T

TAA100 CAS: 93-76-5 HR: 3
2,4,5-T
mf: $C_8H_5Cl_3O_3$ mw: 255.48
PROP: Crystals; light-tan solid. Mp: 151−153°. Usually has 2,3,7,8-TCDD as a minor component. Spar sol in H_2O and EtOH. IDLH 250 mg/m^3.
SYNS: ACIDE 2,4,5-TRICHLORO PHENOXYACETIQUE (FRENCH) □ ACIDO (2,4,5-TRICLORO-FENOSSI)-ACETICO (ITALIAN) □ AMINE 2,4,5-T FOR RICE □ BCF-BUSHKILLER □ BRUSH-OFF 445 MLD VOLATILE BRUSH KILLER □ BRUSH RHAP □ BRUSHTOX □ DACAMINE □ DEBROUSSAILLANT CONCENTRE □ DECAMINE 4T □ DED-WEED BRUSH KILLER □ DED-WEED LV-6 BRUSH KIL and T-5 BRUSH KIL □ DINOXOL □ ENVERT-T □ ESTERCIDE T-2 and T-245 □ ESTERON 245 BE □ ESTERON BRUSH KILLER □ FARMCO FENCE RIDER □ FORRON □ FORST U 46 □ FORTEX □ FRUITONE A □ INVERTON 245 □ LINE RIDER □ PHORTOX □ RCRA WASTE NUMBER U232 □ REDDON □ REDDOX □ SPONTOX □ SUPER D WEEDONE □ TIPPON □ TORMONA □ TRANSAMINE □ TRIBUTON □ (2,4,5-TRICHLOOR-FENOXY)-AZIJNZUUR (DUTCH) □ 2,4,5-TRICHLOROPHENOXYACETIC ACID □ (2,4,5-TRICHLOR-PHENOXY)-ESSIGSAEURE (GERMAN) □ TRINOXOL □ TRIOXON □ TRIOXONE □ U 46 □ VEON 245 □ VERTON 2T □ VISKO RHAP LOW VOLATILE ESTER □ WEEDAR □ WEEDONE
TOXICITY DATA with REFERENCE:
mmo-bcs 1 nmol/plate MSERDS 5,93,81
cyt-grb-ipr 250 mg/kg MUREAV 65,83,79
orl-rat TDLo:6 mg/kg (female 8D post):REP EXPEAM 39,891,83
orl-rat TDLo:100 mg/kg (female 11D post):TER BEXBAN 76,831,73
orl-mus TDLo:3379 mg/kg/33W-C:NEO BJCAAI 33,626,76
scu-mus TDLo:215 mg/kg:ETA NTIS** PB223-159
orl-rat LD50:300 mg/kg RREVAH 10,97,65
skn-rat LD50:1535 mg/kg FAATDF 7,299,86
orl-mus LD50:242 mg/kg RPZHAW 31,373,80
orl-dog LD50:100 mg/kg PAREAQ 14,225,62
orl-gpg LD50:381 mg/kg PCOC** -,1178,66
orl-ham LD50:425 mg/kg MUREAV 65,83,79
orl-ckn LD50:310 mg/kg AJVRAH 15,622,54
CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,156,87; Animal Inadequate Evidence IMEMDT 15,273,77; Human Inadequate Evidence IMEMDT 15,273,77; Human Limited Evidence IMEMDT 41,357,86. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 10 mg/m^3
ACGIH TLV: TWA 10 mg/m^3; Not Classifiable as a Human Carcinogen
DFG MAK: 10 mg/m^3
SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. Questionable carcinogen with experimental neoplastigenic, tumorigenic, and teratogenic data. Experimental reproductive effects. Mutation data reported. A highly toxic chlorinated phenoxy acid herbicide that is rapidly excreted after ingestion. Readily absorbed by inhalation and ingestion routes, slowly by skin contact. Signs of intoxication include weakness, lethargy, anorexia, diarrhea, ventricular fibrillation and/or cardiac arrest, and death. The teratogenicity is due in part to 2,3,7,8-TCDD, which is present as a contaminant (ARENAA 17,123,72). When heated to decomposition it emits toxic fumes of Cl^-. See also TCDD and CHLOROPHENOLS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: 2,4-D and 2,4,5-T, 5001.

TAA400 CAS: 76648-01-6 HR: 1
T-1982
mf: $C_{22}H_{27}N_9O_9S{\bullet}Na$ mw: 616.63
SYN: CEFBUPERAZONE SODIUM
TOXICITY DATA with REFERENCE:
ivn-rat LD50:9550 mg/kg NKRZAZ 30(Suppl 3),232,82
SAFETY PROFILE: Experimental reproductive effects. An experimental teratogen. When heated to decomposition it emits toxic fumes of SO_x, NO_x and Na_2O.

TAA420 CAS: 82547-81-7 HR: 1
T-2588
mf: $C_{22}H_{27}N_9O_7S_2$ mw: 593.70
SYN: 5-THIA-1-AZABICYCLO(4.2.0)OCT-2-ENE-2-CARBOXYLIC ACID, 7-(((2-AMINO-4-THIAZOLYL) (METHOXYIMINO)-ACETYL)AMINO)-3-((5-METHYL-2H-TETRAZOL-2-YL)METHYL)-8-OXO-, (2,2-DIMETHYL-1- OXOPROPOXY)METHYL ESTER, (6R-(6-α-7-β(Z)))-
TOXICITY DATA with REFERENCE:
ipr-rat LD50:5090 mg/kg NKRZAZ 34(Suppl 2),166,86
ipr-mus LD50:5860 mg/kg NKRZAZ 34(Suppl 2),166,86
SAFETY PROFILE: Mildly toxic by intraperitoneal route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

TAA875 HR: 1
TABASCO HOT PEPPER SAUCE
PROP: Produced by the McIlhenny Company, New Iberia, LA (DCTODJ 5,89,82).
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD DCTODJ 5,89,82
eye-rbt 100 mg MOD DCTODJ 5,89,82
orl-rat LD50:20 g/kg DCTODJ 5,89,82
SAFETY PROFILE: Mildly toxic by ingestion. A skin and eye irritant. Causes burning sensation in mouth upon ingestion.

TAA900 CAS: 109581-93-3 HR: 3
TACROLIMUS HYDRATE
mf: $C_{44}H_{69}NO_{12}$•H_2O mw: 822.16
SYNS: 15,19-EPOXY-3H-PYRIDO(2,1-C)(1,4)OXAAZACYCLO-TRICOSINE-1,7,20,21(4H,23H)-TE TRONE,5,6,8,11,12,13,14,15,16,17,18,19,24,25,26,26A-HEXADECAHYDRO-5,19-DIHYDROXY-3-(2-(4-HYD ROXY-3-METHOXYCYCLOHEXYL)-1-METHYLETHENYL)-14,16-DIMETHOXY-9,10,12,18-TETRA-METHYL-8-(2-PROPENYL)-, MONOHYDRATE, (3S-(3R*(E(1S*,-3S*,4S*)), 4S*,5R*,8S*,9E,12R*,14R*,15S*,16R*,18S*,19S*,26AR*))- ◻ FK 506 ◻ TSUKUBAENOLIDE HYDRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:134 mg/kg NIIRDN-,720,1995
ivn-rat LD50:23,600 µg/kg NIIRDN-,720,1995
SAFETY PROFILE: A poison by ingestion and intravenous routes. When heated to decomposition it emits toxic vapors of NO_x.

TAB250 CAS: 51481-61-9 HR: 3
TAGAMET
mf: $C_{10}H_{16}N_6S$ mw: 252.38
PROP: Mp: 141−143°.
SYNS: ACIBILIN ◻ CIMETIDINE ◻ N-CYANO-N'-METHYL-N"-(2-(((5-METHYL-1H-IMIDAZOL-4-YL)METHYL)THIO)ETHYL)-GUANIDINE ◻ 1-CYANO-2-METHYL-3-(2-(((5-METHYL-4-IMIDAZOLYL)METHYL)THIO)ETHYL)GUANIDINE ◻ 2-CYANO-1-METHYL-3-(2-(((5-METHYLIMIDAZOL-4-YL)METH-YL)THIO)ETHYL)GUANIDINE ◻ EURECEPTOR ◻ FPF 1002 ◻ GASTROMET ◻ SKF 92334 ◻ TAMETIN ◻ TRATUL ◻ ULCEDINE ◻ ULCIMET ◻ ULCOMET ◻ VALMAGEN ◻ VENOPEX
TOXICITY DATA with REFERENCE:
dnd-rat:lvr 3 mmol/L MUREAV 120,133,83
dns-rat:lvr 1 mmol/L MUREAV 120,133,83
orl-man TDLo:2857 µg/kg:CVS LANCAO 1,225,87
orl-man TDLo:57 mg/kg/5D-I:LIV DDSCDJ 32,333,87
ivn-man TDLo:4286 µg/kg/30M-C:PUL,SKN AIMEAS 97,374,82
ivn-wmn LDLo:1008 mg/kg/6W-I:CVS DICPBB 17,126,83
ivn-wmn TDLo:4 mg/kg/2M-C:CVS LANCAO 1,99,87
orl-wmn TDLo:30 mg/kg/2D-I AEMED3 16,1162,87
ivn-cld TDLo:100 mg/kg:CVS AIMEAS 97,283,82
unr-man TDLo:600 mg/kg/6W:SKN LANCAO 1,1160,81
orl-hmn TDLo:80 mg/kg/8D:CVS,SYS LANCAO 1,444,78
orl-rat LD50:5 g/kg JIMRBV 3,86,75
ipr-rat LD50:328 mg/kg YACHDS 11,1685,83
scu-rat LD50:860 mg/kg YACHDS 11,1685,83
ivn-rat LD50:106 mg/kg JIMRBV 3,86,75
orl-mus LD50:2550 mg/kg YACHDS 11,1685,83
ipr-mus LD50:306 mg/kg ARZNAD 33,1655,83
scu-mus LD50:437 mg/kg YACHDS 11,1685,83
ivn-mus LD50:150 mg/kg MEIEDD 10,323,83
ivn-dog LD50:206 mg/kg KSRNAM 14,2806,80
ipr-rbt LD50:1063 mg/kg YACHDS 11,1685,83
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List. EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic and teratogenic data. Experimental poison by intravenous and intraperitoneal routes. Moderately toxic to humans by ingestion. Moderately toxic experimentally by ingestion and subcutaneous routes. Human systemic effects: blood pressure lowering, cholestatic jaundice, dyspnea, hair changes, increased body temperature, leukopenia, pulse rate increase, sweating. Human reproductive and teratogenic effects by unspecified route: developmental abnormalities of the hepatobiliary system and effects on newborn including Apgar score. Experimental reproductive effects. An antagonist to histamine H2 receptors used in the treatment of peptic ulcers and allergic dermatitis. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, CN^-, and SO_x.

TAB260 HR: D
TAGETES MEAL and EXTRACT
PROP: Extracted from the dried ground flower petals of the Aztec marigold *Tagetes erecta* L. Mp: 53.5−55.0°.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

TAB275 HR: 2
TAGETES OIL
PROP: Found in various species of *Tagetes*, particularly *T. Glandulifera* (FCTOD7 20(Suppl),829,82).
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV FCTOD7 20(Suppl),829,82
orl-rat LD50:3700 mg/kg FCTOD7 20(Suppl),829,82
ipr-rat LD50:450 mg/kg FCTOD7 20(Suppl),829,82
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A severe skin irritant.

TAB300 CAS: 11006-31-8 HR: 3
TAKACIDIN
mf: $C_{72}H_{133}NO_{22}$ mw: 1363.94
PROP: A solid. Mp: 126−128°.
SYN: MONZAOMYCIN
TOXICITY DATA with REFERENCE:
orl-mus LD50:100 mg/kg 85FZAT -,635,67
ipr-mus LD50:5 mg/kg 85FZAT -,635,67
ivn-mus LD50:5 mg/kg 85ERAY 1,218,78
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

TAB400 HR: 3
TAKAMINE HT (BACILLUS SUBTILIS)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:174 mg/kg PSEBAA 144,450,73
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

TAB750 CAS: 14807-96-6 HR: 2
TALC
mf: H_2O_3Si•3/4Mg mw: 96.33
PROP: White to grayish-white, fine powder; odorless and tasteless. Powdered native hydrous magnesium silicate. Insol in water, cold acids, or alkalies. Containing less than 1% crystalline silica. Insol in H_2O. IDLH 1000 mg/m^3.

SYNS: AGALITE ◻ AGI TALC, BC 1615 ◻ ALPINE TALC USP, BC 127 ◻ ALPINE TALC USP, BC 141 ◻ ALPINE TALC USP, BC 662 ◻ ASBESTINE ◻ C.I. 77718 ◻ DESERTALC 57 ◻ EMTAL 596 ◻ FIBRENE C 400 ◻ LO MICRON TALC 1 ◻ LO MICRON TALC, BC 1621 ◻ LO MICRON TALC USP, BC 2755 ◻ METRO TALC 4604 ◻ METRO TALC 4608 ◻ METRO TALC 4609 ◻ MISTRON FROST P ◻ MISTRON RCS ◻ MISTRON 2SC ◻ MISTRON STAR ◻ MISTRON SUPER FROST ◻ MISTRON VAPOR ◻ MP 12-50 ◻ MP 25-38 ◻ MP 45-26 ◻ NCI-C06008 ◻ No. 907 METRO TALC ◻ NYTAL ◻ OOS ◻ OXO ◻ PURTALC USP ◻ SIERRA C-400 ◻ SNOWGOOSE ◻ STEAWHITE ◻ SUPREME DENSE ◻ TALCUM

TOXICITY DATA with REFERENCE:
skn-hmn 300 µg/3D-I MLD 85DKA8 -,127,77

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,349,87; Animal Inadequate Evidence IMEMDT 42,185,87; Human Inadequate Evidence IMEMDT 42,185,87. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2 mg/m^3

ACGIH TLV: TWA 2 mg/m^3, respirable dust (use asbestos TLV if asbestos fibers are present); Not Classifiable as a Human Carcinogen

DFG MAK: 2 mg/m^3

NIOSH REL: Talc (containing no asbestos) 2 mg/m^3

SAFETY PROFILE: The talc with less than 1 percent asbestos is regarded as a nuisance dust. Talc with greater percentage of asbestos may be a human carcinogen. A human skin irritant. Prolonged or repeated exposure can produce a form of pulmonary fibrosis (talc pneumoconiosis) which may be due to asbestos content. Questionable carcinogen with experimental tumorigenic data. A common air contaminant.

TAB775 CAS: 14807-96-6 HR: 3
TALC, containing asbestos fibers
mf: H_2O_2Si•3/4Mg mw: 96.33

PROP: Mp: 1652−1832° F, d: 2.70-2.80. Insol in water.

CONSENSUS REPORTS: IARC Cancer Review: Group 1 IMEMDT 7,349,87; Human Sufficient Evidence IMEMDT 42,185,87; Reported in EPA TSCA Inventory.

ACGIH TLV: Human Carcinogen; TWA >2 mg/m^3, Respirable Dust

SAFETY PROFILE: Confirmed human carcinogen with experimental tumorigenic data.

TAB785 CAS: 76069-32-4 HR: 3
TALISOMYCIN S^{10b}
mf: $C_{59}H_{91}N_{19}O_{26}S_2$ mw: 1546.81

SYN: TALLYSOMYCIN S^{10b}

TOXICITY DATA with REFERENCE:
dnd-omi 107 nmol/L CNREA8 40,4173,80
dni-hmn:lym 50 mg/L MUREAV 112,119,83
ipr-mus LD50:123 mg/kg JANTAJ 34,665,81
ivn-mus LD50:104 mg/kg DCTODJ 7,259,84

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

TAC000 CAS: 8002-26-4 HR: 2
TALL OIL

PROP: Composition: Rosin acids, oleic and linoleic acids. Dark-brown liquid; acrid odor. D: 0.95, flash p: 360°F.

SYNS: LIQUID ROSIN ◻ TALLOL

SAFETY PROFILE: A mild allergen. A substance which migrates to food from packaging materials. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use dry chemical, CO_2. When heated to decomposition it emits acrid smoke and irritating fumes.

TAC050 CAS: 61791-39-7 HR: D
TALL OIL HYDROXYETHYL IMIDAZOLINE

PROP: Liquid.

SYNS: 4,5-DIHYDRO-7-NORTALL OIL-1H-IMIDAZOLE-1-ETHANOL ◻ 1-(2-HYDROXYETHYL)-2-(TALL OIL ALKYL)-2-IMIDAZOLINE ◻ 1H-IMIDAZOLE-1-ETHANOL, 4,5-DIHYDRO-, 2-NORTALL OIL ◻ 1H-IMIDAZOLE-1-ETHANOL, 4,5-DIHYDRO-, 2-NORTALL-OIL ALKYL DERIVS. ◻ 2-IMIDAZO-LINE, 1-(2-HYDROXYETHYL)-2-(TALL OIL ALKYL)- ◻ MIRAM-INE TOC ◻ 2-NORTALL OIL-1H-IMIDAZOLE-1-ETHANOL, 4,5-DIHYDRO-

CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration. Reported in EPA TSCA Inventory.

SAFETY PROFILE: A pesticide with unreported toxicity. When heated to decomposition it emits toxic vapors of NO_x.

TAC075 CAS: 61791-36-4 HR: 2
TALL OIL IMIDAZOLINE

SYNS: 4,5-DIHYDRO-1H-IMIDAZOLE 2-NORTALL-OIL ALKYL DERIVS. ◻ 1H-IMIDAZOLE, 4,5-DIHYDRO-, 2-NORTALL-OIL ALKYL DERIVS. ◻ 1-(2-HYDROXYETHYL)-2-IMIDAZOLINE-2-YLNORTALL OIL ◻ MIRAMINE GT ◻ TALL OIL, 1-(2-HYDROXYETHYL)-2-IMIDAZOLINE-2-YLNOR-

TOXICITY DATA with REFERENCE:
skn-rbt 500 µL/24H SEV NTIS** OTS0571553
eye-rbt 100 µL/24H SEV NTIS** OTS0571341

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

TAC100 HR: D
TALLOW

PROP: Off-white fat from rendering of beef or mutton.

SYN: BLEACHED-DEODORIZED TALLOW

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

TAC200 CAS: 70084-70-7 HR: 2
N-TALLOWPYRROLIDINONE

SYN: 2-PYRROLIDINONE, 1-TALLOW ALKYL derivs.

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV FCTOD7 26,475,88
eye-rbt 100 mg MLD FCTOD7 26,475,88
orl-rat LD50:12,600 mg/kg FCTOD7 26,475,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TAC300 CAS: 8030-78-2 HR: D
(TALLOW)TRIMETHYLAMMONIUM CHLORIDE
SYNS: ADOGEN 471 □ AMMONIUM, TRIMETHYLTALLOW ALKYL-, CHLORIDES □ ARQUAD T □ ARQUAD T-50 □ QUATERNARY AMMONIUM COMPOUNDS, TRIMETHYL-TALLOW ALKYL-, CHLORIDE □ N-TALLOW-TRIMETHYL-AMMONIUM SURFACTANT
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate BECTA6 28,33,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

TAC500 CAS: 65057-90-1 HR: 3
TALLYSOMYCIN A
mf: $C_{68}H_{11}N_{22}O_{27}S_2$ mw: 1732.12
PROP: White amorphous solid or powder. No definite mp, gradually decomp >210°. Sol in water, methanol, and DMF; sltly sol in ethanol; practically insol in other org solvs.
SYNS: ANTIBIOTIC BU 2231A □ BU 2231A □ TALISOMYCIN
TOXICITY DATA with REFERENCE:
mmo-sat 50 ng/plate MUREAV 117,9,83
dni-hmn:lym 50 mg/L MUREAV 112,119,83
cy-hmn:lym 25 mg/L MUREAV 112,119,83
ipr-mus LD50:19 mg/kg JANTAJ 31,667,78
ipr-mus LD50: 19 mg/kg JANTAJ 31,667,78
scu-mus LD50: 28 mg/kg USXXAM #4051237
ivn-mus LD50: 17 mg/kg JANTAJ 31,667,78
SAFETY PROFILE: Poison by intraperitoneal, subcutaneous and intravenous routes. Human mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

TAC750 CAS: 65057-91-2 HR: 3
TALLYSOMYCIN B
mf: $C_{62}H_{98}N_{20}O_{26}S_2$ mw: 1603.92
PROP: No definite mp, gradually decomp >210°. Sol in water, methanol, and DMF; slightly sol in ethanol; practically insol in other org solvs.
SYNS: ANTIBIOTIC BU 2231B □ TALISOMYCIN B
TOXICITY DATA with REFERENCE:
mmo-sat 50 ng/plate MUREAV 117,9,83
ipr-mus LD50:46 mg/kg JANTAJ 30,779,77
ivn-mus LD50:30 mg/kg JANTAJ 30,779,77
itr-mus LDLo:16 µg/kg TXAPA9 56,326,80
SAFETY PROFILE: Poison by intraperitoneal, intratracheal, and intravenous routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

TAC800 CAS: 56073-10-0 HR: 3
TALON RODENTICIDE
mf: $C_{31}H_{23}BrO_3$ mw: 523.45
PROP: Off-white to fawn powder. Mp: 228−230°. Insol in water; sltly sol in alc, benzene; sol in acetone, chloroform.
SYNS: BRODIFACOUM □ 3-(3-(4'-BROMOBIPHENYL-4-YL)-1,2,3,4-TETRAHYDRONAPHTH-1-YL)-4-HYDROXYCOUMARIN □ 3-(3-(4'-BROMO-1,1'-BIPHENYL-4-YL)-1,2,3,4-TETRAHYDRO-1-NAPHTHYL)-4-HYDROXYCOUMARIN □ HAVOC □ KLERAT □ PP 581 □ RATAK □ RATAK PLUS □ TALON □ VOLID □ WBA 8119
TOXICITY DATA with REFERENCE:
orl-man TDLo:120 µg/kg:BLD JAMAAP 252,3005,84
orl-rat LD50:160 µg/kg MAGJAL 52(4),1,79
ihl-rat LC50:500 µg/m^3/4H PEMNDP 9,91,91
skn-rat LD50:200 mg/kg PEMNDP 9,91,91
orl-dog LD50:250 µg/kg PEMNDP 9,91,91
SAFETY PROFILE: Poison by ingestion, inhalation, and skin contact. Human systemic effects by ingestion: change in clotting factors. When heated to decomposition it emits toxic fumes of Br^-.

TAC825 CAS: 20230-77-7 HR: 3
TALOXIMINE HYDROCHLORIDE
mf: $C_{12}H_{16}N_4O_2$•ClH mw: 284.78
SYNS: 4-(2-(DIMETHYLAMINO)ETHOXY)-1(2H)-PHTH-ALAZINONE OXIME MONOHYDROCHLORIDE □ 1-HYDROXYIMINO-4 (2-DIMETHYLAMINO-ETHOXY)-1,2-DIHYDROPHTHALAZINE MONOHYDROCHLORIDE □ 1(2H)-PHTHALAZINONE, 4-(2-(DIMETHYLAMINO)ETHOXY)-, OXIME, MONOHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:1230 mg/kg YAKUD5 11,1283,1969
ipr-mus LD50:195 mg/kg YAKUD5 11,1283,1969
ivn-mus LD50:123 mg/kg YAKUD5 11,1283,1969
SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl^-.

TAC850 CAS: 82657-04-3 HR: 3
TALSTAR
mf: $C_{23}H_{22}ClF_3O_2$ mw: 422.90
PROP: Tan solid granules with a slightly musty odor.
SYNS: BIFENTHRIN □ BIPHENTHRIN □ BRIGADE □ CAPTURE □ CYCLOPROPANECARBOXYLIC ACID, 3-(2-CHLORO-3,3,3-TRIFLUORO-1-PROPENYL)-2,2-DIMETHYL-, (2-METHYL(1,1'-BIPHENYL)-3-YL)METHYL ESTER, (Z)- □ FMC 54800 □ FMC 58000
TOXICITY DATA with REFERENCE:
orl-rat LD50:54,500 µg/kg PEMNDP 9,73,91
skn-rbt LD50:>2 g/kg PEMNDP 9,73,91
orl-qal LD50:1800 mg/kg PEMNDP 9,73,91
orl-dck LD50:>4450 mg/kg PEMNDP 9,73,91
SAFETY PROFILE: A poison by ingestion. Moderately toxic by skin contact. When heated to decomposition it emits toxic vapors of F^- and Cl^-.

TAC880 CAS: 13002-65-8 HR: D
TAMOXIFEN (E)
mf: $C_{26}H_{29}NO$ mw: 371.56
SYNS: ETHYLAMINE, N,N-DIMETHYL-2-(P-(1,2-DIPHENYL-1-BUTENYL)PHENOXY)-, (E)- □ CIS-TAMOXIFEN □ E-TAMOXIFEN
TOXICITY DATA with REFERENCE:
orl-wmn TDLo:4 mg/kg/5D-I:GIT BJCPAT 44,716,1990
SAFETY PROFILE: Experimental reproductive effects. Human systemic effects: nausea or vomiting. When heated to decomposition it emits acrid smoke and irritating vapors.

