORIDE
DOT: UN 2799
mf: $C_6H_5Cl_2PS$ mw: 211.04
SYNS: DICHLOROPHENYLPHOSPHINE SULFIDE □ PHENYLTHIONOPHOSPHONIC DICHLORIDE □ PHOSPHONOTHIOIC DICHLORIDE, PHENYL-
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: A corrosive. When heated to decomposition it emits acrid smoke and irritating vapors.

PFW210 CAS: 3497-00-5 HR: 2
PHENYL PHOSPHORUS THIODICHLORIDE
DOT: UN 2799
mf: $C_6H_5Cl_2PS$ mw: 211.04
SYNS: DICHLOROPHENYLPHOSPHINE SULFIDE □ PHENYLTHIONOPHOSPHONIC DICHLORIDE □ PHOSPHONOTHIOIC DICHLORIDE, PHENYL-
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: A corrosive. When heated to decomposition it emits toxic vapors of SO_x and PO_x.

PFW750 CAS: 5388-42-1 HR: 3
N-PHENYLPHTHALIMIDINE
mf: $C_{14}H_{11}NO$ mw: 209.26
PROP: Leaflets from EtOH. Mp: 162−163°.
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#04554
SAFETY PROFILE: Poison by intravenous route. Experimental teratogenic and reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PFX000 CAS: 92-54-6 HR: 3
1-PHENYLPIPERAZINE
mf: $C_{10}H_{14}N_2$ mw: 162.26

PROP: Pale-yellow oil. D: 1.0621 @ 20°/4°, mp: 18.8°, bp: 162–164° @ 22 mm, flash p: 285°F. Insol in water; sol in alc, ether.
SYNS: 1-FENYLPIPERAZIN □ N-PHENYLPIPERAZINE
TOXICITY DATA with REFERENCE:
skn-rbt 100 µg/24H open AIHAAP 23,95,62
eye-rbt 100 mg SEV 34ZIAG -,689,69
dnd-mus-ipr 41 µg/kg MUREAV 282,99,92
mnt-ham:lng 900 µmol/L MUREAV 282,99,92
orl-rat LD50:210 mg/kg AIHAAP 23,95,62
skn-rbt LD50:140 mg/kg AIHAAP 23,95,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and skin contact. A skin and severe eye irritant. Mutation data reported. Combustible when exposed to heat or flame. It supports combustion and decomposes to yield toxic fumes of NO_x. To fight fire, use water, foam, dry chemical. See also PIPERAZINE.

PFX250 CAS: 69103-95-3 HR: 3
2-(3-(N-PHENYLPIPERAZINO)-PROPYL)-3-METHYLCHROMONE
mf: $C_{23}H_{26}N_2O_2$ mw: 362.51
TOXICITY DATA with REFERENCE:
ipr-mus LD50:140 mg/kg EJMCA5 13,387,78
scu-mus LD50:250 mg/kg EJMCA5 13,387,78
SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x.

PFX500 CAS: 69103-97-5 HR: 3
2-(3-(N-PHENYLPIPERAZINO)-PROPYL)-3-METHYL-7-FLUOROCHROMONE
mf: $C_{23}H_{25}FN_2O_2$ mw: 380.50
TOXICITY DATA with REFERENCE:
ipr-mus LD50:90 mg/kg EJMCA5 13,387,78
scu-mus LD50:150 mg/kg EJMCA5 13,387,78
SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of F^- and NO_x.

PFX600 CAS: 17766-63-1 HR: 3
4-PHENYLPIPERAZINYL 3,4,5-TRIMETHOXY-PHENYL KETONE
mf: $C_{20}H_{24}N_2O_4$ mw: 356.46
SYNS: KETONE, 4-PHENYLPIPERAZINYL 3,4,5-TRIMETHOXYPHENYL □ 1-PHENYL-4-(3,4,5-TRIMETHOXYBENZOYL)PIPERAZINE □ PIPERAZINE, 1-PHENYL-4-(3,4,5-TRIMETHOXYBENZOYL)-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:300 mg/kg JMCMAR 11,332,68
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

PFY100 CAS: 6952-94-9 HR: 3
4-PHENYL-4-PIPERIDINECARBOXALDEHYDE
mf: $C_{12}H_{15}NO$ mw: 189.28
SYNS: 4-FENIL-4-FORMILPIPERIDINA (ITALIAN) □ 2723 I.S.
TOXICITY DATA with REFERENCE:
ipr-mus LD50:40 mg/kg FRPSAX 19,14,64
ivn-mus LD50:13 mg/kg CSLNX* NX#07541
ivn-rbt LD50:3 mg/kg FRPSAX 19,14,64
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES.

PFY105 HR: 3
4-PHENYL-1-PIPERIDINECARBOXAMIDE
mf: $C_{11}H_{16}N_2O$ mw: 192.29
SYN: AH 1932
TOXICITY DATA with REFERENCE:
orl-rat LD50:790 mg/kg JPPMAB 20,456,68
orl-mus LD50:1055 mg/kg JPPMAB 20,456,68
ipr-mus LD50:980 mg/kg APFRAD 70,339,82
orl-cat LDLo:400 mg/kg JPPMAB 20,456,68
SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also AMIDES.

PFY200 CAS: 13441-36-6 HR: 3
PHENYL (1-PIPERIDINOCYCLOHEXYL) KETONE
mf: $C_{18}H_{25}NO$ mw: 271.44
SYNS: KETONE, PHENYL (1-PIPERIDINOCYCLOHEXYL) □ α-(1-PIPERIDINO)-CYCLOHEXYL PHENYL KETONE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#04213
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: A poison by intravenous route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

PFY750 CAS: 38940-46-4 HR: 3
2-PHENYL-6-PIPERIDINOHEXYNOPHENONE
mf: $C_{23}H_{29}NO$ mw: 335.53
TOXICITY DATA with REFERENCE:
orl-mus LD50:340 mg/kg CHTPBA 7,287,72
ivn-mus LD50:18,500 µg/kg CHTPBA 7,287,72
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

PGA250 CAS: 74203-58-0 HR: 3
1-PHENYL-4-((4-PIPERONYL-1-PIPERAZIN-YLCARBONYL)-2-PYRROLIDINONE HYDROCHLORIDE
mf: $C_{17}H_{20}N_3O_4$•ClH mw: 366.86
SYN: CHLORHYDRATE de (PIPERONYL-4-PIPERAZINO)-1)-(PHENYL-1-PYRROLIDONE-2-CARBOXAMIDE-4) (FRENCH)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:65 mg/kg CHTPBA 7,398,72
ivn-mus LD50:51 mg/kg CHTPBA 7,398,72
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

PGA500 CAS: 579-07-7 HR: 3
1-PHENYL-1,2-PROPANEDIONE

mf: $C_9H_8O_2$ mw: 148.16
PROP: Yellow oil. Very spar sol in H_2O. Flash p: <69.8°F, d: 1.007 @ 20°/4°, bp: 222°.
SAFETY PROFILE: A very dangerous fire hazard 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 KETONES.

PGA600 CAS: 698-87-3 HR: 2
1-PHENYL-2-PROPANOL
mf: $C_9H_{12}O$ mw: 136.21
SYNS: BENZENEETHANOL, α-METHYL-(9CI) □ BENZYL METHYL CARBINOL □ α-METHYLBENZENEETHANOL □ α-METHYL-PHENETHYL ALCOHOL □ PHENETHYL ALCOHOL, α-METHYL-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:520 mg/kg JPMSAE 60,799,71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

PGA750 CAS: 673-31-4 HR: 3
3-PHENYL-1-PROPANOL CARBAMATE
mf: $C_{10}H_{13}NO_2$ mw: 179.24
PROP: Leaflets from EtOH (aq). Mp: 101−104°.
SYNS: ACTOZINE □ ANSEPRON □ BENZENEPROPANOL CARBAMATE □ CARBAMIC ACID-3-PHENYLPROPYL ESTER □ 1-CARBAMOYLOXY-3-PHENYLPROPANE □ EIRENAL □ EXTACOL □ FENPROBAMATO □ GAMAQUIL □ Hg 532 □ MH-532 □ PALMITA □ γ-PHENYLPROPYLCARBAMAT (GERMAN) □ γ-PHENYLPROPYL CARBAMATE □ QUAMAQUIL □ SPANTOL □ TRANQUIL
TOXICITY DATA with REFERENCE:
orl-rat LD50:1110 mg/kg ARZNAD 13,856,63
ipr-rat LD50:275 mg/kg AIPTAK 123,140,59
orl-mus LD50:840 mg/kg ARZNAD 12,340,62
ipr-mus LD50:150 mg/kg NTIS** AD691-490
ivn-mus LD50:320 mg/kg MEIEDD 10,1047,83
orl-rbt LD50:1125 mg/kg 27ZQAG -,402,72
ipr-rbt LD50:285 mg/kg 27ZQAG -,402,72
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. Used as a tranquilizer and muscle relaxant. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES and ESTERS.

PGA775 CAS: 4364-06-1 HR: 2
3-PHENYL-2-PROPENAL DIMETHYL ACETAL
mf: $C_{11}H_{14}O_2$ mw: 178.25
SYNS: BENZENE, (3,3-DIMETHOXY-1-PROPENYL)- (9CI) □ CINNAMALDEHYDE DIMETHYL ACETYL □ CINNAMIC ALDEHYDE DIMETHYL ACETAL
TOXICITY DATA with REFERENCE:
orl-rat LD50:3700 mg/kg FCTXAV 13,747,1975
skn-rbt LD50:>5 g/kg FCTXAV 13,747,1975
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.

PGA800 HR: D
2-PHENYLPROPIONALDEHYDE DIMETHYL ACETAL
mf: $C_{11}H_{16}O_2$ mw: 180.25
PROP: Colorless to sltly yellow liquid; mushroom odor. D: 0.989−0.994, refr index: 1.492−1.497. Sol in alc, ether; insol in water.
SYNS: FEMA No. 2888 □ HYDRATROPIC ALDEHYDE DIMETHYL ACETAL
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

PGB500 HR: 3
3-PHENYLPROPIONYL AZIDE
mf: $C_9H_9N_3O$ mw: 175.19
SAFETY PROFILE: A heat-sensitive explosive. When heated to decomposition it emits toxic fumes of NO_x. See also AZIDES.

PGB750 CAS: 10402-52-5 HR: 1
2-PHENYLPROPYL ACETATE
mf: $C_{11}H_{14}O_2$ mw: 178.25
PROP: Bp: 125° @ 14 mm.
SYNS: HYDRATROPIC ACETATE □ HYDRATROPYL ACETATE □ β-METHYLPHENYLETHYL ACETATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 14,659,76
orl-rat LD50:4300 mg/kg FCTXAV 14,659,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

PGB760 CAS: 582-22-9 HR: 3
2-PHENYLPROPYLAMINE
mf: $C_9H_{13}N$ mw: 135.23
SYNS: 1-AMINO-2-PHENYLPROPANE □ BENZENEETHAN-AMINE, β-METHYL- □ α-BENZYLETHYLAMINE □ β-METHYLBENZENEETHANAMINE □ β-METHYLPHENETHYL-AMINE □ β-PHENYLPROPYLAMINE □ PHENETHYLAMINE, β-METHYL- □ 1-PHENYL-1-METHYL-2-AMINO-AETHAN □ 1-PHENYL-1-METHYL-2-AMINOETHANE
TOXICITY DATA with REFERENCE:
orl-rat LD :>3 g/kg AEPPAE 195,647,1940
ipr-rat LDLo:150 mg/kg AEPPAE 195,647,1940
SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

PGB770 CAS: 64046-48-6 HR: 2
3-PHENYLPROPYL CHLOROACETATE
mf: $C_{11}H_{13}ClO_2$ mw: 212.69
SYN: ACETIC ACID, CHLORO-, 3-PHENYLPROPYL ESTER
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:500 mg/kg CBCCT* 8,734,1956

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

PGB800 CAS: 122-68-9 HR: 1
3-PHENYLPROPYL CINNAMATE
mf: $C_{18}H_{18}O_2$ mw: 266.36
SYNS: CINNAMIC ACID, 3-PHENYLPROPYL ESTER (7CI,8CI) □ HYDROCINNAMYL CINNAMATE □ 3-PHENYL-2-PROPENOIC ACID 3-PHENYLPROPYL ESTER □ PHENYLPROPYL CINNAMATE □ 2-PROPENOIC ACID, 3-PHENYL-, 3-PHENYLPROPYL ESTER
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5 g/kg FCTXAV 12,969,74
skn-rbt LD50:>5 g/kg FCTXAV 12,969,74
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.

PGB850 CAS: 315706-78-6 HR: 3
3-PHENYL-N-(4-PROPYLCYCLOHEXYL)-2-PROPENAMIDE
mf: $C_{18}H_{25}NO$ mw: 271.40
TOXICITY DATA with REFERENCE:
orl-mus TDLo:26.3 mg/kg FRMCE8 55,439,2000
orl-rat TDLo:100 mg/kg FRMCE8 55,439,2000
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

PGC750 CAS: 78128-85-5 HR: 2
3-(3-PHENYLPROPYL)-4-HYDROXY-2(5H)FURANONE
mf: $C_{13}H_{14}O_3$ mw: 218.27
SYN: α-(β-PHENYL-PROPYL)-β-HYDROXY-$\Delta^{\alpha,\beta}$-BUTENOLID (GERMAN)
TOXICITY DATA with REFERENCE:
scu-mus LD50:1750 mg/kg ARZNAD 11,277,61
ivn-mus LD50:700 mg/kg ARZNAD 11,277,61
SAFETY PROFILE: Moderately toxic by subcutaneous and intravenous routes. When heated to decomposition it emits acrid smoke and irritating fumes.

PGD000 CAS: 3239-63-2 HR: 3
O-PHENYL-S-PROPYL METHYL PHOSPHONODITHIOATE
mf: $C_{10}H_{15}OPS_2$ mw: 246.34
SYNS: ENT 27,186 □ V-C 3-764
TOXICITY DATA with REFERENCE:
orl-rat LD50:208 mg/kg ARSIM* 20,26,66
orl-ckn LD50:8 mg/kg TXAPA9 11,49,67
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of SO_x and PO_x.

PGD050 CAS: 296269-55-1 HR: 3
α-(1-PHENYL-5-PROPYL-1H-PYRAZOL-4-YL)-1-PIPERIDINEBUTANOL
mf: $C_{21}H_{31}N_3O$ mw: 341.50
TOXICITY DATA with REFERENCE:
orl-mus TDLo:200 mg/kg FRMCE8 55,219,2000
SAFETY PROFILE: A poison by route. When heated to decomposition it emits toxic vapors of NO_x.

PGD100 CAS: 935-02-4 HR: 3
PHENYLPROPYNENITRILE
mf: C_9H_5N mw: 127.15
SYNS: CYANOPHENYLACETYLENE □ PHENYLPROPIOLIQUE NITRILE □ PHENYLPROPIOLONITRILE □ PROPIOLONITRILE, PHENYL- □ 2-PROPYNENITRILE, 3-PHENYL-
TOXICITY DATA with REFERENCE:
orl-mus LD50:113 mg/kg PHLIDQ 8,73,1985
ivn-rbt LDLo:10 mg/kg COREAF 153,895,1911
scu-gpg LDLo:110 mg/kg COREAF 153,895,1911
SAFETY PROFILE: A poison by ingestion. Moderately toxic by intravenous and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x.

PGE000 CAS: 3567-38-2 HR: 3
1-PHENYL-2-PROPYNYL CARBAMATE
mf: $C_{10}H_9NO_2$ mw: 175.20
PROP: A solid. Mp: 86−88°.
SYNS: BENZENEMETHANOL, α-ETHYNYL-, CARBAMATE (9CI) □ CARBAMIC ACID, 1-PHENYL-2-PROPYNYL ESTER □ CARBAMMATO di FENILETINILCARBINOLO □ CARFIMAT □ CARFIMATE □ CFC □ EQUILIUM □ α-ETHYNYLBENZENEMETHANOL CARBAMATE □ α-ETHYNYLBENZYL CARBAMATE □ NIRVOTIN □ PHENYLETHYNYLCARBINOL CARBAMATE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:150 mg/kg AIPTAK 99,245,54
orl-mus LD50:275 mg/kg THERAP 11,692,56
ipr-mus LD50:250 mg/kg AIPTAK 99,245,54
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

PGE250 CAS: 1008-79-3 HR: 3
1-PHENYL-4-PYRAZOLIN-3-ONE
mf: $C_9H_8N_2O$ mw: 160.19
PROP: Needles from H_2O. Mp: 153−155°.
SYN: 1-FENYL-3-PYRAZOLON (CZECH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK -,144,72
eye-rbt 100 mg/24H SEV 28ZPAK -,144,72
orl-rat LD50:381 mg/kg 28ZPAK -,144,72
SAFETY PROFILE: Poison by ingestion. A skin and severe eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also KETONES.

PGE300 CAS: 61001-42-1 HR: D
2-PHENYL-8H-PYRAZOLO(5,1-a)ISOINDOLE
mf: $C_{16}H_{12}N_2$ mw: 232.30
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PGE350 CAS: 61001-36-3 HR: D
2-PHENYL-PYRAZOLO(5,1-a)ISOQUINOLINE
mf: $C_{17}H_{12}N_2$ mw: 244.31

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

PGE500 CAS: 78109-90-7 HR: 2
p-(3-PHENYL-1-PYRAZOLYL)BENZENE-SULFONIC ACID
mf: $C_{15}H_{12}N_2O_3S$ mw: 300.35
SYN: 1-(p-SULFOPHENYL)-3-PHENYL-PYRAZOL (GERMAN)
TOXICITY DATA with REFERENCE:
scu-mus LD50:982 mg/kg ARZNAD 4,249,54
ivn-mus LD50:490 mg/kg ARZNAD 4,249,54
SAFETY PROFILE: Moderately toxic by intravenous and subcutaneous routes. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

PGE550 CAS: 296269-52-8 HR: 3
α-(1-PHENYL-1H-PYRAZOL-4-YL)-1-PIPERIDINEBUTANOL
mf: $C_{18}H_{25}N_3O$ mw: 299.42
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.

PGE600 CAS: 1008-89-5 HR: D
2-PHENYLPYRIDINE
mf: $C_{11}H_9N$ mw: 155.21
SYNS: o-PHENYLPYRIDINE □ PYRIDINE, 2-PHENYL-
TOXICITY DATA with REFERENCE:
mic-smc 200 ppm MUREAV 163,23,86
mrc-smc 300 ppm MUREAV 163,23,86
sln-smc 250 ppm MUREAV 163,23,86
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

PGE750 CAS: 939-23-1 HR: 3
4-PHENYLPYRIDINE
mf: $C_{11}H_9N$ mw: 155.21
PROP: Leaves or plates from water. Mp: 77−78°, bp: 274−275°. Sol in hot water, alc, ether.
SYN: p-PHENYLPYRIDINE
TOXICITY DATA with REFERENCE:
mma-sat 650 μmol/L/2H CNREA8 39,4152,79
ivn-mus LD50:89 mg/kg CSLNX* NX#12031
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PGE760 CAS: 91-02-1 HR: 3
PHENYL 2-PYRIDYL KETONE
mf: $C_{12}H_9NO$ mw: 183.22
SYNS: 2-BENZOYLPYRIDINE □ KETONE, PHENYL 2-PYRIDYL □ PYRIDINE, 2-BENZOYL-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:475 mg/kg JMCMAR 14,551,71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

PGE765 CAS: 5424-19-1 HR: 3
PHENYL 3-PYRIDYL KETONE
mf: $C_{12}H_9NO$ mw: 183.22
SYNS: 3-BENZOYLPYRIDINE □ KETONE, PHENYL 3-PYRIDYL □ PYRIDINE, 3-BENZOYL-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:460 mg/kg JMCMAR 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 and Cl^-.

PGE768 CAS: 14548-46-0 HR: 3
PHENYL 4-PYRIDYL KETONE
mf: $C_{12}H_9NO$ mw: 183.22
SYNS: 4-BENZOYLPYRIDINE □ KETONE, PHENYL 4-PYRIDYL □ PYRIDINE, 4-BENZOYL-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:520 mg/kg JMCMAR 14,551,71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

PGE775 CAS: 562-10-7 HR: 2
PHENYL-2-PYRIDYLMETHYL-β-N,N-DIMETHYL-AMINOETHYL ETHER SUCCINATE
mf: $C_{17}H_{22}N_2O{\bullet}C_4H_6O_4$ mw: 388.51
PROP: A solid. Mp: 100−104°.
SYNS: DECAPRYN □ DECAPRYN SUCCINATE □ DECARPYN SUCCINATE (1:1) □ DIMETHYLAMINOETHOXY-METHYL-BENZYL-PYRIDINE SUCCINATE □ 2-(α-(2-DIMETHYLAMINO-ETHOXY)-α-METHYLBENZYL)PYRIDINE SUCCINATE □ 2-DIMETHYLAMINOETHOXYPHENYLMETHYL-2-PICOLINE SUCCINATE □ DOXYLAMINE SUCCINATE □ DOXYLAMINE SUCCINATE (1:1) □ HOGGAR N □ MEREPRINE □ PYRIDINE, 2-(α-(2-(DIMETHYLAMINO)ETHOXY)-α-METHYLBENZYL)-, SUCCINATE (1:1) □ UNISOM
TOXICITY DATA with REFERENCE:
dns-rat:lvr 500 μmol/L MUREAV 135,131,84
orl-rat LDLo:600 mg/kg JAPMA8 37,311,48
orl-mus LD50:470 mg/kg JLCMAK 33,325,48
SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Mutation data reported. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

PGF100 CAS: 3333-85-5 HR: D
2-PHENYL-3-p-(β-PYRROLIDINOETHOXY)-PHENYL-6-METHOXY-BENZOFURAN HYDROCHLORIDE
mf: $C_{27}H_{27}NO_3{\bullet}ClH$ mw: 450.01

SYNS: 1-(2-(p-(6-METHOXY-2-PHENYLBENZOFURAN-3-YL)PHENOXY)ETHYL)PYRROLIDINE HYDROCHLORIDE □ 1-(2-(p-(6-METHOXY-2-PHENYL-3-BENZOFURANYL)PHENOXY)-ETHYL)PYRROLIDINE HYDROCHLORIDE □ 6-METHOXY-3-(p-(2-(N-PYRROLIDYL)ETHOXY)PHENYL)-2-PHENYLBENZO(b)-FURAN HYDROCHLORIDE

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

PGF112 CAS: 13619-98-2 HR: D
3-PHENYL-4-(p-(β-PYRROLIDINOETHOXY)-PHENYL)-7-METHOXYCHROMENE

mf: $C_{28}H_{29}NO_3$ mw: 427.58

SYNS: EMD 16-795 □ 1-(2-(4-(7-METHOXY-3-PHENYL-2H-1-BENZOPYRAN-4-YL)PHENOXY)ETHYL)PYRROLIDINE □ PYRROLIDINE, 1-(2-(4-(7-METHOXY-3-PHENYL-2H-1-BENZOPYRAN-4-YL)PHENOXY)ETHYL)- □ PYRROLIDINE, 1-(2-(p-(7-METHOXY-3-PHENYL-2H-1-BENZOPYRAN-4-YL)PHENOXY)ETHYL)-

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

PGF125 CAS: 24365-61-5 HR: 3
2-PHENYL-3-p-(β-PYRROLIDINOETHOXY)-PHENYL-(2:1-b)NAPHTHOFURAN

mf: $C_{30}H_{27}NO_2$ mw: 433.58

SYNS: 2-PHENYL-3-p-(β-PYRROLIDINOETHOXY)-PHENYL-NAPHTHO(2:1-b)FURAN □ 2-PHENYL-1-(p-(2-(1-PYRROLIDINYL)ETHOXY)PHENYL)NAPHTHO(2,1-b)FURAN

TOXICITY DATA with REFERENCE:
ipr-mus LD50:400 mg/kg CCPTAY 1,29,70

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

PGF800 CAS: 1198-97-6 HR: 3
PHENYLPYRROLIDONE

mf: $C_{10}H_{11}NO$ mw: 161.22

SYNS: 4-PHENYL-2-PYRROLIDINONE □ 4-PHENYLPYRROLIDONE-2

TOXICITY DATA with REFERENCE:
ipr-mus LD50:325 mg/kg AITEAT 23,733,75

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

PGF900 CAS: 7697-46-3 HR: 3
PHENYL PYRROL-2-YL KETONE

mf: $C_{11}H_9NO$ mw: 171.21

SYNS: 2-BENZOYLPYRROLE □ KETONE, PHENYL PYRROL-2-YL □ METHANONE, PHENYL-1H-PYRROL-2-YL-(9CI) □ PHENYL-1H-PYRROL-2-YLMETHANONE □ PYRROL-2-YLPHENYL KETONE

TOXICITY DATA with REFERENCE:
ipr-rat LD50:750 mg/kg JMCMAR 11,1251,68
ipr-mus LD50:767 mg/kg JMCMAR 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.

PGG000 CAS: 132-60-5 HR: 3
2-PHENYLQUINOLINE-4-CARBOXYLIC ACID

mf: $C_{16}H_{11}NO_2$ mw: 249.28

PROP: Crystals from MeOH. Mp: 218°. Insol in H_2O.

SYNS: ACIPHENOCHINOLINE □ ACIPHENOCHINOLINIUM □ AGOTAN □ ALUTYL □ ARTAM □ ATOCIN □ ATOPHAN □ CINCHOPHENE □ CINCHOPHENIC ACID □ CINCOPHEN □ IKTEROSAN □ MYLOFANOL □ PHENOQUIN □ 2-PHENYLCINCHONIC ACID □ 2-PHENYL-4-QUINOLINE-CARBOXYLIC ACID □ POLYPHLOGIN □ QUINOFEN □ QUINOPHEN □ RHEMATAN □ TOPHOL □ VANTYL

TOXICITY DATA with REFERENCE:
orl-hmn LDLo:214 mg/kg 34ZIAG -,178,69
unr-man LDLo:74 mg/kg 85DCAI 2,73,70
orl-rat LDLo:500 mg/kg JPETAB 90,260,47
orl-mus LDLo:1500 mg/kg LDTU** -,-,31
ipr-mus LD50:200 mg/kg NTIS** AD691-490
scu-mus LD50:350 mg/kg AIPTAK 116,154,58

SAFETY PROFILE: A human poison by ingestion. An experimental poison by intraperitoneal and subcutaneous routes. Moderately toxic by an unspecified route. When heated to decomposition it emits toxic fumes of NO_x.

PGG350 CAS: 553-69-5 HR: 3
PHENYLRAMIDOL

mf: $C_{13}H_{14}N_2O$ mw: 214.29

PROP: Crystals from dil methanol. Mp: 82–85°.