TAD175 CAS: 54965-24-1 HR: 3
TAMOXIFEN CITRATE
mf: $C_{26}H_{29}NO•C_6H_8O_7$ mw: 563.70
PROP: Fine, white, crystalline powder. Mp: 140−142°. Sltly sol in water; sol in ethanol, methanol, and acetone. Hygroscopic at high relative humidities.
SYNS: trans-1-(p-β-DIMETHYLAMINOETHOXYPHENYL)-1,2-DIPHENYLBUT-1-ENE CITRATE □ ICI 46,474 □ KESSAR □ NOLTAM □ NOLVADEX □ TAMOFEN □ TAMOXASTA □ TAMOXIFEN CITRATE □ TERIMON □ ZYNOPLEX
TOXICITY DATA with REFERENCE:
add-rat-ipr 60 mg/kg/3D-C CNREA8 52,1360,92
add-ham-ipr 10 mg/kg CNREA8 52,1360,92
orl-rat TDLo:15,512 mg/kg/1Y-I:CAR CRNGDP 14,315,93
orl-wmn TDLo:154 mg/kg/1Y-I:EYE AJOPAA 104,185,87
orl-rat LD50:1190 mg/kg JZKEDZ 6,1,80
ipr-rat LD50:575 mg/kg JZKEDZ 6,1,80
orl-mus LD50:3100 mg/kg JRPFA4 13,101,67
ipr-mus LD50:218 mg/kg NIIRDN 6,440,82
CONSENSUS REPORTS: IARC Cancer Review: Human Sufficient Evidence (Benefits outweigh risk for breast cancer patients. 22 Feb, 1997).
SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic data. Poison by intraperitoneal route. Moderately toxic by ingestion. Experimental reproductive effects. Human systemic effects: visual field changes, retinal changes. An anti-estrogenic drug. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TAD250 CAS: 72869-73-9 HR: 1
TANGELO OIL
PROP: Liquid.
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTOD7 20,831,82
orl-rat LD50:>5 g/kg FCTOD7 20,831,82
skn-rbt LD50:>5 g/kg FCTOD7 20,831,82
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.

TAD500 CAS: 8016-85-1 HR: 1
TANGERINE OIL
PROP: Expressed from the peels of Dancy and related varieties of *Citrus reticulata Blanco*. The components include d-limonene, n-octylaldehyde, n-decylaldehyde, citral, linalool, citronella, cadinene, terpenes, aldehydes, alcohols, and esters (FCTXAV 16,637,78). Red-orange to brown-orange liquid; orange-like odor. Sol in fixed oils, mineral oil; sltly sol in propylene glycol; insol in glycerin.
SYNS: TANGERINE OIL, COLDPRESSED (FCC) □ TANGERINE OIL, EXPRESSED (FCC)
TOXICITY DATA with REFERENCE:
skn-mus 100% FCTXAV 16,873,78
skn-rbt 500 mg/24H FCTXAV 16,873,78
skn-pig 100% FCTXAV 16,873,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also individual components, ALDEHYDES, ALCOHOLS, and ESTERS.

TAD750 CAS: 1401-55-4 HR: 3
TANNIC ACID
mf: $C_{76}H_{52}O_{46}$ mw: 1701.28
PROP: From the nutgalls of *Quercus infectoria Oliver* or seed pods of *Caesalpinia spinosa* or the nutgalls of various sumac species. Yellowish-white or brown, bulky powder or flakes; odorless with astringent taste. Mp: 200−218°, flash p: 390°F (OC), autoign temp: 980°F. Very sol in water, alc, acetone; almost insol in benzene, chloroform, ether, pet ether, carbon disulfide.
SYNS: d'ACIDE TANNIQUE (FRENCH) □ GALLOTANNIC ACID □ GALLOTANNIN □ GLYCERITE □ TANNIN
TOXICITY DATA with REFERENCE:
dns-rat-orl 25 g/kg JJIND8 74,1283,85
dni-mus-ipr 76 mg/kg IJEBA6 17,1141,79
scu-rat TDLo:4450 mg/kg/17W-I:CAR AMSHAR 3,353,53
orl-rat LD50:2260 mg/kg 34ZIAG -,571,69
orl-rat LDLo:200 mg/kg WKWOAO 62,270,50
par-rat LDLo:1400 mg/kg FCTXAV 14,565,76
orl-mus LDLo:2000 mg/kg JPETAB 77,63,43
scu-mus LDLo:75 mg/kg JPETAB 77,63,43
ivn-mus LDLo:10 mg/kg JPETAB 77,63,43
ims-mus LD50:350 mg/kg JPPMAB 9,98,57
orl-rbt LD50:5000 mg/kg AJVRAH 23,1264,62
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMSUDL 7,56,87; Human No Adequate Data IMEMDT 10,253,76; Animal Limited Evidence IMEMDT 10,253,76. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion, intramuscular, intravenous, and subcutaneous routes. Moderately toxic by parenteral route. Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. Combustible when exposed to heat or flame. To fight fire, use water. Incompatible with salts of heavy metals, oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.

TAE250 HR: 2
TANNIN-FREE FRACTION of BRACKEN FERN
SYN: BRACKEN FERN, TANNIN-FREE
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic and irritating fumes.

TAE500 CAS: 8016-87-3 HR: 2
TANSY OIL
PROP: Yellowish liquid, strong odor, D: 0.925−0.950 @ 15/15°. Sol in alc, ether chloroform; sltly sol in water. From *Tamanacetum vulgare,* contained thujone, comphor and borneol (FCTXAV 14,659,76).
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 14,659,76
orl-rat LD50:1150 mg/kg FCTXAV 14,659,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also components as listed.

TAE750 CAS: 7440-25-7 HR: 2
TANTALUM
af: Ta aw: 180.948
PROP: Gray, malleable, soft ductile metal when pure. Very air and H_2O corrosion resistant (oxide film). Attacked by HF, and by fused alkalies, as well as by fuming H_2SO_4. Mp: 2996°, bp: 5429°, d: 16.69. Insol in water. IDLH 2500 mg/m^3 (as Ta).
SYN: TANTALUM-181
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 5 mg/m^3
ACGIH TLV: TWA 5 mg/m^3
DFG MAK: 4 mg/m^3
SAFETY PROFILE: An inhalation hazard. Some industrial skin injuries from tantalum have been reported. Systemic industrial poisoning, however, is apparently unknown. Questionable carcinogen with experimental tumorigenic data. The dry powder ignites spontaneously in air. Incompatible with bromine trifluoride, fluorine, lead chromate. See also specific tantalum compounds.

TAF000 CAS: 7721-01-9 HR: 3
TANTALUM CHLORIDE
mf: Cl_5Ta mw: 358.20
PROP: White or light-yellow crystals, powder, or solid; moisture-sensitive. Monoclinic; forms intercalated phases with graphite + Cl_2. D: 3.68, mp: 216–220°, bp: 239.3°. Decomposed by water; sol in alc. Volatilizes at 144°.
SYN: TANTALUM PENTACHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1900 mg/kg AIHOAX 1,637,50
ipr-rat LD50:75 mg/kg AIHOAX 1,637,50
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 Cl^-.

TAF250 CAS: 7783-71-3 HR: 3
TANTALUM FLUORIDE
mf: F_5Ta mw: 275.95
PROP: Deliq, refractive prisms. D: 4.74 @ 20°, mp: 96.8°, bp: 229.5°, vap press: 100 mm @ 130°. Sol in water, concentrated nitric acid; very sol in fuming nitric acid; sltly sol in hot carbon disulfide, hot carbon tetrachloride.
SYN: TANTALUM PENTAFLUORIDE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:110 mg/kg 19UQAS -,30,65
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2.5 mg(F)/m^3
ACGIH TLV: TWA 2.5 mg(F)/m^3; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.
NIOSH REL: TWA 2.5 mg(F)/m^3
SAFETY PROFILE: Poison by intravenous route. Corrosive. When heated to decomposition it emits toxic fumes of F^-. See also TANTALUM and FLUORIDES.

TAF500 CAS: 1314-61-0 HR: 1
TANTALUM OXIDE
mf: O_5Ta_2 mw: 441.90
PROP: White solid or microcrystalline, infusible powder. Not amphoteric. Very inert. D: 8.200, mp: 1872°. Insol in water, alc, and mineral acids; sol in HF.
SYNS: TANTALIC ACID ANHYDRIDE ◻ TANTALUM(V) OXIDE ◻ TANTALUM PENTAOXIDE ◻ TANTALUM PENTOXIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:8000 mg/kg EQSSDX 1,1,75
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 5 mg/m^3
ACGIH TLV: TWA 5 mg/m^3
SAFETY PROFILE: Mildly toxic by ingestion. Incompatible with ClF_3, BrF_3, Li. See also TANTALUM.

TAF675 CAS: 113-59-7 HR: 3
TARASAN
mf: $C_{18}H_{18}ClNS$ mw: 315.88
PROP: Pale-yellow crystals. Mp: 97–98°. Practically insol in water; sol in alc, ether, chloroform.
SYNS: (α-2-CHLORO-9-ω-DIMETHYLAMINOPROPYLAMINE)-THIOXANTHENE ◻ 2-CHLORO-9-(ω-DI-METHYLAMINOPRO-PYLIDENE)THIOXANTHENE ◻ 2-CHLORO-9-(3-(DIMETHYL-AMINO)PROPYLIDENE)-THIOXANTHENE ◻ 2-CHLORO-N,N-DIMETHYLTHIOXANTHENE-Δ^9-γ-PROPYLAMINE ◻ CHLOROPROTHIXENE ◻ (Z)-3-(2-CHLORO-9H-THIOXANTH-EN-9-YLIDENE)-N,N-DIMETHYL-1-PROPANAMINE ◻ CHLOR-PROTHIXEN ◻ CHLORPROTHIXENE ◻ α-CHLORPRO-THIXENE ◻ cis-CHLORPROTHIXENE ◻ CHLORPROTIXEN ◻ CHLORPROTIXENE ◻ CHLORPROTIXINE ◻ CHLOTHIXEN ◻ CPT ◻ CPX ◻ IARACTAN ◻ MK 184 ◻ N 714 ◻ N 714C ◻ PAXYL ◻ RENTOVET ◻ RO 4-0403 ◻ TACTARAN ◻ TARA-CTAN ◻ TRANQUILAN ◻ TRAQUILAN ◻ TRICTAL ◻ TRUXAL ◻ TRUXALETTEN ◻ TRUXIL ◻ VETACALM
TOXICITY DATA with REFERENCE:
orl-rat LD50:200 mg/kg NIIRDN 6,252,82
orl-mus LD50:50,100 µg/kg CNREA8 47,5944,87
ipr-mus LD50:56,200 µg/kg CNREA8 47,5944,87
ivn-mus LD50:75 mg/kg APTOA6 41,369,77
orl-rbt LD50:182 mg/kg 29ZVAB -,33,69
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Human reproductive effects by ingestion: impotence. Incompatible with acids; alkalies. When heated to decomposition it emits toxic fumes of Cl^-, SO_x, and NO_x.

TAF700 CAS: 8016-88-4 HR: 2
TARRAGON OIL
PROP: From steam distillation of leaves, stems, and flowers from *Artemesia dracunculus L.* Pale-yellow to amber

liquid; spicy licorice and sweet basil odor. Sol in fixed oils, mineral oil; insol in propylene glycol, glycerin.
SYN: ESTRAGON OIL
TOXICITY DATA with REFERENCE:
skn-mus 100% FCTXAV 12,709,74
skn-rbt 500 mg/24H FCTXAV 12,709,74
orl-rat LD50:1900 mg/kg FCTXAV 12,709,74
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.

TAF750 CAS: 87-69-4 HR: 2
TARTARIC ACID
mf: $C_4H_6O_6$ mw: 150.10
$(-CHOHCO{\bullet}OH)_2$
PROP: Colorless to translucent crystals or white powder; odorless with an acid taste. Mp: 170−172°. Sol in water and alc.
SYNS: BUTANEDIOIC ACID, 2,3-DIHYDROXY- □ 2,3-DIHYDROSUCCINIC ACID □ 2,3-DIHYDROXYBUTANEDIOIC ACID □ KYSELINA 2,3-DIHYDROXYBUTANDIOVA □ KYSELINA VINNA □ MALIC ACID, 3-HYDROXY- □ SUCCINIC ACID, 2,3-DIHYDROXY- □ l-(+)-TARTARIC ACID □ THREARIC ACID
TOXICITY DATA with REFERENCE:
ivn-mus LD50:485 mg/kg JAFCAU 5,759,57
orl-dog LDLo:5000 mg/kg JAPMA8 39,275,50
orl-rbt LDLo:5000 mg/kg IECHAD 15,628,23
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intravenous route. Mildly toxic by ingestion. Reaction with silver produces the unstable silver tartrate. When heated to decomposition it emits acrid smoke and irritating fumes.

TAF760 CAS: 2217-15-4 HR: 3
TARTARIC ACID, DIISOPROPYL ESTER
mf: $C_{10}H_{18}O_6$ mw: 234.28
PROP: Colorless to pale yellowish liquid.
SYN: DI-ISOPROPYL TARTRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:6 mL/kg JPETAB 93,26,48
orl-mus LD50:6300 µL/kg JPETAB 93,26,48
skn-mus LD50:>10 mL/kg JPETAB 93,26,48
SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

TAF775 CAS: 5976-95-4 HR: 2
meso-TARTRATE
mf: $C_4H_4O_6$ mw: 148.08
SYNS: (R*,S*)-2,3-DIHYDROXY-BUTANEDIOIC ACID ION(2−) (9CI) □ meso-TARTARIC ACID, ION(2−)
TOXICITY DATA with REFERENCE:
orl-rat LD50:4748 mg/kg OYYAA2 14,963,77
ipr-rat LD50:499 mg/kg OYYAA2 14,963,77
scu-rat LD50:2308 mg/kg OYYAA2 14,963,77
orl-mus LD50:2497 mg/kg OYYAA2 14,963,77
ipr-mus LD50:434 mg/kg OYYAA2 14,963,77
scu-mus LD50:2044 mg/kg OYYAA2 14,963,77
SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes.

TAG250 HR: 2
TARWEED
PROP: The seeds containing pyrrolizidine alkaloids are from *Amsinckia intermedia fisch* and *Mey* (JNCIAM 47,1037,71).
SYNS: AMSINCKIA INTERMEDIA □ FIDDLE-NECK □ SEED of FIDDLENECK
TOXICITY DATA with REFERENCE:
orl-rat TDLo:275 g/kg (1-22D preg):ETA,TER JNCIAM 47,1037,71
orl-rat LDLo:1500 mg/kg JAVMA4 150,1305,67
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Moderately toxic by ingestion. An experimental teratogen. When heated to decomposition it emits acrid smoke and irritating fumes.

TAG750 CAS: 107-35-7 HR: D
TAURINE
mf: $C_2H_7NO_3S$ mw: 125.16
PROP: Colorless, monoclinic prismatic rods from water. Mp: decomp @ 300°, bp: subl @ 110°. Very sol in water and alc; insol in anhydrous ether.
SYNS: 2-AMINOETHANESULFONIC ACID □ 2-AMINOETHYLSULFONIC ACID □ ETHANESULFONIC ACID, 2-AMINO- □ NCI-C60606 □ O-DUE □ 2-SULFOETHYLAMINE □ TAUPHON
TOXICITY DATA with REFERENCE:
otr-rat-orl 7560 mg/kg/6W CRNGDP 9,387,88
scu-mus LD50:6 g/kg QJPPAL 19,48,46
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

TAG875 CAS: 22103-31-7 HR: 2
TAURINOPHENETIDINE HYDROCHLORIDE
mf: $C_{10}H_{16}N_2O_3S{\bullet}ClH$ mw: 280.80
SYN: 2-AMINOETHANESULFONO-p-PHENETIDINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:1550 mg/kg JPMSAE 60,249,71
ipr-mus LD50:570 mg/kg JPMSAE 60,249,71
scu-mus LD50:590 mg/kg JPMSAE 60,249,71
SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl.

TAH250 CAS: 81-24-3 HR: 2
TAUROCHOLIC ACID
mf: $C_{26}H_{45}NO_7S$ mw: 515.78
PROP: Cluster of slender, four-sided prisms or amorphous powder. Mp: 125° (decomp). Very sol in water; sol in alc; insol in ether, ethyl acetate. Occurs as a sodium salt in the bile.
SYNS: CHOLAIC ACID □ CHOLYLTAURINE □ TAUROCHOLATE □ 2-((3-α,7-α,12-α-TRIHYDROXY-24-OXO-5-β-CHOLAN-24-YL)AMINO)ETHANESULFONIC ACID

TOXICITY DATA with REFERENCE:
ipr-rat LD50:450 mg/kg TXAPA9 24,37,73
ipr-mus LD50:620 mg/kg TXAPA9 24,37,73
SAFETY PROFILE: Moderately toxic by intraperitoneal route. An emulsifying agent used as a food additive. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TAH500 CAS: 102418-13-3 HR: 3
TAUROMYCETIN
PROP: An antibiotic with a pronounced antitumor activity in vivo with respect to some transplantable tumors of mice (ANTBAL 12,360,67).
TOXICITY DATA with REFERENCE:
orl-rat LD50:50 mg/kg ANTBAL 12,360,67
ipr-rat LD50:11 mg/kg ANTBAL 12,360,67
orl-mus LD50:66 mg/kg ANTBAL 12,360,67
ipr-mus LD50:24 mg/kg ANTBAL 12,360,67
scu-mus LD50:45 mg/kg ANTBAL 12,360,67
ivn-mus LD50:15 mg/kg ANTBAL 12,360,67
orl-dog LD50:20 mg/kg ANTBAL 12,360,67
ivn-rbt LDLo:3 mg/kg ANTBAL 12,360,67
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes.

TAH650 CAS: 35906-51-5 HR: 3
TAUROMYCETIN-III
mf: $C_{42}H_{51}NO_{16}$ mw: 825.94
PROP: Orange-red crystals. Mp: 168−178°.
SYNS: ANTIBIOTIC MA 144B2 □ CINERUBIN B □ CINERUBINE B □ MA144 B2 □ TAVROMYCETIN III
TOXICITY DATA with REFERENCE:
pic-esc 24 mg/L ZAPOAK 8,139,68
dni-mus:leu 360 nmol/L JANTAJ 34,1596,81
oms-mus:leu 48 nmol/L JANTAJ 34,1596,81
orl-mus LD50:67 mg/kg 85GDA2 3,96,80
ipr-mus LD50:24 mg/kg 85GDA2 3,96,80
scu-mus LD50:45 mg/kg 85GDA2 3,96,80
ivn-mus LD50:15 mg/kg 85GDA2 3,96,80
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TAH675 CAS: 34044-10-5 HR: 3
TAUROMYCETIN-IV
mf: $C_{42}H_{53}NO_{16}$ mw: 827.96
PROP: Dark-red crystals. Mp: 155−158°.
SYNS: ANTIBIOTIC MA 144A2 □ CINERUBIN A □ CINERUBINE A □ MA-144A2 □ RHODIRUBIN C □ RYEMYCIN-B2 □ TAVROMYCETIN-IV
TOXICITY DATA with REFERENCE:
dni-mus:leu 310 nmol/L JANTAJ 34,1596,81
oms-mus:leu 36 nmol/L JANTAJ 34,1596,81
ivn-mus LD50:2500 µg/kg 85GDA2 3,94,80
SAFETY PROFILE: Poison by intravenous route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TAH750 CAS: 12607-93-1 HR: 3
TAXINE
mf: $C_{37}H_{51}NO_{10}$ mw: 669.89
PROP: Amorphous, granular powder. Mp: 121−124°. Sol in ether, chloroform, and alc; practically insol in water.
SYN: TAXIN (GERMAN)
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:11 mg/kg QJPPAL 5,205,32
ipr-dog LDLo:9 mg/kg QJPPAL 5,205,32
ipr-cat LDLo:25 mg/kg QJPPAL 5,205,32
orl-rbt LDLo:22 mg/kg ZGEMAZ 29,310,22
ipr-rbt LDLo:6 mg/kg QJPPAL 5,205,32
ivn-rbt LDLo:3 mg/kg QJPPAL 5,205,32
ipr-gpg LDLo:14 mg/kg ZGEMAZ 29,310,32
scu-gpg LDLo:10 mg/kg QJPPAL 5,205,32
par-frg LDLo:17 mg/kg QJPPAL 5,205,32
SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, subcutaneous, and parenteral routes. When heated to decomposition it emits toxic fumes of NO_x.

TAH775 CAS: 33069-62-4 HR: 3
TAXOL
mf: $C_{47}H_{51}NO_{14}$ mw: 853.99
PROP: Needles from aq methanol. Mp: 213−216° (decomp).
SYNS: 5-β,20-EPOXY-1,2-α,4,7-β,10-β,13-α-HEXAHYDROXY-TAX-11-EN-9-ONE 4,10-DIACETATE 2-BENZOATE 13-ESTER with (2R,3S)-N-BENZOYL-3-PHENYLISOSERINE □ NSC-125973 □ PACLITAXEL
TOXICITY DATA with REFERENCE:
ipr-rat LD50:32,530 µg/kg NTIS** PB83-17096
ipr-mus LD50:128 mg/kg NTIS** PB83-17096
ivn-dog LDLo:15 mg/kg NTIS** PB83-17096
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

TAH800 CAS: 114977-28-5 HR: 3
TAXOTERE
mf: $C_{43}H_{53}NO_{14}$ mw: 807.97
SYNS: BENZENEPROPANOIC ACID, β-(((1,1-DIMETHYLETHOXY)CARBONYL)AMINO)-α-HYDROXY-,12B-(ACETYLOXY)-12-(BENZOYLOXY)-2A,3,4,4A,5,6,9,10,11,12,-12A,12B-DODECAHYDRO-4 ,6,11-TRIHYDROXY-4A, 8,13,13-TETRAMETHYL-5-OXO-7,11-METHANO-1H-CYCLODECA-(3,4)BENZ(1,2-B)OXET-9-YLESTER, (2AR-(2A-α,4-β,4A-β,6-β,9-α(α-R*,β-S*),11-α,12-α,12 A-α,12B-α))- □ DOCETAXEL □ DOCETAXOL □ RP 56976
TOXICITY DATA with REFERENCE:
ivn-man TDLo:24 mg/kg/9W-I:PNS ANONE2 8,187,1997
ivn-rat LDLo:20 mg/kg YAKUD5 39,659,1997
ivn-mus LD50:156 mg/kg SOLGAV 22(Suppl 4),3,1995
ivn-dog LD50:2500 µg/kg SOLGAV 22(Suppl 4),3,1995
SAFETY PROFILE: A poison by intravenous route. Human systemic effects. When heated to decomposition it emits toxic vapors of NO_x.

TAH900 CAS: 2545-59-7 HR: D
2,4,5-tert BUTOXYETHANOL ESTER
mf: $C_{14}H_{17}Cl_3O_4$ mw: 355.66
PROP: Herbicide.
SYNS: BLADEX H □ BUTOXYETHYL 2,4,5-T □ 2,4,5-tert-BUTOXYETHYL ESTER □ HORMOSLYR 500T □ (2,4,5-

TRICHLOROPHENOXY)ACETIC ACID-2-BUTOXYETHYL ESTER □ TRINOXOL

TOXICITY DATA with REFERENCE:
cyt-mus-ipr 2400 µg/kg HEREAY 85,123,77
orl-rat LD50:500 mg/kg NTIS** PB85-143766

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

TAH950 CAS: 57910-79-9 HR: 2
tert-BUTYLAZO-2-HYDROXYBUTANE
mf: $C_8H_{18}N_2O$ mw: 158.28
SYNS: 2-BUTANOL, 2-((1,1-DIMETHYLETHYL)AZO)- □ 2-((1,1-DIMETHYLETHYL)AZO)-2-BUTANOL □ LUCEL 4

TOXICITY DATA with REFERENCE:
ihl-rat LCLo:6250 mg/m^3/1H EPASR* FYI-OTS-1080-0095

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TAI000 CAS: 1746-01-6 HR: 3
TCDD
mf: $C_{12}H_4Cl_4O_2$ mw: 321.96

PROP: Colorless needles. Mp: 305°.