SYNS: ABBOLEXIN □ ANALEXIN □ BONAPAR □ CABRAL □ ELAN □ EVASPIRINE □ EVASPRINE □ FENYRAMIDOL □ FENYRIPOL □ 2-(β-HYDROXYPHENETHYLAMINO)PYRIDINE □ IN 511 □ MIODAR □ MJ 505 □ PHENYRAMIDOL □ α-(2-PYRIDYLAMINOMETHYL)BENZYL ALCOHOL

TOXICITY DATA with REFERENCE:
orl-rat LD50:756 mg/kg AIPTAK 130,280,61
orl-mus LD50:1850 mg/kg BCFAAI 103,245,64
ipr-mus LD50:355 mg/kg AIPTAK 141,83,63
scu-mus LD50:405 mg/kg APTOA6 19,247,62
ivn-mus LD50:124 mg/kg AIPTAK 141,83,63

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

PGG355 CAS: 326-43-2 HR: 3
PHENYLRAMIDOL HYDROCHLORIDE

mf: $C_{13}H_{14}N_2O{\bullet}ClH$ mw: 250.75

SYNS: ANALEXIN □ FENYRAMIDOL HYDROCHLORIDE □ IN 511 □ MJ 505 □ NSC-17777 □ PHENYRAMIDOL HYDROCHLORIDE □ α-((2-PYRIDINYLAMINO)METHYL)-BENZENEMETHANOL MONOHYDROCHLORIDE □ α-((2-PYRIDYLAMINO)METHYL)-BENZYL ALCOHOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
orl-mus LD50:2425 mg/kg 29ZVAB -,95,69
ipr-mus LD50:450 mg/kg JPETAB 128,65,60
ivn-mus LD50:124 mg/kg JPETAB 128,65,60

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

PGG500 CAS: 1457-46-1 HR: 3

3-PHENYLRHODANINE
mf: $C_9H_7NOS_2$ mw: 209.29
SYN: 3-PHENYL-RHODANIN (GERMAN)
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:300 mg/kg ARZNAD 19,558,69
orl-mus LD50:1233 mg/kg FATOAO 24,33,61
ipr-mus LD50:120 mg/kg AIPTAK 126,303,60
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by an intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

PGG750 CAS: 118-55-8 HR: 2
PHENYL SALICYLATE
mf: $C_{13}H_{10}O_3$ mw: 214.23
PROP: White, small crystals or plates from MeOH; pleasant odor and taste. D: 1.250 @ 20°/4°, mp: 43°, bp: 172−173° @ 12 mm. Sol in water, ether, benzene; very sol in hot alc.
SYNS: FENYLESTER KYSELINY SALICYLOVE □ SALOL
TOXICITY DATA with REFERENCE:
orl-rat LD50:3 g/kg FCTXAV 14,659,76
orl-rbt LDLo:3000 mg/kg RMSRA6 15,561,1895
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

PGH000 CAS: 304-06-3 HR: 3
3-PHENYLSALICYLIC ACID
mf: $C_{13}H_{10}O_3$ mw: 214.23
PROP: Rhombic crystals from alc or C_6H_6. D: 1.250 @ 20°/4°, mp: 41.4°, bp: 172−173° @ 12 mm. Sol in water, ether, benzene; very sol in hot alc.
SYN: USAF DO-59
TOXICITY DATA with REFERENCE:
ipr-mus LD50:125 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.

PGH250 CAS: 1132-39-4 HR: 3
PHENYL SELENIDE
mf: $C_{12}H_{10}Se$ mw: 233.18
PROP: Liquid or needles on cooling. D: 1.323 @ 25°, mp: 2.5°, bp: 301−302°.
SYNS: BIPHENYL SELENIUM □ DIPHENYL SELENIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:360 mg/kg TXAPA9 20,89,71
CONSENSUS REPORTS: Selenium and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.2 mg(Se)/m^3
ACGIH TLV: TWA 0.2 mg(Se)/m^3
DFG MAK: 0.1 mg(Se)/m^3
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of Se. See also SELENIUM COMPOUNDS.

PGH500 CAS: 39254-48-3 HR: 1
PHENYLSELENONIC ACID
mf: $C_6H_6O_3Se$ mw: 205.08
PROP: Hygroscopic crystals. Mp: 64°.
SYN: BENZENESELENONIC ACID
CONSENSUS REPORTS: Selenium and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.2 mg(Se)/m^3
ACGIH TLV: TWA 0.2 mg(Se)/m^3
DFG MAK: 0.1 mg(Se)/m^3
SAFETY PROFILE: Explodes feebly @ 180°. Silver salt is unstable. When heated to decomposition it emits toxic fumes of Se. See also SELENIUM COMPOUNDS.

PGH600 CAS: 119034-15-0 HR: 3
4-PHENYLSEMICARBAZONE 1-METHYL-1H-PYRROLE-2-CARBOXALDEHYDE
mf: $C_{13}H_{14}N_4O$ mw: 242.31
SYNS: HYDRAZINECARBOXAMIDE, 2-((1-METHYL-1H-PYRROL-2-YL)METHYLENE)-N-PHENYL- (9CI) □ SEMICARBAZIDE, 4-PHENYL-1-((1-METHYL-2-PYRROLYL)METHYLENE)
TOXICITY DATA with REFERENCE:
orl-mus LD50:58 µg/kg YHHPAL 24,822,1989
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

PGH650 CAS: 119034-14-9 HR: 3
4-PHENYLSEMICARBAZONE-1H-PYRROLE-2-CARBOXALDEHYDE
mf: $C_{12}H_{12}N_4O$ mw: 228.28
SYNS: HYDRAZINECARBOXAMIDE, N-PHENYL-2-(1H-PYRROL-2-YLMETHYLENE)- (9CI) □ SEMICARBAZIDE, 4-PHENYL-1-(2-PYRROLYLMETHYLENE)-
TOXICITY DATA with REFERENCE:
orl-mus LD50:185 µg/kg YHHPAL 24,822,1989
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

PGH750 CAS: 2097-19-0 HR: 3
PHENYLSILATRANE
mf: $C_{12}H_{17}NO_3Si$ mw: 251.39
PROP: Prisms or needles from Me_2CO; crystals from $CHCl_3$. Mp: 208−209°.
SYNS: FENYLSILATRAN (CZECH) □ PHENYL-2,8,9-TRIOXA-5-AZA-1-SILABICYCLO(3.3.3) UNDECANE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1480 µg/kg 85JCAE -,1237,86
orl-mus LD50:1400 µg/kg PHARAT 26,224,70
ipr-mus LD50:330 µg/kg RCRVAB 38(12),975,69
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

PGI000 CAS: 5274-48-6 HR: 3
PHENYLSILVER

mf: C_6H_5Ag mw: 184.98
PROP: Colorless solid; not very sensitive to O_2 and H_2O; sltly sensitive to light. Insol in aliphatic hydrocarbons; spar sol in C_6H_6, $CHCl_3$ and Py. IDLH 10 mg/m^3 (as Ag).
CONSENSUS REPORTS: Silver and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Dry solid can explode at room temperature. It is also sensitive to light friction or stirring. When heated to decomposition it emits acrid smoke and irritating fumes. See also SILVER COMPOUNDS.

PGI100 CAS: 1623-99-0 HR: 3
PHENYL SODIUM
mf: C_6H_5Na mw: 100.10
PROP: Thermally unstable, amorphous solid.
SAFETY PROFILE: Can ignite and burn violently in moist air. When heated to decomposition it emits toxic fumes of Na_2O. See also SODIUM COMPOUNDS and ORGANOMETALS.

PGI500 CAS: 139-66-2 HR: 2
PHENYL SULFIDE
mf: $C_{12}H_{10}S$ mw: 186.28
PROP: Crystals or colorless liquid; almost no odor. D: 1.118 @ 15°/15°, mp: approx −40°, bp: 162−163° @ 18 mm. Insol in water; sol in common org solvs; misc with benzene, ether, and carbon disulfide.
SYNS: DIPHENYL SULFIDE □ DIPHENYL THIOETHER □ 1,1'-THIOBIS(BENZENE)
TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H open SEV AIHAAP 23,95,62
orl-rat LD50:490 mg/kg AIHAAP 23,95,62
skn-rbt LD50:11,300 mg/kg AIHAAP 23,95,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. A severe skin irritant. Reacts violently with diazonium salts liberating SO_x. When heated to decomposition it emits highly toxic fumes of SO_x.

PGI750 CAS: 127-63-9 HR: 3
PHENYL SULFONE
mf: $C_{12}H_{10}O_2S$ mw: 218.28
PROP: A solid. Mp: 128−129°, bp: 232° @ 18 mm. Spar sol in hot H_2O.
SYNS: DIFENYLSULFON (CZECH) □ DIPHENYL SULFONE □ DIPHENYL SULPHONE □ DPS □ SULFOBENZIDE □ 1,1'-SULFONYLBISBENZENE
TOXICITY DATA with REFERENCE:
unr-rat LD50:>2 g/kg RREVAH 36,240,71
ivn-mus LD50:320 mg/kg CSLNX* NX#01761
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Low toxicity by ingestion. When heated to decomposition it emits toxic fumes of SO_x.

PGJ000 CAS: 3368-13-6 HR: D
2-(PHENYLSULFONYLAMINO)-1,3,4-THIADIAZOLE-5-SULFONAMIDE
mf: $C_8H_8N_2O_4S_3$ mw: 292.36
PROP: A solid. Mp: 238−241° (decomp).
SYNS: BENZOLAMIDE □ CL 11366 □ W 1803
SAFETY PROFILE: Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

PGJ500 CAS: 3999-10-8 HR: 3
5-PHENYLTETRAZOLE
mf: $C_7H_6N_4$ mw: 146.15

SAFETY PROFILE: Explodes on distillation. When heated to decomposition it emits toxic fumes of NO_x.

PGJ750 CAS: 86-93-1 HR: 3
1-PHENYLTETRAZOLE-5-THIOL
mf: $C_7H_6N_4S$ mw: 178.23
PROP: Faint-yellow crystals from EtOH. Mp: 151−153°. Sol in $CHCl_3$, AcOH, and EtOH.
SYNS: 5-MERCAPTO-1-PHENYLTETRAZOLE □ 1-PHENYL-5-MERCAPTOTETRAZOLE □ 1-PHENYL-5-MERCAPTO-1,2,3,4-TETRAZOLE
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. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS.

PGK000 HR: 3
3-PHENYL-1-TETRAZOLYL-1-TETRAZENE
mf: $C_7H_3N_8$ mw: 199.16
SAFETY PROFILE: Explodes on warming. When heated to decomposition it emits toxic fumes of NO_x.

PGK100 HR: 3
PHENYLTHALLIUM DIAZIDE
mf: $C_6H_5N_6Tl$ mw: 365.53
PROP: IDLH 15 mg/m^3 (as Tl).
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Thallium compounds are poisons. Decomposes violently at 200°C. When heated to decomposition it emits toxic fumes of NO_x. See also THALLIUM COMPOUNDS and AZIDES.

PGL000 CAS: 13354-35-3 HR: 2
1-(PHENYLTHIO)ANTHRAQUINONE
mf: $C_{20}H_{12}O_2S$ mw: 316.38
SYNS: 9,10-ANTHRACENEDIONE, 1-(PHENYLTHIO)-(9CI) □ ANTHRAQUINONE, 1-THIOPHENYL □ 1-(PHENYLTHIO)-9,10-ANTHRACENEDIONE □ 1-THIOPHENYLANTHRAQUINONE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:500 mg/kg NTIS** AD691-490
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x.

PGL250 CAS: 636-04-4 HR: 3
N-PHENYLTHIOBENZAMIDE
mf: $C_{13}H_{11}NS$ mw: 213.31
SYNS: THIOBENZANILIDE □ USAF EK-2010
TOXICITY DATA with REFERENCE:
ipr-mus LD50:100 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

PGL270 CAS: 1527-12-4 HR: 2
2-(PHENYLTHIO)BENZOIC ACID
mf: $C_{13}H_{10}O_2S$ mw: 230.29
SYNS: BENZOIC ACID, o-(PHENYLTHIO)- □ BENZOIC ACID, 2-(PHENYLTHIO)-(9CI)
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:1000 mg/kg JMCMAR 19,798,76
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.

PGL500 CAS: 69782-05-4 HR: 3
(4-PHENYLTHIOBUTYL)HYDRAZINE MALEATE
mf: $C_{10}H_{16}N_2S{\bullet}C_4H_4O_4$ mw: 312.42
TOXICITY DATA with REFERENCE:
orl-mus LD50:200 mg/kg JMCMAR 6,63,63
ipr-mus LD50:250 mg/kg JMCMAR 6,63,63
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

PGM250 CAS: 69782-00-9 HR: 3
((1-PHENYLTHIOMETHYL)ETHYL)HYDRAZINE MALEATE
mf: $C_9H_{14}N_2S{\bullet}C_4H_4O_4$ mw: 298.39
TOXICITY DATA with REFERENCE:
orl-mus LD50:750 mg/kg JMCMAR 6,63,63
ipr-mus LD50:375 mg/kg JMCMAR 6,63,63
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.

PGM500 HR: 3
PHENYLTHIOPHOSPHONIC DIAZIDE
mf: $C_6H_5N_6PS$ mw: 224.19
$C_6H_5P(:S)(N_3)_2$
SAFETY PROFILE: Explodes at 80°C/0.13 mbar. Violently explodes during distillation of crude material. When heated to decomposition it emits very toxic fumes of SO_x, NO_x and PO_x. See also AZIDES.

PGM750 CAS: 645-48-7 HR: 3
1-PHENYLTHIOSEMICARBAZIDE
mf: $C_7H_9N_3S$ mw: 167.25
PROP: Prisms or crystals from alc. Mp: 200−201° (decomp). Sltly sol in water, ether; sol in hot alc.
SYNS: HYDRAZINECARBOTHIOAMIDE, 2-PHENYL-(9CI) □ 2-PHENYLHYDRAZINECARBOTHIOAMIDE
TOXICITY DATA with REFERENCE:
dnd-hmn:hla 20 μmol/L BCPCA6 25,821,76
orl-rat LDLo:50 mg/kg JPETAB 93,287,48
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion route. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

PGN000 CAS: 5351-69-9 HR: 3
4-PHENYL-3-THIOSEMICARBAZIDE
mf: $C_7H_9N_3S$ mw: 167.25
PROP: Plates from EtOH. Mp: 138−140°. Sol in EtOH.
SYNS: HYDRAZINECARBOTHIOAMIDE, N-PHENYL-(9CI) □ 4-PHENYLTHIOSEMICARBAZIDE □ USAF EK-5426 □ USAF EL-45
TOXICITY DATA with REFERENCE:
orl-rat LDLo:50 mg/kg NCNSA6 5,44,53
orl-mus LD50:30 mg/kg GTPZAB 28(6),55,84
ipr-mus LDLo:15 mg/kg NTIS** AD277-689
par-rat LD50:750 mg/kg ARZNAD 12,260,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by parenteral route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

PGN030 CAS: 31397-22-5 HR: 3
4-PHENYLTHIOSEMICARBAZONE 1-METHYL-1H-PYRROLE-2-CARBOXALDEHYDE
mf: $C_{13}H_{14}N_4S$ mw: 258.37
SYNS: HYDRAZINECARBOTHIOAMIDE, 2-((1-METHYL-1H-PYRROL-2-YL)METHYLENE)-N-PHENYL- (9CI) □ SEMICARBAZIDE, 1-((1-METHYL-2-PYRROLYL)METHYLENE)-4-PHENYL-3-THIO-
TOXICITY DATA with REFERENCE:
orl-mus LD50:3201 μg/kg YHHPAL 24,822,1989
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PGN045 CAS: 16431-49-5 HR: 3
4-PHENYLTHIOSEMICARBAZONE-1H-PYRROLE-2-CARBOXALDEHYDE
mf: $C_{12}H_{12}N_4S$ mw: 244.34
SYNS: HYDRAZINECARBOTHIOAMIDE, N-PHENYL-2-(1H-PYRROL-2-YLMETHYLENE)- (9CI) □ SEMICARBAZIDE, 4-PHENYL-1-(2-PYRROLYLMETHYLENE)-3-THIO-
TOXICITY DATA with REFERENCE:
orl-mus LD50:450 μg/kg YHHPAL 24,822,1989
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PGN100 CAS: 13738-70-0 HR: 3
α-(PHENYLTHIO)-p-TOLUIDINE
DOT: UN 1600
mf: $C_{13}H_{13}NS$ mw: 215.33
SYNS: DINITROTOLUENES, molten (DOT) □ p-TOLUIDINE, α-(PHENYLTHIO)-

TOXICITY DATA with REFERENCE:
ivn-mus LD50:320 mg/kg CSLNX* NX#03539
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: A poison by ingestion and intravenous routes. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PGN250 CAS: 103-85-5 HR: 3
1-PHENYL-2-THIOUREA
mf: $C_7H_8N_2S$ mw: 152.23
PROP: Needle-like crystals from water; bitter taste. Mp: 154°, d: 1.3. Sol in water, alc, aq ether.
SYNS: NCI-C02017 □ PHENYLTHIOCARBAMIDE □ N-PHENYLTHIOUREA □ α-PHENYLTHIOUREA □ 1-PHENYL-THIOUREA □ PTC □ PTU □ RCRA WASTE NUMBER P093 □ U 6324 □ USAF EK-1569
TOXICITY DATA with REFERENCE:
orl-rat LD50:3 mg/kg JMPCAS 4,109,61
ipr-rat LD50:5 mg/kg JPETAB 89,186,47
orl-mus LD50:10 mg/kg NCILB* NIH-NCI-E-C-72-3252
ipr-mus LD50:25 mg/kg NTIS** AD277-689
orl-rbt LD50:40 mg/kg JMPCAS 4,109,61
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-148,78. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Experimental teratogenic effects. When heated to decomposition or on contact with acid or acid fumes it emits highly toxic fumes of SO_x and NO_x. Used in medical genetics and production of rodenticide.

PGN400 CAS: 60510-57-8 HR: D
5-PHENYL-3-(o-TOLYL)-s-TRIAZOLE
mf: $C_{15}H_{13}N_3$ mw: 235.31
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PGN825 HR: D
2-PHENYL-5H-1,2,4-TRIAZOLO(5,1-a)-ISOINDOLE
mf: $C_{15}H_{11}N_3$ mw: 233.29
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PGN840 CAS: 35257-18-2 HR: D
2-PHENYL-s-TRIAZOLO(5,1-a)ISOQUINOLINE
mf: $C_{16}H_{11}N_3$ mw: 245.30
SYNS: L 11373 □ 2-PHENYL-(1,2,4)TRIAZOLO(5,1-a)ISOQUINOLINE (9CI)
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PGO000 CAS: 780-69-8 HR: 2
PHENYLTRIETHOXYSILANE
mf: $C_{12}H_{20}O_3Si$ mw: 240.41
PROP: A liquid. D: 1.00 @ 20°/4°, bp: 232−233°.
SYNS: SILANE, TRIETHOXYPHENYL- □ TRIETHOXYFENYLSILAN □ TRIETHOXYPHENYLSILANE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 85JCAE -,1236,86
eye-rbt 500 mg/24H MLD 85JCAE -,1236,86
orl-rat LD50:2830 mg/kg TXAPA9 28,313,74
skn-rbt LD50:3180 mg/kg TXAPA9 28,313,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

PGO500 CAS: 368-47-8 HR: 3
PHENYLTRIFLUOROSILANE
mf: $C_6H_5F_3Si$ mw: 162.20
PROP: D: 1.201 @ 26.5°/4°, bp: 101−102°.
SYNS: FENYL-TRIFLUORSILAN □ SILANE, PHENYLTRIFLUORO-
TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H open SEV AIHAAP 23,95,62
skn-rbt 20 mg/24H MOD 85JCAE -,1228,86
eye-rbt 50 µg/24H SEV 85JCAE -,1228,86
orl-rat LD50:310 mg/kg AIHAAP 23,95,62
ihl-rat LCLo:1000 ppm/4H AIHAAP 23,95,62
skn-rbt LD50:640 mg/kg AIHAAP 23,95,62
SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. A severe skin and eye irritant. When heated to decomposition it emits toxic fumes of Si and F^-.

PGO750 CAS: 2996-92-1 HR: 3
PHENYLTRIMETHOXYSILANE
mf: $C_9H_{14}O_3Si$ mw: 198.32
PROP: A liquid. D: 1.062 @ 25°/4°, bp: 110° @ 20 mm.
TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#04066
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes.

PGP250 CAS: 64-10-8 HR: 2
1-PHENYLUREA
mf: $C_7H_8N_2O$ mw: 136.17
PROP: Monoclinic prisms, needles or plates from water or tablets from alc. D: 1.302, mp: 147° (decomp), bp: 238°. Sol in hot water, alc; sltly sol in ether.
SYNS: MONOPHENYLUREA □ PC □ PHENYLCARBAMIDE □ PHENYLUREA □ N-PHENYLUREA □ STABILISATOR VH □ STABILIZER VH □ VH
TOXICITY DATA with REFERENCE:
orl-rat LD50:2000 mg/kg IIFBA4 12,195,69
orl-mus LD50:1580 mg/kg IIFBA4 12,195,69
ipr-mus LD50:1060 mg/kg IIFBA4 12,195,69
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 NO_x.

PGP500 CAS: 132-45-6 HR: 3
2-PHENYLVALERIC ACID-2-(DIETHYLAMINO)-ETHYL ESTER HYDROCHLORIDE
mf: $C_{17}H_{27}NO_2$•ClH mw: 313.91
SYNS: 2-DIETHYLAMINOETHYL-α-PHENYLVALERATE HYDROCHLORIDE □ 2-DIETHYLAMINOETHYL-α-PROPYLTOLUATE HYDROCHLORIDE □ α-PHENYL-VALERATE du DIETHYLAMINO-ETHANOL CHLORHYDRATE (FRENCH) □ PROPIVANE □ PROSPASMIN □ PROSPASMINE □ PROSPASMINE HYDROCHLORIDE □ TROPISTON
TOXICITY DATA with REFERENCE:
orl-mus LD50:600 mg/kg AIPTAK 59,149,38
ipr-mus LD50:220 mg/kg JPETAB 74,274,42
ivn-mus LD50:50 mg/kg AIPTAK 59,149,38
idr-mus LD50:1500 mg/kg AIPTAK 59,149,38
orl-rbt LD50:1500 mg/kg AIPTAK 59,149,38
ivn-rbt LD50:20 mg/kg AIPTAK 59,149,38
idr-rbt LD50:1300 mg/kg AIPTAK 59,149,38
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and intradermal routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also ESTERS.

PGP600 CAS: 28597-01-5 HR: 3
PHENYLVANADIUM(V) DICHLORIDE OXIDE
mf: $C_6H_5Cl_2OV$ mw: 214.95
PROP: Deep-red crystals from pentane.
SAFETY PROFILE: May explode when heated. When heated to decomposition it emits toxic fumes of Cl^- and VO_x. See also VANADIUM COMPOUNDS and CHLORIDES.

PGP750 CAS: 1322-78-7 HR: 3
PHENYL XYLYL KETONE
mf: $C_{15}H_{14}O$ mw: 210.29
SYN: ar,ar-DIMETHYLBENZOPHENONE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 85JCAE -,294,86
eye-rbt 500 mg/24H MLD 85JCAE -,294,86
orl-rat LD50:4920 mg/kg AMIHBC 4,119,51
skn-rbt LD50:20 g/kg AMIHBC 4,119,51
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Mildly toxic by ingestion and skin contact. An eye irritant. Mild skin and eye irritant. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

PGQ000 CAS: 20921-50-0 HR: 2
1-PHENYL-1-(3,4-XYLYL)-2-PROPYNYL N-CYCLOHEXYLCARBAMATE
mf: $C_{24}H_{27}NO_2$ mw: 361.52
SYN: N-CYCLOHEXYLCARBAMIC ACID 1-PHENYL-1-(3,4-XYLYL)-2-PROPYNYL ESTER
TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate PNASA6 72,979,75
dns-hmn:fbr 10 mmol/L/90M IJCNAW 16,284,75
orl-rat TDLo:20,400 mg/kg/45W-C:ETA JJIND8 71,211,83
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS and CARBAMATES.

PGQ100 CAS: 7009-88-3 HR: 2
PHENYRACILLIN
mf: $C_{16}H_{18}N_2O_4S$•1/2$C_{16}H_{18}N_2$ mw: 953.40
SYNS: ALFADRYL □ PENICILLINATE de 2,5-DIPHENYL PIPERAZINE □ PENIRAZINE □ PHENYRACILLINE □ 4-THIA-1-AZABICYCLO(3.2.0)HEPTANE-2-CARBOXYLIC ACID, 3,3-DIMETHYL-7-OXO-6-((PHENYLACETYL) AMINO)-, (2S-(2-α-5-α-6-β))-, COMPD. WITH 2,5-DIPHENYLPIPERAZINE (2:1)
TOXICITY DATA with REFERENCE:
orl-mus LD :>900 mg/kg APFRAD 16,125,58
ipr-mus LD50:450 mg/kg APFRAD 16,125,58
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

PGQ275 CAS: 80611-44-5 HR: 3
PHIC
mf: $C_{12}H_{18}N_2O_7Pt$ mw: 497.41
PROP: IDLH 4 mg/m^3 (as Pt).
SYNS: (Z)-(CYCLOHEXANE-1,2-DIAMMINE)ISOCITRATO-PLATINUM(II) □ cis-ISOCITRATO-(1,2-DIAMINO-CYCLO-HEXAN)-PLATIN(II) (GERMAN) □ PLATINUM(II) (CYCLO-HEXANE-1,2-DIAMMINE)ISOCITRATO-, (Z)-
TOXICITY DATA with REFERENCE:
ipr-rat LD50:143 mg/kg GEXXA8 #158777
ivn-rat LD50:173 mg/kg GEXXA8 #158777
ipr-mus LD50:236 mg/kg GEXXA8 #158777
ivn-mus LD50:421 mg/kg GEXXA8 #158777
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

PGQ285 HR: 2
PHILODENDRON (various species)
PROP: Climbing vines with aerial routes. The heart-shaped leaves may have smooth edges or be deeply notched, and may also be variegated. An extremely popular house plant in the United States. It grows wild and is cultivated outdoors in warm climates.
SYNS: BEJUCO de LOMBRIZ (CUBA) □ PAISAJE (PUERTO RICO)
SAFETY PROFILE: The leaves contain calcium oxalate crystals. Chewing these plant parts results in burning pain in the lips, mouth and throat, possibly followed by inflammation and blistering. Systemic effects are usually not seen because of the insolubility of calcium oxalate. See also OXALATES.

PGQ350 CAS: 101997-27-7 HR: 2
PHLEOCIDIN
PROP: An antibiotic produced by *S. kawachiensis* (85FZAT -,505,67).
TOXICITY DATA with REFERENCE:
dnr-esc 20 µL/disc MUREAV 97,1,82
dnr-bcs 20 µL/disc MUREAV 97,1,82
ivn-mus LD50:800 mg/kg 85FZAT -,505,67

SAFETY PROFILE: Moderately toxic by intravenous route. Mutation data reported.