SYNS: 2,3,7,8-CZTEROCHLORODWUBENZO-p-DWUOKSYNY (POLISH) □ DIOKSYNY (POLISH) □ DIOXIN (herbicide contaminant) □ DIOXINE □ NCI-C03714 □ TCDBD □ 2,3,7,8-TCDD □ 2,3,6,7-TETRACHLORODIBENZO-p-DIOXIN □ 2,3,7,8-TETRACHLORODIBENZO(b,e)(1,4)DIOXAN □ 2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN □ 2,3,7,8-TETRACHLORODIBENZO-1,4-DIOXIN □ TETRADIOXIN

TOXICITY DATA with REFERENCE:
eye-rbt 2 mg MOD EVHPAZ 5,87,73
mmo-smc 10 mg/L CMSHAF 12,549,83
oms-mus:oth 1 nmol/L JBCHA3 259,12357,84
skn-hmn TDLo:107 µg/kg:SKN SCAMAC 154,29,86
orl-rat LD50:20 µg/kg EXPEAM 38,879,82
ipr-rat LD50:24,600 mg/kg TXAPA9 45,513,78
orl-mus LD50:114 µg/kg TXAPA9 29,229,74
skn-mus LDLo:80 µg/kg RCOCB8 20,101,78
ipr-mus LD50:120 µg/kg SCAMAC 254,29,86
orl-dog LD50:1 µg/kg EXPEAM 38,879,82
orl-mky LD50:2 µg/kg EXPEAM 38,879,82
orl-rbt LD50:115 µg/kg TXAPA9 35,553,76
skn-rbt LD50:275 µg/kg EVHPAZ 5,87,73

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,350,87; Human Inadequate Evidence IMEMDT 15,41,77; Animal Inadequate Evidence IMEMDT 15,41,77. NTP Carcinogenesis Bioassay (gavage); Clear Evidence: mouse, rat NTPTR* NTP-TR-209,82; (dermal). EPA Genetic Toxicology Program.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

NIOSH REL: (Dioxin) Reduce to lowest feasible level

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. One of the most toxic synthetic chemicals. A deadly experimental poison by ingestion, skin contact, and intraperitoneal routes. Human systemic effects by skin contact: allergic dermatitis. Experimental reproductive effects. Human mutation data reported. An eye irritant.

TCDD is the most toxic member of the 75 dioxins. It causes death in rats by hepatic cell necrosis. Death can follow a lethal dose by weeks. Acute and subacute exposure result in wasting, hepatic necrosis, thymic atrophy, hemorrhage, lymphoid depletion, chloracne. A by-product of the manufacture of polychlorinated phenols. It is found at low levels in 2,4,5-T, 2,4,5-trichlorophenol, and hexachlorophene. It is also formed during various combustion processes. Incineration of chemical wastes, including chlorophenols, chlorinated benzenes, and biphenyl ethers, may result in the presence of TCDD in flue gases, fly ash, and soot particles. It is immobile in contaminated soil and may be retained for years. TCDD has the potential for bio-accumulation in animals. An accident in Seveso, Italy, and inadvertent soil contamination in Missouri have resulted in abandonment of the contaminated areas. When heated to decomposition it emits toxic fumes of Cl^-.

TAI050 CAS: 22604-10-0 HR: 3
TCNP SODIUM SALT
mf: C_7HN_4•Na mw: 164.11

SYNS: SODIUM SALT of 1,1,3,3-TETRACYANOPROPENE □ (1,1,3,3-TETRACYANOALLYL) SODIUM

TOXICITY DATA with REFERENCE:
orl-mus LD50:153 mg/kg AACHAX -,642,67
ipr-mus LD50:66 mg/kg AACHAX -,642,67
scu-mus LD50:75 mg/kg AACHAX -,642,67

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and Na_2O.

TAI100 CAS: 34521-14-7 HR: 3
TEAEI
mf: $C_9H_{22}N_3S$•Br•BrH mw: 365.23

SYNS: (2-((AMINOIMINOMETHYL)THIO)ETHYL)TRIETHYLAMMONIUM BROMIDE HYDROBROMIDE □ 2-((AMINOIMINOMETHYL)-THIO)-N,N,N-TRIETHYL-ETHANAMINIUM BROMIDE, MONOHYDROBROMIDE (9CI) □ s-(2-TRIETHYLAMINO-ETHYL)ISOTHIURONIUM BROMIDE HYDROBROMIDE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:90 mg/kg CPBTAL 23,1639,75
scu-mus LD50:99 mg/kg CPBTAL 23,1639,75
ivn-mus LD50:48,800 µg/kg CPBTAL 23,1639,75

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

TAI150 CAS: 68647-73-4 HR: 2
TEA TREE OIL

PROP: Essential oil distilled from the leaves and branchlets of Melaleuca alternifolia.

SYNS: MELALEUCA ALTERNIFOLIA OIL □ OILS, TEA-TREE

TOXICITY DATA with REFERENCE:
orl-rat LD50:1900 mg/kg FCTOD7 26,407,88
skn-rbt LDLo:5 g/kg FCTOD7 26,407,88

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.

TAI175 CAS: 112410-23-8 HR: D
TEBUFENOZIDE TECHNICAL
mf: $C_{22}H_{28}N_2O_2$ mw: 352.48
SYNS: BENZOIC ACID, 3,5-DIMETHYL-, 1-(1,1-DIMETHYLETHYL)-2-(4-ETHYLBENZOYL)HYDRAZIDE □ RH-75.992 TECHNICAL □ RH-75.992 2F □ TEBUFENOZIDE
TOXICITY DATA with REFERENCE:
ihl-rat LC50:4.5 g/m^3 FEREAC 64,18340,1999
orl-rat LD50:25 g/kg FEREAC 66,15445,2001
skn-rat LD50:5000 mg/kg FEREAC 66,15445,2001
SAFETY PROFILE: Low toxicity by ingestion, ihl and skin contact. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

TAI200 CAS: 65454-61-7 HR: 2
TECHNEPLEX
mf: $C_{14}H_{17}N_3O_{10}Tc{\bullet}Na$ mw: 507.33
SYNS: AN-DTPA □ (N,N-BIS(2-(BIS(CARBOXYMETHYL)AMINO)ETHYL)GLYCINATO(5-))TECHNETATE(1-)-9-9TC SODIUM □ GLYCINE, N,N-BIS(2-(BIS(CARBOXYMETHYL)AMINO)ETHYL)-, TECHNETIUM-99 COMPLEX □ MPI TC 99M DTPA KIT (CHELATE) □ TECHNETATE(1-)-99TC, (N,N-BIS(2-(BIS(CARBOXYMETHYL)-AMINO)ETHYL)GLYCINATO(5-))-, SODIUM
TOXICITY DATA with REFERENCE:
ivn-dog LD50:1809 mg/kg NIIRDN-,792,1995
ivn-rbt LD50:1133 mg/kg NIIRDN-,792,1995
SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and Tc.

TAI220 CAS: 129407-28-9 HR: D
TEFESTROL
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

TAI250 CAS: 9002-84-0 HR: 2
TEFLON
mf: $(C_2F_4)_n$
PROP: Grayish-white, tough plastic. Chemically very inert. Mp: 342°, d: 2.1−2.3.
SYNS: AFLON □ ALGLOFLON □ ALGOFLON SV □ ALKATHENE RXDG33 □ AMIP 15m □ BALFON 7000 □ BDH 29-801 □ CHROMOSORB T □ DIXON 164 □ DLX-6000 □ DUROID 5870 □ EK 1108GY-A □ ETHICON PTFE □ FLUO-KEM □ FLUON □ FLUOROFLEX □ FLUOROLON 4 □ FLUOROPAK 80 □ FLUORPLAST 4 □ FTORLON 4 □ FTOROPLAST 4 □ GORE-TEX □ HALON TFEG 180 □ HEYDEFLON □ HOSTAFLON □ MOLYKOTE 522 □ POLIFEN □ POLITEF □ POLY(ETHYLENE TETRAFLUORIDE) □ POLYFENE □ POLYFLON □ POLYTEF □ POLYTETRAFLUOROETHENE □ POLYTETRAFLUORO-ETHYLENE □ PTFE □ SOREFLON 604 □ TARFLEN □ TEFLON (various) □ TETRAFLUOROETHENE HOMOPOLYMER □ TETRAFLUOROETHENE POLYMER □ TETRAFLUORO-ETHYLENE HOMOPOLYMER □ TETRAFLUOROETHYLENE POLYMERS □ TETRAN PTFE □ UNON P □ VALFLON □ VELFLON □ ZITEX H 662-124
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 19,285,79; Human Inadequate Evidence IMEMDT 19,285,79. Reported in EPA TSCA Inventory.
SAFETY PROFILE: The finished polymerized compound is inert under ordinary conditions. There have been reports of "polymer fume fever" in humans exposed to pyrolysis products, which also are irritants. Smoking should be prohibited in areas where this material is being fabricated or, in general, where there may be dust from it. Exposure to pyrolysis or decomposition products appears to be the chief health-related problem. Questionable carcinogen with experimental tumorigenic data by implant. Incompatible with fluorine, sodium potassium alloy. Under the proper conditions it undergoes hazardous reactions with boron, magnesium, or titanium. When heated to above 750°F it decomposes to yield highly toxic fumes of F^-.

TAI400 CAS: 61036-64-4 HR: 3
TEICHOMYCIN A2
PROP: Amorphous powder. Mp: 260° (decomp).
TOXICITY DATA with REFERENCE:
ipr-mus LD50:1000 mg/kg 85GDA2 1,323,80
scu-mus LD50:2860 mg/kg 48HGAR 12,342,82
ivn-mus LD50:275 mg/kg JANTAJ 31,276,78
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous and intraperitoneal routes.

TAI450 CAS: 50679-08-8 HR: 2
TELDANE
mf: $C_{32}H_{41}NO_2$ mw: 471.74
PROP: Crystals from acetone. Mp: 146.5−148.5°.
SYNS: ALDABAN □ α-(4-(1,1-DIMETHYLETHYL)PHENYL)-4-(HYDROXYDIPHENYLMETHYL)-1-PIPERIDINEBUTANOL □ RMI 9918 □ TERFENADINE □ TRILUDAN
TOXICITY DATA with REFERENCE:
orl-man TDLo:156 mg/kg/13W-I:SKN BMJOAE 291,940,85
orl-man TDLo:857 µg/kg:SKN,ALR BMJOAE 293,536,86
orl-wmn TDLo:1200 µg/kg:SKN,ALR BMJOAE 293,536,86
orl-wmn TDLo:190 mg/kg/23W-I AIMEAS 103,634,85
orl-cld TDLo:3 mg/kg:SKN,ALR BMJOAE 293,536,86
orl-rat LD50:5 g/kg PHINDQ 4,252,83
ipr-rat LD50:474 mg/kg ARZNAD 32,1179,82
orl-mus LD50:5 g/kg PHINDQ 4,252,83
ipr-mus LD50:510 mg/kg ARZNAD 32,1179,82
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Human systemic effects: allergic reactions, allergic rhinitis, dermatitis, serum sickness, urticaria. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. Used as an antihistamine.

TAI500 CAS: 113-92-8 HR: 3
TELDRIN
mf: $C_{16}H_{19}ClN_2{\bullet}C_4H_4O_4$ mw: 390.90

PROP: Sol in H_2O, EtOH, $CHCl_3$; spar sol in C_6H_6, Et_2O.
SYNS: ALLERCLOR □ ALLERGIN □ ALLERGISAN □ ALUNEX □ ANTAGONATE □ CARBINOXAMIDE MALEATE □ CHLORMENE □ dl-2(-p-CHLORO-α-2-(DIMETHYLAMINO)-ETHYLBENZYL)PYRIDINE BIMALEATE □ 1-p-CHLOROPHEN-YL-1-(2-PYRIDYL)-3-DIMETHYLAMINOPROPANE MALEATE □ CHLOROPROPHENYLPYRIDAMINE MALEATE □ CHLOR-PHENIRAMINE MALEATE □ CHLOR-TRIMETON □ CHLOR-TRIMETON MALEATE □ CHLOR-TRIPOLON □ CLOROPIRIL □ C-METON □ 1-(N,N-DIMETHYLAMINO)-3-(p-CHLOROPHENYL-3-α-PYRIDYL)PROPANE MALEATE □ HISTADUR □ HISTADUR DURA-TABS □ HISTALEN □ HISTAPAN □ IBIOTON □ LORPHEN □ M.P. CHLORCAPS T.D. □ NCI-C55265 □ NEOREST-AMIN □ PIRIEX □ PIRITON □ POLARONIL (GERMAN) □ PYRIDAMAL-100 □ SYNISTAMIN

TOXICITY DATA with REFERENCE:
cyt-ham:ovr 500 mg/L NTPTR* NTP-TR-317,86
sce-ham:ovr 125 mg/L NTPTR* NTP-TR-317,86
orl-rat LD50:306 mg/kg KSRNAM 12,1371,78
scu-rat LD50:365 mg/kg TXAPA9 18,185,71
orl-mus LD50:130 mg/kg ARZNAD 28,1644,78
ipr-mus LD50:76,700 µg/kg JPETAB 113,72,55
ivn-mus LD50:26,100 µg/kg TXAPA9 23,537,72
ivn-dog LD50:97,600 µg/kg JPETAB 113,72,55
orl-gpg LD50:198 mg/kg JPETAB 113,72,55

CONSENSUS REPORTS: NTP Carcinogenesis Studies (gavage); No Evidence: mouse, rat NTPTR* NTP-TR-317,86. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intravenous, and subcutaneous routes. Experimental reproductive effects. Used as an antihistamine. Mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

TAI600 CAS: 37244-85-2 HR: 3
TELEBRIX 38
mf: $C_{12}H_{11}I_3N_2O_5 \bullet C_{12}H_{11}I_3N_2O_5 \bullet C_7H_{17}NO_5 \bullet Na$ mw: 1506.14
SYN: AG 58107

TOXICITY DATA with REFERENCE:
ivn-rat LD50:16,800 mg/kg THERAP 26,595,71
ipr-mus LD50:21,900 mg/kg THERAP 26,595,71
ivn-mus LD50:13,700 mg/kg THERAP 26,595,71
ice-mus LD50:200 mg/kg THERAP 26,595,71

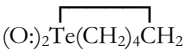
SAFETY PROFILE: Poison by intracerebral route. When heated to decomposition it emits toxic fumes of I^-, NO_x, and Na_2O.

TAI725 CAS: 66813-55-6 HR: 2
TELEMIN-SOFT

TOXICITY DATA with REFERENCE:
orl-rat LD50:4 g/kg OYYAA2 15,85,78
orl-mus LD50:4600 mg/kg OYYAA2 15,85,78

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

TAI735 HR: 3
TELLURANE-1,1-DIOXIDE
mf: $C_5H_{10}O_2Te$ mw: 229.73



SAFETY PROFILE: Explodes when heated rapidly. Violent reaction on contact with acids (e.g., sulfuric acid; nitric acid). When heated to decomposition it emits toxic fumes of Te. See also TELLURIUM COMPOUNDS.

TAI750 CAS: 7803-68-1 HR: 3
TELLURIC ACID
mf: H_6O_6Te mw: 229.66

PROP: White crystals or solid; stable to 1°. D: (monoclinic) 3.068, (cubic) 3.163. Mp: 136°. Sltly sol in concentrated nitric acid; very sol in water.
SYNS: ORTHOTELLURIC ACID □ TELLURATE □ TELLURIC(VI) ACID □ TELLURIUM HYDROXIDE

TOXICITY DATA with REFERENCE:
ivn-rat LDLo:31 mg/kg JPETAB 33,270,28
orl-rbt LDLo:56 mg/kg JPETAB 33,270,28
ivn-rbt LDLo:5600 µg/kg JPETAB 33,270,28

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Te)/m^3
ACGIH TLV: TWA 0.1 mg(Te)/m^3

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of Te. See also TELLURIUM COMPOUNDS.

TAI800 CAS: 22451-06-5 HR: 3
TELLURIC ACID, DISODIUM SALT, PENTAHYDRATE
mf: $O_3Te \bullet 2Na \bullet 5H_2O$ mw: 380.65

TOXICITY DATA with REFERENCE:
ipr-mus LD50:7 mg/kg COREAF 257,791,63

OSHA PEL: TWA 0.1 mg(Te)/m^3
ACGIH TLV: TWA 0.1 mg(Te)/m^3

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

TAJ000 CAS: 13494-80-9 HR: 3
TELLURIUM
af: Te aw: 127.60

PROP: Silvery-white, metallic, lustrous element; quite brittle. Semiconductor; poor conductor of heat. Forms golden-yellow vapor. Red when colloidal. Mp: 449.5°, bp: 989.8°, d: 6.24 @ 20°, vap press: 1 mm @ 520°. Insol in water, benzene, carbon disulfide, and all solvs with which it does not react. IDLH 25 mg/m^3 (as Te).
SYNS: NCI-C60117 □ TELLOY □ TELLUR (POLISH)

TOXICITY DATA with REFERENCE:
orl-rat LD50:83 mg/kg 85GMAT -,107,82
itr-rat LDLo:200 mg/kg AIHAAP 39,100,78
orl-mus LD50:20 mg/kg 85GMAT -,107,82
orl-rbt LD50:67 mg/kg 85GMAT -,107,82
orl-gpg LD50:45 mg/kg 85GMAT -,107,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Te)/m^3
ACGIH TLV: TWA 0.1 mg(Te)/m^3
DFG MAK: 0.1 mg/m^3

NIOSH REL: (Tellurium and Compounds) TWA 0.1 mg/m^3
SAFETY PROFILE: Poison by ingestion and intratracheal routes. An experimental teratogen. Exposure causes nausea, vomiting, tremors, convulsions, respiratory arrest, central nervous system depression, and garlic odor to breath. Aerosols of tellurium, tellurium dioxide, and hydrogen telluride cause irritation of the respiratory system and may lead to the development of bronchitis and pneumonia. Experimental reproductive effects. Under the proper conditions it undergoes hazardous reactions with halogens (e.g., chlorine, fluorine), interhalogens (e.g., bromine pentafluoride, chlorine fluoride, chlorine trifluoride), metals (e.g., cadmium, potassium, sodium, platinum, tin, zinc), hexalithium disilicide, silver bromate, silver iodate. When heated to decomposition it emits toxic fumes of Te. See also TELLURIUM COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Elements (ICP) 7300.

TAJ250 CAS: 10026-07-0 HR: D
TELLURIUM CHLORIDE
mf: Cl_4Te mw: 269.40
PROP: White crystals, solid; red liquid and red vapor. Hydrolyzed by moist air. Mp: 224°, bp: 380°, d: 3.260. Hygroscopic. Sol in non-polar org solvs.
SYNS: TELLURIC CHLORIDE □ TELLURIUM TETRACHLORIDE □ TETRACHLOROTELLURIUM
TOXICITY DATA with REFERENCE:
mrc-bcs 1 mmol/L MUREAV 77,109,80
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 0.1 mg(Te)/m^3
ACGIH TLV: TWA 0.1 mg(Te)/m^3
SAFETY PROFILE: Mutation data reported. Experimental reproductive effects. Incompatible with ammonia. Irritant. When heated to decomposition it emits very toxic fumes of Cl^- and Te. See also TELLURIUM COMPOUNDS.

TAJ500 HR: 2
TELLURIUM COMPOUNDS
SAFETY PROFILE: Elemental tellurium has relatively low toxicity. It is converted in the body to dimethyl telluride, which imparts a garlic-like odor to the breath and sweat. Heavy exposures may, in addition, result in headache, drowsiness, metallic taste, loss of appetite, nausea, tremors, convulsions, and respiratory arrest. Various tellurium salts may also produce similar symptoms. Large doses can be fatal, as was the case following accidental administration of 2 g of sodium tellurite. Workers in an iron foundry exposed to less than 0.1 mg Te/m^3 developed a garlic-like odor in breath, sweat, and urine, as well as anorexia, nausea, depression, somnolence, itchy skin, and metallic taste. When heated or on contact with acid or acid fumes they emit highly toxic fumes. See also TELLURIUM and specific compounds.

TAJ600 CAS: 13494-80-9 HR: 1
TELLURIUM (dust or fume)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Extremely Hazardous Substances List.
ACGIH TLV: TWA 0.1 mg/m^3
DFG MAK: 0.1 mg/m^3
SAFETY PROFILE: May cause irritation of the respiratory system and lead to bronchitis and pneumonia. When heated to decomposition it emits toxic fumes of Te. See also TELLURIUM and TELLURIUM COMPOUNDS.

TAJ750 CAS: 7446-07-3 HR: 3
TELLURIUM DIOXIDE
mf: O_2Te mw: 159.60
PROP: Dimorphous solid. Melts to a dark red liquid. Bp: 790−940°. Sol in aq NaOH, HCl; almost insol in H_2O.
SYN: TELLURIUM OXIDE
TOXICITY DATA with REFERENCE:
itr-rat LDLo:80 mg/kg AIHAAP 39,100,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Te)/m^3
ACGIH TLV: TWA 0.1 mg(Te)/m^3
SAFETY PROFILE: Poison by intratracheal route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Te. See also TELLURIUM COMPOUNDS.

TAK250 CAS: 7783-80-4 HR: 3
TELLURIUM HEXAFLUORIDE
DOT: UN 2195
mf: F_6Te mw: 241.60
PROP: Colorless gas; repulsive odor. White solid at low temp; subl before melting. Hydrol by H_2O and aq KOH. Mp: −37.6°, bp: −38.9° (subl), d: (solid) 4.006 @ −191°, (liquid) 2.499 @ −10°. IDLH 1 ppm.
TOXICITY DATA with REFERENCE:
ihl-rat LCLo:5 ppm/24H ATXKA8 18,140,60
ihl-mus LCLo:5 ppm/24H ATXKA8 18,140,60
ihl-rbt LCLo:5 ppm/8H ATXKA8 18,140,60
ihl-gpg LCLo:5 ppm/6H ATXKA8 18,140,60
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.02 ppm (Te)
ACGIH TLV: TWA 0.02 ppm (Te)
DOT CLASSIFICATION: 2.3; Label: Poison Gas
SAFETY PROFILE: Poison by inhalation. Human skin (systemic) effects. When heated to decomposition it emits very toxic fumes of F^- and Te. See also FLUORIDES and TELLURIUM COMPOUNDS.

TAK500 HR: 3
TELLURIUM NITRIDE
PROP: A solid.
SAFETY PROFILE: Poison. A severe explosion hazard when shocked or exposed to heat. Will react with water or steam to produce toxic fumes. When heated or on contact with acid or acid fumes it emits highly toxic fumes of Te and NO_x. See also TELLURIUM COMPOUNDS and NITRIDES.

TAK600 CAS: 10031-27-3 HR: 3
TELLURIUM TETRABROMIDE
mf: $TeBr_4$ mw: 447.22
PROP: Yellow solid. Hygroscopic and readily hydrolyzes. Dissociates as vapor to Br_2 + $TeBr_2$. Mp: 363° in Br_2 vap, bp: 414–427°. Sol in $CHCl_3$, Et_2O; insol in CCl_4.
SAFETY PROFILE: Reaction with ammonia forms a heat-sensitive explosive product. When heated to decomposition it emits toxic fumes of Br^- and Te. See also TELLURIUM COMPOUNDS and BROMIDES.

TAK750 CAS: 11032-05-6 HR: 3
TELOCIDIN B
mf: $C_{28}H_{41}N_3O_2$ mw: 451.72
PROP: Prisms from diisopropyl ether. Mp: 230–232.5°.
TOXICITY DATA with REFERENCE:
dns-hmn:lng 100 nmol/L CRNGDP 5,209,84
oms-hmn:lng 100 nmol/L CRNGDP 5,209,84
dni-hmn:lym 10 µg/L ONCOBS 40,273,83
dns-rat:lvr 100 pmol/L CRNGDP 5,1547,84
ipr-mus LDLo:300 µg/kg SCIEAS 204,193,79
ivn-mus LD50:220 µg/kg SCIEAS 204,193,79
SAFETY PROFILE: A deadly poison by intraperitoneal and intravenous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TAK800 CAS: 19246-24-3 HR: 2
TELOMYCIN
mf: $C_{59}H_{77}N_{13}O_{19}$ mw: 1272.36
PROP: Amorph, gray solid. Minimum solubility in water at pH 3.0 to 3.3 = 4 mg/mL. Maximum solubility is above pH 8.5 = >150 mg/mL. Sol in 10% sodium chloride soln less than 1 mg/mL; mod sol in methanol, ethanol; very sltly sol in acetone, ethyl acetate; insol in ether, chloroform, hydrocarbons.
TOXICITY DATA with REFERENCE:
scu-mus LD50:1000 mg/kg 85GDA2 4(2),161,80
ivn-mus LD50:750 mg/kg 85GDA2 4(2),161,80
SAFETY PROFILE: Moderately toxic by subcutaneous and intravenous routes. When heated to decomposition it emits toxic NO_x fumes.