PGQ500 CAS: 11006-33-0 HR: 3
PHLEOMYCIN
mf: $C_{12}H_{28}N_3O_{12}$ mw: 418.44
SYN: NSC-616586
TOXICITY DATA with REFERENCE:
cyt-mus-scu 2500 µg/kg MUREAV 6,289,68
cyt-mus:ovr 1 mg/L MUREAV 6,289,68
dnd-esc 500 µg/L/30M MUREAV 42,181,77
dnr-bcs 1 µg/disc AEMIDF 43,177,82
sln-dmg-orl 50 mg/L ENMUDM 5,633,83
cyt-hmn:leu 100 µg/L/24H MUREAV 7,251,69
orl-rat LD50:649 mg/kg TXAPA9 14,590,69
ivn-rat LD50:4 mg/kg TXAPA9 14,590,69
orl-mus LD50:371 mg/kg TXAPA9 14,590,69
ivn-mus LD50:21 mg/kg TXAPA9 14,590,69
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion and intravenous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PGQ750 CAS: 11006-33-0 HR: 3
PHLEOMYCIN COMPLEX
mf: $C_{13}H_{28}N_3O_{12}$ mw: 418.44
SYNS: NSC-616586 □ PHLEOMYCIN COMPLEX
TOXICITY DATA with REFERENCE:
dnr-esc 200 ng/disc MUREAV 97,1,82
dnd-esc 500 µg/L/30M MUREAV 42,181,77
orl-rat LD50:649 mg/kg TXAPA9 14,590,69
ivn-rat LD50:4 mg/kg TXAPA9 14,590,69
orl-mus LD50:371 mg/kg TXAPA9 14,590,69
ipr-mus LD50:13 mg/kg JAJAAA 19,260,66
scu-mus LD50:25 mg/kg JAJAAA 19,260,66
ivn-mus LD50:21 mg/kg TXAPA9 14,590,69
ivn-dog LD50:2500 µg/kg TXAPA9 14,590,69
ivn-gpg LDLo:13 mg/kg JAJAAA 19,260,66
SAFETY PROFILE: Poison by ingestion, intravenous, and subcutaneous routes. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. Used as an antibiotic.

PGQ800 CAS: 60-81-1 HR: 2
PHLORIZOSIDE
mf: $C_{21}H_{24}O_{10}$ mw: 436.45
SYNS: PHLORHIZIN □ PHLORIDZIN □ PHLORIDZINE □ PHLORIZIN □ PHLORIZINE □ PHLORRHIZIN □ 1-PROPANONE, 1-(2-(β-d-GLUCOPYRANOSYLOXY)-4,6-DIHYDROXYPHENYL)-3-(4-HYDROXYPHENYL)-
TOXICITY DATA with REFERENCE:
ipr-rat TDLo:600 mg/kg (female 8D post):REP 85DJA5 -,95,71
ipr-mus LD :>500 mg/kg CBCCT* 6,226,54
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

PGR000 CAS: 108-73-6 HR: 2
PHLOROGLUCINOL
mf: $C_6H_6O_3$ mw: 126.12
PROP: White crystals, leaflets, or plates from water; sweet taste. Mp: 218°, (anhyd) (rapid heat) subl with decomp. Sol in ether; sltly water sol.
SYNS: BENZENE-s-TRIOL □ BENZENE-1,3,5-TRIOL □ 1,3,5-BENZENETRIOL □ 3,5-DIHYDROXYPHENOL □ DILOSPAN S □ 5-OXYRESORCINOL □ PHLOROGLUCIN □ s-TRIHYDROXYBENZENE □ sym-TRIHYDROXYBENZENE □ 1,3,5-TRIHYDROXYBENZENE □ 1,3,5-TRIHYDROXYCYCLOHEXATRIENE
TOXICITY DATA with REFERENCE:
mrc-smc 3 g/L MUREAV 135,109,84
cyt-ham:ovr 3 g/L CALEDQ 14,251,81
orl-rat LD50:5200 mg/kg NIIRDN 6,740,82
ipr-rat LD50:3180 mg/kg NIIRDN 6,740,82
scu-rat LD50:4850 mg/kg NIIRDN 6,740,82
orl-mus LD50:4550 mg/kg OYYAA2 3,187,69
ipr-mus LD50:4050 mg/kg OYYAA2 3,187,69
scu-gpg LDLo:1000 mg/kg RMSRA6 15,561,1895
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by subcutaneous and intraperitoneal routes. Mildly toxic by ingestion. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. Used in diazo-type printing and textile dyeing, in microscopy as a bone specimen decalcifier.

PGR250 CAS: 90-00-6 HR: 3
PHLOROL
mf: $C_8H_{10}O$ mw: 122.18
PROP: Colorless liquid; phenol odor. Mp: −28°, d: 1.037 @ 12°, bp: 204.52°, turns solid <18°. Insol in water; misc in alc, benzene, glacial acetic acid, ether.
SYNS: o-ETHYLPHENOL □ 2-ETHYLPHENOL □ FLOROL □ PHENOL, o-ETHYL-
TOXICITY DATA with REFERENCE:
skn-mus TDLo:3100 mg/kg/12W-I:NEO CNREA8 19,413,59
orl-mus LD50:600 mg/kg PHARAT 30,147,75
ipr-mus LD50:172 mg/kg JMCMAR 18,868,75
DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Human toxic action similar to, but less severe than, that of phenol. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also PHENOL.

PGR775 CAS: 64925-80-0 HR: 3
PHOMOPSIN
PROP: Crystals from MeOH/EtOH/H_2O.
TOXICITY DATA with REFERENCE:
dni-hmn:mmr 1 µmol/L JTEHD6 16,13,85
ipr-rat TDLo:400 µg/kg (6D preg):TER AJEBAK 61,105,83
unr-rat LD50:5 mg/kg AJEBAK 61,105,83

SAFETY PROFILE: Poison by an unreported route. An experimental teratogen. Experimental reproductive effects. Human mutation data reported.

PGS000 CAS: 298-02-2 HR: 3
PHORATE
mf: $C_7H_{17}O_2PS_3$ mw: 260.39
PROP: Mobile liquid. Bp: 118−120° @ 0.8 mm, d: 1.156, @ 25°/4°. Insol in water; misc with carbon tetrachloride, dioxane, xylene.
SYNS: O,O-DIAETHYL-S-(AETHYLTHIO-METHYL)-DITHIO-PHOSPHAT (GERMAN) □ O,O-DIETHYL-S-ETHYLMERCAPTO-METHYL DITHIOPHOSPHONATE □ O,O-DIETHYL-S-ETHYL-THIOMETHYL DITHIOPHOSPHONATE □ O,O-DIETHYL-ETHYLTHIOMETHYL PHOSPHORODITHIOATE □ O,O-DIETHYL-S-ETHYLTHIOMETHYL THIOTHIONOPHOSPH-ATE □ O,O-DIETIL-S-(ETILTIO-METIL)-DITIOFOSFATO (ITALIAN) □ DITHIOPHOSPHATE de O,O-DIETHYLE et d'ETHYLTHIO-METHYLE (FRENCH) □ ENT 24,042 □ FORAAT (DUTCH) □ GRANUTOX □ PHORAT (GERMAN) □ PHORATE-10G □ RAMPART □ RCRA WASTE NUMBER P094 □ THIMET □ TIMET □ VEGFRU □ VERGFRU FORATOX
TOXICITY DATA with REFERENCE:
mnt-mus-ipr 750 µg/kg MUREAV 155,131,85
orl-rat LD50:1 mg/kg DOEAAH 35,25,79
ihl-rat LC50:11 mg/m^3/1H NTIS** PB277-077
skn-rat LD50:2500 µg/kg TXAPA9 2,88,60
orl-mus LD50:6590 µg/kg JPFCD2 B15,867,80
skn-rbt LD50:99 mg/kg FMCHA2 -,C226,89
skn-gpg LD50:20 mg/kg PCOC** -,895,66
orl-qal LD50:7 mg/kg EESADV 8,551,84
skn-dck LD50:203 mg/kg TXAPA9 47,451,79
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. EPA Genetic Toxicology Program.
OSHA PEL: TWA 0.05 mg/m^3 (skin)
ACGIH TLV: TWA 0.05 mg/m^3 (skin)
SAFETY PROFILE: Poison by ingestion and skin contact routes. Experimental reproductive effects. Mutation data reported. A cholinesterase inhibitor. When heated to decomposition it emits toxic fumes of PO_x and SO_x. See also PARATHION.

PGS250 CAS: 17673-25-5 HR: 2
PHORBOL
mf: $C_{20}H_{27}O_6$ mw: 363.47
PROP: Anhydrous crystals from MeOH. Two forms: mp: 162−163° and 233−234°, decomp @ 250−251° (solvent free).
TOXICITY DATA with REFERENCE:
skn-mus 36 mg MLD PLMEAA 22,241,72
ipr-mus TDLo:400 mg/kg/25W:CAR CNREA8 30,2744,70
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Experimental reproductive effects. A skin irritant. Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries.

PGS500 CAS: 20839-16-1 HR: 2
PHORBOL ACETATE, LAURATE
mf: $C_{34}H_{52}O_8$ mw: 588.86
SYNS: 5H-CYCLOPROPA(3,4)BENZ(1,2-e)AZULEN-5-ONE, 1,1a,1b,4,4a,7a,7b,8,9,9a-DECAHYDRO-4a,7-β, 9,9a-TETRA-HYDROXY-3-(HYDROXYMETHYL)-1,1,6,8-TETRAMETHYL-, 9-ACETATE 9a-LAURATE □ PHORBOL MONOACETATE MONOLAURATE
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

PGS750 CAS: 24928-15-2 HR: 2
PHORBOL-12,13-DIACETATE
mf: $C_{24}H_{32}O_8$ mw: 448.56
TOXICITY DATA with REFERENCE:
dnd-esc 200 µg/tube CNREA8 33,3103,73
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries.

PGT000 CAS: 25405-85-0 HR: 2
PHORBOL-12,13-DIBENZOATE
mf: $C_{34}H_{36}O_8$ mw: 572.70
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries.

PGT100 CAS: 37558-16-0 HR: D
PHORBOL-12,13-DIBUTYRATE
mf: $C_{28}H_{40}O_8$ mw: 504.68
SYN: BUTANOIC ACID, 1,1A,1B,4,4A,5,7A,7B,8,9-DECAHYDRO-4A,7B-DIHYDROXY-3-(HYDROXYMETHYL)-1,1,6 ,8-TETRA-METHYL-5-OXO-9AH-CYCLOPROPA(3,4)BENZ(1,2-E)AZULENE-9,9A-DIYL ESTER, (1ar-(1A-α,1B-β,4A-β,7A-α,7B-α,8-α,9-β,9A-α))-
TOXICITY DATA with REFERENCE:
dnd-mus-oth 100 nmol/L CNREA8 45,4864,1985
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

PGT250 CAS: 24928-17-4 HR: 2
PHORBOL-12,13-DIDECANOATE
mf: $C_{40}H_{55}O_8$ mw: 663.95
SYN: PDD
TOXICITY DATA with REFERENCE:
skn-mus 7 ng MLD CCSUDL 2,11,78
dnd-esc 200 µg/tube CNREA8 33,3103,73
cyt-smc 1 mg/L NATUAS 294,263,81
dns-rat:lvr 1 µg/L CNREA8 40,4541,80
otr-ham:emb 100 µg/L CALEDQ 17,1,82
SAFETY PROFILE: A skin irritant. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries.

PGT500 HR: 2
PHORBOL-12,13-DIHEXA(Δ-2,4)-DIENOATE
mf: $C_{32}H_{57}O_8$ mw: 569.89
TOXICITY DATA with REFERENCE:

skn-mus 6 µg 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. See also other phorbol entries.

PGT750 CAS: 37558-17-1 HR: 2
PHORBOL-12,13-DIHEXANOATE
mf: $C_{32}H_{45}O_8$ mw: 557.77
TOXICITY DATA with REFERENCE:
skn-mus 18 µg 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. See also other phorbol entries.

PGT800 CAS: 37558-19-3 HR: D
PHORBOL 12,13-DIMYRISTATE
mf: $C_{48}H_{80}O_8$ mw: 785.28
SYNS: PHORBOL 12,13-DITETRADECANOATE □ TETRADECANOIC ACID, 1,1A,1B,4,4A,5,7A,7B,8,9-DECAHYDRO-4A,7B-DIHYDROXY-3-(HYDROXYMETHYL)-1,1, 6,8-TETRAMETHYL-5-OXO-9AH-CYCLOPROPA(3,4)BENZ(1,2-E)AZULENE-9,9A-DIYL ESTER, (1ar-(1A-α, 1B-β,4A-β,7A-α,7B-β,8-α,9-β,9A-α))-
TOXICITY DATA with REFERENCE:
dns-skn-mus 1884 µg/kg JNCIAM 55,983,1975
uns-skn-mus 1884 µg/kg JNCIAM 55,983,1975
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

PGU000 CAS: 63040-44-8 HR: 2
PHORBOL LAURATE, (+)-S-2-METHYL-BUTYRATE
mf: $C_{37}H_{58}O_8$ mw: 630.95
SYN: PHORBOL MONOLAURATE MONO(S)-(+)-2-METHYLBUTYRATE
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries.

PGU250 CAS: 16675-05-1 HR: 2
PHORBOL MONOACETATE MONOLAURATE
mf: $C_{34}H_{52}O_8$ mw: 588.86
SYN: PHORBOL ACETATE LAURATE
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries.

PGU500 CAS: 63040-43-7 HR: 2
PHORBOL MONODECANOATE (S)-(+)-MONO(2-METHYLBUTYRATE)
mf: $C_{35}H_{54}O_8$ mw: 602.89
SYN: PHORBOL CAPRATE, (+)-(S)-2-METHYLBUTYRATE
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries.

PGU750 CAS: 59086-92-9 HR: 2
(E)-PHORBOL MONODECANOATE MONO(2-METHYLCROTONATE)
mf: $C_{35}H_{52}O_8$ mw: 600.87
SYN: PHORBOL CAPRATE, TIGLATE
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries.

PGV000 CAS: 16561-29-8 HR: 3
PHORBOL MYRISTATE ACETATE
mf: $C_{36}H_{56}O_8$ mw: 616.92
PROP: Oil.
SYNS: PENTAHYDROXY-TIGLIADIENONE-MONO-ACETATE(C)MONOMYRISTATE(B) □ PHORBOL ACETATE, MYRISTATE □ PHORBOL MONOACETATE MONOMYRISTATE □ PMA □ 12-TETRADECANOYLPHORBOL-13-ACETATE □ 12-o-TETRADEKANOYLPHORBOL-13-ACETAT (GERMAN) □ TPA
TOXICITY DATA with REFERENCE:
skn-mus 7 ng OPEN ARTODN 44,279,80
mmo-esc 1 mg/L JPPMAB 31,69P,79
dnd-hmn:fbr 1300 nmol/L CRNGDP 6,1667,85
dns-hmn:oth 10 µg/L CNREA8 44,4078,84
skn-mus TDLo:30,204 µg/kg/72W-I:CAR ACPADQ 91,103,83
ivn-mus LD50:309 µg/kg AGACBH 16,535,85
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Deadly poison by intravenous route. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. A skin irritant. Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

PGV250 HR: 2
PHORBOL-9-MYRISTATE-9a-ACETATE-3-ALDEHYDE
mf: $C_{36}H_{54}O_7$ mw: 598.90
SYN: PAMA
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries and ALDEHYDES.

PGV500 CAS: 56937-68-9 HR: 1
PHORBOLOL MYRISTATE ACETATE
mf: $C_{36}H_{58}O_8$ mw: 618.94
SYNS: PHORBOLOL ACETATE MYRISTATE □ TPA-3-β-OL
TOXICITY DATA with REFERENCE:
skn-mus 29 ng MLD CCSUDL 2,11,78
SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries.

PGV750 CAS: 37415-55-7 HR: 2
PHORBOL-12-o-TIGLYL-13-BUTYRATE
mf: $C_{28}H_{40}O_8$ mw: 504.68
SYN: 12-o-TIGLYL-PHORBOL-13-BUTYRATE

TOXICITY DATA with REFERENCE:
skn-mus 520 ng MLD 85CVA2 5,213,70
SAFETY PROFILE: A skin irritant. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries.

PGW000 CAS: 37394-32-4 HR: 2
PHORBOL-12-o-TIGLYL-13-DODECANOATE
mf: $C_{37}H_{56}O_8$ mw: 628.93
SYN: 12-o-TIGLYL-PHORBOL-13-DODECANOATE
TOXICITY DATA with REFERENCE:
skn-mus 1 ng MLD 85CVA2 5,213,70
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also other phorbol entries.

PGW250 CAS: 504-20-1 HR: 2
PHORONE
mf: $C_9H_{14}O$ mw: 138.23
PROP: Yellowish-green prisms, solid, or greenish liquid. Mp: 28°, flash p: 185°F (OC), d: 0.879, vap press: 1 mm @ 42.0°, vap d: 4.8, bp: 198−199°. Sol in water, alc, and ether.
SYNS: DIISOPROPYLIDENE ACETONE ◻ sym-DIISOPROPYLIDENE ACETONE ◻ 2,6-DIMETHYL-2,5-HEPTADIEN-4-ONE ◻ PHORON (GERMAN)
TOXICITY DATA with REFERENCE:
scu-rbt LDLo:700 mg/kg AEXPBL 56,346,1906
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by subcutaneous route. Combustible 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. See also ISOPHORON.

PGW500 HR: 3
PHOSAN-PLUS
PROP: A mixture of methoxychlor, dimethoate, and malathion (MUREAV 46,204,77).
TOXICITY DATA with REFERENCE:
cyt-mus-ipr 30 mg/kg MUREAV 46,204,77
SAFETY PROFILE: A poison. Mutation data reported. A cholinesterase inhibitor. Some of the components are carcinogens. When heated to decomposition it emits toxic fumes of Cl^-. See also O,O-DIMETHYL METHYL-CARBAMOYLMETHYL PHOSPHORODITHIOATE (dimethoate), and MALATHION.

PGW600 CAS: 2398-95-0 HR: 3
PHOSCOLIC ACID
mf: $C_6H_{11}O_8P$ mw: 242.12
PROP: A solid. Mp: 148−149°. Sol in water.
SYNS: FOSCOLIC ACID ◻ 2,2'-PHOSPHINICOBIS(2-HYDROXYPROPANOIC) ACID (9CI) ◻ 2,2'-PHOSPHINICODILACTIC ACID
TOXICITY DATA with REFERENCE:
orl-mus LD50:3900 mg/kg JPETAB 145,386,64
ipr-mus LD50:260 mg/kg JPETAB 145,386,64
ivn-mus LD50:152 mg/kg JPETAB 145,386,64
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of PO_x.

PGW750 CAS: 947-02-4 HR: 3
PHOSFOLAN
mf: $C_7H_{14}NO_3PS_2$ mw: 255.31
PROP: Colorless to yellow solid. Mp: 39.5°, bp: 100−105° @ 0.001 mm. Sol in H_2O, Me_2CO, C_6H_6, EtOH.
SYNS: AC 47031 ◻ AMERICAN CYANAMID 47031 ◻ C.I. 47031 ◻ CYCLIC ETHYLENE(DIETHOXYPHOSPHINOTHIOYL)-DITHIOIMIDOCARBONATE ◻ CYCLIC ETHYLENE P,P-DIETHYL PHOSPHONODITHIOIMIDOCARBONATE ◻ CYLAN ◻ CYOLANE ◻ CYOLANE INSECTICIDE ◻ (DIETHOXYPHOSPHINYL)DITHIOIMIDOCARBONIC ACID CYCLIC ETHYLENE ESTER ◻ 2-(DIETHOXYPHOSPHINYLIMINO)-1,3-DITHIOLANE ◻ P,P-DIETHYL CYCLIC ETHYLENE ESTER OF PHOSPHONODITHIOIMIDOCARBONIC ACID ◻ EI 47031 ◻ ENT 25,830 ◻ 1,2-ETHANEDITHIOL, CYCLIC ESTER with P,P-DIETHYL PHOSPHONODITHIOIMIDOCARBONATE ◻ 1,2-ETHANEDITHIOL, CYCLIC S,S-ESTER with PHOSPHONODITHIOIMIDOCARBONIC ACID P,P-DIETHYL ESTER
TOXICITY DATA with REFERENCE:
orl-rat LD50:8900 µg/kg PEMNDP 9,676,91
orl-mus LD50:12 mg/kg 28ZEAL 4,127,69
skn-rbt LD50:23 mg/kg GUCHAZ 6,200,73
skn-gpg LD50:54 mg/kg 31ZOAD 1,157,68
orl-pgn LD50:2370 µg/kg ASTTA8 (680),157,79
orl-qal LD50:23,700 µg/kg ASTTA8 (680),157,79
orl-bwd LD50:2370 µg/kg ASTTA8 (680),157,79
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and skin contact. An insecticide used against leaf-feeding larvae of cotton insect pests. When heated to decomposition it emits very toxic fumes of PO_x, SO_x, and NO_x. See also ESTERS.

PGX000 CAS: 75-44-5 HR: 3
PHOSGENE
DOT: UN 1076
mf: CCl_2O mw: 98.91
PROP: Colorless, poison gas or volatile liquid; odor of new-mown hay or green corn. Mp: −128°, bp: 7.6°, d: 1.419 @ 0°/4°, vap press: 1180 mm @ 20°, vap d: 3.4. Very sltly sol in water; very sol in benzene and acetic acid; decomp sltly in water. IDLH 2 ppm.
SYNS: CARBONE (OXYCHLORURE de) (FRENCH) ◻ CARBONIO (OSSICLORURO di) (ITALIAN) ◻ CARBON OXYCHLORIDE ◻ CARBONYLCHLORID (GERMAN) ◻ CARBONYL CHLORIDE ◻ CHLOROFORMYL CHLORIDE ◻ DIPHOSGENE ◻ FOSGEEN (DUTCH) ◻ FOSGEN (POLISH) ◻ FOSGENE (ITALIAN) ◻ KOOLSTOFOXYCHLORIDE (DUTCH) ◻ NCI-C60219 ◻ PHOSGEN (GERMAN) ◻ RCRA WASTE NUMBER P095
TOXICITY DATA with REFERENCE:
ihl-hmn LC50:3200 mg/m^3 SCJUAD 4,33,67
ihl-hmn TCLo:25 ppm/30M:PUL 29ZWAE -,207,68
ihl-man LCLo:360 mg/m^3/30M 85GMAT -,99,82
ihl-mam LCLo:50 ppm/5M AEPPAE 138,65,28

ihl-cat LCLo:190 mg/m^3/15M 85GMAT -,99,82
ihl-uns LCLo:50 ppm/5M AEPPAE 138,65,28
ihl-uns LCLo:11 mg/m^3/30M TABIA2 3,231,33
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 ppm
ACGIH TLV: TWA 0.1 ppm
DFG MAK: 0.02 ppm (0.082 mg/m^3)
NIOSH REL: (Phosgene) TWA 0.1 ppm; CL 0.2 ppm/15M
DOT CLASSIFICATION: 2.3; Label: Poison Gas, Corrosive
SAFETY PROFILE: A human poison by inhalation. A severe eye, skin, and mucous membrane irritant. In the presence of moisture, phosgene decomposes to form hydrochloric acid and carbon monoxide. This occurs in the bronchioles and alveoli of the lungs, resulting in pulmonary edema followed by bronchopneumonia and occasionally lung abscess. There is little immediate irritating effect upon the respiratory tract, and the warning properties of the gas are therefore very slight. There may be no immediate warning that dangerous concentrations are being inhaled. After a latent period of 2 to 24 hours, the patient complains of burning in the throat and chest, shortness of breath, and increasing dyspnea. Where the exposure has been severe, the development of pulmonary edema may be so rapid that the patient dies within 36 hours after exposure. In cases where the exposure has been less, pneumonia may develop several days after the occurrence of the accident. In patients who recover, no permanent residual disability is thought to occur. A common air contaminant.

Under the appropriate conditions it undergoes hazardous reactions with Al, tert-butyl azido formate, 2,4-hexadiyn-1,6-diol, isopropyl alcohol, K, Na, sodium azide, hexafluoroisopropylideneamino lithium, lithium. When heated to decomposition or on contact with water or steam it will react to produce toxic and corrosive fumes of CO and Cl^-. *Caution*: Arrangements should be made for monitoring its use.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-61.

PGX250 HR: 3
PHOSPHAM
mf: HN_2P mw: 60.0
SAFETY PROFILE: Ignites in air at slightly elevated temperatures. Ignites in nitrogen dioxide vapors. Explodes when heated with chlorates or nitrates. Incandescent reaction with copper(II) oxide or mercury(II) oxide. Reaction with hydrogen sulfide + heat forms a pyrophoric solid. Incompatible with oxidants. When heated to decomposition it emits very toxic fumes of PO_x and NO_x. See also PHOSPHIDES.

PGX275 CAS: 23783-98-4 HR: 3
cis-PHOSPHAMIDON
mf: $C_{10}H_{19}ClNO_5P$ mw: 299.72
SYNS: (Z)-2-CHLORO-N,N-DIETHYL-3-HYDROXYCROTON-AMIDE DIMETHYL PHOSPHORATE □ (Z)-PHOSPHAMIDON □ PHOSPHORIC ACID, 2-CHLORO-3-(DIETHYLAMINO)-1-METHYL-3-OXO-1-PROPENYL-,DIMETHYL ESTER, (Z)- □ PHOSPHORIC ACID, DIMETHYL ESTER, ESTER WITH 2-CHLORO-N,N-DIETHYL-3-HYDROXYCROTANAMIDE, (Z)-
CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.
orl-rat LD50:15 mg/kg WRPCA2 4,36,1965
skn-rat LD50:125 mg/kg WRPCA2 4,36,1965
SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Cl^-.

PGX300 CAS: 297-99-4 HR: 3
trans-PHOSPHAMIDON
mf: $C_{10}H_{19}ClNO_5P$ mw: 299.69
SYNS: ENT 25,515 □ ML 97 □ OR 1191 □ (E)-PHOSPHAMIDON
TOXICITY DATA with REFERENCE:
orl-mus LDLo:18 mg/kg AECTCV 14,111,85
orl-pgn LD50:4210 µg/kg ASTTA8 (680),157,79
orl-qal LD50:7500 µg/kg ASTTA8 (680),157,79
orl-bwd LD50:1780 µg/kg ASTTA8 (680),157,79
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of Cl^-, NO_x, and PO_x.

PGX500 HR: 2
PHOSPHATES
SAFETY PROFILE: Alkali metal phosphates are strong caustics and therefore powerful irritants. Superphosphate is $Ca(H_2PO_4)_2/CaSO_4$. Triple superphosphate contains P_2O_5. Both are used as fertilizers. Organophosphates are often highly toxic pesticides. For an example of organic phosphates, see PARATHION. See also individual phosphates.

PGX750 HR: 3
PHOSPHIDES
PROP: A combination of a cation + elemental phosphorus.
SAFETY PROFILE: Phosphides are particularly dangerous because they tend to decompose to the very toxic phosphine upon contact with moisture or acids. Dangerous fire hazard by chemical reaction, particularly with moisture. Moderate explosion hazard. They react with water, steam, acid, or acid fumes to produce toxic and flammable phosphine gas. Can react vigorously with oxidizing materials. Dangerous; when heated to decomposition they may emit highly toxic fumes of PO_x. See also PHOSPHINE.

PGY000 CAS: 7803-51-2 HR: 3
PHOSPHINE
DOT: UN 2199
mf: H_3P mw: 34.00
PROP: Colorless gas; foul odor of decaying fish. Extremely weak base. Mp: −132.5°, bp: −87.5°, d: 1.529 g/L @ 0°, autoign temp: 212°F, lel: 1%. Sltly sol in water (giving neutral soln). IDLH 50 ppm.
SYNS: CELPHOS □ DELICIA □ DETIA GAS EX-B □ FOSFOROWODOR (POLISH) □ HYDROGEN PHOSPHIDE □

PHOSPHORUS TRIHYDRIDE □ PHOSPHORWASSERSTOFF (GERMAN) □ RCRA WASTE NUMBER P096

TOXICITY DATA with REFERENCE:
ihl-hmn LCLo:1000 ppm GUCHAZ 6,412,73
ihl-rat LC50:11 ppm/4H AIHAAP 36,452,75
ihl-mus LCLo:380 mg/m^3/2H 85GMAT -,75,82
ihl-cat LCLo:70 mg/m^3/2H 85GMAT -,75,82
ihl-rbt LCLo:2500 ppm/20M AEXPBL 27,314,1890
ihl-gpg LCLo:140 mg/m^3/4H 85GMAT -,75,82
ihl-mam LCLo:1000 ppm/5M AEPPAE 138,65,28

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.3 ppm; STEL 1 ppm

ACGIH TLV: TWA 0.3 ppm; STEL 1 ppm

DFG MAK: 0.1 ppm (0.14 mg/m^3)

DOT CLASSIFICATION: 2.3; Label: Poison Gas, Flammable Gas

SAFETY PROFILE: A poison by inhalation. A very toxic gas whose effects are not completely understood. The chief effects are central nervous system depression and lung irritation. There may be pulmonary edema, dilation of the heart, and hyperemia of the visceral organs. Inhalation can cause coma and convulsions leading to death within 48 hours. However, most cases recover without after-effects. Chronic poisoning, characterized by anemia, bronchitis, gastrointestinal disturbances, and visual, speech, and motor disturbances, may result from continued exposure to very low concentrations.

Very dangerous fire hazard by spontaneous chemical reaction. Moderately explosive when exposed to flame. Explosive reaction with dichlorine oxide, silver nitrate, concentrated nitric acid, nitrogen trichloride, oxygen. Reacts with mercury(II) nitrate to form an explosive product. Ignition or violent reaction with air, boron trichloride, Br_2, Cl_2, aqueous halogen solutions, iodine, metal nitrates, NO, NCl_3, NO_3, N_2O, HNO_2, K + NH_3, oxidants. The organic derivatives of phosphine (phosphines) react vigorously with halogens. To fight fire, use CO_2, dry chemical, or water spray. Dangerous; when heated to decomposition it emits highly toxic fumes of PO_x. Used as a fumigant, doping agent for electronic components, and in chemical synthesis.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-180 or NIOSH: Phosphine S332.

PGY250 CAS: 6303-21-5 HR: 3
PHOSPHINIC ACID

mf: H_3O_2P mw: 66.00

PROP: Colorless deliquescent crystals. Mp: 26.5°.

SYN: HYPOPHOSPHOROUS ACID

SAFETY PROFILE: Reaction with mercury(II) oxide is explosive. Violent reaction with mercury(II) nitrate. When heated to decomposition it emits toxic fumes of PO_x.

PGY300 CAS: 25727-08-6 HR: 3
1,1′,1″-(PHOSPHINIDYNETRIS((1-METHYLETHYLENE)OXY))TRI-2-PROPANOL

mf: $C_{18}H_{39}O_6P$ mw: 382.54

SYNS: 2-PROPANOL, 1,1',1"-(PHOSPHINIDYNETRIS((1-METHYLETHYLENE)OXY))TRI- □ TRIS(DIPROPYLENE GLYCOL) PHOSPHINE

TOXICITY DATA with REFERENCE:
orl-rat LD50:19,700 µL/kg AIHAAP 30,470,69
skn-rbt LD50:>10 mL/kg AIHAAP 30,470,69

SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits toxic vapors of PO_x.

PGY600 CAS: 6736-03-4 HR: 3
PHOSPHOLINE

mf: $C_9H_{23}NO_3PS$ mw: 256.36

SYN: (2-MERCAPTOETHYL)TRIMETHYLAMMONIUM S-ESTER with O,O'-DIETHYLPHOSPHOROTHIOATE

TOXICITY DATA with REFERENCE:
orl-rat LD50:88 mg/kg APYPAY 32,507,81
scu-rat LD50:174 µg/kg APYPAY 32,507,81
ipr-mus LD50:7079 µg/kg PHARAT 35,806,80

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NH_3, PO_x, SO_x, and NO_x.

PGY750 CAS: 51321-79-0 HR: 2
PHOSPHONACETYL-l-ASPARTIC ACID

mf: $C_6H_{10}NO_8P$ mw: 255.14

SYNS: NSC-224131 □ PALA □ N-PHOSPHONACETYL-l-ASPARTATE

TOXICITY DATA with REFERENCE:
dni-mus:leu 1 mmol/L CNREA8 42,4525,82
oms-dog-ivn 20 mg/kg CNREA8 43,2565,83
unr-hmn TDLo:862 mg/kg:GIT,MET DRFUD4 6,152,81

SAFETY PROFILE: Human systemic effects by an unspecified route: hypermotility, diarrhea, nausea or vomiting, weight loss or decreased weight gain. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and PO_x.

PGZ899 CAS: 13598-36-2 HR: 2
PHOSPHONIC ACID

mf: H_3O_3P mw: 82.00

PROP: White very hygroscopic crystals; mass from EtOH (aq). Mp: 73.8°. Very sol in H_2O.

SYNS: ORTHOPHOSPHORUS ACID □ PHOSPHORUS TRIHYDROXIDE □ TRIHYDROXYPHOSPHINE

TOXICITY DATA with REFERENCE:
orl-rat LD50:1895 mg/kg GISAAA 56(4),24,91
orl-mus LD50:2172 mg/kg GISAAA 56(4),24,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition at 200°C it emits toxic fumes of PO_x and phosphine which may ignite. See also PHOSPHINE.

PGZ900 CAS: 32674-23-0 HR: 3
PHOSPHONIC ACID, (DITHIODIMETHYLENE)-DI-, TETRAMETHYL ESTER

mf: $C_6H_{16}O_6P_2S_2$ mw: 310.28

SYNS: CP 8574 □ ENT 24,044 □ MONSANTO CP-8574

TOXICITY DATA with REFERENCE:
orl-rat LD50:78 mg/kg ARSIM* 20,14,66
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of PO_x and SO_x.

PGZ910 CAS: 53529-45-6 HR: 2
PHOSPHONIC ACID, ETHENYL-, BIS(2-((BUTOXYMETHYLPHOSPHINYL)OXY)ETHYL) ESTER
mf: $C_{16}H_{35}O_9P_3$ mw: 464.42
SYN: FYROL 76
TOXICITY DATA with REFERENCE:
orl-rat LD50:937 mg/kg BECTA6 17,720,77
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of PO_x.

PGZ915 CAS: 3328-33-4 HR: 3
PHOSPHONIC ACID, (1-HYDROXYVINYL)-, DIMETHYL ESTER, DIMETHYL PHOSPHATE
mf: $C_6H_{14}O_7P_2$ mw: 260.14
SYNS: CP 10502 □ ENT 24,415 □ MONSANTO CP-10502 □ PHOSPHORIC ACID, 1-(DIMETHOXYPHOSPHINYL)ETHENYL DIMETHYL ESTER (9CI)
TOXICITY DATA with REFERENCE:
orl-rat LD50:287 mg/kg ARSIM* 20,14,66
orl-ckn LD50:43,900 µg/kg TXAPA9 6,147,64
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of PO_x.

PGZ950 CAS: 13590-71-1 HR: 2
PHOSPHONIC ACID, MONOMETHYL
mf: CH_5O_3P mw: 96.03
PROP: Unstable oil.
SYNS: METHYLESTER KYSELINY FOSFORITE (CZECH) □ MONOMETHYLFOSFIT (CZECH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV 28ZPAK -,214,72
eye-rbt 50 µg/24H SEV 28ZPAK -,214,72
orl-rat LD50:1740 mg/kg 28ZPAK -,214,72
SAFETY PROFILE: Moderately toxic by ingestion. A severe eye and skin irritant. When heated to decomposition it emits toxic fumes of PO_x. See also ESTERS.

PHA000 CAS: 12125-09-6 HR: 3
PHOSPHONIUM IODIDE
mf: H_4IP mw: 161.91
PROP: Tetragonal, colorless or white, hygroscopic, deliq crystals. Decomp by H_2O or HI and PH_3. Unstable in air. Mp: subl @ 18.5°, d: 2.86, vap press: 40 mm @ 16.1°, 760 mm @ 62.5°.
SYNS: IODINE PHOSPHIDE □ JODPHOSPHONIUM (GERMAN)
TOXICITY DATA with REFERENCE:
orl-rbt LDLo:5 mg/kg SAPHAO 15,420,04
SAFETY PROFILE: Poison by ingestion. Rapid heating causes detonation. Explosive reaction with antimony pentachloride. Violent reaction or ignition with bromates; $HClO_3$; chlorates; iodates; HIO_2, HNO_3; $AgNO_3$. Reaction with potassium hydroxide produces phosphine gas, reaction becomes explosive in the presence of air. When heated to decomposition it emits very toxic fumes of I^- and PO_x. See also IODIDES.

PHA250 HR: 3
PHOSPHONIUM PERCHLORATE
mf: ClH_4O_4P mw: 134.46
$(PH_4)\bullet(ClO_4)$
SAFETY PROFILE: Poison by ingestion. A powerful irritant. A very explosive salt sensitive to moisture, heat, friction. Explodes on drying. See also PERCHLORATES.

PHA300 CAS: 37971-35-0 HR: 1
2-PHOSPHONOBUTANETRICARBONIC ACID PENTAMETHYL ESTER
mf: $C_{12}H_{21}O_9P$ mw: 340.30
SYNS: 1,2,4-BUTANETRICARBOXYLIC ACID, 2-(DIMETHOXYPHOSPHINYL)-, TRIMETHYL ESTER □ DIMETHYL (1,2,4-TRIS(METHOXYCARBONYL)-2-BUTYL)PHOSPHONATE
TOXICITY DATA with REFERENCE:
eye-rbt 100 µL/24H MOD IJTOFN 19,353,2000
SAFETY PROFILE: A moderate eye irritant. When heated to decomposition it emits toxic vapors of PO_x.

PHA500 CAS: 1071-83-6 HR: 3
N-(PHOSPHONOMETHYL)GLYCINE
mf: $C_3H_8NO_5P$ mw: 169.09
PROP: A solid. Sltly sol in H_2O; insol in most org solvs.
SYNS: GLYPHOSATE □ MON 0573 □ MON 2139
TOXICITY DATA with REFERENCE:
orl-man LDLo:2143 mg/kg:CVS,PUL JTCTDW 29,91,91
orl-man TDLo:1214 mg/kg:CVS,GIT HETOEA 10,103,91
orl-wmn LDLo:4 g/kg:CVS,PUL JTCTDW 29,91,91
orl-rat LD50:4873 mg/kg:BAH,PUL TXAPA9 45,319,78
orl-mus LD50:1568 mg/kg TXAPA9 45,319,78
ipr-rat LD50:238 mg/kg TXAPA9 45,319,78
orl-mus LD50:1568 mg/kg TXAPA9 45,319,78
ipr-mus LD50:134 mg/kg TXAPA9 45,319,78
orl-rbt LD50:3800 mg/kg PESTC* 7,6,78
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Human systemic effects: arrhythmias, blood pressure lowering, body temperature increase, change in heart rate, convulsions, diarrhea, fibrosing alveolitis, fibrosis, hypermotility, respiratory depression, respiratory stimulation. Used as an herbicide. When heated to decomposition it emits very toxic fumes of NO_x and PO_x.

PHA550 CAS: 23155-02-4 HR: 2
PHOSPHONOMYCIN
mf: $C_3H_7O_4P$ mw: 138.07
PROP: Crystals. Mp: approx 94°. Sol in water.
SYNS: 883A □ ANTIBIOTIC 833A □ FOSFOCINA □ FOSFOMYCIN □ FOSFONOMYCIN □ (2R-cis)-(3-METHYLOXIRANYL)PHOSPHONIC ACID □ MK-955 □ PHOSPHOMYCIN □ PHOSPHONIC ACID, (3-METHYLOXIRANYL)-, (2R-cis)-(9CI) □ PHOSPHONOMYCIN
TOXICITY DATA with REFERENCE:

pic-esc 10 µg/plate CNREA8 43,2819,83
mmo-omi 10 g/L MILEDM 8,27,78
ipr-mus LD50:4000 mg/kg 85GDA2 6,426,81
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of PO_x.

PHA560 CAS: 5962-42-5 HR: 1
3-PHOSPHONOPROPANOIC ACID
mf: $C_3H_7O_5P$ mw: 154.07
SYNS: 1-CARBOXYETHANE-2-PHOSPHONIC ACID ◻ 2-CARBOXYETHANEPHOSPHONIC ACID ◻ 2-CARBOXY-ETHANE-1-PHOSPHONIC ACID ◻ CARBOXYETHYLPHOSPH-ONIC ACID ◻ 2-CARBOXYETHYLPHOSPHONIC ACID ◻ PHOSPHONIC ACID, (2-CARBOXYETHYL)- ◻ β-PHOSPHONO-PROPIONIC ACID ◻ 3-PHOSPHONOPROPIONIC ACID ◻ PROPANOIC ACID, 3-PHOSPHONO- ◻ PROPIONIC ACID, 3-PHOSPHONO-
TOXICITY DATA with REFERENCE:
eye-rbt 100 µL/24H SEV IJTOFN 19,352,2000
orl-rat LDLo:5775 mg/kg IJTOFN 19,352,2000
SAFETY PROFILE: Low toxicity by ingestion. A severe eye irritant. When heated to decomposition it emits toxic vapors of PO_x.

PHA565 CAS: 2788-26-3 HR: 1
PHOSPHONOSUCCINIC ACID TETRAMETHYL ESTER
mf: $C_8H_{15}O_7P$ mw: 254.20
SYNS: BUTANEDIOIC ACID, (DIMETHOXYPHOSPHINYL)-, DIMETHYL ESTER ◻ DIMETHYL (DIMETHYLPHOSPHINYL)-BUTANEDIOATE ◻ DIMETHYL (DIMETHYLPHOSPHONO)-SUCCINATE ◻ SUCCINIC ACID, PHOSPHONO-, TETRAMETH-YL ESTER ◻ TETRAMETHYL 1,2-DICARBOXYETHYLPHOS-PHONATE ◻ TETRAMETHYL PHOSPHONOSUCCINATE
TOXICITY DATA with REFERENCE:
eye-rbt 100 µL/24H MOD IJTOFN 19,353,2000
SAFETY PROFILE: A moderate eye irritant. When heated to decomposition it emits toxic vapors of PO_x.

PHA575 CAS: 6064-83-1 HR: 3
2-PHOSPHONOXYBENZOIC ACID
mf: $C_7H_7O_6P$ mw: 218.11
PROP: A solid. Mp: 168−170°.
SYNS: BENZOIC ACID, 2-(PHOSPHONOOXY)- (9CI) ◻ o-CARBOXYPHENYL PHOSPHATE ◻ DISDOLEN ◻ FOSFOSAL ◻ 2-PHOSPHONOXYBENZOESAEURE ◻ PHOSPHONOXY-BENZOIC ACID ◻ SALICYLIC ACID, DIHYDROGEN PHOSPHATE ◻ SALICYL PHOSPHATE ◻ UR 1522
TOXICITY DATA with REFERENCE:
orl-rat LD50:1104 mg/kg ARZNAD 30,1098,80
ipr-rat LD50:338 mg/kg ARZNAD 30,1098,80
ivn-rat LD50:153 mg/kg ARZNAD 30,1098,80
orl-mus LD50:1455 mg/kg ARZNAD 30,1098,80
ivn-mus LD50:94 mg/kg ARZNAD 30,1098,80
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of PO_x.

PHA700 CAS: 106941-25-7 HR: D
9-(2-PHOSPHONYLMETHOXYETHYL)ADENINE
mf: $C_8H_{12}N_5O_4P$ mw: 273.22
SYNS: ((2-(6-AMINO-9H-PURIN-9-YL)ETHOXY)METHYL)-PHOSPHONIC ACID ◻ PHOSPHONIC ACID, ((2-(6-AMINO-9H-PURIN-9-YL)ETHOXY)METHYL)- ◻ PMEA
TOXICITY DATA with REFERENCE:
slt-orl-dmg 100 ppm MUREAV 311,305,94
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and PO_x.

PHA725 CAS: 114088-58-3 HR: 2
9-((2-PHOSPHONYLMETHOXY)ETHYL)-GUANINE
mf: $C_8H_{12}N_5O_5P$ mw: 289.19
SYNS: PHOSPHONIC ACID, ((2-(2-AMINO-1,6-DIHYDRO-6-OXO-9H-PURIN-9-YL)ETHOXY)METHYL)- ◻ PMEG
TOXICITY DATA with REFERENCE:
skn-rbt 0.1%/8W SEV open ARSRDR 48,131,2000
SAFETY PROFILE: A severe skin irritant. When heated to decomposition it emits toxic vapors of NO_x and PO_x.

PHA750 CAS: 5776-49-8 HR: 2
PHOSPHORAMIDE MUSTARD CYCLOHEXYL-AMINE SALT
mf: $C_4H_{11}Cl_2N_2O_2P{\bullet}C_6H_{13}N$ mw: 320.24
SYNS: N,N-BIS(2-CHLOROETHYL)PHOSPHORODIAMIDIC ACID, CYCLOHEXYL AMMONIUM SALT ◻ N-LOST-PHOSPHORSAEUREDIAMID (GERMAN) ◻ NLPD ◻ NSC-69945 ◻ OMF 59
TOXICITY DATA with REFERENCE:
mma-sat 25 µg/plate CNREA8 42,3016,82
cyt-hmn:lym 339 nmol/L CNREA8 46,203,86
orl-mus LD50:624 mg/kg NCISP* JAN86
SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NH_3, Cl^-, PO_x, and NO_x.

PHB250 CAS: 7664-38-2 HR: 3
PHOSPHORIC ACID
DOT: UN 1805
mf: H_3O_4P mw: 98.00
PROP: Colorless syrupy liquid or rhombic crystals. Mp: 42.35°, loses $1/2H_2O$ @ 213°, fp: 42.4°, d: 1.864 @ 25°, vap press: 0.0285 mm @ 20°. Misc with water and many org solvs. IDLH 1000 mg/m^3.
SYNS: ACIDE PHOSPHORIQUE (FRENCH) ◻ ACIDO FOSFORICO (ITALIAN) ◻ FOSFORZUUROPLOSSINGEN (DUTCH) ◻ ORTHOPHOSPHORIC ACID ◻ PHOSPHOR-SAEURELOESUNGEN (GERMAN)
TOXICITY DATA with REFERENCE:
skn-rbt 595 mg/24H SEV BIOFX* 17-4/70
eye-rbt 119 mg SEV BIOFX* 17-4/70
orl-man TDLo:1286 µL/kg AEMED3 16,704,87
unr-man LDLo:220 mg/kg 85DCAI 2,73,70
orl-rat LD50:1530 mg/kg BIOFX* 17-4/70
skn-rbt LD50:2740 mg/kg BIOFX* 17-4/70

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 1 mg/m^3; STEL 3 mg/m^3
ACGIH TLV: TWA 1 mg/m^3; STEL 3 mg/m^3
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: Human poison by ingestion. Moderately toxic by skin contact. A corrosive irritant to eyes, skin, and mucous membranes, and a systemic irritant by inhalation. A common air contaminant. A strong acid. Mixtures with nitromethane are explosive. Reacts with chlorides + stainless steel to form explosive hydrogen gas. Potentially violent reaction with sodium tetrahydroborate. Dangerous; when heated to decomposition it emits toxic fumes of PO_x.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-111 or NIOSH: Acids, Inorganic, 7903.

PHB500 CAS: 7784-30-7 HR: 2
PHOSPHORIC ACID, ALUMINUM SALT (1:1), (solution)
mf: $O_4P{\bullet}Al$ mw: 121.95
SYNS: ALUMINOPHOSPHORIC ACID ◻ ALUMINUM ACID PHOSPHATE ◻ ALUMINUM MONOPHOSPHATE ◻ ALUMINUM PHOSPHATE ◻ ALUMINUM PHOSPHATE (1:1) ◻ ALUMINUM PHOSPHATE, solution (DOT) ◻ ALUPHOS ◻ FFB 32 ◻ MONOALUMINUM PHOSPHATE ◻ PHOSPHALUGEL
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
ACGIH TLV: TWA 2 mg(Al)/m^3
SAFETY PROFILE: Corrosive to the eyes, skin, and mucous membranes. When heated to decomposition it emits toxic fumes of PO_x. Used as an antacid and as a cement component, flux for ceramics, dental cement, glass, and gels. See also ALUMINUM COMPOUNDS and PHOSPHATES.

PHB550 CAS: 13597-72-3 HR: D
PHOSPHORIC ACID AMIDE
mf: H_6N_3OP mw: 95.06
SYNS: IF 2303 ◻ II 17T1 ◻ II 17T4 ◻ HG 010 ◻ HG 010 (PHOSPHATE) ◻ PHOSPHORAMIDE ◻ PHOSPHORIC ACID TRIAMIDE ◻ PHOSPHORIC TRIAMIDE ◻ TRIAMIDOPHOSPHATE ◻ TRIAMINOPHOSPHINE OXIDE ◻ PHOSPHOROOXYTRIAMIDE ◻ PHOSPHOROXYTRIAMIDE ◻ PHOSPHORUS OXIDE TRIAMIDE ◻ PHOSPHORUS OXYTRIAMIDE ◻ PHOSPHORYL AMIDE ◻ PHOSPHORYL TRIAMIDE (PO(NH2)3) ◻ PHOSPHOTRIAMIDE ◻ SUMITARD XL ◻ TRISAMINOPHOSPHINE OXIDE
TOXICITY DATA with REFERENCE:
mor-ham-kdy 250 µg/ BJCAAI 36,564,1977
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of PO_x.

PHB600 CAS: 14663-72-0 HR: 3
PHOSPHORIC ACID, BIS(2-CHLOROPROPYL) p-NITROPHENYL ESTER
mf: $C_{12}H_{16}Cl_2NO_6P$ mw: 372.16
TOXICITY DATA with REFERENCE:
orl-rat LD50:173 mg/kg BCPCA6 16,1183,67
ipr-ckn LD50:>120 mg/kg BCPCA6 16,1183,67
SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x, PO_x, and Cl^-.

PHB605 CAS: 14663-71-9 HR: 3
PHOSPHORIC ACID, BIS(3-CHLOROPROPYL) p-NITROPHENYL ESTER
mf: $C_{12}H_{16}Cl_2NO_6P$ mw: 372.16
TOXICITY DATA with REFERENCE:
orl-rat LD50:33 mg/kg BCPCA6 16,1183,67
ipr-ckn LD50:>60 mg/kg BCPCA6 16,1183,67
SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x, PO_x, and Cl^-.

PHC750 CAS: 6465-92-5 HR: 3
PHOSPHORIC ACID-2,2-DICHLOROVINYL METHYL ESTER, CALCIUM SALT mixed with 2,2-DICHLOROVINYL PHOSPHORIC ACID CALCIUM SALT
mf: $C_6H_8CaCl_4O_8P_2{\bullet}C_8H_{14}\ Cl_4O_8P_2$ mw: 893.92
SYN: KRECALVIN
TOXICITY DATA with REFERENCE:
orl-rat LD50:156 mg/kg HIRIA6 26,149,74
skn-rat LD50:3163 mg/kg HIRIA6 26,149,74
scu-rat LD50:34,800 µg/kg HIRIA6 26,149,74
orl-mus LD50:250 mg/kg HIRIA6 26,149,74
skn-mus LD50:3040 mg/kg HIRIA6 26,149,74
scu-mus LD50:29,300 µg/kg HIRIA6 26,149,74
SAFETY PROFILE: Poison by ingestion and subcutaneous routes. Moderately toxic by skin contact. When heated to decomposition it emits very toxic fumes of Cl^- and PO_x. See also ESTERS.

PHC800 CAS: 813-78-5 HR: 1
PHOSPHORIC ACID, DIMETHYL ESTER
mf: $C_2H_7O_4P$ mw: 126.06
SYNS: DIMETHYL HYDROGEN PHOSPHATE ◻ O,O-DIMETHYL HYDROGEN PHOSPHATE ◻ DIMETHYL PHOSPHATE
TOXICITY DATA with REFERENCE:
unr-rat LD50:8714 mg/kg GISAAA 50(3),57,85
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Slightly toxic by an unspecified route. When heated to decomposition it emits toxic vapors of PO_x.

PHD250 CAS: 3254-63-5 HR: 3
PHOSPHORIC ACID DIMETHYL-p-(METHYLTHIO)PHENYL ESTER
mf: $C_9H_{13}O_4PS$ mw: 248.25
PROP: A liquid. D: 1.273 @ 21°/4°. Spar sol in H_2O; sol in Me_2CO, dioxan, CCl_4, EtOH, xylene.
SYNS: O,O-DIMETHYL O-(4-METHYLMERCAPTOPHENYL)-PHOSPHATE ◻ DIMETHYL-p-(METHYLTHIO)PHENYL PHOSPHATE ◻ ENT 25,734 ◻ 4-METHYLTHIOPHENYL-DIMETHYL PHOSPHATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:7 mg/kg TXAPA9 21,315,72

orl-mus LD50:18 mg/kg ARTODN 34,103,75
skn-rbt LD50:48 mg/kg 28ZEAL 4,189,69
scu-rbt LD50:48 mg/kg FMCHA2 -,D156,80
orl-bwd LD50:560 µg/kg TXAPA9 21,315,72

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.