TAK850 CAS: 108319-06-8 HR: D
TEMAFLOXACIN
mf: $C_{21}H_{18}F_3N_3O_3$ mw: 417.42
PROP: hird-generation quinolone antibiotic.
SYNS: A 62254 □ 3-QUINOLINECARBOXYLIC ACID, 1,4-DIHYDRO-1-(2,4-DIFLUOROPHENYL)-6-FLUORO-7- (3-METHYL-1-PIPERAZINYL)-4-OXO- □ T 1258
TOXICITY DATA with REFERENCE:
mic-bac-sat 60 µg/L AACHAX 37,213,93
uns-bac-esc 50 µg/L AACHAX 37,213,93
pic-bac-esc 50 µg/L AACHAX 37,213,93
dnr-bcs 20 mg/L AACHAX 37,213,93
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of F^- and Cl^-.

TAL000 CAS: 3589-21-7 HR: 3
TEMARIL
mf: $C_{20}H_{26}N_2$•ClH mw: 330.94
PROP: An antihistmine.
SYNS: 5-(3-DIMETHYLAMINO-2-METHYLPROPYL)-10,11-DIHYDRO-5H-DIBENZ(b,f)AZEPINE HYDROCHLORIDE □ TRIMEPRAMINE HYDROCHLORIDE □ TRIMEPROPIMINE HYDROCHLORIDE □ TRIMEPROPRIMINE HYDROCHLORIDE □ TRIMIPROMINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:800 mg/kg 27ZQAG -,91,72
ipr-rat LD50:150 mg/kg 27ZQAG -,91,72
ivn-rat LD50:38 mg/kg 27ZQAG -,91,72
orl-mus LD50:250 mg/kg 27ZQAG -,91,72
ipr-mus LD50:135 mg/kg 27ZQAG -,91,72
scu-mus LD50:200 mg/kg 27ZQAG -,91,72
ivn-mus LD50:58 mg/kg 27ZQAG -,91,72
ims-mus LD50:223 mg/kg SKIZAB 25,644,69
SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

TAL250 CAS: 3383-96-8 HR: 3
TEMEPHOS
mf: $C_{16}H_{20}O_6P_2S_3$ mw: 466.48
PROP: White crystals or solid. Technical grade is a brown viscous liquid. Mp: 30°. Very spar sol in H_2O, hexane; sol in CCl_4, Et_2O, and toluene.
SYNS: ABATE □ ABATHION □ AC 52160 □ AMERICAN CYANAMID AC 52,160 □ BIOTHION □ BITHION □ CL 52160 □ DIFENTHOS □ O,O-DIMETHYL PHOSPHOROTHIOATE-O,O-DIESTER with 4,4'-THIODIPHENOL □ ECOPRO □ EI 52160 □ ENT 27,165 □ EXPERIMENTAL INSECTICIDE 52160 □ NIMITEX □ NIMITOX □ SWEBATE □ TEMEFOS □ TEMOPHOS □ TETRAMETHYL-O,O'-THIODI-p-PHENYLENE PHOSPHORO-THIOATE □ O,O,O'O'-TETRAMETHYL-O,O'-THIODI-p-PHENYLENE PHOSPHOROTHIOATE □ O,O'-(THIODI-4,1-PHENYLENE)BIS(O,O-DIMETHYL PHOSPHOROTHIOATE) □ O,O'-(THIODI-p-PHENYLENE)-O,O,O',O'-TETRAMETHYL BIS(PHOSPHOROTHIOATE)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD TXAPA9 21,369,72
orl-rat LD50:1000 mg/kg GUCHAZ 6,493,73
skn-rat LD50:1370 mg/kg WRPCA2 9,119,70
ipr-rat LD50:912 mg/kg TOIZAG 16,297,69
scu-rat LD50:2302 mg/kg TOIZAG 16,297,69
orl-mus LD50:223 mg/kg ARSIM* 20,1,66
orl-rbt LD50:313 mg/kg VETNAL 60(11),63,84
skn-rbt LD50:970 mg/kg AMCYC* 8/66
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 10 mg/m^3
SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal, subcutaneous, and skin contact routes. An experimental teratogen. A skin irritant. A cholinesterase inhibitor type of insecticide. When heated to decomposition it emits toxic fumes of PO_x and SO_x. See also PARATHION.

TAL275 CAS: 30015-57-7 HR: 3
TEMEQUINE

mf: $C_{11}H_{21}N$•BrH mw: 248.25
SYNS: TEMECHINE □ 2,2,6,6-TETRAMETHYLQUINUCLIDINE HYDROBROMIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:345 mg/kg PCJOAU 4,588,70
scu-mus LD50:130 mg/kg RPTOAN 35,278,72
ivn-mus LD50:52 mg/kg PCJOAU 4,588,70
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and Br^-.

TAL325 CAS: 52485-79-7 HR: 3
TEMGESIC
mf: $C_{29}H_{41}NO_4$ mw: 467.71
PROP: Crystals. Mp: 209°.
SYNS: BUPRENORPHINE □ RX 6029M
TOXICITY DATA with REFERENCE:
ipr-rat LD50:197 mg/kg DRUGAY 17,81,79
ivn-rat LD50:31 mg/kg DRUGAY 17,81,79
orl-mus LD50:260 mg/kg DRUGAY 17,81,79
ipr-mus LD50:90 mg/kg DRUGAY 17,81,79
ivn-mus LD50:24 mg/kg DRUGAY 17,81,79
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Note: This is a controlled substance (narcotic) listed in the U.S. Code of Federal Regulations, Title 21 Part 1308.15 (1985). When heated to decomposition it emits toxic fumes of NO_x.

TAL335 CAS: 39296-38-3 HR: 2
TEMPALGIN
mf: $C_{13}H_{17}N_3O_4S$•$C_9H_{17}NO$•$C_7H_8O_3S$•Na mw: 661.86
SYNS: ANALGIN-TEMPIDONE MIXTURE □ METHANE-SULFONIC ACID, ((2,3-DIHYDRO-1,5-DIMETHYL-3-OXO-2-PHENYL-1H-PYRAZOL-4-YL)METHYLAMINO)-,SO DIUM SALT, MIX.T WITH 2,2,6,6-TETRAMETHYL-4-PIPERIDINONE 4-METHYLBENZENESULFONATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:2700 mg/kg KHZDAN 37(5-6),25,1996
ipr-rat LD50:1900 mg/kg KHZDAN 37(5-6),25,1996
orl-mus LD50:4 g/kg KHZDAN 37(5-6),25,1996
ipr-mus LD50:2850 mg/kg KHZDAN 37(5-6),25,1996
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TAL350 CAS: 62169-70-4 HR: 3
TENEMYCIN
SYNS: A-12253 □ TENEBRIMYCIN
TOXICITY DATA with REFERENCE:
orl-mus LD50:8000 mg/kg 85GDA2 1,163,80
ipr-mus LD50:1250 mg/kg 85GDA2 1,163,80
scu-mus LD50:1500 mg/kg 85GDA2 1,163,80
ivn-mus LD50:300 mg/kg 85GDA2 1,163,80
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal and subcutaneous routes. Mildly toxic by ingestion.

TAL475 CAS: 29122-68-7 HR: 3
TENORMIN
mf: $C_{14}H_{22}N_2O_3$ mw: 266.38
PROP: Crystals from ethyl acetate. Mp: 146−148°.
SYNS: ATENOLOL □ 1-p-CARBAMOYLMETHYLPHENOXY-3-ISOPROPYLAMINO-2-PROPANOL □ 2-(p-(2-HYDROXY-3-(ISOPROPYLAMINO)PROPOXY)PHENYL)ACETAMIDE □ 4-(2-HYDROXY-3-((1-METHYLETHYL)AMINO)PROPOXY)-BENZENEACETAMIDE □ IBINOLO □ ICI 66,082 □ PRENORMINE □ MYOCORD □ SELES BETA
TOXICITY DATA with REFERENCE:
orl-man TDLo:49 mg/kg/30D-I JCPYDR 6,390,86
orl-wmn TDLo:16 mg/kg:PUL AEMED3 14,161,85
orl-wmn TDLo:1080 mg/kg/78W-I:BLD,SKN JRHUA9 13,446,86
orl-wmn TDLo:42 mg/kg/3W-I:SYS BMJOAE 294,1324,87
orl-rat LD50:3000 mg/kg DRUGAY 17,425,79
ivn-rat LD50:59 mg/kg DRUGAY 17,425,79
orl-mus LD50:2000 mg/kg DRUGAY 17,425,79
ivn-mus LD50:57 mg/kg YACHDS 8,4579,80
ivn-rbt LD50:50 mg/kg DRUGAY 17,425,79
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. Human systemic effects: calcium level changes, dermatitis, leukopenia, respiratory obstruction. An experimental teratogen. Human and experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

TAL485 CAS: 59804-37-4 HR: 3
TENOXICAM
mf: $C_{13}H_{11}N_3O_4S_2$ mw: 337.37
PROP: Crystals from xylene. Mp: 209−213° (decomp).
SYNS: 4-HYDROXY-2-METHYL-N-2-PYRIDINYL-2H-THIENO(2,3-e)-1,2-THIAZINE-3-CARBOXAMIDE 1,1-DIOXIDE □ RO 12-0068 □ TILCOTIL
TOXICITY DATA with REFERENCE:
orl-rat LD50:79 mg/kg YACHDS 12(Suppl 5),759,84
ipr-rat LD50:234 mg/kg YACHDS 12(Suppl 5),759,84
scu-rat LD50:186 mg/kg YACHDS 12(Suppl 5),759,84
orl-mus LD50:297 mg/kg YACHDS 12(Suppl 5),759,84
ipr-mus LD50:446 mg/kg YACHDS 12(Suppl 5),759,84
scu-mus LD50:449 mg/kg YACHDS 12(Suppl 5),759,84
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

TAL490 CAS: 302-83-0 HR: 3
TENSILON BROMIDE
mf: $C_{10}H_{16}NO$•Br mw: 246.18
PROP: Crystals with bitter taste from ethanol + ether; decomp @ 151−152°. Bitter taste. Sol in water (more than 10%); mod sol in alc; practically insol in ether. Solns are stable.
SYNS: EDROPHONIUM BROMIDE □ N-ETHYL-3-HYDROXY-N,N-DIMETHYL-BENZENAMINIUM BROMIDE (9CI) □ ETHYL(m-HYDROXYPHENYL)DIMETHYLAMMONIUM BROMIDE (8CI) □ 3-HYDROXYPHENYLDIMETHYLETHYL-AMMONIUM BROMIDE □ OEDROPHANIUM □ TENSILON
TOXICITY DATA with REFERENCE:
orl-mus LD50:600 mg/kg JPETAB 100,83,50
ipr-mus LD50:37 mg/kg JPETAB 100,83,50
scu-mus LD50:130 mg/kg JPETAB 100,83,50
ivn-mus LD50:9 mg/kg JPETAB 100,83,50
ivn-dog LD50:15 mg/kg JPETAB 100,83,50
inv-rbt LD50:29 mg/kg JPETAB 100,83,50

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

TAL550 CAS: 19202-92-7 HR: 3
TENULIN
mf: $C_{17}H_{22}O_5$ mw: 306.39
PROP: Crystals from H_2O. Mp: 196−198°.
TOXICITY DATA with REFERENCE:
dni-mus-unr 30 mg/kg/3D JMCMAR 20,333,77
dni-mus:ast 2143 µmol/L JPMSAE 67,1235,78
ipr-mus LD50:185 mg/kg RCOCB8 28,189,80
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported.

TAL560 CAS: 65184-10-3 HR: 3
TEOPROLOL
mf: $C_{23}H_{30}N_6O_4$ mw: 454.59
PROP: Crystals from 2-propanol. Mp: 146°.
SYNS: D-13,312 □ 3,7-DIHYDRO-7-(3-((2-HYDROXY-3-((2-METHYL-1H-INDOL-4-YL)OXY)PROPYL)AMINO)BUTYL)-1,3-DIMETHYL-1H-PURINE-2,6-DIONE □ 7-(3-((2-HYDROXY-3-((2-METHYLINDOL-4-YL)OXY)PROPYL)AMINO)BUTYL)-THEOPHYLLINE
TOXICITY DATA with REFERENCE:
ivn-rat LD50:110 mg/kg DRFUD4 7,824,82
orl-mus LD50:1870 mg/kg DRFUD4 7,824,82
ivn-mus LD50:39 mg/kg DRFUD4 7,824,82
ivn-dog LD50:38 mg/kg DRFUD4 7,824,82
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

TAL575 CAS: 15589-31-8 HR: 3
TERALLETHRIN
mf: $C_{17}H_{24}O_3$ mw: 276.41
PROP: Pesticide.
SYNS: (±)-3-ALLYL-2-METHYL-4-OXO-2-CYCLOPENTENYL 2,2,3,3-TETRAMETHYLCYCLOPROPANE CARBOXYLATE □ M-108
TOXICITY DATA with REFERENCE:
orl-rat LD50:174 mg/kg IYKEDH 13,1128,82
ipr-rat LD50:81 mg/kg IYKEDH 13,1128,82
scu-rat LD50:252 mg/kg IYKEDH 13,1128,82
orl-mus LD50:177 mg/kg IYKEDH 13,1128,82
ipr-mus LD50:81 mg/kg IYKEDH 13,1128,82
scu-mus LD50:293 mg/kg IYKEDH 13,1128,82
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

TAL750 HR: 2
TERBIUM
af: Tb aw: 158.9254
PROP: A silvery-gray, soft, ductile, malleable metallic element. Easily oxidized in air. Mp: 1356°, bp: 3041°, d: 8.234.
SAFETY PROFILE: As a lanthanid it may impair blood coagulation. Fire hazard in the form of dust in air or on contact with halogens. Incompatible with air, halogens. See also POWDERED METALS and RARE EARTHS.

TAM000 CAS: 10042-88-3 HR: 3
TERBIUM CHLORIDE
mf: Cl_3Tb mw: 265.27
PROP: Hygroscopic white solid. Mp: 588°, bp: 1550°. Sol in H_2O and EtOH.
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV TXAPA9 5,427,63
eye-rbt 50 mg TXAPA9 5,427,63
orl-mus LD50:3631 mg/kg EQSSDX 1,1,75
ipr-mus LD50:332 mg/kg AEHLAU 5,437,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. An eye and severe skin irritant. When heated to decomposition it emits very toxic fumes of Cl^-. See also TERBIUM, CHLORIDES, and RARE EARTHS.

TAM100 CAS: 13798-24-8 HR: 2
TERBIUM CHLORIDE, HEXAHYDRATE
mf: $Cl_3Tb{\bullet}6H_2O$ mw: 373.39
SYN: TERBIUM TRICHLORIDE HEXAHYDRATE
TOXICITY DATA with REFERENCE:
mor-mus-oth 30 µmol/L CRNGDP 7,1949,1986
orl-mus LD50:5100 mg/kg JPMSAE 54,663,1965
ipr-mus LD50:550 mg/kg JPMSAE 54,663,1965
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Low toxicity by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of Tb and Cl^-.

TAM500 CAS: 13482-49-0 HR: 3
TERBIUM CITRATE
mf: $C_6H_8O_7{\bullet}Tb$ mw: 351.06
SYN: 2-HYDROXY-1,2,3-PROPANECARBOXYLIC ACID TERBIUM (3+) SALT (1:1)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:121 mg/kg AEHLAU 5,437,62

ipr-gpg LD50:74 mg/kg AEHLAU 5,437,62
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating fumes. See also TERBIUM and RARE EARTHS.

TAN000 CAS: 12738-76-0 HR: 1
TERBIUM OXIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5 g/kg JACTDZ 12,628,93
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion. Moderately toxic by ingestion. See also TERBIUM and RARE EARTHS.

TAN050 CAS: 107534-96-3 HR: 3

TERBUCONAZOLE
mf: $C_{16}H_{23}ClN_3O$ mw: 308.87
SYNS: BAY-HWG 1608 □ (RS)-1-(4-CHLOROPHENYL)-4,4-DIMETHYL-3-(1H-1,2,4-TRIAZOL-1-YLMETHYL)PENTAN-3-OL □ (RS)-1-p-CHLOROPHENYL-4,4-DIMETHYL-3-(1H-1,2,4-TRIAZOL-1-YLMETHYL)PENTAN-3-OL □ α-(2-(4-CHLOROPHENYL)ETHYL)-α-(1,1-DIMETHYLETHYL)-1H-1,2,4-TRIAZOLE-1-ETHANOL □ ELITE □ LYNX □ 1H-1,2,4-TRIAZOLE-1-ETHANOL, α-(2-(4-CHLOROPHENYL)ETHYL)-α-(1,1-DIMETHYLETHYL)-, (+-)-
TOXICITY DATA with REFERENCE:
orl-rat LD50:4 g/kg FMCHA2 -,C294,91
ihl-rat LC50:>800 mg/m^3/4H PEMNDP 9,785,91
skn-rat LD50:>5 g/kg FMCHA2 -,C294,91
orl-mus LD50:2 g/kg PEMNDP 9,785,91
orl-ckn LD50:4488 mg/kg PEMNDP 9,785,91
orl-brd-dom LD50:>1 g/kg PEMNDP 9,785,91
SAFETY PROFILE: A poison by inhalation route. Moderately toxic by ingestion and skin contact routes. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

TAN100 CAS: 23031-25-6 HR: 3
TERBUTALINE
mf: $C_{12}H_{19}NO_3$ mw: 225.32

PROP: Solid.
SYNS: 1,3-BENZENEDIOL, 5-(2-((1,1-DIMETHYLETHYL)-AMINO)-1-HYDROXYETHYL)- (9CI) □ BENZYL ALCOHOL, α-((t-BUTYLAMINO)METHYL)-3,5-DIHYDROXY- □ BRICAN □ BRICANYL □ BRICAR □ BRICARIL □ BRICYN □ 5-(2-((1,1-DIMETHYLETHYL)AMINO)-1-HYDROXYETHYL)-1,3-BENZENEDIOL □ KWD 2019 □ TERBUTALIN
TOXICITY DATA with REFERENCE:
mul-wmn TDLo:380 µg/kg:CVS JAMAAP 244,692,80
orl-man TDLo:714 µg/kg NEJMAG 300,143,79
SAFETY PROFILE: Poison by ingestion. Human reproductive effects. Human systemic effects by multiple routes: cardiac changes. When heated to decomposition it emits toxic fumes of NO_x.

TAN250 CAS: 23031-32-5 HR: 3
TERBUTALINE SULFATE
mf: $C_{24}H_{36}N_2O_8S$ mw: 512.68
PROP: A solid. Mp: 246−248°.
SYNS: BRETHINE □ BRICANYL □ α-((BUTYLAMINO)-METHYL)-3,5-DIHYDROXYBENZYL ALCOHOL, SULFATE (2:1) □ 1-(3,5-DIHYDROXYPHENYL)-2-tert-BUTYLAMINOETHANOL SULPHATE □ 5-(2-((1,1-DIMETHYLETHYL)AMINO)-1-HYDROXYETHYL)-1,3-BENZENEDIOL, SULFATE (2:1) (SALT) □ KWD 2019 □ TERBUTALINE SULFATE
TOXICITY DATA with REFERENCE:
orl-wmn TDLo:10 mg/kg HUTODJ 6,525,87
scu-wmn TDLo:50 µg/kg:CVS NEJMAG 296,821,77
orl-rat LD50:8700 mg/kg IYKEDH 5,106,74
ipr-rat LD50:220 mg/kg IYKEDH 5,106,74
scu-rat LD50:130 mg/kg NIIRDN 6,500,82
ivn-rat LD50:69 mg/kg IYKEDH 5,106,74
orl-mus LD50:205 mg/kg APTOA6 31,49,72
ipr-mus LD50:130 mg/kg NIIRDN 6,500,82
scu-mus LD50:260 mg/kg IYKEDH 5,106,74
ivn-mus LD50:36 mg/kg IYKEDH 5,106,74
orl-dog LD50:1520 mg/kg KSRNAM 6,757,72
ivn-dog LD50:116 mg/kg KSRNAM 6,757,72
ivn-rbt LD50:110 mg/kg KSRNAM 6,757,72
SAFETY PROFILE: Poison by ingestion, intravenous, subcutaneous, and intraperitoneal routes. Human systemic effects: EKG changes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

TAN300 CAS: 1918-11-2 HR: 1
TERBUTOL
mf: $C_{17}H_{27}NO_2$ mw: 277.45
SYNS: 2,6-DI-T-BUTYL-p-TOLYL METHYLCARBAMATE □ 2,6-DI-tert-BUTYL-4-METHYLPHENYL-N-METHYLCARBAMATE □ AZAC □ AZAK □ AZAR □ CARBAMIC ACID, METHYL-, 2,6-DI-tert-BUTYL-p-TOLYL ESTER □ HERCULES 9573 □ MBPMC □ PHENOL, 2,6-BIS(1,1-DIMETHYLETHYL)-4-METHYL-, METHYLCARBAMATE □ TERBUCARB
CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.
mnt-ham-lng 27.7 mg/L/48H BECTA6 64,66,2000
orl-rat LD50:>34,600 mg/kg RREVAH 10,97,1965
skn-rat LD50:>10,250 mg/kg WRPCA2 9,119,1970
SAFETY PROFILE: Low toxicity by ingestion and skin contact. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

TAN500 CAS: 623-27-8 HR: 2
TEREPHTHALALDEHYDE
mf: $C_8H_6O_2$ mw: 134.14
PROP: Crystals from H_2O. Mp: 116°, bp: 245−248°.
SYNS: p-BENZENEDICARBOXALDEHYDE □ 1,4-BENZENE-DICARBOXALDEHYDE (9CI) □ 1,4-DIFORMYLBENZENE □ p-FORMYLBENZALDEHYDE □ 4-FORMYLBENZALDEHYDE □ p-PHTHALALDEHYDE □ TEREPHTALDEHYDE □ TEREPHT-ALDEHYDES (FRENCH) □ TEREPHTHALIC ALDEHYDE
TOXICITY DATA with REFERENCE:
unr-mus LDLo:1154 mg/kg COREAF 246,851,58
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by an unspecified route. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

TAN600 CAS: 3010-82-0 HR: 3
TEREPHTHALAMIDIC ACID
mf: $C_8H_8N_2O_2$ mw: 164.18
SYNS:
□ 1,4-BENZENEDICARBOXAMIDE □ p-CARBAMOYLBENZ-AMIDE □ p-PHTHALAMIDE □ TEREPHTHALAMIDE □ TEREPHTHALDIAMIDE □ TEREPHTHALIC ACID DIAMIDE □ TEREPHTHALIC DIAMIDE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:579 mg/kg APFRAD 48,23,90
ipr-mus LD50:381 mg/kg APFRAD 48,23,90
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

TAN750 CAS: 100-21-0 HR: 2
TEREPHTHALIC ACID
mf: $C_8H_6O_4$ mw: 166.14
PROP: White crystals or powder. D: 1.51, sublimes @ 300°. Insol in water, chloroform, ether, acetic acid; sltly sol in alc; sol in alkalies.
SYNS:
□ ACIDE TEREPHTHALIQUE (FRENCH) □ p-BENZENEDICARBOXYLIC ACID □ 1,4-BENZENEDICARBOXYLIC ACID □ KYSELINA TERFTALOVA (CZECH) □ TA 12 □ TA-33MP
TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H MOD 28ZPAK -,52,72
orl-mus LDLo:10 g/kg 85GMAT -,107,82
ipr-mus LD50:1430 mg/kg CPBTAL 16,1655,68
ivn-dog LDLo:767 mg/kg TXAPA9 18,469,71
CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
ACGIH TLV: TWA 10 mg/m^3
SAFETY PROFILE: Moderately toxic by intravenous and intraperitoneal routes. Mildly toxic by ingestion. An eye irritant. Can explode during preparation. When heated to decomposition it emits acrid smoke and irritating fumes.

TAN755 CAS: 10028-70-3 HR: 2
TEREPHTHALIC ACID, DISODIUM SALT
mf: $C_8H_4O_4$•2Na mw: 210.10
TOXICITY DATA with REFERENCE:
orl-mus LD50:6300 mg/kg CPBTAL 16,1655,68
ipr-mus LD50:4600 mg/kg CPBTAL 16,1655,68
scu-mus LD50:8600 mg/kg CPBTAL 16,1655,68
ivn-mus LDLo:1300 mg/kg CPBTAL 16,1655,68
SAFETY PROFILE: Moderately toxic by intravenous route. Low toxicity by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits acrid smoke and irritating vapors.

TAO750 CAS: 17794-13-7 HR: 3
5,5′-(TEREPHTHALOYLBIS(IMINO-p-PHENYLENE))BIS(2,4-DIAMINO-1-ETHYLPYRIMIDINIUM)-DI-p-TOLUENESULFONATE
mf: $C_{32}H_{34}N_{10}O_2$•$2C_7H_7O_3S$ mw: 933.16
TOXICITY DATA with REFERENCE:
dnd-mus:lym 840 nmol/L JMCMAR 22,134,79
ipr-mus LD10:15 mg/kg JMCMAR 22,134,79
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TAP000 CAS: 20719-34-0 HR: 3
5,5′-(TEREPHTHALOYLBIS(IMINO-p-PHENYLENE))BIS(2,4-DIAMINO-1-METHYLPYRIMIDINIUM)-DI-p-TOLUENESULFONATE
mf: $C_{30}H_{30}N_{10}O_2$•$2C_7H_7O_3S$ mw: 905.10
TOXICITY DATA with REFERENCE:
dnd-mus:lym 840 nmol/L JMCMAR 22,134,79
ipr-mus LD10:12 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.