SAFETY PROFILE: Poison by ingestion, skin contact, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of SO_x and PO_x. See also ESTERS.

PHD500 CAS: 950-35-6 HR: 3
PHOSPHORIC ACID, DIMETHYL-p-NITROPHENYL ESTER

mf: $C_8H_{10}NO_6P$ mw: 247.16

PROP: A liquid. Bp: 142° @ 0.1 mm.

SYNS: DIMETHYL-p-NITROFENYLESTER KYSELINY FOSFORECNE (CZECH) □ DIMETHYL-p-NITROPHENYL PHOSPHATE □ DIMETHYL-4-NITROPHENYL PHOSPHATE □ DIMETHYL PARAOXON □ O,O-DIMETYL-O-p-NITROFENYL-FOSFAT (CZECH) □ METHYL-E-600 □ METHYL PARAOXON □ PARAOXON-METHYL □ PHOSPHORIC ACID, DIMETHYL-4-NITROPHENYL ESTER (9CI)

TOXICITY DATA with REFERENCE:
orl-rat LD50:3270 µg/kg 28ZPAK -,206,72
ivn-rat LD50:457 µg/kg BJIMAG 22,317,65
ims-rat LD50:1690 µg/kg BJIMAG 22,317,65
orl-mus LD50:21 mg/kg JAFCAU 17,243,69
ipr-mus LD50:708 µg/kg PHARAT 35,806,80
scu-mus LD50:1400 µg/kg AMIHAB 11,487,55
orl-gpg LD50:83 mg/kg ABCHA6 27,669,63
ivn-gpg LD50:2200 µg/kg ABCHA6 27,669,63

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

PHD750 CAS: 2255-17-6 HR: 3
PHOSPHORIC ACID, DIMETHYL-4-NITRO-m-TOLYL ESTER

mf: $C_9H_{12}NO_6P$ mw: 261.19

PROP: Bp: 134–136° @ 0.07 mm.

SYNS: ACCOTHION O-ANALOG □ BAY 42247 □ m-CRESOL, 4-NITRO-, DIMETHYL PHOSPHATE □ O,O-DIMETHYL O-(3-METHYL-4-NITROPHENYL)PHOSPHORATE □ FENITROOXON □ FENITROOXONE □ FENITROTHION OXON □ FENITRO-XON □ METAOXON □ 3-METHYL-4-NITROPHENYL DIMETH-YL PHOSPHATE □ OXOSUMITHION □ SUMIOXON □ SUMIOXONE

TOXICITY DATA with REFERENCE:
orl-rat LD50:24 mg/kg ABCHA6 27,669,63
ivn-rat LD50:3300 µg/kg ABCHA6 27,669,63
orl-mus LD50:20 mg/kg ACPMAP 16,7,63
ipr-mus LD50:2700 µg/kg PCBPBS 8,302,78
orl-gpg LD50:221 mg/kg ABCHA6 27,669,63
ivn-gpg LD50:32 mg/kg ABCHA6 27,669,63

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

PHE250 CAS: 5598-52-7 HR: 3
PHOSPHORIC ACID, DIMETHYL-3,5,6-TRICHLORO-2-PYRIDYL ESTER

mf: $C_7H_7Cl_3NO_4P$ mw: 306.47

PROP: Crystals from pet ether. Mp: 86.5–88°.

SYNS: DIMETHYL-3,5,6-TRICHLOROPYRIDYL PHOSPHATE □ DIMETHYL-3,5,6-TRICHLORO-2-PYRIDYL PHOSPHATE □ ENT 27,521 □ FOSPIRATE □ FOSPIRATE METHYL □ NSC-195058 □ TORELLE

TOXICITY DATA with REFERENCE:
orl-rat LD50:869 mg/kg SPEADM 78-1,45,78
orl-mus LD50:225 mg/kg ARTODN 34,103,75

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of Cl^-, PO_x, and NO_x. See also ESTERS.

PHE300 CAS: 838-85-7 HR: D
PHOSPHORIC ACID, DIPHENYL ESTER

mf: $C_{12}H_{11}O_4P$ mw: 250.20

SYNS: DIPHENYL HYDROGEN PHOSPHATE □ DIPHENYL PHOSPHATE □ PHENYL PHOSPHATE ($(PhO)_2(HO)PO$)

TOXICITY DATA with REFERENCE:
pic-esc 25 µg/well MUREAV 260,349,91

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

PHE500 CAS: 1623-24-1 HR: 2
PHOSPHORIC ACID, ISOPROPYL ESTER

DOT: UN 1793

mf: $C_3H_9O_4P$ mw: 140.09

SYNS: ISOPROPYL ACID PHOSPHATE solid □ ISOPROPYL PHOSPHORIC ACID

TOXICITY DATA with REFERENCE:
orl-rat LD:>250 mg/kg NCNSA6 5,37,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: A highly corrosive material. Very irritating to the skin, eyes, and mucous membranes. When heated to decomposition it emits toxic fumes of PO_x. See also ESTERS.

PHE750 CAS: 10497-05-9 HR: 2
PHOSPHORIC ACID, TRIS(TRIMETHYLSILYL) ESTER

mf: $C_9H_{27}O_4PSi_3$ mw: 314.60

PROP: A liquid. Bp: 232°.

SYN: TRIS-(TRIMETHYLSILYL)FOSFAT (CZECH)

TOXICITY DATA with REFERENCE:
orl-rat LD50:3440 mg/kg MarJV# 29MAR77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of PO_x. See also ESTERS.

PHE800 CAS: 770-12-7 HR: 2
PHOSPHORODICHLORIDIC ACID, PHENYL ESTER

mf: $C_6H_5Cl_2O_2P$ mw: 210.98

SYNS: DICHLOROPHENOXYPHOSPHINE OXIDE □ PHENOXYDICHLOROPHOSPHINE OXIDE □ PHENOXY-

PHOSPHORYL DICHLORIDE □ PHENYL DICHLOROPHOSPHATE □ PHENYLPHOSPHORIC DICHLORIDE

TOXICITY DATA with REFERENCE:
orl-unr LD50: 850 mg/kg GISAAA 39(4),86,1974

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PHE850 CAS: 3426-89-9 HR: 3
PHOSPHORODICHLORIDOUS ACID, PHENYL ESTER
mf: $C_6H_5Cl_2OP$ mw: 194.98
SYNS: DICHLOROPHENOXYPHOSPHINE □ PHENOXYPHOSPHORUS DICHLORIDE □ PHENYL DICHLOROPHOSPHITE □ PHENYL PHOSPHORODICHLORIDITE

TOXICITY DATA with REFERENCE:
ivn-mus LD50:100 mg/kg CSLNX* NX#05836

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of PO_x and Cl^-.

PHF250 CAS: 13779-41-4 HR: 3
PHOSPHORODIFLUORIDIC ACID
DOT: UN 1768
mf: F_2HO_2P mw: 101.98

PROP: Clear mobile liquid which decomp when heated. Fumes in moist air. Mp: −93°, bp: 116° (decomp), d: 1.583 @ 25°/4°, vap d: 3.52.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

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

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

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Toxic and corrosive material. Very irritating to the skin, eyes, and mucous membranes. When heated to decomposition it emits very toxic fumes of PO_x and F^-. Used as a catalyst. See also PHOSPHORODIFLUORIDIC ACID, anhydrous.

PHF750 CAS: 371-86-8 HR: 3
PHOSPHORODI(ISOPROPYLAMIDIC) FLUORIDE
mf: $C_6H_{15}FN_2OP$ mw: 182.21

PROP: Crystals from pet ether. Mp: 65°, bp: 125°. Spar sol in H_2O.

SYNS: BIS(ISOPROPYLAMIDO) FLUOROPHOSPHATE □ BIS(MONOISOPROPYLAMINO)FLUOROPHOSPHATE □ BIS(MONOISOPROPYLAMINO)FLUOROPHOSPHINE OXIDE □ N,N'-DIISOPROPIL-FOSFORODIAMMIDO-FLUORURO (ITALIAN) □ DI(ISOPROPYLAMIDO)PHOSPHORYLFLUORIDE □ N,N'-DIISOPROPYL-DIAMIDO-FOSFORZUUR-FLUORIDE (DUTCH) □ N,N'-DIISOPROPYL-DIAMIDO-PHOSPHORSAEURE-FLUORID (GERMAN) □ N,N'-DIISOPROPYLDIAMIDO-PHOSPHORYL FLUORIDE □ N,N'-DIISOPROPYLPHOSPHORODIAMIDIC FLUORIDE □ FLUOROBISISOPROPYLAMINOPHOSPHINE OXIDE □ FLUORURE de N,N'-DIISOPROPYLE PHOSPHORODIAMIDE (FRENCH) □ ISOPESTOX □ MIPAFOX □ PESTON XV □ PESTOX 15 □ PESTOX XV

TOXICITY DATA with REFERENCE:
ipr-rat LD50:90 mg/kg PAREAQ 11,636,59
scu-rat LD50:75 mg/kg JEENAI 50(3),356,57
ipr-mus LD50:14 mg/kg BECTA6 2,163,67
orl-rbt LD50:100 mg/kg GUCHAZ 6,357,73
orl-gpg LD50:80 mg/kg PCOC** -,628,66

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of F^-, NO_x, and PO_x. See also PARATHION and FLUORIDES.

PHG500 CAS: 298-06-6 HR: 1
PHOSPHORODITHIOIC ACID, O,O-DIETHYL ESTER
mf: $C_4H_{11}O_2PS_2$ mw: 186.24

PROP: A liquid. D: 1.17° @ 20°/4°, bp: 60° @ 1 mm. Sol in H_2O.

SYN: KYSELINA O,O-DIETHYLDITHIOFOSFORECNA (CZECH)

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD 28ZPAK -,212,72
eye-rbt 50 µg/24H SEV 28ZPAK -,212,72
orl-rat LD50:4510 mg/kg 28ZPAK -,212,72

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 very toxic fumes of PO_x and SO_x. See also ESTERS.

PHG600 CAS: 3772-51-8 HR: 3
PHOSPHORODITHIOIC ACID, O,O-DIETHYL ESTER, S,S-DIESTER with THIODIMETHANETHIOL
mf: $C_{10}H_{24}O_4P_2S_5$ mw: 430.58
SYNS: ENT 24,954 □ MONSANTO CP-13206

TOXICITY DATA with REFERENCE:
orl-rat LD50:8500 µg/kg ARSIM* 20,15,66

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

PHG750 CAS: 3338-24-7 HR: 1
PHOSPHORODITHIOIC ACID, O,O-DIETHYL ESTER, SODIUM SALT
mf: $C_4H_{10}O_2PS_2$•Na mw: 208.22
SYN: O,O-DIETHYLDITHIOFOSFORECNAN SODNY (CZECH)

TOXICITY DATA with REFERENCE:
eye-rbt 100 mg/24H SEV 28ZPAK -,212,72
orl-rat LD50:18,100 mg/kg 28ZPAK -,212,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A severe eye irritant. When heated to decomposition it emits very toxic fumes of PO_x, Na_2O, and SO_x. See also ESTERS.

PHH500 CAS: 756-80-9 HR: 2

PHOSPHORODITHIOIC ACID, O,O-DIMETHYL ESTER

mf: $C_2H_7O_2PS_2$ mw: 158.18

PROP: A liquid. D: 1.29° @ 20°/4°, bp: 56−57° @ 4 mm.

SYNS: O,O-DIMETHYLDITHIOPHOSPHATE ◻ DIMETHYL-DITHIOPHOSPHORIC ACID ◻ O,O-DIMETHYL DITHIOPHOSPHORIC ACID ◻ DIMETHYL PHOSPHODITHIONATE ◻ DIMETHYL PHOSPHORODITHIOATE ◻ O,O-DIMETHYL-PHOSPHORODITHIOATE ◻ KWAS DWUMETYLO-DWUTIOFOSFOROWY ◻ KYSELINA O,O-DIMETHYLDITHIO-FOSFORCNA (CZECH) ◻ METHYL PHOSPHORODITHIOATE (6CI,7CI)

TOXICITY DATA with REFERENCE:

skn-rbt 20 mg/24H MOD 85JCAE -,1175,86
eye-rbt 250 µg/24H SEV 28ZPAK -,211,72
orl-rat LDLo:1000 mg/kg 28ZPAK -,211,72
orl-mus LD50:1550 mg/kg JAFCAU 28,599,80

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 very toxic fumes of PO_x and SO_x. See also ESTERS.

PHI250 CAS: 26377-29-7 HR: 1
PHOSPHORODITHIOIC ACID, O,O-DIMETHYL ESTER, SODIUM SALT

mf: $C_2H_6O_2PS_2$•Na mw: 180.16

SYN: O,O-DIMETHYLDITHIOFOSFORECNAN SODNY (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H SEV 28ZPAK -,211,72
orl-rat LD50:6050 mg/kg 85JCAE -,1175,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A severe eye irritant. When heated to decomposition it emits very toxic fumes of PO_x, Na_2O, and SO_x. See also ESTERS.

PHI500 CAS: 640-15-3 HR: 3
PHOSPHORODITHIOIC ACID, O,O-DIMETHYL-S-(2-ETHYLTHIO)ETHYL ESTER

mf: $C_6H_{15}O_2PS_3$ mw: 246.36

PROP: Colorless liquid or oil. D: 1.209 @ 20°/4°, bp: 97° @ 0.2 mm. Very spar sol in water and most org solvs; sol in acetone, dioxane, acetonitrile.

SYNS: BAY 23129 ◻ COMPOUND M-81 ◻ O,O-DIMETHYL-S-(2-AETHYLTHIO-AETHYL)-DITHIO PHOSPHAT (GERMAN) ◻ O,O-DIMETHYL-S-(CARBONYLMETHYLMORPHOLINO) PHOSPHORODITHIOATE ◻ O,O-DIMETHYL-S-(2-ETHYL-MERCAPTOETHYL) DITHIOPHOSPHATE ◻ O,O-DIMETHYL-S-2-ETHYLMERKAPTOETHYLESTER KYSELINY DITHIO-FOSFORECNE (CZECH) ◻ O,O-DIMETHYL-S-(2-ETHYLTHIO-ETHYL)-DITHIOFOSFAAT (DUTCH) ◻ O,O-DIMETHYL S-(2-(ETHYLTHIO)ETHYL) PHOSPHORODITHIOATE ◻ O,O-DIMETIL-S-(ETILTIO-ETIL)-DITIOFOSFATO (ITALIAN) ◻ DITHIOMETON (FRENCH) ◻ DITHIOPHOSPHATE de O,O-DIMETHYLE et de S-(2-ETHYLTHIO-ETHYLE) (FRENCH) ◻ EKATIN ◻ EKATIN AEROSOL ◻ EKATINE-25 ◻ EKATIN ULV ◻ 2-ETHYLTHIOETHYL O,O-DIMETHYL PHOSPHORODITHIO-ATE ◻ S-(2-(ETHYLTHIO)ETHYL) O,O-DIMETHYLPHOS-PHORODITHIONATE ◻ S-(2-(ETHYLTHIO)ETHYL)DIMETHYL PHOSPHOROTHIOLOTHIONATE ◻ INTRATHION ◻ INTRATION ◻ LUXISTELM ◻ M 81 ◻ SAN 230 ◻ THIAMETON ◻ THIOMETON

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,212,72
eye-rbt 750 µg/24H SEV 28ZPAK -,212,72
mma-sat 1 mg/plate MUREAV 116,185,83
mnt-mus-ipr 100 mg/kg MUREAV 155,131,85
orl-rat LD50:40 mg/kg ARZNAD 5,584,55
ihl-rat LCLo:20 mg/m^3/4H GTPZAB 4(9),21,60
skn-rat LD50:179 mg/kg 13ZGAF -,211,62
ivn-rat LD50:38,500 µg/kg 13ZGAF -,206,62
orl-mus LD50:60 mg/kg PCOC** -,1132,66

SAFETY PROFILE: Poison by ingestion, skin contact, inhalation, and intravenous routes. Mutation data reported. A skin and severe eye irritant. A cholinesterase inhibitor. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also ESTERS and PARATHION.

PHJ250 CAS: 13537-32-1 HR: 2
PHOSPHOROFLUORIDIC ACID

DOT: UN 1776

mf: FH_2O_3P mw: 99.99

PROP: Colorless oily acid of moderate strength. Slowly hydrol in neutral or weakly alkaline soln.

SYNS: FLUOROPHOSPHORIC ACID, anhydrous ◻ MONO-FLUOROPHOSPHORIC ACID, anhydrous

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

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

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

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: A corrosive and irritating material to skin, eyes, and mucous membranes. When heated to decomposition it emits very toxic fumes of F^- and PO_x. See also FLUORIDES.

PHK000 CAS: 42509-80-8 HR: 3
PHOSPHOROTHIOIC ACID, O-(2-CHLORO-1-ISOPROPYLIMIDAZOL-4-YL) O,O-DIETHYL ESTER

mf: $C_9H_{17}ClN_3O_3PS$ mw: 313.77

PROP: Yellow liquid. Bp: 100° @ 0.0001 mm.

SYNS: A-12223 ◻ AI3-29128 ◻ BRACE ◻ CGA-12223 ◻ O-(5-CHLORO-1-(1-METHYLETHYL)-1H-1,2,4-TRIAZOL-3-YL) O,O-DIETHYL PHOSPHOROTHIOATE ◻ CIBA 12223 ◻ ISAZOFOS ◻ ISAZOPHOS ◻ MIRAL ◻ MIRAL 10 G ◻ TRIUMPH

TOXICITY DATA with REFERENCE:

orl-rat LD50:40 mg/kg 85ARAE 1,131,77
ihl-rat LC50:236 mg/m^3/4H CIGET* 9,502,91
skn-rat LD50:290 mg/kg FMCHA2 -,D205,80

SAFETY PROFILE: Poison by ingestion, inhalation, and skin contact. Used as a pesticide against pathogenic root nematodes on bananas, citrus, and various annual crops. When heated to decomposition it emits very toxic fumes of Cl^-, NO_x, PO_x, and SO_x. See also ESTERS.

PHK250 CAS: 3734-95-0 HR: 3

PHOSPHOROTHIOIC ACID-S-(((1-CYANO-1-METHYL-ETHYL)CARBAMOYL)METHYL)-O,O-DIETHYL ESTER

mf: $C_{10}H_{19}N_2O_4PS$ mw: 294.34

PROP: Oil. D: 1.19 @ 19°/4°. Sol in H_2O.

SYNS: α-CYANOISOPROPYLAMIDE OF THE O,O-DIETHYL-THIOPHOSPHORYL ACETIC ACID □ S-(((1-CYANO-1-METHYL-ETHYL)CARBAMOYL)METHYL) O,O-DIETHYL PHOSPHORO-THIOATE □ S-N-(1-CYANO-1-METHYLETHYL)CARBAMOYL-METHYL DIETHYL PHOSPHOROTHIOLATE □ O,O-DIAETHYL-S-(1-METHYLAETHYL)-CARBAMOYL-METHYL-MONOTHIOPHOSPHAT (GERMAN) □ O,O-DIETHYL-S-((2-CYAAN-2-METHYL-ETHYL)-CARBAMOYL)-METHYL-MONOTHIOFOSFAAT (DUTCH) □ O,O-DIETHYL-S-N-(A-CYANOISOPROPYL)CARBOMOYLMETHYL PHOSPHOROTHIO-ATE □ O,O-DIETIL-S-((2-CIAN-2-METIL-ETIL)-CARBAMOIL)-METIL-MONOTIOFOSFATO (ITALIAN) □ TARTAN □ THIOPHOSPHATE de S-N-(1-CYANO-1-METHYLETHYL)-CARBAMOYLMETHYLE et de O,O-DIETHYLE (FRENCH)

TOXICITY DATA with REFERENCE:

orl-rat LD50:3500 µg/kg FMCHA2 -,D299,80
skn-rat LD50:105 mg/kg BESAAT 15,111,69
orl-mus LD50:12 mg/kg BESAAT 15,111,69
orl-dog LD50:20 mg/kg BESAAT 15,111,69
orl-rbt LD50:8 mg/kg BESAAT 15,111,69
orl-gpg LD50:13 mg/kg 28ZEAL 5,63,76

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

SAFETY PROFILE: Poison by ingestion and skin contact. When heated to decomposition it emits very toxic fumes of CN^-, PO_x, SO_x, and NO_x. See also ESTERS.

PHK750 CAS: 3070-15-3 HR: 3
PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(p-METHYLTHIO)PHENYL ESTER

mf: $C_{11}H_{17}O_3PS_2$ mw: 292.37

PROP: A liquid. D: 1.19 @ 25°/4°, bp: 85° @ 0.01 mm.

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:2500 µg/kg TXAPA9 6,78,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also ESTERS.

PHL750 CAS: 3735-33-9 HR: 3
PHOSPHOROTHIOIC ACID, S-((1,3-DIHYDRO-1,3-DIOXO-2H-ISOINDOL-2-YL)METHYL) O,O-DIMETHYL ESTER

mf: $C_{11}H_{12}NO_5PS$ mw: 301.27

SYNS: ENT 25,707 □ STAUFFER R-1571

TOXICITY DATA with REFERENCE:

orl-rat LD50:50 mg/kg ARSIM* 20,23,66
orl-ckn LD50:46 mg/kg TXAPA9 6,147,64

SAFETY PROFILE: Poison by ingestion. A pesticide. When heated to decomposition it emits very toxic fumes of NO_x, PO_x, and SO_x. See also ESTERS.

PHM000 CAS: 74-60-2 HR: 3
PHOSPHOROTHIOIC ACID, O,O-DIISOPROPYL O-(p-(METHYLSULFINYL)PHENYL) ESTER

mf: $C_{13}H_{21}O_4PS_2$ mw: 336.43

SYNS: BAYER 25142 □ ENT 25,507

TOXICITY DATA with REFERENCE:

orl-rat LDLo:25 mg/kg ARSIM* 20,3,66
orl-ckn LD50:32,600 µg/kg TXAPA9 6,147,64

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

PHM750 CAS: 63980-89-2 HR: 3
PHOSPHOROTHIOIC ACID, O-ETHYL S-(p-TOLYL) ESTER

mf: $C_9H_{13}O_3PS$ mw: 232.25

SYN: BAY 38156

TOXICITY DATA with REFERENCE:

orl-rat LD50:50 mg/kg TXAPA9 21,315,72
orl-bwd LD50:1600 µg/kg TXAPA9 21,315,72

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

PHN000 CAS: 13955-12-9 HR: 3
PHOSPHOROTHIOIC ACID, O-ISOPROPYL O-METHYL O-(p-NITROPHENYL) ESTER

mf: $C_{10}H_{14}NO_5PS$ mw: 291.28

SYNS: BAYER 52553 □ ENT 27,248

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 mg/kg ARSIM* 20,5,66
orl-mus LD50:21 mg/kg JAFCAU 17,243,69

SAFETY PROFILE: Poison by ingestion. A pesticide. When heated to decomposition it emits very toxic fumes of NO_x, PO_x, and SO_x. See also ESTERS.

PHN250 CAS: 1174-83-0 HR: 2
PHOSPHOROTHIOIC ACID, O,O′-(SULFONYLDI-p-PHENYLENE) O,O,O′,O′-TETRAMETHYL ESTER

mf: $C_{16}H_{20}O_8P_2S_3$ mw: 498.48

SYNS: AMERICAN CYANAMID AC 43,913 □ AMERICAN CYANAMID CL-43913 □ AMERICAN CYANAMID E.I. 43,913 □ ENT 27,161 □ O,O'-(SULFONYLDI-1,4-PHENYLENE) O,O,O',O'-TETRAMETHYL DIPHOSPHOROTHIOATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2 g/kg TXAPA9 21,315,72
orl-mus LD50:580 mg/kg ARSIM* 20,1,66

SAFETY PROFILE: Moderately toxic by ingestion. A pesticide. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also ESTERS.

PHN500 CAS: 10235-09-3 HR: 2
PHOSPHOROTHIOIC ACID, O,O,O-TRIS(2-CHLOROETHYL) ESTER

mf: $C_6H_{12}Cl_3O_3PS$ mw: 301.56

PROP: A liquid. D: 1.48 @ 20°/4°, bp: 142−150° @ 9 mm.

SYNS: 2-CHLORO-ETHANOL, PHOSPHOROTHIOATE (3:1) □ PHOSPHOROTHIOIC ACID, O,O,O-TRI(2-CHLOROETHYL) ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62
orl-rat LD50:820 mg/kg AIHAAP 23,95,62
skn-rbt LD50:1800 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin irritant. When heated to decomposition it emits very toxic fumes of Cl^-, PO_x, and SO_x. See also ESTERS.

PHN300 CAS: 102-84-1 HR: 3
PHOSPHOROUS ACID, TRIALLYL ESTER
mf: $C_9H_{15}O_3P$ mw: 202.21
SYNS: ALLYL PHOSPHITE □ PHOSPHOROUS ACID, TRI-2-PROPENYL ESTER □ TRIALLYLOXYPHOSPHINE □ TRIALLYL PHOSPHITE
TOXICITY DATA with REFERENCE:
eye-rbt 50 µL/24H MLD NTIS** OTS0535772
orl-rat LD50:178 mg/kg NTIS** OTS0537044
skn-rbt LD50:1 mL/kg NTIS** OTS0535772
SAFETY PROFILE: A poison by ingestion and skin contact. A mild eye irritant. When heated to decomposition it emits toxic vapors of PNO_x.

PHO000 CAS: 140-08-9 HR: 3
PHOSPHOROUS ACID, TRIS(2-CHLOROETHYL)ESTER
mf: $C_6H_{12}Cl_3O_3P$ mw: 269.50
SYNS: 2-CHLOROETHANOL PHOSPHITE (3:1) □ TRIS(2-CHLOROETHYL)ESTER of PHOSPHORUS ACID □ TRIS(2-CHLOROETHYL)PHOSPHITE
TOXICITY DATA with REFERENCE:
mmo-sat 333 µg/plate ENMUDM 5(Suppl 1),3,83
orl-rat LD50:100 mg/kg ALBRW* #OPB-3,84
ipr-mus LDLo:250 mg/kg CBCCT* 2,185,50
skn-rbt LD50:810 mg/kg ALBRW* #OPB-3,84
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. Mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^- and PO_x.

PHO250 CAS: 63980-61-0 HR: 3
PHOSPHOROUS ACID TRIS(2-FLUOROETHYL-ESTER)
mf: $C_6H_{12}F_3O_3P$ mw: 220.15
SYNS: 2-FLUOROETHANOL, PHOSPHITE (3:1) □ TL 833
TOXICITY DATA with REFERENCE:
ihl-rat LCLo:500 mg/m^3/10M NDRC** No. 9-4-1-9,43
ihl-mus LCLo:1000 mg/m^3/10M NDRC** No. 9-4-1-9,43
ihl-dog LCLo:100 mg/m^3/10M NDRC** No. 9-4-1-9,43
ihl-cat LCLo:100 mg/m^3/10M NDRC** No. 9-4-1-9,43
ihl-rbt LCLo:150 mg/m^3/10M NDRC** No. 9-4-1-9,43
ihl-gpg LCLo:100 mg/m^3/10M NDRC** No. 9-4-1-9,43
SAFETY PROFILE: Poison by inhalation. When heated to decomposition it emits very toxic fumes of F^- and PO_x.

PHO500 CAS: 7723-14-0 HR: 3
PHOSPHORUS (red)
DOT: UN 1338
af: P aw: 30.97
PROP: Reddish-brown powder. Bp: 280° (with ignition), mp: 590° @ 43 atm, d: 2.34, autoign temp: 500°F in air, vap d: 4.77. IDLH 5 mg/m^3.
SYN: PHOSPHORUS, amorphous (DOT)
TOXICITY DATA with REFERENCE:
unr-man LDLo:4412 µg/kg 85DCAI 2,73,70
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.
DFG MAK: 0.1 mg/m^3
DOT CLASSIFICATION: 4.1; Label: Flammable Solid
SAFETY PROFILE: A human poison by an unspecified route. May have white phosphorus as an impurity. Generally less reactive than white phosphorus. Dangerous fire hazard when exposed to heat or by chemical reaction with oxidizers. Can also react with reducing materials. Moderate explosion hazard by chemical reaction or on contact with organic materials. May explode on impact. To fight fire, use water. Explosive reaction with chlorosulfuric acid, hydroiodic acid, magnesium perchlorate, chromyl chloride. Forms sensitive explosive mixtures with metal halogenates (e.g., chlorates, bromates, or iodates of barium, calcium, magnesium, potassium, sodium, zinc), ammonium nitrate, mercury(I) nitrate, silver nitrate, sodium nitrate, potassium permanganate. Violent reaction or ignition with alkalies + heat, fluorine, chlorine, liquid bromine, antimony pentachloride. Reacts with hot alkalies or hydroiodic acid to form phosphine gas, which then ignites. Incompatible with cyanogen iodide, halogen azides, halogen oxides (e.g., chlorine dioxide, dichlorine oxide, oxygen difluoride, trioxygen difluoride), interhalogens (e.g., bromine trifluoride, bromine pentafluoride, chlorine trifluoride, iodine trichloride, iodine pentafluoride), hexalithium disilicide, hydrogen peroxide, metal acetylides (e.g., rubidium acetylide, cesium acetylide, lithium acetylide, sodium acetylide, potassium acetylide), antimony pentachloride, metal oxides (e.g., copper oxide, manganese dioxide, lead oxide, mercury oxide, silver oxide, chromium trioxide), metal peroxides (e.g., lead peroxide, potassium peroxide, sodium peroxide), metals (e.g., beryllium, copper, manganese, thorium, zirconium, cerium, lanthanum, neodymium, praseodymium, osmium, platinum), metal sulfates (e.g., barium sulfate, calcium sulfate), nitric acid, nitrogen halides, nitrosyl fluoride, nitryl fluoride, nonmetal halides (e.g., boron triiodide, seleninyl chloride, sulfuryl chloride, disulfuryl chloride, disulfur dibromide), nonmetal oxides (e.g., nitrogen oxide, dinitogen tetraoxide, dinitrogen pentaoxide, sulfur trioxide, oxygen, peroxyformic acid, potassium nitride, selenium, sodium chlorite, sulfur, sulfuric acid, peroxides, oxidizing materials). When heated to decomposition it emits toxic fumes of PO_x. See also PHOSPHORUS (yellow).
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Elements (ICP), 7300; Phosphorus, 7905.

PHP010 CAS: 7723-14-0 HR: 3
PHOSPHORUS (yellow)
DOT: UN 1381/UN 2447
mf: P_4 mw: 123.88
PROP: Cubic, colorless crystals from ligroin or conc HCl; yellow leaflets from water; colorless to yellow, wax-like solid. Mp: 44.1°, bp: 280°, flash p: spontaneously

flammable in air, d: 1.82, autoign temp: 86°F, vap press: 1 mm @ 76.6°, vap d: 4.42. Mod sol in water.

SYNS: BONIDE BLUE DEATH RAT KILLER ◻ COMMON SENSE COCKROACH and RAT PREPARATIONS ◻ FOSFORO BIANCO (ITALIAN) ◻ GELBER PHOSPHOR (GERMAN) ◻ PHOSPHORE BLANC (FRENCH) ◻ PHOSPHOROUS (WHITE) ◻ PHOSPHORUS WHITE, molten (UN 2447) (DOT) ◻ PHOSPHOROUS YELLOW ◻ PHOSPHORUS, white or yellow, dry or under water or in solution (UN 1381) (DOT) ◻ PHOSPHORUS, YELLOW (ACGIH,OSHA) ◻ RAT-NIP ◻ TETRAFOSFOR (DUTCH) ◻ TETRAPHOSPHOR (GERMAN) ◻ WEISS PHOSPHOR (GERMAN) ◻ WHITE PHOSPHORUS ◻ YELLOW PHOSPHORUS

TOXICITY DATA with REFERENCE:

orl-rat TDLo:11 µg/kg (1-22D preg):REP ZDKAA8 36(5),87,76
orl-wmn LDLo:22 mg/kg:CVS AHJOA2 84,139,72
orl-wmn TDLo:11 mg/kg AJMSA9 209,223,44
orl-hmn LDLo:1400 µg/kg PCOC** -,901,66
orl-wmn LDLo:4600 µg/kg:PUL,GIT,SKN AIMDAP 83,164,49
orl-wmn TDLo:2600 µg/kg NEJMAG 232,247,45
orl-rat LD50:3030 µg/kg NTIS** AD-B011-150
orl-mus LD50:4820 µg/kg NTIS** AD-B011-150
orl-cat LDLo:4 mg/kg YKYUA6 28,329,77
orl-dog LDLo:10 mg/kg YKYUA6 28,329,77
scu-dog LDLo:2 mg/kg AEXPBL 52,173,1905
scu-rbt LDLo:10 mg/kg AEXPBL 64,274,11
orl-dck LDLo:3 mg/kg JAPMA8 39,151,50
orl-uns LDLo:200 mg/kg 28ZEAL 4,321,69

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 mg/m^3

ACGIH TLV: TWA 0.1 mg/m^3

DOT CLASSIFICATION: 4.2; Label: Spontaneously Combustible, Poison

SAFETY PROFILE: Human poison by ingestion. Experimental poison by ingestion and subcutaneous routes. Experimental reproductive effects. Human systemic effects by ingestion: cardiomyopathy, cyanosis, nausea or vomiting, sweating. Toxic quantities have an acute effect on the liver and can cause severe eye damage. Inhalation can cause photophobia with myosis, dilation of the pupils, retinal hemorrhage, congestion of the blood vessels, and, rarely, an optic neuritis. Chronic exposure by inhalation or ingestion can cause anemia, gastrointestinal effects, and brittleness of the long bones, leading to spontaneous fractures. The most common symptom, however, of chronic phosphorus poisoning is necrosis of the jaw (phossy-jaw).

More reactive than red phosphorus. Dangerous fire hazard when exposed to heat, flame, or by chemical reaction with oxidizers. Ignites spontaneously in air. Very reactive. If combustion occurs in a confined space, it will remove the oxygen and cause asphyxiation. Dangerous explosion hazard by chemical reaction with: alkaline hydroxides, NH_4NO_3, SbF_5, $Ba(BrO_3)_2$, Be, Bl_3, $Ca(BrO_3)_2$, $Mg(BrO_3)_2$, $K(BrO_3)$, $NaBrO_3$, $Zn(BrO_3)_2$, Br_2, halogens, BrF_3, BrN_3, (chlorates of Ba, Ca, Mg, K, Na, Zn), (iodates of Ba, Ca, Mg, K, Na, Zn), Ce, Cs, $CsHC_2$, Cs_3N, (charcoal + air), ClO_2, (Cl_2 + heptane), ClO, ClF_3, ClO_3, chlorosulfonic acid, CrO_3, $Cr(OCl)_2$, Cu, NCl, IBr, ICl, IF_5, Fe, La, PbO_2, Li, Li_2C_2, Li_6CS, $Mg(ClO_4)_2$, Mn, HgO, $HgNO_3$, Nd, Ni, nitrates, NBr, NO_2, NBr_3, NCl_3, NOF, FNO_2, O_2, performic acid, Pt, K, KOH, K_3N, $KMnO_4$, K_2O_2, Rb, $RbHC_2$, Se_2Cl_2, $SeOCl_2$, $SeOF_2$, SeF_4, $AgNO_3$, Ag_2O, Na, Na_2C_2, $NaClO_2$, NaOH, Na_2O_2, S, SO_3, H_2SO_4, Th, $VOCl_2$, Zr, peroxyformic acid, chloro sulfuric acid, halogen azides, hexalithium disilicide. Can react vigorously with oxidizing materials. To fight fire, use water. Used in fertilizers, tracer bullets, incendiaries manufacturing, rat poison, and gas analysis. When heated to decomposition it emits highly toxic fumes of PO_x. See also PHOSPHORUS (red).

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Elements (ICP) 7300; Phosphorus 7905.

PHP250 CAS: 37388-50-4 HR: 3
PHOSPHORUS AZIDE DIFLUORIDE

mf: F_2N_3P mw: 110.99

PROP: Colorless, spontaneous, flammable gas at room temp.

SAFETY PROFILE: A very toxic material. Stable when pure. Moisture and heat sensitive. May explode at 25°C. Unstable to light or heat. Ignites spontaneously in air. When heated to decomposition it emits very toxic fumes of PO_x, NO_x, and F^-. See also FLUORIDES, AZIDES, and PHOSPHIDES.

PHP500 CAS: 38115-19-4 HR: 3
PHOSPHORUS AZIDE DIFLUORIDE-BORANE

mf: $F_2N_3P{\bullet}BH_3$ mw: 124.82

PROP: A colorless liquid at room temp.

SAFETY PROFILE: Probably very toxic. A very unstable explosive. When heated to decomposition it emits very toxic fumes of F^-, NO_x, PO_x, and BO_x. See also BORANE, FLUORIDES, AZIDES, and PHOSPHIDES.

PHQ000 HR: D
PHOSPHORUS COMPOUNDS, INORGANIC

SAFETY PROFILE: Variable toxicity. Most inorganic phosphates (except phosphine) have low toxicity, but in large doses they may cause serious disturbances, particularly in calcium metabolism. Red phosphorus and phosphates are relatively harmless. White (yellow) phosphorus is highly toxic by several routes. The phosphorus halides decompose violently with water to form the halide acid and are thus severe irritants. Phosphorus sulfides behave similarly. Metaphosphates may be highly toxic, causing irritation and hemorrhages in the stomach, as well as liver and kidney damage. Phosphorus trichloride is the most used of the phosphorus halide compounds. Phosphoryl chloride is used to synthesize phosphate esters. Common air contaminants. When heated to decomposition it emits highly toxic fumes of PO_x. See also specific compounds.

PHQ250 CAS: 1116-01-4 HR: 3
PHOSPHORUS CYANIDE

mf: C_3N_3P mw: 110

$P(C{\equiv}N)_3$

PROP: White needles. Mp: Sublimes @ 130°.

SYN: PHOSPHORUS TRICYANIDE

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Ignites spontaneously in air. Explodes when heated to 100°C. Violent reaction with water. Upon decomposition it emits toxic fumes of PO_x and CN^-. See also CYANIDE.

PHQ500 CAS: 7783-55-3 HR: 3
PHOSPHORUS FLUORIDE
mf: F_3P mw: 87.97
PROP: Colorless gas. Slowly hydrol in moist air. Mp: −152°, bp: −102°, d: 3.907 g/L.
SYNS: PHOSPHOROUS TRIFLUORIDE □ PHOSPHORUS TRIFLUORIDE □ TL 75 □ TRIFLUOROPHOSPHINE
TOXICITY DATA with REFERENCE:
ihl-mus LCLo:1900 mg/m^3/10M NDRC** NDCrc-132,June,42
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2.5 mg(F)/m^3
ACGIH TLV: TWA 2.5 mg(F)/m^3; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.
NIOSH REL: (Fluorides, Inorganic) TWA 2.5 mg(F)/m^3
SAFETY PROFILE: Moderately toxic by inhalation. A severe eye, skin, and mucous membrane irritant. Explodes on contact with dioxygen difluoride. Violent reaction or ignition with borane, diborane, F_2. hexafluoroisopropylideneamino lithium, O_2. Will react with water or steam to produce toxic and corrosive fumes. Dangerous; when heated to decomposition it emits highly toxic fumes of F^- and PO_x. See also HYDROFLUORIC ACID, FLUORIDES, and PHOSPHORUS PENTAFLUORIDE.

PHQ750 CAS: 12037-82-0 HR: 3
PHOSPHORUS HEPTASULFIDE
DOT: UN 1339
mf: P_4S_7 mw: 348.30
PROP: Light-yellow crystals; light gray powder or fused solid. Mp: 310°, bp: 523°, d: 2.19 @ 17°.
SYN: PHOSPHORUS HEPTASULFIDE, free from yellow or white phosphorus (DOT)
DOT CLASSIFICATION: 4.1; Label: Flammable Solid
SAFETY PROFILE: A poison by ingestion. Flammable when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also SULFIDES and PHOSPHORUS.

PHQ800 CAS: 10025-87-3 HR: 3
PHOSPHORUS OXYCHLORIDE
DOT: UN 1810
mf: Cl_3OP mw: 153.32
PROP: Colorless to sltly yellow, mobile, fuming liquid. Very reactive to nucleophiles. Hydrolyzed rapidly by H_2O at room temp. Mp: 1.2°, bp: 105.1°, d: 1.685 @ 15.5°, vap press: 40 mm @ 27.3°, vap d: 5.3.
SYNS: FOSFOROXYCHLORID □ OXYCHLORID FOSFORECNY □ PHOSPHORUS OXYTRICHLORIDE □ PHOSPHORYL CHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:380 mg/kg TNICS* 13,104,73
ihl-rat LC50:32 ppm/4H 28ZPAK -,17,72
ihl-gpg LC50:53 ppm/4H AIHAAP 25,470,64
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 ppm
ACGIH TLV: TWA 0.1 ppm
DFG MAK: 0.2 ppm (1 mg/m^3)
DOT CLASSIFICATION: 8; Label: Corrosive, Poison
SAFETY PROFILE: Poison by inhalation and ingestion. A corrosive eye, skin, and mucous membrane irritant. Potentially explosive reaction with water evolves hydrogen chloride and phosphine, which then ignites. Explosive reaction with 2,6-dimethylpyridine N-oxide, dimethyl sulfoxide, ferrocene-1,1'-dicarboxylic acid, pyridine N-oxide (above 60°C), sodium + heat. Violent reaction or ignition with BI_3, carbon disulfide, 2,5-dimethyl pyrrole + dimethyl formamide, organic matter, zinc powder. Reacts with water or steam to produce heat and toxic and corrosive fumes. Incompatible with carbon disulfide, N,N-dimethyl-formamide, 2,5-dimethylpyrrole, 2,6-dimethylpyridine N-oxide, dimethylsulfoxide, ferrocene-1,l-dicarboxylic acid, water, zinc. When heated to decomposition it emits highly toxic fumes of Cl^- and PO_x.

PHR000 HR: 2
PHOSPHORUS OXYFLUORIDE
mf: POF_3 mw: 103.98
PROP: Colorless gas. Mp: −68°, bp: −39.8°, d: 4.69 g/L.
SYN: PHOSPHORYL FLUORIDE
SAFETY PROFILE: Hydrolysis of this material and halofluorides, i.e., (phosphoryl chlorodifluoride, phosphoryl dichlorofluoride and the bromo analogs) is vigorous to violent. When heated to decomposition it emits toxic fumes of F^- and PO_x.

PHR250 CAS: 7789-69-7 HR: 3
PHOSPHORUS PENTABROMIDE
mf: PBr_5 mw: 430.56
PROP: Reddish-yellow, rhombohedral, crystalline mass from $PhNO_2$ at room temp. Mp: decomp, bp: decomp @ 106°. Sol in carbon disulfide.
SYNS: PENTABROMO PHOSPHORANE □ PENTABROMO PHOSPHORUS □ PHOSPHORIC BROMIDE
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison. Corrosive to the eyes, skin and mucous membranes. Flammable by chemical reaction. Contact with moisture can cause a violent reaction and evolution of heat. Incompatible with water or steam to produce heat and toxic and corrosive fumes. When heated to decomposition it emits highly toxic fumes of PBr_3 + Br_2. See also BROMIDES.

PHR500 CAS: 10026-13-8 HR: 3
PHOSPHORUS PENTACHLORIDE

DOT: UN 1806
mf: Cl_5P mw: 208.22
PROP: Yellowish-white, fuming, crystalline mass; pungent odor. Mp: (under press) 148° decomp, bp: subl @ 160°, d: 4.65 g/L @ 296°, vap press: 1 mm @ 55.5°. IDLH 70 mg/m^3.
SYNS: FOSFORO(PENTACHLORURO di) (ITALIAN) □ FOSFORPENTACHLORIDE (DUTCH) □ PHOSPHORE-(PENTACHLORURE de) (FRENCH) □ PHOSPHORIC CHLORIDE □ PHOSPHORPENTACHLORID (GERMAN) □ PHOSPHORUS PERCHLORIDE □ PIECIOCHLOREK FOSFORU (POLISH)
TOXICITY DATA with REFERENCE:
orl-rat LD50:660 mg/kg TNICS* 13,104,73
ihl-rat LC50:205 mg/m^3 TNICS* 13,105,73
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 1 mg/m^3
ACGIH TLV: TWA 0.85 mg/m^3
DFG MAK: 1 mg/m^3
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion. A severe eye, skin, and mucous membrane irritant. Corrosive to body tissues. Flammable by chemical reaction. Explosive reaction with chlorine dioxide + chlorine, sodium, urea + heat. Reacts to form explosive products with carbamates, 3'-methyl-2-nitrobenzanilide (product explodes on contact with air). Ignites on contact with fluorine. Reacts violently with moisture, ClO_3, hydroxylamine, magnesium oxide, nitrobenzene, phosphorus(III) oxide, K. To fight fire, use CO_2, dry chemical. Incompatible with aluminum, chlorine dioxide, chlorine, diphosphorus trioxide, fluorine, hydroxylamine, magnesium oxide, 3'-methyl-2-nitrobenzanilide, nitrobenzene, sodium, urea, water. Will react with water or steam to produce heat and toxic and corrosive fumes. Used as a catalyst, chlorinating and dehydrating agent. When heated to decomposition it emits highly toxic fumes of Cl^- and PO_x.

PHR750 CAS: 7647-19-0 HR: 3
PHOSPHORUS PENTAFLUORIDE
DOT: UN 2198
mf: F_5P mw: 125.97
PROP: Colorless gas, fumes strongly in air, thermally stable. Non-electrolyte in HF(l). Interacts weakly with arenes, e.g. naphthalene. Very strong Lewis acid and complexes with NH_3, and amines; those from Et_3N, *i*-$PrNH_2$ are unstable. Mp: −83°, bp: −75°, d: (gas) 5.805 g/L.
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2.5 mg(F)/m^3
ACGIH TLV: TWA 2.5 mg(F)/m^3; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.
DOT CLASSIFICATION: 2.3; Label: Poison Gas
NIOSH REL: (Fluorides, Inorganic) TWA 2.5 mg(F)/m^3
SAFETY PROFILE: A poisonous gas. Violently irritating to skin, eyes, and mucous membranes. Inhalation may cause pulmonary edema. Reacts with water or steam to produce toxic and corrosive fumes. When heated to decomposition it emits highly toxic fumes of F^- and PO_x. See also FLUORIDES.

PHS000 CAS: 1314-80-3 HR: 3
PHOSPHORUS PENTASULFIDE
DOT: UN 1340
mf: P_2S_5 mw: 222.24
PROP: Gray to yellow-green, crystalline, deliquescent mass. Bp: 514°, d: 2.09, autoign temp: 287°F, mp: 286−290°. IDLH 250 mg/m^3.
SYNS: PENTASULFURE de PHOSPHORE (FRENCH) □ PHOSPHORIC SULFIDE □ PHOSPHORUS PENTASULFIDE, free from yellow or white phosphorus (DOT) □ PHOSPHORUS PERSULFIDE □ RCRA WASTE NUMBER U189 □ SIRNIK FOSFORECNY (CZECH) □ SULFUR PHOSPHIDE □ THIOPHOSPHORIC ANHYDRIDE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD 28ZPAK -,16,72
eye-rbt 20 mg/24H SEV 28ZPAK -,16,72
orl-rat LD50:389 mg/kg 28ZPAK -,16,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 1 mg/m^3; STEL 3 mg/m^3
ACGIH TLV: TWA 1 mg/m^3; STEL 3 mg/m^3
DFG MAK: 1 mg/m^3
DOT CLASSIFICATION: 4.3; Label: Dangerous When Wet
SAFETY PROFILE: A poison by ingestion. A severe eye and skin irritant. Readily liberates toxic hydrogen sulfide and phosphorus pentoxide and evolves heat on contact with moisture. Dangerous fire hazard in the form of dust when exposed to heat or flame. Spontaneous heating in the presence of moisture. Moderate explosion hazard in solid form by spontaneous chemical reaction. Reacts with water, steam, or acids to produce toxic and flammable vapors; can react vigorously with oxidizing materials. Incompatible with air, alcohols, water. To fight fire, use CO_2 snow, dry chemical, or sand. Used as an intermediate in manufacturing lubricant additives, insecticides, and fertilizer agents. When heated to decomposition it emits highly toxic fumes of SO_x and PO_x. See also HYDROGEN SULFIDE.

PHS250 CAS: 1314-56-3 HR: 3
PHOSPHORUS PENTOXIDE
DOT: NA 1807
mf: O_5P_2 mw: 141.94
PROP: Deliq crystals. D: 2.30, mp: 340°, subl @ 360°.
SYNS: DIPHOSPHORUS PENTOXIDE □ PHOSPHORUS(V) OXIDE □ PHOSPHORUS PENTAOXIDE
TOXICITY DATA with REFERENCE:
ihl-rat LC50:1217 mg/m^3/1H TOXID9 1,140,81
ihl-mus LC50:271 mg/m^3/1H TOXID9 1,140,81
ihl-rbt LC50:1689 mg/m^3/1H TOXID9 1,140,81
ihl-gpg LC50:61 mg/m^3/1H TOXID9 1,140,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DFG MAK: 1 mg/m^3
DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by inhalation. A corrosive irritant to the eyes, skin, and mucous membranes. With the appropriate conditions it undergoes hazardous reactions with formic acid, hydrogen fluoride, inorganic bases, iodides, metals, methyl hydroperoxide, oxidants (e.g., bromine, pentafluoride, chlorine trifluoride, perchloric acid, oxygen difluoride, hydrogen peroxide), 3-propynol, water. When heated to decomposition it emits toxic fumes of PO_x.

PHS500 CAS: 1314-85-8 HR: 3
PHOSPHORUS SESQUISULFIDE
DOT: UN 1341
mf: P_4S_3 mw: 220.06
PROP: Lemon yellow, crystalline mass or solid. Mp: 172.5°, bp: 407°, d: 2.03, autoign temp: 212°F. Insol in H_2O and org solvs; sol in alkaline solns.
SYNS: PHOSPHORUS SESQUISULFIDE, free from yellow or white phosphorus (DOT) □ PHOSPHORUS (III) SULFIDE (IV) □ SESQUISULFURE de PHOSPHORE (FRENCH) □ TETRAPHOSPHORUS TRISULFIDE □ TRISULFURATED PHOSPHORUS
TOXICITY DATA with REFERENCE:
orl-rbt LDLo:100 mg/kg SAPHAO 15,259,1904
DOT CLASSIFICATION: 4.1; Label: Flammable Solid
SAFETY PROFILE: Poison by ingestion. Flammable by spontaneous ignition. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also SULFIDES and PHOSPHORUS.

PHS750 HR: 2
PHOSPHORUS THIOCYANATE
mf: $P(SCN)_3$ mw: 205.23
PROP: Mp: approx −4°, bp: 265°, d: 1.625 @ 18°.
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Probably toxic. Combustible when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition, or on contact with acids, it emits highly toxic fumes of CN^- and PO_x. See also THIOCYANATES.

PHT000 CAS: 56280-76-3 HR: 3
PHOSPHORUS TRIAZIDE
mf: N_9P mw: 157.04
SAFETY PROFILE: Highly explosive, moisture sensitive. At low temps decomp rapidly but smoothly giving explosive product. May explode at room temperature. When heated to decomposition it emits very toxic fumes of NO_x, PO_x, and PH_3. See also AZIDES and PHOSPHIDES.

PHT250 CAS: 7789-60-8 HR: 3
PHOSPHORUS TRIBROMIDE
DOT: UN 1808
mf: Br_3P mw: 270.70
PROP: Colorless fuming liquid. Mp: −40°, bp: 175.3°, d: 2.852 @ 15°, vap press: 10 mm @ 47.8°, d: 2.87 @ 20°/4°.
SYNS: PHOSPHORUS BROMIDE (DOT) □ TRIBROMO-PHOSPHINE
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: Probably highly toxic. A corrosive irritant to the eyes, skin, and mucous membranes. Will react with water, steam, or acids to produce heat, toxic and corrosive fumes. Violent reaction or ignition with calcium hydroxide + sodium carbonate, phenylpropanol, sulfuric acid, oleum, fluorosulfuric acid, chlorosulfuric acid, 1,1,1-tris(hydroxymethyl)methane, water, potassium, sodium, RuO_4. When heated to decomposition it emits very toxic fumes of Br^- and PO_x. See also PHOSPHIDES and BROMIDES.