TAP250 CAS: 20719-36-2 HR: 3
5,5′-(TEREPHTHALOYLBIS(IMINO-p-PHENYLENE))BIS(2,4-DIAMINO-1-PROPYLPYRIMIDINIUM)-DI-p-TOLUENESULFONATE
mf: $C_{34}H_{38}N_{10}O_2$•$2C_7H_7O_3S$ mw: 961.22
TOXICITY DATA with REFERENCE:
dnd-mus:lym 840 nmol/L JMCMAR 22,134,79
ipr-mus LD10:50 mg/kg JMCMAR 22,134,79
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

TAR000 CAS: 18520-54-2 HR: 3
3,3′-(TEREPHTHALOYLBIS(IMINO-p-PHENYLENE))BIS(1-PROPYLPYRIDINIUM)-DI-p-TOLUENESULFONATE
mf: $C_{36}H_{36}N_4O_2$•$2C_7H_7O_3S$ mw: 899.16
SYN: 3,3'-(TEREPHTHALOYLDIIMINOBIS(p-PHENYLENE))-BIS(1-PROPYLPYRIDINIUM)-DI-p-TOLUENESULFONATE
TOXICITY DATA with REFERENCE:
dnd-mus:lym 290 nmol/L JMCMAR 22,134,79
ipr-mus LD10:10 mg/kg JMCMAR 22,134,79
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TAR250 CAS: 18520-57-5 HR: 3
4,4′-(TEREPHTHALOYLBIS(IMINO-p-PHENYLENE))BIS(1-PROPYLPYRIDINIUM)-DI-p-TOLUENESULFONATE
mf: $C_{36}H_{36}N_4O_2$•$2C_7H_7O_3S$ mw: 899.16
TOXICITY DATA with REFERENCE:
dnd-mus:lym 550 nmol/L JMCMAR 22,134,79
ipr-mus LD10:10 mg/kg JMCMAR 22,134,79
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

TAV250 CAS: 100-20-9 HR: 2
TEREPHTHALOYL DICHLORIDE
mf: $C_8H_4Cl_2O_2$ mw: 203.02
PROP: White, crystalline material from pet ether; musty odor. Bp: 266°, mp: 83−84°, flash p: 356°F (COC), fp: 81.4°.
SYNS: 1,4-BENZENEDICARBONYL CHLORIDE □ 1,4-BENZENEDICARBONYL DICHLORIDE □ p-PHENYLENEDICARBONYL DICHLORIDE □ p-PHTHALOYL CHLORIDE □ p-PHTHALOYL DICHLORIDE □ TEREPHTHALIC ACID CHLORIDE □ TEREPHTHALIC ACID DICHLORIDE □ TEREPHTHALIC DICHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:2500 mg/kg 34ZIAG -,475,69
orl-mus LD50:2140 mg/kg GISAAA 49(12),35,84
orl-rbt LD50:950 mg/kg GISAAA 49(12),35,84
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Corrosive. Combustible when exposed to heat or flame. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORIDES.

TAV750 CAS: 126-92-1 HR: 3
TERGITOL 08
mf: $C_8H_{18}O_4S$•Na mw: 233.31
PROP: Clear, slightly viscous liquid. D: 1.114 g/cm^3 @ 21.7°, bp: 96−104°. Flash pt: >93° C. Sol in water: > 100mg/ml @ 20°.
SYNS: EMERSAL 6465 □ 2-ETHYL-1-HEXANOL HYDROGEN SULFATE, SODIUM SALT □ 2-ETHYL-1-HEXANOL SULFATE SODIUM SALT □ 2-ETHYLHEXYL SODIUM SULFATE □ MONO(2-ETHYLHEXYL)SULFATE SODIUM SALT □ NCI-C50204 □ NIA PROOF 08 □ PROPASTE 6708 □ SIPEX BOS □ SODIUM ETASULFATE □ SODIUM ETHASULFATE □ SODIUM(2-ETHYLHEXYL)ALCOHOL SULFATE □ SODIUM-2-ETHYL-HEXYL SULFATE □ SULFURIC ACID, MONO(2-ETHYLHEXYL)-ESTER, SODIUM SALT (8CI) □ TERGEMIST □ TERGIMIST □ TERGITOL ANIONIC 08
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MOD UCDS** 1/20/72
eye-rbt 250 µg MLD AROPAW 34,99,45
orl-mus LD50:1550 mg/kg GISAAA 43(7),70,78
orl-rat LD50:4 g/kg FMCHA2 -,D279,80
ipr-rat LD50:320 mg/kg TXAPA9 17,53,70
scu-rat LD50:4730 mg/kg TXAPA9 17,53,70
orl-rbt LD50:3580 mg/kg TXAPA9 17,53,70
orl-gpg LD50:1300 mg/kg TXAPA9 17,53,70
skn-gpg LDLo:1520 mg/kg JIHTAB 23,478,41
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. A skin and eye irritant. A combustible liquid. When heated to decomposition it emits very toxic fumes of SO_x and Na_2O.

TAW250 CAS: 9016-45-9 HR: 2
TERGITOL NP-14
PROP: Surfactant.
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 4/25/58
eye-rbt 100 mg SEV UCDS** 4/25/58
orl-rat LD50:4290 mg/kg UCDS** 4/25/68
skn-rbt LD50:2520 mg/kg UCDS** 4/25/68
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. A skin and severe eye irritant.

TAW500 CAS: 9016-45-9 HR: 2
TERGITOL NP-27
PROP: D: 1.06, refr index: 1.489.
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 7/14/65
eye-rbt 15 mg SEV UCDS** 7/14/65
orl-rat LD50:3670 mg/kg UCDS** 7/14/65
skn-rbt LD50:1780 mg/kg UCDS** 7/14/65
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TAX000 CAS: 9016-45-9 HR: 2
TERGITOL NP-35 (nonionic)
PROP: Clear water white with ethereal odor. Sol in water.
TOXICITY DATA with REFERENCE:
orl-rat LD50:4000 mg/kg UCDS** 9/22/64
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

TAX250 CAS: 9016-45-9 HR: 1
TERGITOL NP-40 (nonionic)
PROP: Clear water white with ethereal odor. Sol in water.
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 11/8/71
orl-rat LD50:16 g/kg UCDS** 11/8/71
skn-rbt LD50:4490 mg/kg UCDS** 11/8/71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TAX500 CAS: 9014-92-0 HR: 1
TERGITOL 12-P-9
mf: $(C_2H_4O)_n$ $C_{18}H_{30}O$
SYN: STEROX DJ SULFACTANT
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 5/15/68
eye-rbt 15 mg SEV UCDS** 5/15/68
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TAY250 CAS: 68131-40-8 HR: 2
TERGITOL 15-S-5
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 12/16/68
eye-rbt 100 mg MLD UCDS** 12/16/68
orl-rat LD50:8570 mg/kg UCDS** 12/16/68
skn-rbt LD50:4000 mg/kg UCDS** 12/16/68
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits toxic fumes of SO_x. See also SULFATES.

TAZ000 CAS: 68131-40-8 HR: 2
TERGITOL 15-S-9 (nonionic)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 2/7/66
eye-rbt 1 mg SEV UCDS** 2/7/66
orl-rat LD50:2380 mg/kg UCDS** 2/7/66
skn-rbt LD50:2000 mg/kg UCDS** 2/7/66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and severe eye irritant. When heated to decomposition it emits toxic fumes of SO_x. See also SULFATES.

TAZ100 CAS: 68131-40-8 HR: 2
TERGITOL 15-S-12 (nonionic)
SYN: ALCOHOLS, C_{11-15}-SECONDARY, ETHOXYLATED
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 1/20/72
eye-rbt 5 mg SEV UCDS** 1/20/72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

TBA500 CAS: 68131-40-8 HR: 1
TERGITOL 15-S-20
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 11/22/68
orl-rat LD50:5660 mg/kg UCDS** 11/22/68
skn-rbt LD50:11 g/kg UCDS** 11/22/68
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by skin contact and ingestion. A skin irritant. When heated to decomposition it emits toxic fumes of SO_x. See also SULFATES.

TBA750 CAS: 141-65-1 HR: 2
TERGITOL ANIONIC P-28
SYNS: BIS(2-ETHYLHEXYL)SODIUM PHOSPHATE □ 1-HEXANOL, 2-ETHYL-, HYDROGEN PHOSPHATE, SODIUM SALT (7CI) □ 1-HEXANOL, 2-ETHYL-, PHOSPHATE, SODIUM SALT (6CI) □ PHOSPHORIC ACID, BIS(2-ETHYLHEXYL)ESTER, SODIUM SALT (8CI,9CI) □ SODIUM BIS(2-ETHYLHEXYL)-PHOSPHATE □ SODIUM DI(2-ETHYLHEXYL)PHOSPHATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV UCDS** 4/29/64
eye-rbt 5 mg MLD UCDS** 4/29/64
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: An eye and severe skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TBA800 CAS: 103331-86-8 HR: 1
TERGITOL MIN-FOAM 1X
SYN: ALCOHOLS, C12-14-SECONDARY, ETHOXYLATED PROPOXYLATED
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD UCDS** 6/13/68
eye-rbt 100 mg MOD UCDS** 6/13/68
SAFETY PROFILE: A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TBB750 HR: 2
TERGITOL PENETRANT 7
TOXICITY DATA with REFERENCE:
eye-rbt 450 mg SEV AROPAW 40,668,48
orl-rat LD50:5660 mg/kg JIHTAB 30,63,48
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. A severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TBB775 CAS: 60828-78-6 HR: 2
TERGITOL TMN-10
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 12/23/68
eye-rbt 5 mg SEV UCDS** 12/23/68
orl-rat LD50:5650 mg/kg UCDS** 12/23/68
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 acrid smoke and irritating fumes.

TBB800 CAS: 106392-12-5 HR: 1
TERGITOL XH
mf: $(C_3H_6O{\bullet}C_2H_4O)_x$
SYNS: OXIRANE, METHYL-, POLYMER WITH OXIRANE, BLOCK (9CI) □ TERGITOL NONIONIC XH
TOXICITY DATA with REFERENCE:
orl-rat LD50:22,400 mg/kg UCDS** 7/14/65
skn-rbt LD50:>5 g/kg UCDS** 7/14/65
SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

TBC200 CAS: 7082-21-5 HR: 3
TERODILINE HYDROCHLORIDE
mf: $C_{20}H_{27}N{\bullet}ClH$ mw: 317.94
PROP: A solid. Mp: 178−180°.
SYNS: BENZENEPROPANAMINE, N-(1,1-DIMETHYLETHYL)-α-METHYL-γ-PHENYL-, HYDROCHLORIDE (9CI) □ PROPYLAMINE, N-tert-BUTYL-1-METHYL-3,3-DIPHENYL-, HYDROCHLORIDE □ TD-758 □ TERODILINE CHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat TDLo:2700 mg/kg (female 17-22D post):REP KSRNAM 21,1196,87
orl-rat TDLo:1100 mg/kg (female 7-17D post):TER KSRNAM 21,1169,87
orl-rat LD50:465 mg/kg KSRNAM 21,979,87
scu-rat LD50:370 mg/kg KSRNAM 21,979,87
ivn-rat LD50:27 mg/kg KSRNAM 21,979,87
orl-mus LD50:330 mg/kg KSRNAM 21,979,87
scu-mus LD50:170 mg/kg KSRNAM 21,979,87
ivn-mus LD50:28 mg/kg KSRNAM 21,979,87
orl-dog LD50:63,300 µg/kg KSRNAM 21,979,87
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

TBC450 CAS: 59653-73-5 HR: 3
TEROXIRONE
mf: $C_{12}H_{15}N_3O_6$ mw: 297.30

SYNS: HENKEL'S COMPOUND □ NSC-296934 □ α-TRIGLYCIDYL ISOCYANURATE □ α-1,3,5-TRIS(2,3-EPOXYPROPYL)-s-TRIAZINE-2,4,6-(1H,3H,5H)-TRIONE □ (α)-1,3,5-TRIS(OXIRANYLMETHYL)-1,3,5-TRIAZINE-2,4,6-(1H,3H,5H)-TRIONE □ XB 2615

TOXICITY DATA with REFERENCE:
ipr-mus LD50:111 mg/kg NCISP* JAN86
ivn-mus LD50:145 mg/kg NTIS** PB82-110537
ivn-dog LDLo:36,200 µg/kg NTIS** PB82-193442

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

TBC500 CAS: 8001-50-1 HR: 3
TERPENE POLYCHLORINATES

PROP: Chlorinated mixed terpenes (IARC** 4,219,75).

SYNS: DICHLORICIDE MOTHPROOFER □ ENT 19,442 □ STROBANE

TOXICITY DATA with REFERENCE:
orl-mus TDLo:1272 mg/kg/79W-I-C:CAR JNCIAM 42,1101,69
orl-rat LD50:200 mg/kg PCOC** -,1071,66
orl-dog LD50:200 mg/kg PCOC** -,1071,66

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 5,219,74.

SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, AROMATIC.

TBC550 CAS: 9003-74-1 HR: 1
TERPENE RESIN

TOXICITY DATA with REFERENCE:
orl-rat LD:>15 g/kg KSRNAM 15,5273,81

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

TBC575 HR: D
TERPENE RESIN, NATURAL

PROP: Extracted from wood. Mp: 155°.

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

TBC580 HR: D
TERPENE RESIN, SYNTHETIC

PROP: Polymers of α-pinene, β-pinene, and/or dipentine (FCC III). Mp: 112−118°. Sol in benzene.

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

TBC620 CAS: 92-06-8 HR: 2
m-TERPHENYL

mf: $C_{18}H_{14}$ mw: 230.32

PROP: Needles. Mp: 86−87°, bp: 379°. IDLH 500 mg/m^3.

SYNS: m-DIPHENYLBENZENE □ ISODIPHENYLBENZENE □ SANTOWAX M □ 1,3-TERPHENYL □ m-TRIPHENYL

TOXICITY DATA with REFERENCE:
orl-rat LD50: 2400 mg/kg AIHAAP 23,372,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 0.5 ppm

ACGIH TLV: TWA CL 0.5 ppm

SAFETY PROFILE: Moderately toxic by ingestion. Combustible when exposed to heat or flame. To fight fire, use water, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

TBC640 CAS: 84-15-1 HR: 2
o-TERPHENYL

mf: $C_{18}H_{14}$ mw: 230.32

PROP: Prisms from MeOH. Mp: 58−59°, bp: 337°, flash p: >230°F. IDLH 500 mg/m^3.

SYN: 1,2-DIPHENYLBENZENE

TOXICITY DATA with REFERENCE:
orl-rat LD50: 1900 mg/kg AIHAAP 23,372,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 0.5 ppm

ACGIH TLV: TWA CL 0.5 ppm

SAFETY PROFILE: Moderately toxic by ingestion. Combustible when exposed to heat or flame. To fight fire, use water, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: α-Terphenyl 5021.

TBC750 CAS: 92-94-4 HR: 2
p-TERPHENYL

mf: $C_{18}H_{14}$ mw: 230.32

PROP: Leaflets or needles from EtOH. D: 1.234 @ 0°/4°, mp: 212−213°, bp: 259° @ 45 mm, flash p: 405°F (OC), vap d: 7.95. Sol in hot benzene; very sol in hot alc; sltly sol in ether.

SYNS: p-DIPHENYLBENZENE □ 1,4-DIPHENYLBENZENE □ 4-PHENYLBIPHENYL □ 4-PHENYLDIPHENYL □ SANTOWAX □ p-TRIPHENYL

TOXICITY DATA with REFERENCE:
orl-rat LDLo:500 mg/kg NCNSA6 5,26,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 0.5 ppm

ACGIH TLV: TWA CL 0.5 ppm

SAFETY PROFILE: Moderately toxic by ingestion. Combustible when exposed to heat or flame. To fight fire, use water, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: o-Terphenyl, 5021.

TBD000 CAS: 26140-60-3 HR: 2
TERPHENYLS

mf: $C_{18}H_{14}$ mw: 230.32

SYNS: DELOWAS S □ DELOWAX OM □ DIPHENYLBENZENE □ GILOTHERM OM 2 □ TERBENZENE □ TRIPHENYL

TOXICITY DATA with REFERENCE:
orl-mus LD50: 13,200 mg/kg SHHUE8 15,305,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 0.5 ppm
ACGIH TLV: TWA CL 0.5 ppm
NIOSH REL: (Terphenyls) CL 0.5 ppm
SAFETY PROFILE: Moderately toxic by ingestion. Combustible when exposed to heat or flame. To fight fire, use water, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

TBD250 CAS: 64058-92-0 HR: 2
p-TERPHENYL-4-YLACETAMIDE
mf: $C_{20}H_{17}NO$ mw: 287.38
SYNS: 4-ACETYLAMINO-p-DIPHENYLBENZENE □ 4-ACETYLAMINO-p-TERPHENYL
TOXICITY DATA with REFERENCE:
orl-rat TDLo:7000 mg/kg/43W-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.

TBD500 CAS: 8006-39-1 HR: 2
TERPINEOL
mf: $C_{10}H_{18}O$ mw: 154.28
PROP: A mixture of α, β, and γ isomers (FCTXAV 12,807,74). Colorless, viscous liquid; lilac odor. D: 0.930−0.936, refr index: 1.482, flash p: 196°F. Sltly sol in water, glycerin.
SYNS: FEMA No. 3045 □ p-MENTH-1-EN-8-OL □ MIXTURE of p-METHENOLS □ α-TERPINEOL (FCC) □ TERPINEOLS
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 12,807,74
orl-rat LD50:4300 mg/kg FCTXAV 12,807,74
SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also α-TERPINEOL.

TBD750 CAS: 98-55-5 HR: 2
α-TERPINEOL
mf: $C_{10}H_{18}O$ mw: 154.28
PROP: Colorless solid. D: 0.935 @ 20°/20°, mp: 35−40°, bp: 218−221°. Insol in water; very sol in alc, ether.
SYNS: p-MENTH-1-EN-8-OL (8CI) □ TERPINEOL SCHLECHTHIN □ α,α,4-TRIMETHYL-3-CYCLOHEXENE-1-METHANOL
TOXICITY DATA with REFERENCE:
orl-rat LD50:5170 mg/kg GTPZAB 31(2),29,87
orl-mus LD50:12,080 µg/kg CTYAD8 13,241,82
ims-mus LD50:2000 mg/kg JSICAZ 21,342,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intramuscular route. Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

TBD775 CAS: 138-87-4 HR: D
β-TERPINEOL
mf: $C_{10}H_{18}O$ mw: 154.28
SYNS: CYCLOHEXANOL, 1-METHYL-4-(1-METHYLETHENYL)-(9CI) □ p-MENTH-8-EN-1-OL □ t-MENTH-1-EN-8-OL □ 1-METHYL-4-(1-METHYLETHENYL)CYCLOHEXANOL
TOXICITY DATA with REFERENCE:
bfa-rat:sat 2500 mg/kg NUCADQ 1,10,79
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

TBD825 CAS: 562-74-3 HR: 2
4-TERPINEOL
mf: $C_{10}H_{18}O$ mw: 154.28
PROP: Herbal pepper flavoring.
SYNS: 4-CARVOMENTHENOL □ 1-p-MENTHEN-4-OL □ 4-METHYL-1-(1-METHYLETHYL)-3-CYCLOHEXEN-1-OL (9CI) □ TERPINENOL-4
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTOD7 20(Suppl),833,82
orl-rat LD50:1300 mg/kg FCTOD7 20 (Suppl),833,82
orl-mus LD50:1016 mg/kg CCHCDE 4(4),203,81
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 other terpineol entries.

TBE000 CAS: 586-62-9 HR: 3
TERPINOLENE
DOT: UN 2541
mf: $C_{10}H_{16}$ mw: 136.26
PROP: Colorless liquid or oil. Bp: 185°, d: 0.855, flash p: 100°F (CC). Insol in water; misc in alc, ether. Mixture of p-mentha-1,4(8)-diene and p-mentha-2,4(8)-diene (FCTXAV 14,659,76).
SYN: 1-METHYL-4-(1-METHYLETHYLIDENE)CYCLOHEXENE
TOXICITY DATA with REFERENCE:
orl-rat LD50:4390 mg/kg FCTXAV 14,877,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Mildly toxic by ingestion. A very dangerous fire hazard when exposed to heat or flame. To fight fire, use foam, CO_2, dry chemical. Can react with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.

TBE250 CAS: 80-26-2 HR: 2
TERPINYL ACETATE
mf: $C_{12}H_{20}O_2$ mw: 196.32
PROP: Colorless liquid; sweet, herbaceous odor. D: 0.966 @ 20/4°, refr index: 1.464, mp: <−50°, bp: 220° decomp, flash p: 212°F. Insol in water; sol in alc, fixed oils, mineral oil, propylene glycol.
SYNS: FEMA No. 3047 □ α-TERPINEOL ACETATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:5075 mg/kg FCTXAV 2,327,64
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.

TBE500 CAS: 2153-26-6 HR: 1
TERPINYL FORMATE
mf: $C_{11}H_{18}O_2$ mw: 182.29
PROP: Flavoring agent.
SYN: p-MENTH-1-EN-8-OL, FORMATE (mixed isomers)
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. See also ESTERS.

TBE600 HR: 2
TERPINYL PROPIONATE
mf: $C_{13}H_{22}O_2$ mw: 210.32
PROP: Colorless to sltly yellow liquid; sweet, floral, lavender-like odor. D: 0.944, refr index: 1.461, flash p: 212°F. Sol in glycerin; misc in alc, chloroform, ether, fixed oils; sltly sol in propylene glycol; insol in water @ 240°.
SYNS: FEMA No. 3053 □ MENTHEN-1-YL-8 PROPIONATE
SAFETY PROFILE: Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

TBF000 CAS: 69766-62-7 HR: 3
TERRAMYCIN SODIUM
mf: $C_{22}H_{24}N_2O_9$•xNa
TOXICITY DATA with REFERENCE:
orl-mus LD50:4101 mg/kg ANYAA9 53,238,50
scu-mus LD50:251 mg/kg ANYAA9 53,238,50
ivn-mus LD50:163 mg/kg ANYAA9 53,238,50
ivn-dog LD50:150 mg/kg ANYAA9 53,238,50
ivn-rbt LD50:112 mg/kg ANYAA9 53,238,50
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and Na_2O.

TBF325 HR: 3
TERREIC ACID
mf: $C_7H_6O_4$ mw: 154.13
SYNS: 5,6-EPOXY-3-HYDROXY-p-TOLUQUINONE □ 2-HYDROXY-3-METHYL-1,4-BENZOQUINONE 5,6-EPOXIDE □ 3-HYDROXY-4-METHYL-7-OXABICYCLO(4.1.0)HEPT-3-ENE-2,5-DIONE □ (1R-cis)-3-HYDROXY-4-METHYL-7-OXABICYCLO(4.1.0)HEPT-3-ENE-2,5-DIONE
TOXICITY DATA with REFERENCE:
dnd-mus-ipr 250 mg/kg TOLED5 10,249,82
dnd-mus:lvr 200 mg/L TOLED5 10,249,82
ipr-mus LD50:75 mg/kg JJANAX 33,320,80
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

TBF350 CAS: 37338-91-3 HR: 3
TERRILYTIN
SYNS: PROTEINASE, ASPERGILLUS TERRICOLA NEUTRAL □ TERRILITIN
TOXICITY DATA with REFERENCE:
ivn-rat LD50:161 mg/kg PCJOAU 10,1130,76
orl-mus LD50:7500 mg/kg PCJOAU 10,1130,76
ipr-mus LD50:206 mg/kg PCJOAU 10,1130,76
scu-mus LD50:438 mg/kg PCJOAU 10,1130,76
ivn-mus LD50:206 mg/kg PCJOAU 10,1130,76
ims-mus LD50:462 mg/kg PCJOAU 10,1130,76
ivn-rbt LD50:88 mg/kg PCJOAU 10,1130,76
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by subcutaneous and intramuscular routes. Mildly toxic by ingestion.