PHT275 CAS: 7719-12-2 HR: 3
PHOSPHORUS TRICHLORIDE
DOT: UN 1809
mf: Cl_3P mw: 137.32
PROP: Clear, colorless, fuming liquid. Mp: −111.8°, fp: −93.6°, bp: 76°, d: 1.574 @ 21°, vap press: 100 mm @ 21°, vap d: 4.75. Decomp by water and alc; sol in benzene, chloroform, and ether. IDLH 25 ppm.
SYNS: CHLORIDE of PHOSPHORUS □ FOSFORO(TRI-CLORURO di) (ITALIAN) □ FOSFORTRICHLORIDE (DUTCH) □ PHOSPHORE(TRICHLORURE de) (FRENCH) □ PHOSPHOR-TRICHLORID (GERMAN) □ PHOSPHORUS CHLORIDE □ TROJCHLOREK FOSFORU (POLISH)
TOXICITY DATA with REFERENCE:
orl-rat LD50:18 mg/kg JACTDZ 1,71,90
skn-rbt LDLo:1260 mg/kg JACTDZ 1,71,90
orl-rat LD50:550 mg/kg TNICS* 13,104,73
ihl-rat LC50:104 ppm/4H AIHAAP 25,470,64
ihl-gpg LC50:50 ppm/4H AIHAAP 25,470,64
orl-uns LD50:350 mg/kg GISAAA 39(4),86,74
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.2 ppm; STEL 0.5 ppm
ACGIH TLV: TWA 0.2 ppm; STEL 0.5 ppm
DFG MAK: 0.5 ppm (2.8 mg/m^3)
DOT CLASSIFICATION: 8; Label: Corrosive, Poison
SAFETY PROFILE: Poison by ingestion and inhalation. A corrosive irritant to skin, eyes (at 2 ppm), and mucous membranes. Potentially explosive reaction with chlorobenzene + sodium, dimethyl sulfoxide, molten sodium, chromyl chloride, nitric acid, sodium peroxide, oxygen (above 100°C), tetravinyl lead. Reacts with carboxylic acids (e.g., acetic acid) to form violently unstable products. Violent reaction or ignition with Al, chromium pentafluoride, diallyl phosphite + allyl alcohol, F_2, hexafluoroisopropylideneaminolithium, hydroxyl-amine, iodine chloride, PbO_2, HNO_2, organic matter, potassium, selenium dioxide, sulfur acids (e.g., sulfuric acid, fluorosulfuric acid, oleum). Violent reaction with water evolves hydrogen chloride and diphosphane gas, that then ignite. Incompatible with metals or oxidants. Will react with water, steam, or acids to produce heat and toxic and corrosive fumes; can react with oxidizing materials. To fight fire, use CO_2, dry chemical. Used as a chlorinating agent, catalyst, and chemical intermediate. Dangerous; when heated to decomposition it emits highly toxic fumes of Cl^- and PO_x.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Phosphorus Trichloride, 6402.

PHT500 CAS: 1314-24-5 HR: 3
PHOSPHORUS TRIOXIDE
mf: O_3P_2 mw: 110.0
PROP: Transparent, monoclinic crystals or colorless liquid. D: 2.135 @ 21°/4°, mp: 23.8°, bp: 173.1°. Sol in benzene.
SYN: DIPHOSPHORUS TRIOXIDE
SAFETY PROFILE: A poison. A corrosive irritant to the eyes, skin, and mucous membranes. Melted material readily ignites in air. Incompatible with ammonia, disulfur dichloride, halogens, oxygen, phosphorus pentachloride, sulfur, sulfuric acid, water. When heated to decomposition it emits toxic fumes of PO_x. See also PHOSPHORUS PENTOXIDE.

PHT750 CAS: 12165-69-4 HR: 3
PHOSPHORUS TRISULFIDE
DOT: UN 1343
mf: P_2S_3 mw: 158.12
PROP: Gray-yellow crystals. Mp: 290°, bp: 490°.
SYN: PHOSPHORUS TRISULFIDE, free from yellow or white phosphorus (DOT)
DOT CLASSIFICATION: 4.1; Label: Flammable Solid
SAFETY PROFILE: Flammable solid which can react with oxidizers, water, or steam to emit toxic fumes of H_2S. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also SULFIDES and PHOSPHORUS COMPOUNDS.

PHU000 CAS: 7789-59-5 HR: 3
PHOSPHORYL BROMIDE
DOT: UN 1939/UN 2576
mf: Br_3OP mw: 286.70
PROP: Colorless plates or large flaky crystals. Yellows and decomp at high temps. Slowly decomp by H_2O or H_3PO_3 + HBr. Mp: 56°, bp: 190°, d: 2.882. Sol in org solvs.
SYNS: PHOSPHOROUS OXYBROMIDE □ PHOSPHORYL TRIBROMIDE
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: Poison by ingestion, inhalation, and skin contact. A corrosive irritant to skin, eyes, and mucous membranes. A corrosive material. Reacts with steam, water to produce much heat with toxic fumes. When heated to decomposition it emits very toxic fumes of Br^- and PO_x. See also BROMIDES.

PHU500 CAS: 520-52-5 HR: 3
O-PHOSPHORYL-4-HYDROXY-N,N-DIMETHYLTRYPTAMINE
mf: $C_{12}H_{17}N_2O_4P$ mw: 284.28
PROP: Crystals from MeOH or H_2O. Mp: 220−228°.
SYNS: CY-39 □ 3-(2-(DIMETHYLAMINO)ETHYL)-1H-INDOL-4-OL DIHYDROGEN PHOSPHATE ESTER □ 3-2'-DIMETHYL-AMINOETHYLINDOL-4-PHOSPHATE □ 3-(2-DIMETHYL-AMINOETHYL)INDOL-4-YL DIHYDROGEN PHOSPHATE □ INDOCYBIN □ PSILOCIN PHOSPHATE ESTER □ PSILOCIPIN □ PSILOTSIBIN □ TEONANACATL
TOXICITY DATA with REFERENCE:
cyt-hmn-unr 229 µg/kg HUMAA7 9,281,70
orl-hmn TDLo:60 µg/kg:CNS,GIT,EYE JNMDAN 131,428,60
ipr-hmn TDLo:37 µg/kg:CNS,GIT JNMDAN 131,428,60
ims-hmn TDLo:130 µg/kg:CNS PSDTAP 8,59,67
ivn-rat LD50:280 mg/kg 27ZQAG -,138,72
ipr-mus LD50:420 mg/kg MEIEDD 10,1143,83
ivn-mus LD50:285 mg/kg 27ZQAG -,138,72
ivn-rbt LD50:13 mg/kg 27ZQAG -,138,72
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. Human systemic effects by ingestion and intraperitoneal routes: euphoria, hallucinations, toxic psychosis, muscle weakness, nausea or vomiting, visual field changes. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and PO_x.

PHU750 CAS: 12067-99-1 HR: 2
PHOSPHOTUNGSTIC ACID
PROP: White to sltly yellow crystals or powder. Sol in water, alc, ether.
SYN: TUNGSTOPHOSPHORIC ACID (8CI)
TOXICITY DATA with REFERENCE:
orl-rat LD50:3300 mg/kg TXAPA9 42,417,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
NIOSH REL: (Tungsten) TWA 1 mg(W)/m^3
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of PO_x.

PHV250 CAS: 13366-73-9 HR: D
PHOTODIELDRIN
mf: $C_{12}H_8Cl_6O$ mw: 380.90
SYNS: 1,1,2,3,3A,7A-HEXACHLORO-5,6-EPOXYDECAHYDRO-2,4,7-METHENO-1H-CYCLOPENTA(a)PENTALENE, stereoisomer □ NCI-C00599
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate EMMUEG 11(Suppl 12),1,88
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-17,77.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-. See also DIELDRIN.

PHV275 CAS: 14459-29-1 HR: 3
PHOTODYN
mf: $C_{34}H_{38}N_4O_6$ mw: 598.76
PROP: Deep red or purple crystals from Et_2O/AcOH. Insol in water; sol in alc; sparingly sol in ether, chloroform.
SYNS: HEMATOPORPHYRIN □ HP □ 1,3,5,8-TETRAMETHYL-2,4-BIS(α-HYDROXYETHYL)PROPHINE-6,7-DIPROPIONIC ACID
TOXICITY DATA with REFERENCE:
dnd-nml 100 µmol/L CNREA8 41,3543,81
dni-mus:leu 1 mg/L TUMOAB 67,183,81

ivn-mus LD50:307 mg/kg NYKZAU 57,219,61
SAFETY PROFILE: Poison by intravenous route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

PHV500 CAS: 643-79-8 HR: 3
PHTHALALDEHYDE
mf: $C_8H_6O_2$ mw: 134.14
PROP: Crystals from ligroin. Mp: 55.5−56°.
SYN: PHTALALDEHYDES (FRENCH)
TOXICITY DATA with REFERENCE:
unr-mus LDLo:7 mg/kg COREAF 246,851,58
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by an unspecified route. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

PHV725 CAS: 56611-65-5 HR: 2
PHTHALAZINOL
mf: $C_{14}H_{16}N_2O_4$ mw: 276.32
PROP: Crystals from EtOH (aq). Mp: 173−175°.
SYNS: 7-ETHOXYCARBONYL-4-HYDROXYMETHYL-6,8-DIMETHYL-1(2H)-PHTHALAZINONE □ PHTHALAZINOL (PHOSPHODIESTERASE INHIBITOR)
TOXICITY DATA with REFERENCE:
orl-rat TDLo:8800 mg/kg (female 7-17D post):TER KSRNAM 16,6365,82
orl-rat LD50:1750 mg/kg KSRNAM 16,6247,82
ipr-rat LD50:570 mg/kg KSRNAM 16,6247,82
orl-mus LD50:1850 mg/kg KSRNAM 16,6247,82
ipr-mus LD50:780 mg/kg KSRNAM 16,6247,82
orl-rbt LD50:1020 mg/kg KSRNAM 16,6247,82
ipr-rbt LD50:700 mg/kg KSRNAM 16,6247,82
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PHV750 CAS: 119-39-1 HR: 3
1(2H)PHTHALAZINONE
mf: $C_8H_6N_2O$ mw: 146.16
PROP: Needles from H_2O; prisms by sublimation. Mp: 183−184°, bp: 337°. Sol in H_2O.
SYNS: PHTHALAZINONE □ PHTHALAZONE
TOXICITY DATA with REFERENCE:
orl-rat LD50:370 mg/kg IHFCAY 6,1,67
ivn-mus LD50:180 mg/kg CSLNX* NX#00139
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

PHW250 CAS: 88-99-3 HR: 2
PHTHALIC ACID
mf: $C_8H_6O_4$ mw: 166.14
PROP: Crystals or plates from water. Mp: 210° (decomp), d: 1.59, bp: 155° (decomp). Mod sol in H_2O, EtOH; sol in hot H_2O, alkalies; spar sol in Et_2O.
SYNS: ACIDE PHTHALIQUE (FRENCH) □ o-BENZENEDICARBOXYLIC ACID □ BENZENE-1,2-DICARBOXYLIC ACID □ 1,2-BENZENEDICARBOXYLIC ACID □ o-DICARBOXYBENZENE
TOXICITY DATA with REFERENCE:
unr-rat LD50:1100 mg/kg GISAAA 32(8),12,67
orl-mus LD50:2530 mg/kg JACTDZ 1,711,92
ipr-mus LD50:550 mg/kg PSEBAA 49,471,42
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A skin and mucous membrane irritant. Combustible when heated. In the form of dust (anhydride) it can explode. Mixtures with sodium nitrite explode when heated. Violent reaction with HNO_3. When heated to decomposition it emits acrid smoke and irritating fumes. Used in synthesis of dyes and dyestuffs, in medicines and perfumes.

PHW500 CAS: 25724-58-7 HR: 1
PHTHALIC ACID, DECYL HEXYL ESTER
mf: $C_{22}H_{38}O_4$ mw: 366.60
TOXICITY DATA with REFERENCE:
orl-rat LD50:49 g/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

PHW550 CAS: 2432-90-8 HR: 2
PHTHALIC ACID, DIDODECYL ESTER
mf: $C_{32}H_{54}O_4$ mw: 502.86
SYNS: 1,2-BENZENEDICARBOXYLIC ACID, DIDODECYL ESTER (9CI) □ DIDODECYL PHTHALATE □ DI-n-DODECYL PHTHALATE □ DILAURYL PHTHALATE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:1500 mg/kg 85GMAT -,49,82
orl-mus LDLo:1500 mg/kg 85GMAT -,49,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PHW575 CAS: 26761-40-0 HR: 3
PHTHALIC ACID, DIISODECYL ESTER
mf: $C_{28}H_{46}O_4$ mw: 446.74
SYNS: 1,2-BENZENEDICARBOXYLIC ACID, DIISODECYL ESTER (9CI) □ BIS(ISODECYL)PHTHALATE □ DIDP (PLASTICIZER) □ DIISODECYL PHTHALATE □ PALATINOL Z □ SICOL 184 □ VESTINOL DZ
TOXICITY DATA with REFERENCE:
orl-rat LD50:64 g/kg EVHPAZ 3,131,73
ihl-rat LC :>130 mg/m^3/6H EXXON*
ihl-mus LC :>130 mg/m^3/6H EXXON*
orl-rbt LDLo:22,500 µL/kg EVHPAZ 3,61,73
skn-rbt LD50:>3160 mg/kg EXXON*
ihl-gpg LD :>130 mg/m^3/6H EXXON*
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PHW585 CAS: 28553-12-0 HR: 1
PHTHALIC ACID, DIISONONYL ESTER
mf: $C_{26}H_{42}O_4$ mw: 418.68
SYNS: BAYLECTROL 4200 □ 1,2-BENZENEDICARBOXYLIC ACID, DIISONONYL ESTER □ ISONONYL ALCOHOL, PHTHALATE (2:1) □ JAYFLEX DINP □ DIISONONYL PHTHALATE □ DINP □ DINP2 □ DINP3 □ ENJ 2065 □ PALATINOL N □ PALATINOL DN □ PHTHALISOCIZER DINP □ SANSOCIZER DINP □ VESTINOL NN □ VINYLCIZER 90 □ WITAMOL 150
TOXICITY DATA with REFERENCE:
orl-mus TDLo:201 g/kg/2Y-C:CAR NTIS** OTS0556283-3
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental data reported. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

PHW600 CAS: 605-45-8 HR: 2
PHTHALIC ACID, DIISOPROPYL ESTER
mf: $C_{14}H_{18}O_4$ mw: 250.32
SYNS: 1,2-BENZENEDICARBOXYLIC ACID, BIS(1-METHYLETHYL) ESTER □ DIISOPROPYL PHTHALATE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:1251 mg/kg JPMSAE 56,1446,67
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

PHW750 CAS: 85-44-9 HR: 3
PHTHALIC ANHYDRIDE
DOT: UN 2214
mf: $C_8H_4O_3$ mw: 148.12

$C_6H_4CO{\bullet}OCO$

PROP: White, crystalline needles from alc. Mp: 131.2°, lel: 1.7%, uel: 10.4%, bp: 284°, flash p: 305°F (CC), d: 1.527 @ 4°, autoign temp: 1058°F, vap press: 1 mm @ 96.5°, vap d: 5.10. Very sltly sol in water; sol in alc; sltly sol in ether. IDLH 60 mg/m^3.
SYNS: ANHYDRIDE PHTHALIQUE (FRENCH) □ ANIDRIDE FTALICA (ITALIAN) □ 1,2-BENZENEDICARBOXYLIC ACID ANHYDRIDE □ 1,3-DIOXOPHTHALAN □ ESEN □ FTAAL-ZUURANHYDRIDE (DUTCH) □ FTALOWY BEZWODNIK (POLISH) □ 1,3-ISOBENZOFURANDIONE □ NCI-C03601 □ 1,3-PHTHALANDIONE □ PHTHALIC ACID ANHYDRIDE □ PHTHALSAEUREANHYDRID (GERMAN) □ RCRA WASTE NUMBER U190 □ RETARDER AK □ RETARDER ESEN □ RETARDER PD
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD BIOFX* 13-4/70
eye-rbt 100 mg SEV BIOFX* 13-4/70
orl-rat TDLo:309 g/kg/13W-I TXAPA9 26,253,73
orl-rat TDLo:63,700 mg/kg/1Y-C TXAPA9 26,253,73
orl-rat LD50:4020 mg/kg BIOFX* 13-4/70
orl-mus LD50:1500 mg/kg 85GMAT -,100,82
orl-cat LD50:800 mg/kg 85JCAE -,322,86
orl-gpg LDLo:100 mg/kg 29ZWAE -,410,68
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-159,79. Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 1 ppm
ACGIH TLV: TWA 1 ppm (skin, sensitizer) Not Classifiable as a Human Carcinogen
DFG MAK: 1 mg/m^3 as total dust
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: Poison by ingestion. Experimental teratogenic effects. A corrosive eye, skin, and mucous membrane irritant. A common air contaminant. Combustible when exposed to heat or flame; can react with oxidizing materials. Moderate explosion hazard in the form of dust when exposed to flame. The production of this material has caused many industrial explosions. Mixtures with copper oxide or sodium nitrite explode when heated. Violent reaction with nitric acid + sulfuric acid above 80°C. To fight fire, use CO_2, dry chemical. Used in plasticizers, polyester resins, and alkyd resins, dyes, and drugs. See also ANHYDRIDES.

PHW800 CAS: 87-41-2 HR: 2
PHTHALIDE
mf: $C_8H_6O_2$ mw: 134.14
SYNS: 1(3H)-ISOBENZOFURANONE □ PHTHALANONE □ PHTHALOLACTONE
TOXICITY DATA with REFERENCE:
ipr-rat LD:>500 mg/kg NCNSA6 5,25,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

PHX000 CAS: 85-41-6 HR: 2
PHTHALIMIDE
mf: $C_8H_5NO_2$ mw: 147.14
PROP: White to light-tan powder; needles from H_2O; prisms from AcOH; leaflets by sublimation. Mp: 238°, bp: subl. Sol in water, alc, alkali, hot ether; insol in benzene, pet ether.
SYNS: ISOINDOLE-1,3-DIONE □ 1,3-ISOINDOLEDIONE □ 1,3-ISOINDOLINEDIONE □ o-PHTHALIC IMIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:5000 mg/kg FRPSAX 20,3,65
ipr-mus LD50:1175 mg/kg MEXPAG 11,149,64
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PHX100 CAS: 3343-28-0 HR: D
2-PHTHALIMIDOGLUTARIC ACID ANHYDRIDE

mf: $C_{13}H_9NO_5$ mw: 259.23
SYN: 2H-PYRAN-2,6(3H)-DIONE, DIHYDRO-2-PHTHALIMIDO-
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PHX250 CAS: 732-11-6 HR: 3
PHTHALIMIDOMETHYL-O,O-DIMETHYL PHOSPHORODITHIOATE
mf: $C_{11}H_{12}NO_4PS_2$ mw: 317.33
PROP: A solid. Mp: 72−72.5°.
SYNS: APPA □ DECEMTHION P-6 □ (O,O-DIMETHYL-PHTHALIMIDIOMETHYL-DITHIOPHOSPHATE) □ O,O-DIMETHYL S-(N-PHTHALIMIDOMETHYL) DITHIO-PHOSPHATE □ O,O-DIMETHYL S-PHTHALIMIDO-METHYL PHOSPHORODITHIOATE □ ENT 25,705 □ FTALOPHOS □ IMIDAN □ KEMOLATE □ N-(MERCAPTOMETHYL)-PHTHALIMIDE S-(O,O-DIMETHYL PHOSPHORODITHIOATE) □ PERCOLATE □ PHOSMET □ PHOSPHORODITHIOIC ACID, S-((1,3-DIHYDRO-1,3-DIOXO-ISOINDOL-2-YL)METHYL) O,O-DIMETHYL ESTER □ PHTHALIMIDO-O,O-DIMETHYL PHOSPHORODITHIOATE □ PHTHALOPHOS □ PMP □ PROLATE □ R 1504 □ SMIDAN □ STAUFFER R 1504
TOXICITY DATA with REFERENCE:
mmo-sat 5 mg/plate MUREAV 116,185,83
mma-sat 5 mg/plate MUREAV 116,185,83
orl-hmn LDLo:50 mg/kg SPEADM 74-1,-,74
ihl-hmn TCLo:2 mg/m^3/8H:NOSE,EYE,CNS HYSAAV 34,192,69
orl-rat LD50:92,500 µg/kg GTPZAB 14(12),46,70
ihl-rat LC50:54 mg/m^3/4H 85GMAT -,59,82
skn-rat LD50:1326 mg/kg 85GMAT -,59,82
orl-mus LD50:26 mg/kg HYSAAV 34,192,69
ihl-cat LCLo:65 mg/m^3/4H HYSAAV 34,192,69
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.
SAFETY PROFILE: A human poison by ingestion. Poison experimentally by inhalation and ingestion routes. Moderately toxic by skin contact. Human systemic effects by inhalation: lachrymation, somnolence, and olfaction effects. Experimental teratogenic and reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, PO_x, and SO_x. See also ESTERS.

PHX550 CAS: 626-17-5 HR: 3
m-PHTHALODINITRILE
mf: $C_8H_4N_2$ mw: 128.14
PROP: Colorless crystals. Vap d: 4.42, mp: 161.5−162°, bp: sublimes. Insol in water; sol in benzene, acetone.
SYNS: 1,3-BENZENEDICARBONITRILE □ m-DICYANO-BENZENE □ 1,3-DICYANOBENZENE □ DINITRILE of ISOPHTHALIC ACID □ IPN □ ISOFTALODINITRIL (CZECH) □ ISOPHTHALODINITRILE □ ISOPHTHALONITRILE □ NITRIL KYSELINY ISOFTALOVE (CZECH) □ m-PDN
TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H MLD 28ZPAK -,159,72
orl-rat LD50:>5 g/kg ZAARAM 19,225,69
orl-mus LD50:178 mg/kg JMCMAR 21,906,78
ipr-mus LD50:450 mg/kg ZAARAM 19,225,69
orl-rbt LD50:250 mg/kg ZAARAM 19,225,69
orl-gpg LD50:370 mg/kg 85GMAT -,77,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Cyanide and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 5 mg/m^3
ACGIH TLV: TWA 5 mg/m^3
SAFETY PROFILE: Poison by ingestion. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x and CN^-. See also NITRILES.

PHY000 CAS: 91-15-6 HR: 3
PHTHALONITRILE
mf: $C_8H_4N_2$ mw: 128.14
PROP: Needles in H_2O. Mp: 141°.
SYNS: o-DICYANOBENZENE □ 1,2-DICYANOBENZENE □ PHTHALIC ACID DINITRILE □ PHTHALODINITRILE □ o-PHTHALODINITRILE □ USAF ND-09
TOXICITY DATA with REFERENCE:
orl-rat TDLo:7425 mg/kg/66W-I:ETA VOONAW 18(1),81,72
ipr-rat LD50:62 mg/kg KJMDA6 11,63,65
orl-mus LD50:65 mg/kg INHEAO 4,11,66
ipr-mus LD50:25 mg/kg NTIS** AD277-689
scu-mus LD50:46 mg/kg INHEAO 4,11,66
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of CN^- and NO_x. See also NITRILES.

PHY250 CAS: 66968-12-5 HR: D
N-PHTHALOYL-l-ASPARTIC ACID
mf: $C_{12}H_9NO_6$ mw: 263.22
SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PHY275 CAS: 50906-29-1 HR: 3
PHTHALOYL DIAZIDE
mf: $C_8H_4N_6O_2$ mw: 216.16
SAFETY PROFILE: Explodes when heated. When heated to decomposition it emits toxic fumes of NO_x. See also AZIDES.

PHY400 CAS: 2301-52-2 HR: D
N-PHTHALOYL-l-GLUTAMIC ACID
mf: $C_{13}H_{11}NO_6$ mw: 277.25
SYNS: GLUTARIC ACID, 2-PHTHALIMIDO-, Dl- □ NPLG □ PENTANEDIOIC ACID, 2-(1,3-DIHYDRO-1,3-DIOXO-2H-ISOINDOL-2-YL)-, (S)-(9CI) □ N-PHTHALYLGLUTAMIC ACID □ N-PHTHALYL-d,l-GLUTAMIC ACID □ N-PHTHALYL-dl-GLUTAMINSAURE
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

PHY500 HR: 3

PHTHALOYL PEROXIDE
mf: $C_8H_4O_4$ mw: 164.12
SYN: 2,3-BENZODIOXIN-1,4-DIONE
SAFETY PROFILE: An irritant to skin, eyes, mucous membranes. A powerful oxidizer. An explosive sensitive to impact or heating to 123°C. May be polymeric. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES.

PHY750 CAS: 85-73-4 HR: 2
PHTHALOYLSULFATHIAZOLE
mf: $C_{17}H_{13}N_3O_5S_2$ mw: 403.45
PROP: Crystals with slightly bitter taste. Mp: 272–277° (decomp). Sltly sol in alc; very sltly sol in ether; very sol in NaOH; insol in chloroform, water.
SYNS: (o-CARBOXYBENZOYL)-p-AMINOPHENYLSULFONAMIDO-THIAZOLE □ N^4-(o-CARBOXYBENZOYL)-N'-2-THIAZOLYL-SULFANILAMIDE SULFAPHIHALAZOLE □ PHTHALAZOL □ 2-(N^4)-PHTHALYAMINOBENZENESULFONAMIDE)THIAZOLE □ 2-(N^4-PHTHALYAMINOBENZENESULFONAMIDO)THIAZOLE □ 2-(p-PHTHALYLAMINOBENZENESULFAMIDO)THIAZOLE □ PHTHALYLNORSULFAZOLE □ 2-(N^4-PHTHALYLSULFANILAMIDO)THIAZOLE □ 2-(p-N-PHTHALYLSULFANILYL)AMINOTHIAZOLE □ PHTHALYLSULFATHIAZOLE □ PHTHALYLSULFONAZOLE □ PHTHALYLSULPHATHIAZOLE □ SULFATHALIDINE □ 4'-(2-THIAZOLYLSULFAMOYL)PHTHALANILIC ACID □ 4'-(2-THIAZOLYLSULFAMYL)PHTHALANILIC ACID
TOXICITY DATA with REFERENCE:
ipr-mus LD50:920 mg/kg JPETAB 81,116,44
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

PIA000 CAS: 3982-20-5 HR: 2
N-PHTHALYL-dl-ASPARTIMIDE
mf: $C_{12}H_8N_2O_4$ mw: 244.22
TOXICITY DATA with REFERENCE:
orl-rat LD50:5000 mg/kg JMCMAR 6,464,63
orl-mus LD50:3500 mg/kg JMCMAR 6,464,63
SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PIA100 CAS: 3343-29-1 HR: D
N-PHTHALYL-dl-GLUTAMIN
mf: $C_{13}H_{12}N_2O_5$ mw: 276.27
SYNS: GLUTARAMIC ACID, 2-PHTHALIMIDO-, l- □ NORVALINE, 5-(1,3-DIOXO-2-ISOINDOLINYL)-5-OXO-, dl- □ N-PHTHALYL-d,l-GLUTAMINE
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

PIA250 CAS: 69352-40-5 HR: D
N-PHTHALYLISOGLUTAMINE
mf: $C_{13}H_{12}N_2O_5$ mw: 276.27
SYNS: 4-CARBAMOYL-4-PHTHALYLBUTYRIC ACID □ 4-PHTHALYLGLUTARAMIC ACID
SAFETY PROFILE: An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

PIA300 CAS: 63166-73-4 HR: 3
PHYLANTHOSIDE
mf: $C_{40}H_{52}O_{17}$ mw: 804.92
SYNS: β-d-GLUCOPYRANOSE, 2-o-(3-o-ACETYL-6-DEOXY-β-d-GLUCOPYRANOSYL)-6-DEOXY-, 3-ACETATE 1-(DECAHYDRO-5"-METHYL-4"-((1-OXO-3-PHENYL-2-PROPENYL)OXY)DISPIRO-(OXIRANE-2,3'(2'H)-BENZOFURAN)-2',2"-(2H)PYRAN-6'-CARBOXYLATE), (2'S-(2'-α(4"R*(E),5"S*),3'-β, 3'A-α,6'-α,7'A-α))- □ NSC-328426
TOXICITY DATA with REFERENCE:
ivn-dog LDLo:500 μg/kg NTIS** PB88-131636
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

PIA375 HR: 3
PHYSALIA PHYSALIS TOXIN
SYNS: PORTUGUESE MAN-OF-WAR TOXIN □ P. PHYSALIS TOXIN □ TOXIN, NEMATOCYST, PHYSALIA PHYSALIS
TOXICITY DATA with REFERENCE:
ivn-rat LD50:100 μg/kg TOXIA6 4,199,66
par-frg LDLo:15 g/kg 23EIAT 3,395,71
ipr-mus LDLo:37 mg/kg BIBUBX 115,219,58
scu-mus LDLo:2100 mg/kg BIBUBX 115,219,58
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by subcutaneous route.

PIA400 CAS: 72497-31-5 HR: 3
PHYSALIN-X
TOXICITY DATA with REFERENCE:
orl-mus LD50:2 mg/kg IJEBA6 17,690,79
ipr-mus LD50:1 g/kg IJEBA6 17,690,79
SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal route. Experimental reproductive effects.

PIA500 CAS: 57-47-6 HR: 3
PHYSOSTIGMINE
mf: $C_{15}H_{21}N_3O_2$ mw: 275.39
PROP: A solid. Mp: 86–87°.
SYNS: ERSERINE □ ESERINE □ ESEROLEIN, METHYL-CARBAMATE (ESTER) □ METHYL-CARBAMIC ACID, ESTER with ESEROLINE □ PHYSOSTOL
TOXICITY DATA with REFERENCE:
orl-man TDLo:12 mg/kg/60D-I NEURAI 37,345,87
unr-man LDLo:882 μg/kg 85DCAI 2,73,70
orl-wmn TDLo:40 μg/kg/5D-I:BPR AJPSAO 143,910,85
orl-wmn TDLo:3920 μg/kg/2W-I NEURAI 37,345,87
orl-hmn TDLo:20 mg/kg:CNS,GIT,PUL 34ZIAG -,475,69
ipr-mus LD50:644 μg/kg FATOAO 43,717,80
scu-mus LD50:740 μg/kg:PNS JPETAB 123,121,58
ivn-mus LD50:400 μg/kg JPETAB 58,337,36
scu-dog LDLo:1138 μg/kg FEPRA7 5,184,46
orl-rbt LD50:11,200 μg/kg DCTODJ 3,319,80
ims-rbt LD50:2200 μg/kg DCTODJ 3,319,80
ipr-rat LD50:2 mg/kg ARZNAD 22,1926,72

ivn-rbt LDLo:500 µg/kg JPETAB 43,413,31
scu-pgn LDLo:450 µg/kg HBAMAK 4,1289,35
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: A human poison by an unspecified route. Poison experimentally by ingestion, subcutaneous, intramuscular, intravenous, and intraperitoneal routes. Human systemic effects by ingestion: nausea, dyspnea, coma, blood pressure elevation, flaccid paralysis without anesthesia, muscle weakness. Normally administered by injection. Poisoning can occur as a result of a mistake in dosage or due to hypersensitivity of the patient within 5 to 25 minutes after administration. Death usually results from respiratory paralysis. Experimental reproductive effects. Combustible when exposed to heat or flame. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

PIA750 CAS: 57-64-7 HR: 3
PHYSOSTIGMINE SALICYLATE (1:1)
mf: $C_{15}H_{21}N_3O_2 \bullet C_7H_6O_3$ mw: 413.52
PROP: A solid. Mp: 184−186°.
SYNS: ESERINE SALICYLATE □ PHYSOSTOL SALICYLATE □ SALICYLIC ACID with PHYSOSTIGMINE (1:1) □ TL-1380
TOXICITY DATA with REFERENCE:
ivn-man TDLo:14 µg/kg:CVS,GIT JCLPDE 46,446,85
scu-rat LD50:2 mg/kg TXAPA9 25,569,73
ims-rat LD50:1280 µg/kg DCTODJ 7,507,84
orl-mus LD50:2500 µg/kg AIPTAK 81,726,50
ipr-mus LD50:640 µg/kg TXAPA9 28,227,74
scu-mus LD50:800 µg/kg JPPMAB 34,603,82
ivn-mus LD50:310 µg/kg TXAPA9 20,474,71
scu-dog LDLo:1200 µg/kg NTIS** PB158-508
scu-cat LDLo:800 µg/kg NTIS** PB158-508
scu-rbt LDLo:2 mg/kg AEXPBL 53,313,05
ims-rbt LD50:1570 µg/kg AIPTAK 81,726,50
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion, subcutaneous, intramuscular, intravenous, and intraperitoneal routes. Human systemic effects: arrhythmias, nausea or vomiting. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also PHYSOSTIGMINE.

PIB000 CAS: 64-47-1 HR: 3
PHYSOSTIGMINE SULFATE
mf: $C_{30}H_{42}N_6O_4S$ mw: 646.84
PROP: Scales. Mp: 140°.
SYNS: ESERINE SULFATE □ ESERINE SULPHATE □ 1,2,3,3a,8,8a-HEXAHYDRO-5-HYDROXY-1,3a,8-TRIMETHYL-PYRROLO(2,3-b)INCOLE METHYLCARBAMATE (ester), (3aS-cis)-, SULFATE (2:1) □ PHYSOSTIGMINE SO4 □ PHYSOSTIGMINE SULFATE (2:1)
TOXICITY DATA with REFERENCE:
scu-man TDLo:191 ng/kg:CNS,GIT AEXPBL 53,313,05
ipr-rat LD50:1621 µg/kg FAATDF 4(2,Pt 2),S195,84
orl-mus LD50:1680 mg/kg 27ZQAG -,137,72
ipr-mus LD50:510 mg/kg ATXKA8 29,39,72
scu-mus LD50:860 µg/kg 27ZQAG -,137,72
ivn-mus LD50:178 µg/kg CSLNX* NX#03167
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. Human systemic effects by subcutaneous route: hallucinations or distorted perceptions; nausea or vomiting, and other gastrointestinal changes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and SO_x. See also PHYSOSTIGMINE.

PIB250 CAS: 83-86-3 HR: 3
PHYTIC ACID
mf: $C_6H_{18}O_{24}P_6$ mw: 660.06
PROP: Straw-colored syrup.
SYNS: ALKOVERT □ FYTIC ACID □ HEXAKIS(DI-HYDROGEN PHOSPHATE) MYO-INOSITOL □ INOSITHEXA-PHOSPHORSAEURE (GERMAN) □ INOSITOL HEXAPHOS-PHATE □ MYO-INOSISTOL HEXAKISPHOSPHATE □ MYO-INOSITOL HEXAPHOSPHATE □ SAEURE DES PHYTINS (GERMAN)
TOXICITY DATA with REFERENCE:
ivn-mus LD50:500 mg/kg TXCYAC 22,279,82
ivn-rbt LDLo:45 mg/kg HBAMAK 4,1289,35
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of PO_x.

PIB300 CAS: 76050-42-5 HR: 2
PHYTOGEL BASE
SYNS: ACRITAMER 940 □ CARBOMER 940 □ CARBOPOL 940 □ CARBOPOL CV 940 □ SYNTHALEN K
TOXICITY DATA with REFERENCE:
orl-rat LD :>625 mg/kg GRCSB* GC-36,55,60
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

PIB575 CAS: 9008-97-3 HR: D
PHYTOHEMAGGLUTININ
SYNS: FITOHEMAGLUTYNINA (POLISH) □ PHA □ PHYTOHAEMAGGLUTININ □ PHYTOHEMAGLUTININS □ PIGEON PEA PHYTOHEMAGGLUTININ
TOXICITY DATA with REFERENCE:
dns-mus:lym 10 mg/L PLMEAA 51,91,85
cyt-mus:oth 40 µL/plate FOMOAJ 33, 191,74
SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. Mutation data reported.

PIB600 CAS: 150-86-7 HR: 1
PHYTOL
mf: $C_{20}H_{40}O$ mw: 296.60
PROP: Oily liquid. Bp: 203−204°, d: 0.859. Insol in water; sol in org solvs.
SYNS: 2-HEXADECEN-1-OL, 3,7,11,15-TETRAMETHYL-, (R-(R*,R*-(E)))-(9CI) □ trans-PHYTOL □ 3,7,11,15-TETRAMETHYL-2-HEXADECEN-1-OL
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTOD7 20,811,82

orl-rat LD50:>5 g/kg FCTOD7 20,811,82
skn-rbt LD50:>5 g/kg FCTOD7 20,811,82
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.

PIB650 CAS: 126463-66-9 HR: 3
PIBUTIDINE HYDROCHLORIDE
mf: $C_{19}H_{24}N_4O_3$•ClH mw: 392.93
SYNS: 3-CYCLOBUTENE-1,2-DIONE, 3-AMINO-4-((4-((4-(1-PIPERIDINYLMETHYL)-2-PYRIDINYL)OXY)-2-BUTENYL) AMINO)-, (Z)-, MONOHYDROCHLORIDE □ IT 066
TOXICITY DATA with REFERENCE:
orl-rat LDLo:5 g/kg YACHDS 27,315,1999
ivn-rat LD50:17,500 µg/kg YACHDS 27,315,1999
orl-mus LDLo:5 g/kg YACHDS 27,315,1999
ivn-mus LD50:17,500 µg/kg YACHDS 27,315,1999
orl-dog LD50:>2 g/kg YACHDS 27,331,1999
SAFETY PROFILE: A poison by intravenous route. Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl^-.

PIB700 CAS: 79201-85-7 HR: 3
PICENADOL
mf: $C_{16}H_{25}NO$•ClH mw: 283.88
SYNS: (±)-3-(1,3-DIMETHYL-4-PROPYL-4-PIPERIDINYL)-PHENOL HYDROCHLORIDE □ trans-(±)-3-(1,3-α-DIMETHYL-4-α-PROPYL-4-β-PIPERIDINYL)PHENOL HYDROCHLORIDE □ LY150720
TOXICITY DATA with REFERENCE:
orl-rat LD50:887 mg/kg TOLED5 18(Suppl 1),143,83
scu-rat LD50:333 mg/kg TOLED5 18(Suppl 1),143,83
ivn-rat LD50:67 mg/kg TOLED5 18(Suppl 1),143,83
orl-mus LD50:305 mg/kg TOLED5 18(Suppl 1),143,83
scu-mus LD50:172 mg/kg TOLED5 18(Suppl 1),143,83
ivn-mus LD50:65 mg/kg TOLED5 18(Suppl 1),143,83
ims-dog LD50:80 mg/kg TOLED5 18(Suppl 1),143,83
ims-cat LD50:40 mg/kg TOLED5 18(Suppl 1),143,83
SAFETY PROFILE: Poison by ingestion, subcutaneous, intramuscular, and intravenous routes. A centrally acting analgesic. When heated to decomposition it emits toxic fumes of NO_x and HCl.

PIB750 CAS: 213-46-7 HR: 2
PICENE
mf: $C_{22}H_{14}$ mw: 278.36
PROP: Leaflets from Py or xylene. Mp: 367−369°, bp: 520°. Insol in water; very sltly sol in alc, ether.
SYNS: 3,4-BENZCHRYSENE □ BENZO(a)CHRYSENE □ β,β-BINAPHTHYLENEETHENE □ DIBENZO(a,i)PHENANTHRENE □ 1,2:7,8-DIBENZOPHENANTHRENE
TOXICITY DATA with REFERENCE:
skn-mus TDLo:15,142 µg/kg/112W-I:NEO CRNGDP 11,1721,90
scu-mus TDLo:445 µg/kg:CAR CRNGDP 11,1721,90
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

PIB900 CAS: 1918-02-1 HR: 2
PICLORAM
mf: $C_6H_3Cl_3N_2O_2$ mw: 241.46
PROP: Crystals or powder. Mp: 218° (decomp). Very spar sol in H_2O; spar sol in org solvs.
SYNS: AMDON GRAZON □ 4-AMINO-3,5,6-TRICHLORO-PICOLINIC ACID □ 4-AMINO-3,5,6-TRICHLORO-2-PICOLINIC ACID □ 4-AMINO-3,5,6-TRICHLORPICOLINSAEURE (GERMAN) □ ATCP □ BOROLIN □ CHLORAMP (RUSSIAN) □ K-PIN □ NCI-C00237 □ TORDON □ TORDON 10K □ TORDON 22K □ TORDON 101 MIXTURE □ 3,5,6-TRICHLORO-4-AMINOPICOLINIC ACID
TOXICITY DATA with REFERENCE:
mmo-smc 100 mg/L TGANAK 18,455,84
orl-rat LD50:2898 mg/kg GNAMAP 15,38,76
orl-mus LD50:1061 mg/kg GNAMAP 15,38,76
orl-rbt LD50:2000 mg/kg GUCHAZ 6,414,73
orl-gpg LD50:1922 mg/kg GNAMAP 15,38,76
orl-ckn LD50:4000 mg/kg PCOC** -,1144,66
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse NCITR* NCI-CG-TR-23,78; Clear Evidence: rat NCITR* NCI-CG-TR-23,78.
OSHA PEL: TWA Total Dust: 10 mg/m^3; Respirable Fraction: 5 mg/m^3
ACGIH TLV: TWA 10 mg/m^3; Not Classifiable as a Human Carcinogen
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. An experimental teratogen. Mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

PIB910 CAS: 1772-01-6 HR: 2
PICOLINAMIDOXIME
mf: $C_6H_7N_3O$ mw: 137.16
SYNS: PICOLINAMIDE OXIME □ PICOLINIC ACID AMIDOXIME □ PYRIDINE-2-AMIDOXIME □ 2-PYRIDINECARBOXIMIDAMIDE, N-HYDROXY- □ PYRIDINE-2-METHANAMIDOXIME □ 2-PYRIDYLAMIDOXIME □ RA 7
TOXICITY DATA with REFERENCE:
ipr-mus LD50:254 mg/kg AITEAT 25,839,77
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

PIB920 CAS: 108-99-6 HR: 3
3-PICOLINE
mf: C_6H_7N mw: 93.14
PROP: Colorless liquid; sweetish, not unpleasant odor. D: (15°/4°) 0.9613, bp: 143−144°, n: (24/D) 1.5043. Misc with water, alc, ether, most solvs.
SYNS: 3-METHYLPYRIDINE □ β-PICOLINE □ m-PICOLINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:400 mg/kg 85JCAE -,841,86
ihl-rat LCLo:8700 ppm/2H 85JCAE -,841,86
ipr-rat LD50:150 mg/kg FAATDF 5,920,85
ipr-mus LD50:596 mg/kg JPETAB 88,82,46
ivn-mus LD50:298 mg/kg JPETAB 88,82,46
orl-qal LD50:1 g/kg AECTCV 12,355,83

orl-bwd LD50:1 g/kg AECTCV 12,355,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. Flammable when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits toxic fumes of NO_x.

PIB925 CAS: 3608-75-1 HR: 3
PICOLINE-2-ALDEHYDE THIOSEMI-CARBAZONE

mf: $C_7H_8N_4S$ mw: 180.25

SYNS: 2-FORMYLPYRIDINE THIOSEMICARBAZONE □ NSC-729 □ 2-PYRIDINECARBOXALDEHYDE THIOSEMICARBAZONE □ PYRIDINE-2-CARBOXALDEHYDE THIOSEMICARBAZONE

TOXICITY DATA with REFERENCE:

oms-esc 2500 µmol/L BCPCA6 21,3213,72
orl-mus LD50:70 mg/kg JMCMAR 8,676,65
ipr-mus LD50:30,910 µg/kg NCISP* JAN86

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and SO_x. See also ALDEHYDES.

PIB930 CAS: 98-98-6 HR: 3
PICOLINIC ACID

mf: $C_6H_5NO_2$ mw: 123.12

PROP: Needles from water, alc or benzene. Mp: 134−136°, sublimes. Very sol in glacial acetic acid; practically insol in ether, chloroform, carbon disulfide; sol in water.

SYNS: ACIDE PICOLIQUE (FRENCH) □ 2-CARBOSYPYRIDINE □ o-PYRIDINECARBOXYLIC ACID □ α-PYRIDINECARBOXYLIC ACID □ 2-PYRIDINECARBOXYLIC ACID (9CI) □ PYRIDINE-CARBOXYLIQUE-2 (FRENCH)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:360 mg/kg CPBTAL 17,2377,69
ivn-mus LD50:487 mg/kg THERAP 23,1343,68
orl-qal LD50:562 mg/kg AECTCV 12,355,83
orl-bwd LD50:178 mg/kg AECTCV 12,355,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

PIC000 CAS: 6959-47-3 HR: 3
2-PICOLYL CHLORIDE HYDROCHLORIDE

mf: $C_6H_6ClN{\bullet}ClH$ mw: 164.04

PROP: A solid. Mp: 128−129°.

SYNS: 2-(CHLOROMETHYL) PYRIDINE HYDROCHLORIDE □ NCI-C03907 □ 2-PYRIDYLMETHYLCHLORIDE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

mmo-sat 1 mg/plate NTPTB* APR 82
mma-sat 1 mg/plate NTPTB* APR 82
orl-rat LD50:316 mg/kg NCILB* NIH-NCI-E-C-72-3252
orl-mus LD50:316 mg/kg NCILB* NIH-NCI-E-C-72-3252

CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (gavage); No Evidence: mouse, rat NCITR* NCI-CG-TR-178,79.

SAFETY PROFILE: Poison by ingestion. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-. Used as a chemical intermediate.

PIC100 CAS: 24656-22-2 HR: 3
PICOPERINE TRIPALMITATE

mf: $C_{19}H_{25}N_3{\bullet}C_{48}H_{96}O_6$ mw: 1067.91

PROP: Crystals or powder. Mp: 57−60°.

SYNS: COBEN P □ N-(2-PICOLYL)-N-PHENYL-N-(2-PIPERIDINOETHYL)AMINE TRIPALMITATE □ N-(2-PIPERIDINOETHYL)-N-(2-PYRIDYLMETHYL)ANILINE TRIPALMITATE □ 1-((2-N-(2-PYRIDYLMETHYL)ANILINO)ETHYL)PIPERIDINE TRIPALMITATE □ N-(2-PYRIDYLMETHYL)-N-PHENYL-N-2-(PIPERIDINOETHYL)AMINE TRIPALMITATE □ TAT-3 TRIPALMITATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3100 mg/kg KSRNAM 4,447,70
ipr-rat LD50:299 mg/kg KSRNAM 4,447,70
orl-mus LD50:374 mg/kg OYYAA2 4,171,70
ipr-mus LD50:275 mg/kg KSRNAM 4,447,70
orl-dog LDLo:500 mg/kg ARZNAD 19,1916,69

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

PIC250 CAS: 466-24-0 HR: 3
PICRACONITINE

mf: $C_{32}H_{45}NO_{10}$ mw: 603.78

PROP: Amorphous solid. Mp: 130°.

SYNS: BENZACONINE □ BENZOYLACONINE □ ISACONITINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:27 mg/kg ARZNAD 5,324,55
ivn-mus LD50:10,100 µg/kg YHHPAL 19,641,84
ivn-cat LD50:24 mg/kg ARZNAD 5,324,55
ivn-gpg LD50:24 mg/kg ARZNAD 5,324,55

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

PIC500 CAS: 831-52-7 HR: 3
PICRAMIC ACID, SODIUM SALT

DOT: UN 0235/UN 1349

mf: $C_6H_4N_3O_5{\bullet}Na$ mw: 221.12

PROP: Yellow, water-sol crystals.

SYNS: SODIUM PICRAMATE, dry or wetted with <20% water, by weight (UN 0235) (DOT) □ SODIUM PICRAMATE, wetted with not <20% water, by weight (UN 1349) (DOT)

TOXICITY DATA with REFERENCE:

orl-mus LD50:378 mg/kg JACTDZ 11,447,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: EXPLOSIVE 1.3C; Label: EXPLOSIVE 1.3C (UN 0235); DOT Class: 4.1; Label: Flammable Solid (UN 1349)

SAFETY PROFILE: Poison by ingestion. A flammable solid and explosive. When heated to decomposition it

emits toxic fumes of NO_x and Na_2O. See also PICRAMIC ACID.

PIC750 CAS: 63868-82-6 HR: 3
PICRAMIC ACID, ZIRCONIUM SALT (WET)
DOT: UN 0236/UN 1517
mf: $C_6H_5N_3O_5$•1/4Zr mw: 221.95
PROP: IDLH 50 mg/m^3 (as Zr).
SYNS: ZIRCONIUM PICRAMATE, dry or wetted with <20% water, by weight (UN 0236) (DOT) ☐ ZIRCONIUM PICRAMATE, wetted with not <20% water, by weight (UN 1517) (DOT)
OSHA PEL: TWA 5 mg(Zr)/m^3; STEL 10 mg(Zr)/m^3
ACGIH TLV: TWA 5 mg(Zr)/m^3; STEL 10 mg(Zr)/m^3; Not Classifiable as a Human Carcinogen
DFG MAK: 1 mg(Zr)/m^3
DOT CLASSIFICATION: EXPLOSIVE 1.3C; Label: EXPLOSIVE 1.3C (UN 0236); DOT Class: 4.1; Label: Flammable Solid (UN 1517)
SAFETY PROFILE: Flammable 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 ZIRCONIUM COMPOUNDS and PICRAMIC ACID.

PIC800 CAS: 489-98-5 HR: 3
PICRAMIDE
DOT: UN 0153
mf: $C_6H_4N_4O_6$ mw: 228.14
SYNS: ANILINE, 2,4,6-TRINITRO- ☐ PICRAMIDE (DOT) ☐ TRINITROANILINE (DOT)
DOT CLASSIFICATION: Explosive 1.1D; Label: Explosive 1.1D
SAFETY PROFILE: An explosive. When heated to decomposition it emits toxic vapors of NO_x.

PIC899 HR: 3
PICRATES
PROP: Salts of picric acid. The general chemical structure is $(O_2N)_3C_6H_2O^-$.
SAFETY PROFILE: Most are poisons. Extremely explosive; sensitive to heat, friction, and impact. Picrates should not be heated above 210°C. The nickel salt is particularly dangerous. When heated to decomposition it emits toxic fumes of NO_x. See also PICRIC ACID, NITRO COMPOUNDS OF AROMATIC HYDROCARBONS and specific compounds.

PID000 CAS: 88-89-1 HR: 3
PICRIC ACID
DOT: UN 0154/UN 1344
mf: $C_6H_3N_3O_7$ mw: 229.12
PROP: Colorless crystals from ligroin or conc HCl; yellow leaflets from water; or yellow liquid; very bitter. Mp: 121.8°, bp: explodes >300°, flash p: 302°F, d: 1.763, autoign temp: 572°F, vap d: 7.90. Mod sol in water. IDLH 75 mg/m^3.
SYNS: ACIDE PICRIQUE (FRENCH) ☐ ACIDO PICRICO (ITALIAN) ☐ CARBAZOTIC ACID ☐ C.I. 10305 ☐ 2-HYDROXY-1,3,5-TRINITROBENZENE ☐ KYSELINA PIKROVA ☐ MELINITE ☐ NITROXANTHIC ACID ☐ PHENOL, 2,4,6-TRINITRO- ☐ PICRIC ACID (ACGIH,OSHA) ☐ PICRIC ACID, dry or wetted with <30% water, by weight (UN 0154) (DOT) ☐ PICRIC ACID, wet, with not <10% water (NA 1344) (DOT) ☐ PICRONITRIC ACID ☐ PIKRINEZUUR (DUTCH) ☐ PIKRINSAEURE (GERMAN) ☐ PIKRYNOWY KWAS (POLISH) ☐ 2,4,6-TRINITROFENOL (DUTCH) ☐ 2,4,6-TRINITROFENOLO (ITALIAN) ☐ TRINITROPHENOL (UN 0154) (DOT) ☐ TRINITROPHENOL, wetted with not <30% water, by weight (UN 1344) (DOT) ☐ 1,3,5-TRINITROPHENOL ☐ 2,4,6-TRINITROPHENYL (OSHA)
TOXICITY DATA with REFERENCE:
mma-sat 5 µmol/plate MUREAV 90,91,81
sln-dmg-par 1500 ppm ENMUDM 7,677,85
orl-rat LD50:200 mg/kg JTEHD6 37,313,92
scu-dog LDLo:60 mg/kg HBAMAK 4,1289,35
orl-cat LDLo:250 mg/kg HBAMAK 4,1289,35
unr-dog LDLo:60 mg/kg XPHBAO 271,151,41
orl-rbt LDLo:120 mg/kg XPHBAO 271,151,41
orl-gpg LDLo:100 mg/kg HBAMAK 4,1289,35
scu-pgn LDLo:200 mg/kg HBAMAK 4,1289,35
CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 0.1 mg/m^3 (skin)
ACGIH TLV: TWA 0.1 mg/m^3
DFG MAK: 0.1 mg/m^3
DOT CLASSIFICATION: 4.1; Label: Flammable Solid (NA 1344, UN 1344)
SAFETY PROFILE: Poison by ingestion and subcutaneous routes. Mutation data reported. An irritant and an allergen. Skin contact can cause local and systemic allergic reactions. Flammable solid when exposed to heat or flame; can react vigorously with oxidizing materials. Very unstable. A severe explosion hazard when shocked or exposed to heat. It forms salts easily, and many of its salts, known as picrates, are more sensitive explosives than picric acid. It forms unstable salts with concrete, NH_3, bases, and metals (e.g., copper, lead, mercury, and zinc). Many of these are heat-, friction-, or impact-sensitive. Mixtures with uranium perchlorate are extremely powerful explosives. Mixtures with aluminum and water ignite after a delay period. Can react vigorously with reducing materials. Used in synthesis of dyes, as a drug, to manufacture explosives and matches, to etch copper, and to make colored glass. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS and EXPLOSIVES, HIGH.

PID100 CAS: 25721-38-4 HR: 3
PICRIC ACID, LEAD SALT
mf: $C_6H_3N_3O_7$•xPb mw: 1679.45
SYNS: LEAD PICRATE ☐ LEAD PICRATE (dry) (DOT)
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: An unstable substance forbidden from transport. When heated to decomposition it emits toxic vapors of NO_x and Pb.

PID200 CAS: 146-84-9 HR: 3
PICRIC ACID, SILVER(1+) SALT
DOT: UN 1347
mf: $C_6H_2N_3O_7$•Ag mw: 335.98
SYNS: PICRAGOL ☐ PICROTOL ☐ SILVER PICRATE (dry) (DOT) ☐ SILVER PICRATE, wetted with not <30% water, by weight (UN1347) (DOT)