TBF400 CAS: 34784-64-0 HR: D
dl-TERTATALOL
mf: $C_{16}H_{25}NO_2S$ mw: 295.48
SYNS: (+−)-1-((3,4-DIHYDRO-2H-1-BENZOTHIOPYRAN-8-YL)OXY)-3-((1,1-DIMETHYLETHYL)AMINO)-2-PROPANOL □ 2-PROPANOL, 1-((3,4-DIHYDRO-2H-1-BENZOTHIOPYRAN-8-YL)OXY)-3-((1,1-DIMETHYLETHYL)AMINO)-,(+−)- □ TERTATOLOL □ (+−)-TERTATOLOL
TOXICITY DATA with REFERENCE:
orl-man TDLo:39 mg/kg/78W-I:PNS,BLD,SKN ARHEAW 31,145,1988
SAFETY PROFILE: Human systemic effects. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TBF500 CAS: 58-22-0 HR: 3
TESTOSTERONE
mf: $C_{19}H_{28}O_2$ mw: 288.47
PROP: Crystals from Me_2CO (aq). Mp: 155°. Insol in water; sol in alc and ether.
SYNS: ANDROLIN □ ANDRONAQ □ ANDROST-4-EN-17β-OL-3-ONE □ Δ^4-ANDROSTEN-17(β)-OL-3-ONE □ ANDRUSOL □ CRISTERONE T □ GENO-CRISTAUZ GREMY □ HOMOSTER-ONE □ 7-β-HYDROXYANDROST-4-EN-3-ONE □ 17-β-HYDRO-XY-Δ^4-ANDROSTEN-3-ONE □ 17-β-HYDROXYANDROST-4-EN-3-ONE □ 17-β-HYDROXY-4-ANDROSTEN-3-ONE □ 17-HYDROXY-(17-β)-ANDROST-4-EN-3-ONE □ MALESTRONE (AMPS) □ MERTESTATE □ NEO-TESTIS □ ORETON-F □ ORQUISTERONE □ PERANDREN □ PERCUTACRINE ANDRO-GENIQUE □ PRIMOTEST □ PROMOTESTON □ SUSTANONE □ SYNANDROL F □ TESLEN □ TESTANDRONE □ TESTI-CULOSTERONE □ TESTOBASE □ TESTOPROPON □ TESTOS-TEROID □ trans-TESTOSTERONE □ TESTOSTERONE HYDR-ATE □ TESTOSTOSTERONE □ TESTOVIRON SCHERING □ TESTOVIRON T □ TESTRONE □ TESTRYL □ VIRORMONE □ VIROSTERONE
TOXICITY DATA with REFERENCE:
dni-hmn:lym 50 μmol/L PSEBAA 146,401,74
cyt-hmn:kdy 100 μg/L CNJGA8 10,299,68
dnd-mam:lym 10 μmol/L ENZYAS 41,183,71
orl-mus TDLo:6240 mg/kg/52D-C:NEO CNREA8 48,2788,88
scu-mus TDLo:30 mg/kg/5D-I:NEO,TER JNCIAM 39,75,67
ipr-rat LDLo:326 mg/kg PSEBAA 46,116,41
CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 6,209,74, IMEMDT 21,519,79; Human Limited Evidence

IMEMDT 21,519,79. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen with experimental neoplastigenic and teratogenic data. Poison by intraperitoneal route. Human teratogenic effects by unspecified route: developmental abnormalities of the urogenital system. Experimental reproductive effects. Human mutation data reported. Workers engaged in manufacture and packaging have shown effects from this hormone, e.g., enlargement of the breasts in male workers. A promoter. When heated to decomposition it emits acrid smoke and irritating fumes. Used as a drug for the treatment of hypogonadism and metastatic breast cancer.

TBF600 CAS: 58-20-8 HR: D
TESTOSTERONE CYCLOPENTYLPROPIONATE

mf: $C_{27}H_{40}O_3$ mw: 412.67

PROP: A solid. Mp: 101−102°.

SYNS: ANDROST-4-EN-3-ONE, 17-(3-CYCLOPENTYL-1-OXOPROPOXY)-, (17-β)- (9CI) □ DEPO-TESTOSTERONE □ DEPOVIRIN □ PERTESTIS □ TESTODRIN PROLONGATUM □ TESTOSTERONE, CYCLOPENTANEPROPIONATE □ TESTOSTERONE CYPIONATE □ TESTOSTERONE 17-β-CYPIONATE

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

TBF650 CAS: 8055-33-2 HR: 1
TESTOSTERONE-17-β-ESTRADIOL MIXT.

mf: $C_{19}H_{28}O_2 \bullet C_{18}H_{24}O_2$ mw: 560.89

SYNS: ANDROST-4-EN-3-ONE, 17-HYDROXY-, (17-β)-, MIXT WITH (17-β)-1,3,5(10)-TRIENE-3,17-DIOL □ ESTRADIOL-TESTOSTERONE MIXT.

TOXICITY DATA with REFERENCE:

scu-mus LD :>5 g/kg NIIRDN-,806,1995

SAFETY PROFILE: Low toxicity by ingestion. subcutaneous route. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

TBF750 CAS: 315-37-7 HR: 3
TESTOSTERONE HEPTANOATE

mf: $C_{26}H_{40}O_3$ mw: 400.66

PROP: A solid. Mp: 36−37.5°.

SYNS: ANDROTARDYL □ ATLATEST □ DELATESTRYL □ HEPTANOIC ACID, ester with TESTOSTERONE □ MALOGEN L.A.200 □ NSC-17591 □ (17-β)17-((1-OXOHEPTYL)OXY)-ANDROST-4-EN-3-ONE □ REPOSO-TMD □ TE □ TESTATE □ TESTOSTERONE ENANTHATE □ TESTOSTERONE ETHANATE □ TESTOSTERONE HEPTOATE □ TESTOSTERONE HEPTYLATE □ TESTOSTERONE OENANTHATE □ TESTOSTROVAL

TOXICITY DATA with REFERENCE:

ims-rbt TDLo:409 mg/kg/2Y-I:ETA,TER CNREA8 26,474,66
ims-man TDLo:7519 mg/kg/5W-I:PUL NEJMAG 308,508,83
ipr-rat LD50:2000 mg/kg DRUGAY 6,486,82
ipr-mus LD50:4 mg/kg CLDND*

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intraperitoneal route. Human systemic effects by ingestion: dyspnea. Human reproductive effects by ingestion, intramuscular, and parenteral routes: changes in spermatogenesis and paternal effects to testes, epididymis, and sperm duct. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic and teratogenic data. When heated to decomposition it emits acrid smoke and irritating fumes. A drug used to treat hypogonadism and metastatic breast cancer. See also TESTOSTERONE.

TBG000 CAS: 57-85-2 HR: 3
TESTOSTERONE PROPIONATE

mf: $C_{22}H_{32}O_3$ mw: 344.54

PROP: Stout prisms from alc and water. Mp: 118−122°. Insol in water; freely sol in alc, ether, pyridine, and other org solvs. Sol in vegetable oils.

SYNS: AGOVIRIN □ ANDROGEN □ ANDROSAN □ Δ^4-ANDROSTENE-17-β-PROPIONATE-3-ONE □ ANDROTESTON □ ANDROTEST P □ ANDRUSOL-P □ ANERTAN □ AQUAVIRON □ BIO-TESTICULINA □ ENARMON □ HOMANDREN (amps) □ HORMOTESTON □ MASENATE □ NASDOL □ NEO-HOMBREOL □ NSC-9166 □ OKASA-MASCUL □ ORCHIOL □ ORCHISTIN □ ORETON □ ORETON PROPIONATE □ 17-(1-OXOPROPOXY)-(17-β)-ANDROST-4-EN-3-ONE □ PANESTIN □ PERANDREN □ PROPIOKAN □ RECTHORMONE TESTOSTERONE □ STERANDRYL □ SYNANDROL □ SYNERONE □ TELIPEX □ TESTAFORM □ TESTEX □ TESTODET □ TESTODRIN □ TESTOGEN □ TESTONIQUE □ TESTORMOL □ TESTOSTERONE PROPIONATE □ TESTOSTERONE-17-PROPIONATE □ TESTOSTERONE-17-β-PROPIONATE □ TESTOVIRON □ TESTOXYL □ TESTREX □ TOSTRIN □ TP □ UNITESTON □ VULVAN

TOXICITY DATA with REFERENCE:

cyt-ofs-unr 500 µg BEXBBO 15,329,80
spm-ofs-unr 500 µg BEXBBO 15,329,80
dnd-rat:lvr 300 µmol/L SinJF# 26OCT82
spm-rat-scu 10 mg/kg AMTUA3 8,68,71
orl-rat LD50:1000 mg/kg NIIRDN 6,487,82
ipr-rat LD50:585 mg/kg NIIRDN 6,487,82
orl-mus LD50:1350 mg/kg NIIRDN 6,487,82
ipr-mus LD50:970 mg/kg NIIRDN 6,487,82

CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 21,519,79. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed carcinogen with experimental neoplastigenic, tumorigenic, and teratogenic data. Moderately toxic by ingestion and intraperitoneal routes. Human male reproductive effects by intramuscular and parenteral routes: changes in spermatogenesis, testes, epididymis, and sperm duct. Human female reproductive effects by intramuscular and parenteral routes: menstrual cycle changes or disorders and effects on fertility. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also TESTOSTERONE.

TBG050 CAS: 5949-44-0 HR: D
TESTOSTERONE, UNDECANOATE (ESTER)

mf: $C_{30}H_{48}O_3$ mw: 456.78

SYNS: ANDRIOL □ 5-α-ANDROSTAN-3-ONE, 17-β-HYDROXY-, UNDECANOATE □ ANDROST-4-EN-3-ONE, 17-((1-

OXOUNDECYL)OXY)-, (17-β)- □ TESTOSTERONE UNDECANOATE □ TESTOSTERONE UNDECYLATE
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

TBG100 HR: 3
TETANUS TOXIN
SYNS: TOXIN, BACTERIUM CLOSTRIDIUM TETANI, TETANUS □ TOXINE TETANIQUE
TOXICITY DATA with REFERENCE:
mnt-mus-ims 1 g/kg NULSAK 30,30,87
cyt-mus-ims 1 g/kg MUREAV 204,277,88
ipr-mus LDLo:100 pg/kg SCIEAS 144,1100,64
scu-mus LD50:3 ng/kg TOXIA6 24,1055,86
ivn-mus LDLo:28 pg/kg EXPEAM 29,1319,73
scu-rbt LDLo:1250 mg/kg AIPAAV 12,225,1898
ivn-rbt LDLo:1250 mg/kg AIPAAV 12,225,1898
scu-gpg LDLo:20 mg/kg AIPAAV 12,225,1898
SAFETY PROFILE: A poison by intraperitoneal, subcutaneous, and intravenous routes. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

TBG250 HR: 3
TETRAACRYLONITRILECOPPER(I) PERCHLORATE
mf: $C_{12}H_{12}ClCuN_4O_4$ mw: 375.25
CONSENSUS REPORTS: Cyanide and its compounds, as well as copper and its compounds, are on the Community Right-To-Know List.
SAFETY PROFILE: Explodes on heating. When heated to decomposition it emits very toxic fumes of NO_x, Cl^-, and CN^-. See also NITRILES, COPPER COMPOUNDS, and PERCHLORATES.

TBG500 HR: 3
TETRAACRYLONITRILECOPPER(II) PERCHLORATE
mf: $C_{12}H_{12}Cl_2CuN_4O_8$ mw: 474.70
CONSENSUS REPORTS: Cyanide and its compounds, as well as copper and its compounds, are on the Community Right-To-Know List.
SAFETY PROFILE: Decomposes explosively on heating. When heated to decomposition it emits very toxic fumes of Cl^-, CN^-, and NO_x. See also NITRILES, COPPER COMPOUNDS, and PERCHLORATES.

TBG600 CAS: 56370-81-1 HR: 3
TETRAAMINE-2,3-BUTANEDIIMINE RUTHENIUM(III) PERCHLORATE
mf: $C_4H_{20}Cl_3N_6O_{12}Ru$ mw: 551.66
$[(H_3N)_4RuC_4H_8N_2][ClO_4]_3$
SAFETY PROFILE: An explosive. When heated to decomposition it emits toxic fumes of Cl^-, RuO_4, and NO_x. See also RUTHENIUM COMPOUNDS, AMINES, and PERCHLORATES.

TBG625 CAS: 36294-69-6 HR: 3
TETRAAMINEDITHIOCYANATO COBALT(III) PERCHLORATE
mf: $C_2H_{12}ClCoN_6O_4S_2$ mw: 342.66
CONSENSUS REPORTS: Cobalt and its compounds are on The Community Right-To-Know List.
SAFETY PROFILE: Explodes at 335°C. It is moderately impact-sensitive. When heated to decomposition it emits toxic fumes of Cl^-, NO_x, and SO_x. See also THIOCYANATES, COBALT COMPOUNDS, and PERCHLORATES.

TBG700 CAS: 2475-45-8 HR: 1
1,4,5,8-TETRAAMINO-9,10-ANTHRACENEDIONE
mf: $C_{14}H_{12}N_4O_2$ mw: 268.30
SYNS: ACETATE BLUE G □ ACETOQUINONE BLUE L □ ACETOQUINONE BLUE R □ ACETYLON FAST BLUE G □ AMACEL BLUE GG □ AMACEL PURE BLUE B □ ARTISIL BLUE SAP □ BRASILAZET BLUE GR □ CELANTHRENE PURE BLUE BRS □ CELLITON BLUE G □ C.I. 64500 □ CIBACET SAPPHIRE BLUE G □ C.I. DISPERSE BLUE 1 □ CILLA BLUE EXTRA □ C.I. SOLVENT BLUE 18 □ DIACELLITON FAST BLUE R □ DISPERSE BLUE NO 1 □ DURANOL BRILLIANT BLUE CB □ FENACET BLUE G □ GRASOL BLUE 2GS □ KAYALON FAST BLUE BR □ MICROSETILE BLUE EB □ MIKETON FAST BLUE □ NACELAN BLUE G □ NCI-C54900 □ NEOSETILE BLUE EB □ NYLOQUINONE BLUE 2J □ ORACET SAPPHIRE BLUE G □ PERLITON BLUE B □ SERINYL BLUE 2G □ SUPRACET BRILLIANT BLUE 2GN □ 1,4,5,8-TETRAAMINOANTHRA-QUINONE □ 1,4,5,8-TETRAMINOANTHRAQUINONE
TOXICITY DATA with REFERENCE:
mmo-sat 33 µg/plate NTPTR* NTP-TR-299,86
mmo-sat 100 µg/plate MUREAV 40,203,76
orl-rat TDLo:90,125 mg/kg/2Y-C:CAR NTPTR* NTP-TR-299,86
orl-rat TD:180 g/kg/2Y-C:CAR,REP NTPTR* NTP-TR-299,86
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. NTP Carcinogenesis Studies (feed); Equivocal Evidence: mouse NTPTR* NTP-TR-299-86; (feed); Clear Evidence: rat NTPTR* NTP-TR-299,86. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TBG710 CAS: 64049-03-2 HR: 3
TETRA-(4-AMINOPHENYL)ARSONIUM CHLORIDE
mf: $C_{24}H_{24}AsN_4$•Cl mw: 478.89
TOXICITY DATA with REFERENCE:
ivn-rat LDLo:30 mg/kg JACSAT 63,1496,41
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 route. When heated to decomposition it emits very toxic fumes of As, NO_x, and Cl^-. See also ARSENIC COMPOUNDS.

TBG750 CAS: 70992-03-9 HR: 3
TETRAAMMINECOPPER(II) AZIDE

mf: $CuH_{12}N_{10}$ mw: 215.71
$[(H_3N)_4Cu](N_3)_2$
CONSENSUS REPORTS: Copper and its compounds are on the Community Right-To-Know List.
ACGIH TLV: TWA (fume) 0.2 mg/m^3; (dust, mist) 1 mg(Cu)/m^3
SAFETY PROFILE: Explodes on heating or impact. When heated to decomposition it emits toxic fumes of NO_x. See also AZIDES and COPPER COMPOUNDS.

TBH000 CAS: 31058-64-7 HR: 3
TETRAAMMINECOPPER(II) NITRATE
mf: $CuH_{12}N_6O_6$ mw: 255.68
$[(H_3N)_4Cu](NO_3)_2$
CONSENSUS REPORTS: Copper and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Explodes at 330°C or on impact. Upon decomposition it emits toxic fumes of NO_x. See also NITRATES and COPPER COMPOUNDS.

TBH250 CAS: 39729-81-2 HR: 3
TETRAAMMINECOPPER(II) NITRITE
mf: $CuH_{12}N_6O_4$ mw: 223.68
$[(H_3N)_4Cu](NO_2)_2$
CONSENSUS REPORTS: Copper and its compounds are on the Community Right-To-Know List.
ACGIH TLV: TWA (fume) 0.2 mg/m^3; (dust, mist) 1 mg(Cu)/m^3
SAFETY PROFILE: A very shock-sensitive explosive. Traces of nitrate render it heat sensitive. When heated to decomposition it emits toxic fumes of NO_x. See also NITRITES and COPPER COMPOUNDS.

TBH300 CAS: 21288-85-7 HR: D
TETRAAMMINEDICHLORORHODIUM CHLORIDE
mf: $Cl_2H_{12}N_4Rh{\bullet}Cl$ mw: 277.42
PROP: IDLH 100 mg/m^3 (as Rh).
SYN: RHODIUM(1+), TETRAAMMINEDICHLORO-, CHLORIDE
TOXICITY DATA with REFERENCE:
mic-sat 2 µmol/plate MUREAV 88,165,1981
ACGIH TLV: TWA 1 mg(Rh)/m^3. Not Classifiable as a human carcinogen.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, Rh, and Cl^-.

TBH500 HR: 3
TETRAAMMINEHYDROXYNITRATOPLATINUM(IV) NITRATE
mf: $H_{13}N_7O_{10}Pt$ mw: 466.24
PROP: IDLH 4 mg/m^3 (as Pt).
SAFETY PROFILE: Explodes violently on heating. When heated to decomposition it emits toxic fumes of NO_x. See also PLATINUM COMPOUNDS and NITRATES.

TBH750 HR: 2
TETRAAMMINELITHIUM DIHYDROGENPHOSPHIDE
mf: $H_{14}LiN_4P$ mw: 108.05
$[(H_3N)_4Li]PH_2$
SAFETY PROFILE: Reacts vigorously with water, evolving phosphine and ammonia gases which may ignite. When heated to decomposition it emits very toxic fumes of PO_x, NO_x, and Li_2O. See also PHOSPHIDES and LITHIUM COMPOUNDS.

TBI000 CAS: 13601-08-6 HR: 2
TETRAAMMINEPALLADIUM(II) NITRATE
mf: $H_{12}N_6O_6Pd$ mw: 298.54
$[(H_3N)_4Pd](NO_3)_2$
PROP: Colorless crystals.
SAFETY PROFILE: Can ignite and burn violently. When heated to decomposition it emits toxic fumes of NO_x. See also PALLADIUM and NITRATES.

TBI100 CAS: 13933-32-9 HR: D
TETRAAMMINEPLATINUM DICHLORIDE
mf: $Cl_2H_{12}N_4Pt$ mw: 334.15
PROP: Pale yellow crystals. Sol in water. IDLH 4 mg/m^3 (as Pt).
SYNS: TETRAAMMINEDICHLOROPLATINUM(II) ◻ TETRAAMMINEPLATINNIUM(II) DICHLORIDE (SP-4-1)- (9CI) ◻ TETRAAMMINEPLATINUM(2+) DICHLORIDE ◻ TETRAAMMINEPLATINUM(2+) DICHLORIDE (SP-4-1)- ◻ TETRAAMMINEPLATINUM(II) DICHLORIDE
TOXICITY DATA with REFERENCE:
mmo-sat 500 µg/plate CYGEDX 13(6),50,79
pic-esc 50 µg/plate CNREA8 43,2819,83
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

TBI200 CAS: 4965-17-7 HR: 3
TETRAAMYLAMMONIUM CHLORIDE
mf: $C_{20}H_{44}N{\bullet}Cl$ mw: 334.10
PROP: White crystals.
SYNS: AMMONIUM, TETRAPENTYL-, CHLORIDE ◻ 1-PENTANAMINIUM, N,N,N-TRIPENTYL-, CHLORIDE ◻ TETRA-N-AMYLAMMONIUM CHLORIDE ◻ TETRAPENTYL AMMONIUM CHLORIDE ◻ N,N,N-TRIPENTYL-1-PENTANAMINIUM CHLORIDE
TOXICITY DATA with REFERENCE:
skn-gpg LD50:25 mg/kg NTIS** OTS0571120
SAFETY PROFILE: A poison by skin contact. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

TBI600 CAS: 3765-65-9 HR: 3
TETRAAMYLSTANNANE
mf: $C_{20}H_{44}Sn$ mw: 403.33
PROP: Colorless oil. D: 1.016 @ 20°/4°, bp: 191° @ 13 mm. Misc in org solvs.
SYN: TETRAPENTYLSTANNANE
TOXICITY DATA with REFERENCE:
orl-mus LDLo:807 mg/kg APFRAD 14,88,56
ipr-mus LDLo:202 mg/kg APFRAD 14,88,56
ivn-mus LDLo:121 mg/kg APFRAD 14,88,56
ims-mus LDLo:1613 mg/kg APFRAD 14,88,56
par-mus LDLo:403 mg/kg COREAF 239,1091,54

OSHA PEL: TWA 0.1 mg(Sn)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin).
NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and parenteral routes. When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS.

TBI700 CAS: 10563-26-5 HR: 3
1,5,8,12-TETRAAZADODECANE
mf: $C_8H_{22}N_4$ mw: 174.34
SYNS: N-(2-(3-AMINOPROPYLAMINO)ETHYL)-1,3-PROPANE-DIAMINE □ N,N'-BIS(3-AMINOPROPYL)ETHYLENEDIAMINE □ N,N'-BIS(3-AMINOPROPYL)DIAMINOETHANE □ N,N'-DIAMINOPROPYLETHYLENEDIAMINE □ N4 AMINE □ 1,3-PROPANEDIAMINE, N,N"-ETHYLENEBIS- □ 1,3-PROPANEDIAMINE, N,N"-1,2-ETHANEDIYLBIS-
TOXICITY DATA with REFERENCE:
orl-rat LD50:1200 mg/kg NTIS** OTS0539630
skn-rbt LD50:190 mg/kg NTIS** OTS0539630
SAFETY PROFILE: A poison by skin contact. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

TBI750 CAS: 63040-21-1 HR: 2
9,10,14c-15-TETRAAZANAPHTHO(1,2,-3-fg)NAPHTHACENE NITRATE
mf: $C_{21}H_{12}N_4 \bullet xHNO_3$
SYN: ISOTRICYCLOQUINAZOLINE NITRATE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x.

TBI775 CAS: 262-38-4 HR: 3
4a,8a,9a,10a-TETRAAZA-2,3,6,7-TETRAOXAPERHYDROANTHRACENE
mf: $C_6H_{12}N_4O_4$ mw: 204.19
SAFETY PROFILE: Explodes when heated to 120°C. Upon decomposition it emits toxic fumes of NO_x. See also PEROXIDES.

TBJ000 CAS: 51-46-7 HR: 3
1,3,6,8-TETRAAZATRICYCLO(4.4.1.1^{3,8})-DODECANE
mf: $C_8H_{16}N_4$ mw: 168.28
SYN: 1,4,6,9-TETRAAZA-TRICYCLO-(4.4.1.1^{9,4}) DODECAN (GERMAN)
TOXICITY DATA with REFERENCE:
ivn-rat LD50:210 mg/kg ARZNAD 16,734,66
ipr-mus LD50:273 mg/kg ARZNAD 16,734,66
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.

TBJ250 CAS: 22826-61-5 HR: 3
TETRAAZIDO-p-BENZOQUINONE
mf: $C_6N_{12}O_2$ mw: 272.15
O:$C_6(N_3)_4$:O
SYNS: AZIDANIL □ 2,5-CYCLOHEXADIENE-1,4-DIONE, 2,3,5,6-TETRAAZIDO- □ TETRAAZIDO BENZENE QUINONE (DOT) □ TETRAZIDO-1,4-BENZOQUINONE
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: Extremely explosive, sensitive to heat (explodes at 120°C), impact or friction. When heated to decomposition it emits toxic fumes of NO_x. See also AZIDES.

TBJ275 CAS: 58-46-8 HR: 3
TETRABENZAINE
mf: $C_{19}H_{27}NO_3$ mw: 317.47
PROP: Prisms from MeOH. Mp: 125−126°.
SYNS: 2H-BENZO(a)QUINOLIZIN-2-ONE, 1,3,4,6,7,11b-HEXAHYDRO-3-ISOBUTYL-9,10-DIMETHOXY- □ 1,3,4,6,7,11b-HEXAHYDRO-3-ISOBUTYL-9,10-DIMETHOXY-2H-BENZO-(a)QUINOLIZIN- 2-ONE □ NITOMAN □ 2-OXO-3-ISOBUTYL-9,10-DIMETHOXY-1,3,4,6,7,11-β-HEXAHYDRO-2H-BENZOQUIN OLIZINE □ REGULIN □ RO 1-9569 □ RO 1-9569/12 □ RUBIGEN □ TETRABENAZINE □ TETRABENZINE
TOXICITY DATA with REFERENCE:
orl-mus LD50:550 mg/kg 27ZQAG -,308,72
ipr-mus LD50:250 mg/kg NTIS** AD691-490
scu-mus LD50:400 mg/kg 27ZQAG -,308,72
ivn-mus LD50:150 mg/kg PSCBAY 2,17,63
SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

TBJ300 CAS: 18283-93-7 HR: 3
TETRABORANE(10)
mf: B_4H_{10} mw: 53.32
PROP: Colorless gas or liquid; disagreeable odor. Mp: −120°, bp: 18°. Decomp at room temp in a few hours; decomp rapidly at 100°.
SAFETY PROFILE: Ignites spontaneously in air or oxygen. Explodes on contact with concentrated nitric acid. See also BORANES and BORON COMPOUNDS.

TBJ400 CAS: 68436-99-7 HR: 3
TETRA(BORON NITRIDE)FLUOROSULFATE
mf: $B_4FN_4O_3S$ mw: 198.32
SAFETY PROFILE: Explodes when heated above 40°C. When heated to decomposition it emits toxic fumes of F^-, SO_x, and NO_x. See also BORON COMPOUNDS, NITRIDES, FLUORIDES, and SULFATES.

TBJ475 CAS: 17156-85-3 HR: 3
TETRABORON TETRACHLORIDE
mf: B_4Cl_4 mw: 185.05
PROP: Yellow crystals, easily hydrolyzed, but mod thermally stable. Mp: 95°. Sol in BCl_3.
SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of Cl^-. See also BORON COMPOUNDS and CHLORIDES.

TBJ500 CAS: 576-55-6 HR: 2

3,4,5,6-TETRABROMO-o-CRESOL
mf: $C_7H_4Br_4O$ mw: 423.75
PROP: White to buff crystals from $CHCl_3$ or AcOH. Mp: 205−208° (decomp), d. 3.027 at 20°. Insol in water.
SYN: 2-METHYL-3,4,5,6-TETRABROMOPHENOL
TOXICITY DATA with REFERENCE:
orl-rat LD:>500 mg/kg NCNSA6 5,19,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Animal experiments show corrosive action on skin but low systemic toxicity. When heated to decomposition it emits highly toxic fumes of Br^-. See also CRESOL and BROMIDES.

TBJ505 CAS: 76-60-8 HR: 2
TETRABROMO-m-CRESOLPHTHALEIN SULFONE
mf: $C_{21}H_{14}Br_4O_5S$ mw: 698.05
SYNS: BCG □ BROMOCRESOL GREEN □ m-CRESOL, 4,4'-(3H-2,1-BENZOXATHIOL-3-YLIDENE)BIS(2,6-DIBROMO-,S,S-DIOXIDE □ PHENOL, 4,4'-(3H-2,1-BENZOXATHIOL-3-YLIDENE)BIS(2,6-DIBROMO-3-METHYL-, S,S-DIOXIDE □ 3',3",5',5"-TETRABROMO-m-CRESOLSULFONEPHTHALEIN
TOXICITY DATA with REFERENCE:
ipr-rat LD :>1600 mg/kg YAKUD5 38,3083,1996
scu-rat LD :>1600 mg/kg YAKUD5 38,3083,1996
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. Mutation data reported. When heated to decomposition it emits toxic vapors of SO_x and Br^-.

TBJ510 CAS: 50585-41-6 HR: 3
2,3,7,8-TETRABROMODIBENZO-p-DIOXIN
mf: $C_{12}H_4Br_4O_2$ mw: 499.80
SYNS: DIBENZO(B,E)(1,4)DIOXIN, 2,3,7,8-TETRABROMO- □ DIBENZO-p-DIOXIN, 2,3,7,8-TETRABROMO- □ 2,3,7,8-TETRABROMODIBENZODIOXIN
TOXICITY DATA with REFERENCE:
orl-rat LD50:100 µg/kg CMSHAF 19,759,89
SAFETY PROFILE: A poison by ingestion. Experimental reproductive effects reported. When heated to decomposition it emits toxic vapors of Br^-.

TBJ525 CAS: 67733-57-7 HR: 3
2,3,7,8-TETRABROMODIBENZOFURAN
mf: $C_{12}H_4Br_4O$ mw: 483.80
SYN: DIBENZOFURAN, 2,3,7,8-TETRABROMO-
TOXICITY DATA with REFERENCE:
orl-gpg LDLo:4740 ng/kg ANYAA9 320,151,79
SAFETY PROFILE: A poison by ingestion. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic vapors of BR^-.

TBJ550 CAS: 40088-47-9 HR: 2
TETRABROMODIPHENYL ETHER
mf: $C_{12}H_6Br_4O$ mw: 485.82
SYNS: BENZENE, 1,1'-OXYBIS-, TETRABROMO derivative □ TETRABROMOBIPHENYL ETHER
TOXICITY DATA with REFERENCE:
orl-rat LD:>500 mg/kg NCNSA6 5,16,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Br^-.

TBJ560 CAS: 630-16-0 HR: 1
1,1,1,2-TETRABROMOETHANE
mf: $C_2H_2Br_4$ mw: 345.68
SYN: ETHANE, 1,1,1,2-TETRABROMO-
TOXICITY DATA with REFERENCE:
ihl-rat LC50:900 g/m^3/4H TOVEFN (3),25,1996
SAFETY PROFILE: Low toxicity by inhalation. When heated to decomposition it emits toxic vapors of Br^-.

TBJ600 HR: D
(1R,3S)3[(1′RS)(1′,2′,2′,2′-TETRABROMO-ETHYL)]-2,2-DIMETHYLCYCLOPROPANE-CARBOXYLIC ACID (S)-α-CYANO-3-PHENOXYBENZYL ESTER
SAFETY PROFILE: When heated to decomposition emits toxic fumes of Br^-, CN^-.

TBK000 CAS: 36323-28-1 HR: 3
α,α,α′,α′-TETRABROMO-m-XYLENE
mf: $C_8H_6Br_4$ mw: 421.78
PROP: Crystals from EtOH. Mp: 105−108°.
SYN: 1,3-BIS(DIBROMOMETHYL)BENZENE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#00642
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Corrosive. Lacrymator. When heated to decomposition it emits toxic fumes of Br^-. See also BROMIDES.

TBJ700 CAS: 632-79-1 HR: 1
3,4,5,6-TETRABROMOPHTHALIC ANHYDRIDE
mf: $C_8Br_4O_3$ mw: 463.72
SYNS: FG 400 □ FIREMASTER PHT 4 □ BROMOPHTHAL □ 1,3-ISOBENZOFURANDIONE, 4,5,6,7-TETRABROMO- □ PHTHALIC ANHYDRIDE, TETRABROMO- □ PHT 4 □ SAYTEX RB 49 □ TETRABROMOPHTHALIC ACID ANHYDRIDE □ TETRABROMOPHTHALIC ANHYDRIDE
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg MLD NTIS** OTS0523271
orl-rat LD50:>10 g/kg NTIS** OTS0539755
ihl-rat LC :>10,920 mg/m^3/4H NTIS** OTS0522251
skn-rbt LD50:>10 g/kg NTIS** OTS0522251
skn-gpg LD50:>1 g/kg NTIS** OTS0521611
SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. A mild eye irritant. When heated to decomposition it emits toxic vapors of Br^-.

TBK250 CAS: 23488-38-2 HR: 2
TETRABROMO-p-XYLENE
mf: $C_8H_6Br_4$ mw: 421.78
PROP: Crystals from toluene. Mp: 253°.

SYNS: 1,4-BIS(DIBROMMETHYL)BENZEN (CZECH) □ TETRABROMO-p-XYLEN (CZECH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD 28ZPAK -,31,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin irritant. When heated to decomposition it emits toxic fumes of Br^-. See also BROMIDES.

TBK500 CAS: 1643-19-2 HR: D
TETRABUTYLAMMONIUM BROMIDE
mf: $C_{16}H_{36}N{\bullet}Br$ mw: 322.44
PROP: Crystals or prisms from $CHCl_3$/pet ether. Mp: 102−104°.
SYN: TETRA-N-BUTYLAMMONIUM BROMIDE
TOXICITY DATA with REFERENCE:
dnd-mam:lym 50 mmol/L CBINA8 19,197,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, Br^-, and NH_3. See also BROMIDES.

TBK750 CAS: 2052-49-5 HR: 3
TETRABUTYLAMMONIUM HYDROXIDE
mf: $C_{16}H_{36}N{\bullet}HO$ mw: 259.54
PROP: D: 0.968, refr index: 1.435.
SYNS: 1-BUTANAMINIUM, N-N-N-TRIBUTYL-, HYDROXIDE (9CI) □ TETRA-n-BUTYLAMMONIUM HYDROXIDE □ N,N,N-TRIBUTYL-1-BUTANAMINIUM HYDROXIDE
TOXICITY DATA with REFERENCE:
scu-mus LDLo:19 mg/kg JPETAB 28,367,26
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x and NH_3.

TBL000 CAS: 311-28-4 HR: 2
TETRABUTYLAMMONIUM IODIDE
mf: $C_{16}H_{36}N{\bullet}I$ mw: 369.43
PROP: Crystals or leaves from benzene. Mp: 114−148°. Sltly sol in water; sol in alc, ether.
SYN: TETRA-N-BUTYLAMMONIUMJODID (CZECH)
TOXICITY DATA with REFERENCE:
orl-rat LD50:1990 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, NH_3, and I^-. See also IODIDES.

TBL250 CAS: 1941-27-1 HR: 3
TETRABUTYLAMMONIUM NITRATE
mf: $C_{16}H_{36}N{\bullet}NO_3$ mw: 304.54
PROP: Hygroscopic solid. Mp: 118−120°.
SYNS: 1-BUTANAMINIUM, N-N-N-TRIBUTYL-, NITRATE (9CI) □ TETRA-n-BUTYLAMMONIUM NITRATE □ N-N-N-TRIBUTYL-1-BUTANAMINIUM NITRATE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:10 mg/kg CSLNX* NX#02073
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. An irritant. When heated to decomposition it emits very toxic fumes of NO_x and NH_3. See also NITRATES.

TBL500 CAS: 10428-19-0 HR: 3
TETRABUTYL DICHLOROSTANNOXANE
mf: $C_{16}H_{36}Cl_2OSn_2$ mw: 552.80
PROP: White crystals from Me_2CO. Mp: 112.5°. Sol in org solvs.
TOXICITY DATA with REFERENCE:
ivn-mus LD50:32 mg/kg CSLNX* NX#00183
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Sn)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin).
NIOSH REL: TWA (Organotin Compounds) 0.1 mg(Sn)/m^3
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of Cl^-. See also TIN COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

TBL600 CAS: 63449-47-8 HR: 1
TETRA(2-BUTYLISOPROPYL) ORTHOSILICATE
mf: $C_{28}H_{60}O_4Si$ mw: 488.97
SYNS: CP 99213 □ MCS 198 □ SILICIC ACID, TETRAKIS(1,1-DIMETHYLPENTYL) ESTER □ TETRAKIS(1,1-DIMETHYL-PENTYL) SILICATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD NTIS** OTS0545881
eye-rbt 100 mg MLD NTIS** OTS0545881
orl-rat LD50:60,300 mg/kg NTIS** OTS0545881
skn-rbt LD :>15,800 mg/kg NTIS** OTS0545881
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A moderate skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

TBL750 CAS: 3115-68-2 HR: 3
TETRA-n-BUTYLPHOSPHONIUM BROMIDE
mf: $C_{16}H_{36}P{\bullet}Br$ mw: 339.40
PROP: Crystals from Me_2CO/Et_2O. Mp: 102°.
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg SEV TXCYAC 24,245,82
ihl-rat LC50:>3 mg/m^3/1H TXCYAC 24,245,82
ivn-mus LD50:56 mg/kg CSLNX* NX#03131
skn-rbt LD50:700 mg/kg TXCYAC 24,245,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous and inhalation route. Moderately toxic by skin contact. A severe skin irritant. When heated to decomposition it emits very toxic fumes of PO_x and Br^-. See also BROMIDES.

TBM000 CAS: 2304-30-5 HR: 3

TETRA-n-BUTYLPHOSPHONIUM CHLORIDE
mf: $C_{16}H_{36}P{\bullet}Cl$ mw: 294.94
PROP: Crystals. Mp: 80−83°. Hygroscopic.
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg SEV TXCYAC 24,245,82
orl-rat LD50:916 mg/kg TXCYAC 24,245,82
ihl-rat LC50:>3 mg/m^3/1H TXCYAC 24,245,82
ivn-mus LD50:32 mg/kg CSLNX* NX#03140
skn-rbt LD50:121 mg/kg TSCAT* FYI-OTS-1178-0020
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by skin contact, inhalation and intravenous routes. Moderately toxic by ingestion. A severe skin irritant. When heated to decomposition it emits very toxic fumes of PO_x and Cl^-.

TBM100 CAS: 60767-85-3 HR: 3
TETRA-n-BUTYLPHOSPHONIUM PHENYL-PHOSPHINATE
mf: $C_{16}H_{36}P{\bullet}C_6H_6O_2P$ mw: 400.58
SYNS: PHOSPHINIC ACID, PHENYL-, ION(1-), TETRA-BUTYLPHOSPHONIUM □ PHOSPHONIUM, TETRABUTYL-, PHENYLPHOSPHINATE □ NRD-18 □ TETRABUTYLPHOSP-HONIUM PHENYLPHOSPHINATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 µL/24H SEV NTIS** OTS0556324
skn-rbt LDLo:200 mg/kg NTIS** OTS0556324
SAFETY PROFILE: A poison by ingestion. A severe skin irritant. When heated to decomposition it emits toxic vapors of PO_x.

TBM250 CAS: 1461-25-2 HR: 3
TETRABUTYLSTANNANE
mf: $C_{16}H_{36}Sn$ mw: 347.21
PROP: A liquid. D: 1.06 @ 20°/4°, bp: 145° @ 10 mm.
SYNS: TETRA-n-BUTYLCIN (CZECH) □ TETRABUTYLTIN
TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H MLD 28ZPAK -,233,72
orl-mus LD50:6 g/kg JPMSAE 56,240,67
ipr-mus LDLo:174 mg/kg APFRAD 14,88,56
ivn-mus LD50:56 mg/kg CSLNX* NX#02221
ims-mus LDLo:1389 mg/kg APFRAD 14,88,56
par-mus LDLo:347 mg/kg COREAF 239,1091,54
skn-rbt LDLo:2000 mg/kg SAIGBL 15,3,73
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Sn)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin).
NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: Poison by intravenous, intraperitoneal, and parenteral routes. Moderately toxic by skin contact. An eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds, 5504.

TBM750 CAS: 1634-02-2 HR: 2
TETRABUTYLTHIURAM DISULFIDE
mf: $C_{18}H_{36}N_2S_4$ mw: 408.80
PROP: Dark amber liquid. D: 1.06 mg/m^3 @ 25°. Flash pt: 138° (OC).
SYN: BIS(DIBUTYLTHIOCARBAMOYL) DISULFIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:2350 mg/kg APTOA6 8,329,52
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. A combustible liquid. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFIDES.

TBM850 CAS: 4559-86-8 HR: 2
1,1,3,3-TETRABUTYLUREA
SYNS: TETRABUTYLUREA □ UREA, 1,1,3,3-TETRABUTYL- □ UREA, TETRABUTYL-
TOXICITY DATA with REFERENCE:
orl-rat LD50:17 g/kg FCTOD7 25,173,87
ihl-rat LCLo:700 mg/m^3/4H FCTOD7 25,173,87
SAFETY PROFILE: Moderately toxic by inhalation. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

TBN000 CAS: 136-47-0 HR: 3
TETRACAINE HYDROCHLORIDE
mf: $C_{15}H_{24}N_2O_2{\bullet}ClH$ mw: 300.87
PROP: Bitter crystals causing numbness of mouth. Mp: 147−150°. Sol in water and alc; insol in ether and benzene.
SYNS: AMETHOCAINE HYDROCHLORIDE □ ANACEL □ ANETHAINE □ BUTETHANOL □ p-(BUTYLAMINO)BENZOIC ACID, 2-(DIMETHYLAMINO)ETHYL ESTER, HYDROCHLORIDE □ p-BUTYLAMINOBENZOYL-2-DIMETHYLAMINOETHANOL HYDROCHLORIDE □ BUTYLOCAINE □ CURTACAIN □ DECICAINE □ DIKAIN HYDROCHLORIDE □ 2-DIMETHYL-AMINOETHANOL-4-N-BUTYLAMINOBENZOATE HYDRO-CHLORIDE □ DIMETHYLAMINOETHYL-p-N-BUTYLAMINO-BENZOATE HYDROCHLORIDE □ 2-(DIMETHYLAMINO)-ETHYL-p-(BUTYLAMINO)BENZOATE HYDROCHLORIDE □ GINGICAIN M □ MENONASAL □ PANTOCAINE HYDRO-CHLORIDE □ PONTOCAINE HYDROCHLORIDE □ STERILE TETRACAINE HYDROCHLORIDE □ TONEXOL
TOXICITY DATA with REFERENCE:
eye-rbt 2% MOD ARZNAD 8,181,58
ipr-rat LD50:23,500 µg/kg OYYAA2 9,413,75
scu-rat LD50:24 mg/kg OYYAA2 9,413,75
ivn-rat LD50:4500 µg/kg OYYAA2 9,413,75
orl-mus LD50:160 mg/kg OYYAA2 9,413,75
ipr-mus LD50:32 mg/kg OYYAA2 9,413,75
scu-mus LD50:28 mg/kg OYYAA2 9,413,75
ivn-mus LD50:6600 µg/kg OYYAA2 9,413,75
scu-rbt LDLo:15 mg/kg ODFU** -.-.31
ivn-rbt LD50:2150 µg/kg AIPTAK 113,313,58
isp-rbt LDLo:5 mg/kg JPETAB 57,221,36
ivn-gpg LD50:15,600 µg/kg AIPTAK 113,313,58
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, intraspinal, and subcutaneous routes. An eye irritant. When heated to decomposition it

emits very toxic fumes of HCl and NO_x. An FDA over-the-counter drug used as a local anesthetic.

TBN100 CAS: 12774-81-1 HR: 3
TETRACARBON MONOFLUORIDE
mf: C_4F mw: 67.04
SAFETY PROFILE: Deflagrates (nearly explosive combustion) when heated rapidly. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

TBN150 CAS: 15712-13-7 HR: 3
TETRACARBONYLMOLYBDENUM DICHLORIDE
mf: $C_4Cl_2MoO_4$ mw: 278.89
$(OC)_4MoCl_2$
PROP: IDLH 1000 mg/m^3 (as Mo).
SAFETY PROFILE: A storage hazard. The complex decomposes at room temperature to form a dark pyrophoric powder. When heated to decomposition it emits toxic fumes of Cl^-. See also MOLYBDENUM COMPOUNDS and CARBONYLS.

TBN200 CAS: 21239-57-6 HR: 3
TETRACARBONYL(TRIFLUOROMETHYLTHIO) MANGANESE dimer
mf: $C_{10}F_6Mn_2O_8S_2$ mw: 536.10
PROP: Orange or yellow crystals from CH_2Cl_2/hexane. Mp: 99°. Sublimes @ 0.01°.
SYN: MANGANESE, TETRACARBONYL(TRIFLUOROMETHYLTHIO)-, dimer
TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#07141
OSHA PEL: CL 5 mg(Mn)/m^3
ACGIH TLV: TWA 5 mg(Mn)/m^3
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of SO_x, Mn, and F^-.

TBN220 CAS: 95-94-3 HR: 2
1,2,4,5-TETRACHLORBENZOL
mf: $C_6H_2Cl_4$ mw: 215.88
SYNS: BENZENE TETRACHLORIDE □ BENZENE, 1,2,4,5-TETRACHLORO- □ RCRA WASTE NUMBER U207 □ 1,2,4,5-TETRACHLOROBENZENE □ S-TETRACHLOROBENZENE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1500 mg/kg HYSAAV 30(1-3),8,65
orl-mus LD50:1035 mg/kg HYSAAV 30(1-3),8,65
orl-rbt LD50:1500 mg/kg GISAAA 30(1),9,65
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Cl^-.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: 1994: polychlorobenzenes, 5517.

TBN250 HR: D
TETRACHLOROACETONE
mf: $C_3H_2Cl_4O$ mw: 195.85
PROP: Liquid. Bp: 180−182°. Slt decomp in water; very sol in benzene, alc, ether.
TOXICITY DATA with REFERENCE:
mmo-sat 100 ng/plate BECTA6 24,590,80
SAFETY PROFILE: An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-.

TBN300 CAS: 632-21-3 HR: 3
1,1,3,3-TETRACHLOROACETONE
mf: $C_3H_2Cl_4O$ mw: 195.85
PROP: D: 1.594 @ 25°/4°, bp: 182°.
SYNS: 1,1,3,3-TETRACHLOROPROPANONE □ 1,1,3,3-TETRACHLORO-2-PROPANONE
TOXICITY DATA with REFERENCE:
mmo-sat 50 µL/plate ENMUDM 7,163,85
mma-smc 1 µL/L MUREAV 155,53,85
orl-mus LD50:176 mg/kg FAATDF 2,220,82
skn-rbt LD50:80 mg/kg FAATDF 2,220,82
SAFETY PROFILE: Poison by ingestion and skin contact. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-.

TBN400 HR: 3
N,N,N′,N′-TETRACHLOROADIPAMIDE
mf: $C_6H_8Cl_4N_2O_2$ mw: 281.95
$Cl_2NCO{\bullet}(CH_2)_4CO{\bullet}NCl_2$
SAFETY PROFILE: Reacts with water to form an explosive product. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also AMIDES.

TBN500 CAS: 14047-09-7 HR: 1
3,3′,4,4′-TETRACHLOROAZOBENZENE
mf: $C_{12}H_6Cl_4N_2$ mw: 320.00
SYNS: BIS(3,4-DICHLOROPHENYL)-DIAZENE (9CI) □ TCAB □ 3,4,3',4'-TETRACHLOROAZOBENZENE
TOXICITY DATA with REFERENCE:
mma-sat 100 µg/plate RCOCB8 17,225,77
dns-rat:lvr 1 µmol/L CALEDQ 6,207,79
orl-rat LD50:5 g/kg EPASR* 8EHQ-0981-0409
ihl-rat LCLo:920 mg/m^3/4H EPASR* 8EHQ-0981-0409
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Low toxicity by ingestion. Mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

TBN550 CAS: 21232-47-3 HR: D
3,3′,4,4′-TETRACHLOROAZOXYBENZENE
mf: $C_{12}H_6Cl_4N_2O$ mw: 336.00
SYNS: BIS(3,4-DICHLOROPHENYL)-DIAZENE 1-OXIDE (9CI) □ TCAOB □ 3,4,3',4'-TETRACHLOROAZOXYBENZENE
TOXICITY DATA with REFERENCE:
cyt-mus-orl 134 mg/kg/4W-C AECTCV 14,677,85
SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

TBN740 CAS: 634-66-2 HR: 2

1,2,3,4-TETRACHLOROBENZENE
mf: $C_6H_2Cl_4$ mw: 215.88
PROP: Needles. Mp: 46–47°, bp: 254° @ 761 mm, flash p: >230°F.
TOXICITY DATA with REFERENCE:
orl-rat LD50:1167 mg/kg JTEHD6 11,663,83
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Irritant. Combustible liquid. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, AROMATIC.

TBN745 CAS: 634-90-2 HR: 2
1,2,3,5-TETRACHLOROBENZENE
mf: $C_6H_2Cl_4$ mw: 215.88
PROP: D: 1.19 @ 24°/4°, bp: 104–110° @ 0.08 mm. Misc in H_2O and most org solvs. Spar sol in pet ether.
SYN: BENZENE, 1,2,3,5-TETRACHLORO-
TOXICITY DATA with REFERENCE:
orl-rat LD50:1727 mg/kg JTEHD6 11,663,83
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^-.

TBN750 CAS: 95-94-3 HR: 2
1,2,4,5-TETRACHLOROBENZENE
mf: $C_6H_2Cl_4$ mw: 215.88
PROP: Crystals or needles from EtOH or C_6H_6. Mp: 138°, bp: 245°, d: 1.734, vap press: <0.1 mm @ 25°, vap d: 7.4, flash p: 311°F (CC).
SYN: RCRA WASTE NUMBER U207
TOXICITY DATA with REFERENCE:
orl-rat LD50:1500 mg/kg HYSAAV 30,8,65
orl-mus LD50:1035 mg/kg HYSAAV 30,8,65
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Combustible when exposed to heat or flame. Can react vigorously with oxidizing materials. A reaction mixture with sodium hydroxide + a solvent (e.g., methanol or ethylene glycol) is used commercially to prepare 2,4,5-trichlorophenol. Improperly controlled the reaction can be explosive. A side product is the extremely toxic 2,3,7,8-tetrachlorodibenzodioxin. All plant-scale accidents have distributed the dioxin widely. The Seveso, Italy accident in 1976 is the most recent example. To fight fire, use CO_2, dry chemical. When heated to decomposition it emits highly toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, AROMATIC.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Polychlorobenzenes, 5517.

TBO000 CAS: 15721-02-5 HR: 3
TETRACHLOROBENZIDINE
mf: $C_{12}H_8Cl_4N_2$ mw: 322.02
PROP: Orange crystals from EtOH. Mp: 137.5°.
SYNS: 2,2',5,5'-TETRACHLOROBENZIDINE ◻ 3,3',6,6'-TETRACHLOROBENZIDINE ◻ 2,2',5,5'-TETRACHLORO-(1,1'-BIPHENYL)-4,4'-DIAMINE, (9CI) ◻ 2,2',5,5'-TETRACHLORO-4,4'-DIAMINODIPHENYL
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 27,141,82. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-.

TBO500 CAS: 118-75-2 HR: 2
2,3,5,6-TETRACHLORO-1,4-BENZOQUINONE
mf: $C_6Cl_4O_2$ mw: 245.86
PROP: Yellow crystals or golden leaflets from toluene. Mp: 290°. Insol in water.
SYNS: CHLORANIL ◻ DOW SEED DISINFECTANT No. 5 ◻ ENT 3,797 ◻ G-25804 ◻ GEIGY-444E ◻ RERANIL ◻ SPERGON I ◻ SPERGON TECHNICAL ◻ TETRACHLOROBENZOQUINONE ◻ TETRACHLORO-p-BENZOQUINONE ◻ TETRACHLORO-1,4-BENZOQUINONE ◻ 2,3,5,6-TETRACHLORO-p-BENZOQUIN-ONE ◻ 2,3,5,6-TETRACHLORO-2,5-CYCLOHEXADIENE-1,4-DIONE ◻ TETRACHLOROQUINONE ◻ TETRACHLORO-p-QUINONE ◻ VULKLOR
TOXICITY DATA with REFERENCE:
orl-rat LD50:4000 mg/kg PCOC** -,218,66
ipr-rat LDLo:500 mg/kg JIHTAB 25,98,43
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Can cause central nervous system depression. Questionable carcinogen with experimental neoplastigenic data. May be irritating to skin and mucous membranes. Used as a fungicide. When heated to decomposition it emits highly toxic fumes of Cl^-.

TBO520 CAS: 38444-93-8 HR: 2
2,2′,3,3′-TETRACHLOROBIPHENYL
mf: $C_{12}H_6Cl_4$ mw: 291.98
SYNS: PCB 40 ◻ 1,1'-BIPHENYL, 2,2',3,3'-TETRACHLORO-
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^-.

TBO530 CAS: 35693-99-3 HR: D
2,2′,5,5′-TETRACHLOROBIPHENYL
mf: $C_{12}H_6Cl_4$ mw: 291.98
SYNS: 1,1'-BIPHENYL, 2,2',5,5'-TETRACHLORO- ◻ PCB 52 ◻ 2,2',5,5'-TCB ◻ 2,5,2',5'-TETRACHLOROBIPHENYL
TOXICITY DATA with REFERENCE:
dnd-mus:fbr 20 mg/L RCOCB8 24,313,79
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of Cl^-.

TBO600 CAS: 15968-05-5 HR: 3
2,2′,6,6′-TETRACHLOROBIPHENYL
mf: $C_{12}H_6Cl_4$ mw: 291.98

SYNS: BIPHENYL, 2,2',6,6'-TETRACHLORO- □ 1,1'-BIPHENYL, 2,2',6,6'-TETRACHLORO- □ PCB 54 □ 2,6,2',6'-TETRACHLORO-BIPHENYL

TOXICITY DATA with REFERENCE:
ipr-rat TDLo:150 mg/kg/3D-I TXAPA9 33,94,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TBO700 CAS: 32598-13-3 HR: 3
3,3′,4,4′-TETRACHLOROBIPHENYL
mf: $C_{12}H_6Cl_4$ mw: 291.98

PROP: Needles from EtOH. Bp: 246°.

SYNS: 4-CB □ TCB □ 3,4,3',4'-TETRACHLOROBIPHENYL

TOXICITY DATA with REFERENCE:
cyt-hmn:lym 100 ng/L MUREAV 224,79,89
orl-gpg LD50:1 mg/kg EVHPAZ 60,57,85

SAFETY PROFILE: Poison by ingestion. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-. See also POLYCHLORINATED BIPHENYLS.

TBO750 CAS: 79-95-8 HR: 1
2,2′,6,6′-TETRACHLOROBISPHENOL A
mf: $C_{15}H_{12}Cl_4O_2$ mw: 366.07

SYNS: 2,2-BIS(3,5-DICHLORO-4-HYDROXYPHENYL)PROPANE □ 2,2-BIS(4-HYDROXY-3,5-DICHLOROPHENYL)PROPANE □ 4,4'-ISOPROPYLIDENEBIS(2,6-DICHLOROPHENOL) □ 4,4'-(1-METHYLETHYLIDENE)BIS(2,6-DICHLOROPHENOL) □ TETRACHLORDIAN (CZECH)

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK -,83,72
orl-rat LD50:7432 mg/kg GISAAA 49(2),64,84
orl-mus LD50:5050 mg/kg GISAAA 49(2),64,84

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

SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLOROPHENOLS.

TBO760 CAS: 921-09-5 HR: 2
1,1,2,3-TETRACHLORO-1,3-BUTADIENE
mf: $C_4Cl_4H_2$ mw: 191.86

TOXICITY DATA with REFERENCE:
orl-rat LD50:421 mg/kg GTPZAB 26(2),53,82
ihl-rat LC50:1600 mg/m^3 GTPZAB 26(2),53,82
orl-mus LD50:486 mg/kg GTPZAB 26(2),53,82
ihl-mus LC50:670 mg/m^3 GTPZAB 26(2),53,82

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

TBO762 CAS: 3405-32-1 HR: 3
1,2,3,4-TETRACHLOROBUTANE
mf: $C_4H_6Cl_4$ mw: 195.90

SYN: BUTANE, 1,2,3,4-TETRACHLORO-

TOXICITY DATA with REFERENCE:
cyt-ihl-rat 9100 µg/m^3/4H ZKMAAX 24,237,84
orl-rat LD50:225 mg/kg GISAAA 46(1),92,81
ihl-rat LC50:1160 mg/m^3 ZKMAAX 26,23,86
orl-mus LD50:111 mg/kg ZKMAAX 26,23,86
ihl-mus LC50:910 mg/m^3 ZKMAAX 26,23,86

SAFETY PROFILE: A poison by ingestion. Moderately toxic by inhalation. Mutation data reported. When heated to decomposition it emits toxic vapors of Cl^-.

TBO765 CAS: 19792-18-8 HR: 3
1,1,4,4-TETRACHLOROBUTATRIENE
mf: C_4Cl_4 mw: 189.86

$$Cl_2C{=}C{=}C{=}CCl_2$$

SAFETY PROFILE: Forms an explosive polymer when heated. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

TBO768 CAS: 695-77-2 HR: D
1,2,3,4-TETRACHLOROCYCLOPENTADIENE
mf: $C_5H_2Cl_4$ mw: 203.87

SYNS: 1,3-CYCLOPENTADIENE, 1,2,3,4-TETRACHLORO- □ TETRACHLOROCYCLOPENTADIENE

TOXICITY DATA with REFERENCE:
mmo-esc 10 µmol/L BCPCA6 27,2927,78

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

TBO770 CAS: 59808-78-5 HR: 2
TETRACHLOROCYCLOPENTANE
mf: $C_5H_6Cl_4$ mw: 207.91

SYN: CYCLOPENTANE, TETRACHLORO-

TOXICITY DATA with REFERENCE:
eye-rbt 100 µL/24H MOD NTIS** OTS0535781
orl-rat LD50:562 µL/kg NTIS** OTS0535781
ihl-rat LC :>1300 mg/m^3/1H NTIS** OTS0535781
skn-rbt LD :>3160 µL/kg NTIS** OTS0535781

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and inhalation. A moderate eye irritant. When heated to decomposition it emits toxic vapors of Cl^-.

TBO776 CAS: 16893-05-3 HR: 3
cis-TETRACHLORODIAMMINE PLATINUM(IV)
mf: $Cl_4H_6N_2Pt$ mw: 370.97

PROP: IDLH 4 mg/m^3 (as Pt).

SYNS: DIAMMINETETRACHLOROPLATINUM (OC-6-22) (9CI) □ cis-DIAMMINOTETRACHLOROPLATINUM □ NSC-119876 □ cis-PLATINUMDIAMMINE TETRACHLORIDE □ cis-PLATINUM(IV) DIAMMINOTETRACHLORIDE □ Pt-09

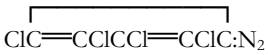
TOXICITY DATA with REFERENCE:
mmo-sat 3 µg/plate MUREAV 95,79,82
dni-hmn:oth 25 µmol/L IJCNAW 6,207,70
ipr-mus LD50:22,840 µg/kg NCISP* JAN86
ivn-mus LD50:26,820 µg/kg NCISP* JAN86

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

and NO_x. See also PLATINUM COMPOUNDS and AMINES.

TBO777 CAS: 16893-06-4 HR: D
trans-TETRACHLORODIAMMINE PLATINUM(IV)
mf: $Cl_4H_6N_2Pt$ mw: 370.97
PROP: Crystals. Hygroscopic. IDLH 4 mg/m^3 (as Pt).
TOXICITY DATA with REFERENCE:
mmo-sat 30 µg/plate MUREAV 95,79,82
dnd-mam:lym 50 µmol/L CBINA8 10,27,75
SAFETY PROFILE: Mutation data reported. Irritant. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also PLATINUM COMPOUNDS and AMINES.

TBO778 CAS: 21572-61-2 HR: 3
TETRACHLORODIAZOCYCLOPENTADIENE
mf: $C_5Cl_4N_2$ mw: 229.88



SAFETY PROFILE: Explodes when heated to 150°C. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

TBO780 CAS: 30746-58-8 HR: 3
1,2,3,4-TETRACHLORODIBENZO-p-DIOXIN
mf: $C_{12}H_4Cl_4O_2$ mw: 321.96
SYNS: DIBENZO(B,E)(1,4)DIOXIN, 1,2,3,4-TETRACHLORO- ◻ DIBENZO-p-DIOXIN, 1,2,3,4-TETRACHLORO- ◻ 1,2,3,4-TETRACHLORODIBENZODIOXIN
TOXICITY DATA with REFERENCE:
orl-rat LD50:800 µg/kg EXPEAM 38,879,82
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. No evidence of carcinogenic activity. When heated to decomposition it emits toxic vapors of Cl^-.

TBO790 CAS: 53555-02-5 HR: D
1,2,3,8-TETRACHLORODIBENZO-p-DIOXIN
mf: $C_{12}H_4Cl_4O_2$ mw: 321.96
SYNS: DIBENZO(B,E)(1,4)DIOXIN, 1,2,3,8-TETRACHLORO- ◻ DIBENZO-p-DIOXIN, 1,2,3,8-TETRACHLORO- ◻ 1,2,3,8-TETRACHLORODIBENZODIOXIN
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,41,77; Human No Adequate Data IMEMDT 15,41,77.
SAFETY PROFILE: No evidence of carcinogenic activity. When heated to decomposition it emits toxic vapors of Cl^-.

TBO795 CAS: 34816-53-0 HR: 3
1,2,7,8-TETRACHLORODIBENZO-p-DIOXIN
mf: $C_{12}H_4Cl_4O_2$ mw: 321.96
SYNS: DIBENZO(B,E)(1,4)DIOXIN, 1,2,7,8-TETRACHLORO- ◻ DIBENZO-p-DIOXIN, 1,2,7,8-TETRACHLORO- ◻ 2,3,6,7-TETRACHLORODIBENZODIOXIN
TOXICITY DATA with REFERENCE:
orl-rbt LDLo:50 µg/kg AGGHAR 18,538,61
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^-.

TBO800 CAS: 33423-92-6 HR: 2
1,3,6,8-TETRACHLORODIBENZO-p-DIOXIN
mf: $C_{12}H_4Cl_4O_2$ mw: 321.96
SYNS: DIBENZO(B,E)(1,4)DIOXIN, 1,3,6,8-TETRACHLORO- ◻ DIBENZO-p-DIOXIN, 1,3,6,8-TETRACHLORO- ◻ 1,3,6,8-TCDD ◻ 1,3,6,8-TETRACHLORODIBENZODIOXIN
TOXICITY DATA with REFERENCE:
orl-rat TDLo:24 g/kg (female 8-15D post):REP OYYAA2 25,713,83
CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 15,41,77.
SAFETY PROFILE: Experimental reproductive effects reported. Questionable carcinogen. When heated to decomposition it emits toxic vapors of Cl^-.

TBO810 CAS: 50585-46-1 HR: D
1,3,7,8-TETRACHLORODIBENZO-p-DIOXIN
mf: $C_{12}H_4Cl_4O_2$ mw: 321.96
SYNS: DIBENZO(B,E)(1,4)DIOXIN, 1,3,7,8-TETRACHLORO- ◻ DIBENZO-p-DIOXIN, 1,3,7,8-TETRACHLORO- ◻ 1,3,7,8-TETRACHLORODIBENZODIOXIN
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,41,77; Human No Adequate Data IMEMDT 15,41,77.
SAFETY PROFILE: No evidence of carcinogenic activity. When heated to decomposition it emits toxic vapors of Cl^-.

TBO850 CAS: 51207-31-9 HR: 3
2,3,7,8-TETRACHLORODIBENZOFURAN
mf: $C_{12}H_4Cl_4O$ mw: 305.96
PROP: Crystals from 2,2,4-trimethylpentane. Mp: 227–228°.
SYN: NCI-C56611
TOXICITY DATA with REFERENCE:
orl-mus TDLo:250 µg/kg (10D preg):TER TOLED5 20,183,84
orl-mky LDLo:1 mg/kg ANYAA9 320,151,79
orl-gpg LD50:5 µg/kg TXAPA9 55,342,80
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^-.

TBP000 CAS: 76-11-9 HR: 1
1,1,1,2-TETRACHLORO-2,2-DIFLUOROETHANE
mf: $C_2Cl_4F_2$ mw: 203.82
PROP: D: 1.65 @ 20°/4°, mp: 38–40°, bp: 91°. IDLH 2000 ppm.

SYNS: CFC-112a □ 1,1-DIFLUORO-1,2,2,2-TETRACHLOROETHANE □ HALOCARBON 112a □ REFRIGERANT 112a □ 1,1,1,2-TETRACHLORO-2,2-DIFLUOROETHANE

TOXICITY DATA with REFERENCE:
orl-rat LD50:>8 g/kg NATUAS 210,744,66
ihl-rat LCLo:20,000 ppm/30M TXAPA9 19,1,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 500 ppm

ACGIH TLV: TWA 500 ppm

DFG MAK: 1000 ppm (8500 mg/m^3)

NIOSH REL: (1,1,1,2-Tetrachloro-2,2-difluoroethane) TWA 500 ppm

SAFETY PROFILE: Mildly toxic by inhalation. When heated to decomposition it emits very toxic fumes of Cl^- and F^-. Used as a refrigerant. See also FLUORIDES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: see 1,1,1,2-Tetrachloro-2,2-difluoroethane, 1016.

TBP050 CAS: 76-12-0 HR: 3
1,1,2,2-TETRACHLORO-1,2-DIFLUOROETHANE
mf: $C_2Cl_4F_2$ mw: 203.82

PROP: Liquid or crystals. Mp: 24.65°, bp: 92.8°, d: 1.6447 @ 25°, vap d: 7.03. IDLH 2000 ppm.

SYNS: CFC-112 □ 1,2-DIFLUORO-1,1,2,2-TETRACHLOROETHANE □ ETHANE, 1,1,2,2-TETRACHLORO-1,2-DIFLUORO- □ F-112 □ FC 112 □ FREON 112 □ FREON R 112 □ GENETRON 112 □ HALOCARBON 112 □ REFRIGERANT 112 □ UCON 112

TOXICITY DATA with REFERENCE:
skn-gpg 100%/24H open MLD AIHAAP 27,332,66
eye-gpg 100 mg/20S rns MLD AIHAAP 27,332,66
ihl-rat LC50:2 pph/15M HUTODJ 1,239,82
orl-mus LD50:800 mg/kg 85GMAT -,54,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 500 ppm

ACGIH TLV: TWA 500 ppm

DFG MAK: 200 ppm (1700 mg/m^3)

NIOSH REL: (1,1,2,2-Tetrachloro-1,2-difluoroethane) TWA 500 ppm

SAFETY PROFILE: A poison by inhalation. Moderately toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits toxic fumes of F^- and Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC; and FLUORIDES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: see 1,1,2,2-Tetrachloro-1,2-difluoroethane, 1016.

TBP075 HR: 3
3,3,4,5-TETRACHLORO-3,6-DIHYDRO-1,2-DIOXIN
mf: $C_4H_4Cl_4O_2$ mw: 225.89

SAFETY PROFILE: An unstable explosive. It is the auto-oxidation product of 1,1,2,3-tetrachloro-1,3-butadiene. When heated to decomposition it emits toxic fumes of Cl^-.

TBP250 CAS: 31242-94-1 HR: 3
TETRACHLORODIPHENYL OXIDE
mf: $C_{12}H_6Cl_4O$ mw: 307.98

SYNS: PHENYL ETHER TETRACHLORO □ TETRACHLOROPHENYL ETHER

TOXICITY DATA with REFERENCE:
orl-gpg LDLo:50 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^-. See also ETHERS.

TBP500 CAS: 13497-91-1 HR: 3
TETRACHLORODIPHOSPHANE
mf: Cl_4P_2 mw: 203.75

PROP: Colorless oily liquid which fumes in moist air. Decomp slowly at room temp to give PCl_3 and yellow, involatile solid. Hydrolyzes to P_2H_4 in base. D: 1.70, mp: −28, bp: ca 1° (decomp).

SAFETY PROFILE: Oxidizes rapidly in air and may ignite. When heated to decomposition it emits very toxic fumes of Cl^- and PO_x.

TBP750 CAS: 25322-20-7 HR: 3
TETRACHLOROETHANE

DOT: UN 1702
mf: $C_2H_2Cl_4$ mw: 167.84

TOXICITY DATA with REFERENCE:
dlt-mus-ipr 250 mg/kg BIRUAA 18,94,80
orl-rat LD50:317 mg/kg AIHAAP 30,470,69
ihl-rat LCLo:1000 ppm/4H AIHAAP 30,470,69
skn-rbt LD50:6330 mg/kg AIHAAP 30,470,69
ihl-gpg LCLo:11 mg/m^3/30M AISFAR 15,1,37
ipr-gpg LDLo:500 mg/kg AIHAAP 35,21,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

NIOSH REL: (Tetrachloroethane) Reduce to lowest feasible level

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion and inhalation. Moderately toxic by intraperitoneal route. Mildly toxic by skin contact. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

TBQ000 CAS: 630-20-6 HR: 2
1,1,1,2-TETRACHLOROETHANE
mf: $C_2H_2Cl_4$ mw: 167.84

PROP: Liquid. D: 1.542 @ 20°/4°, bp: 135.1°, fp: −68.1°. Sol in water; misc in alc, ether.

SYNS: NCI-C52459 □ RCRA WASTE NUMBER U208

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H AMPMAR 35,593,74
eye-rbt 100 mg SEV AMPMAR 35,593,74
mmo-sat 10 µg/plate TECSDY 15,101,87
msc-mus:lym 200 mg/L EMMUEG 12,85,88
orl-rat LD50:670 mg/kg AMPMAR 35,593,74
ihl-rat LC50:2100 ppm/4H AMPMAR 35,593,74

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

IMEMDT 41,87,86. NTP Carcinogenesis Bioassay (gavage); Clear Evidence: mouse NTPTR* NTP-TR-237,82; (gavage); No Evidence: rat NTPTR* NTP-TR-237,82. Reported in EPA TSCA Inventory.

NIOSH REL: (1,1,1,2-Tetrachloroethane) Handle with caution

SAFETY PROFILE: A skin and severe eye irritant. Questionable carcinogen with experimental carcinogenic data. Incompatible with dinitrogen tetraoxide, 2,4-dinitrophenyl disulfide, potassium, potassium hydroxide, nitrogen tetroxide, sodium, sodium potassium alloy. Mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^-.

TBQ100 CAS: 79-34-5 HR: 3
1,1,2,2-TETRACHLOROETHANE

mf: $C_2H_2Cl_4$ mw: 167.84

PROP: Heavy, colorless, mobile liquid; chloroform-like odor. Mp: −43.8°, bp: 146.4°, d: 1.600 @ 20°/4°, fp: −43.8°. IDLH 100 ppm.

SYNS: ACETYLENE TETRACHLORIDE ◻ BONOFORM ◻ CELLON ◻ 1,1,2,2-CZTEROCHLOROETAN (POLISH) ◻ 1,1-DICHLORO-2,2-DICHLOROETHANE ◻ NCI-C03554 ◻ RCRA WASTE NUMBER U209 ◻ TCE ◻ TETRACHLORETHANE ◻ 1,1,2,2-TETRACHLOORETHAAN (DUTCH) ◻ 1,1,2,2-TETRA-CHLORAETHAN (GERMAN) ◻ 1,1,2,2-TETRACHLORETHANE (FRENCH) ◻ sym-TETRACHLOROETHANE ◻ TETRACHLO-RURE d'ACETYLENE (FRENCH) ◻ 1,1,2,2-TETRACLOROETANO (ITALIAN) ◻ WESTRON

TOXICITY DATA with REFERENCE:

mmo-sat 10 µg/plate TECSDY 15,101,87
mma-sat 10 µg/plate TECSDY 15,101,87
dnr-esc 15,866 µg/plate CNREA8 34,2576,74
sce-ham:ovr 56 mg/L EMMUEG 10(Suppl 10),1,87
orl-rat TDLo:42 g/kg/78W-I:ETA NCITR* NCI-TR-27,78
orl-mus TDLo:55 g/kg/78W-I:CAR NCITR* NCI-TR-27,78
orl-mus TD:110 g/kg/78W-I:CAR NCITR* NCI-TR-27,78
orl-hmn TDLo:30 mg/kg:CNS PCOC** -,1110,66
ihl-hmn TCLo:1000 mg/m^3/30M:CNS AHBAAM 116,131,36
orl-rat LD50:250 mg/kg ZHYGAM 23,278,77
ihl-rat LCLo:1000 ppm/4H JIDHAN 31,343,49
ihl-mus LC50:4500 mg/m^3/2H 85GMAT -,107,82
ipr-mus LDLo:30 mg/kg CBCCT* 4,378,52
scu-mus LD50:1108 mg/kg JPETAB 123,224,58
orl-dog LDLo:300 mg/kg AJHYA2 16,325,32
ivn-dog LDLo:50 mg/kg QJPPAL 7,205,34
ihl-cat LCLo:19 g/m^3/45M AHBAAM 116,131,36
scu-rbt LDLo:500 mg/kg QJPPAL 7,205,34

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,354,87; Animal Limited Evidence IMEMDT 20,477,79; NCI Carcinogenesis Bioassay (gavage); Clear Evidence: mouse NCITR* NCI-CG-TR-27,78; Some Evidence: rat NCITR* NCI-CG-TR-27,78. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. Community Right-To-Know List.

OSHA PEL: TWA 1 ppm (skin)

ACGIH TLV: TWA 1 ppm (skin); Animal Carcinogen

DFG MAK: 1 ppm (7 mg/m^3); Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (1,1,2,2-Tetrachlorethane) Reduce to lowest level

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Poison by inhalation, ingestion, and intraperitoneal routes. Moderately toxic by several other routes. Mutation data reported. Human central nervous system effects by ingestion and inhalation: general anesthesia, somnolence, hallucinations, and distorted perceptions. Considered the most toxic of the common chlorinated hydrocarbons. Considered to be a very severe industrial hazard and its use has been restricted or even forbidden in certain countries. It is not an inert solvent. Reacts violently with N_2O_4, 2,4-dinitrophenyl disulfide, and on contact with sodium or potassium. When heated in contact with solid potassium hydroxide, spontaneously flammable chloro- or dichloroacetylene gas is evolved. Any water can cause appreciable hydrolysis, even at room temperature, and both hydrolysis and oxidation become comparatively rapid above 110°. When heated to decomposition it emits toxic fumes of Cl^-.

A strong irritant of eyes and mucous membranes. A concentration of 3 ppm produces a detectable odor, thus an initial warning effect. Its narcotic action is stronger than that of chloroform, but, because of its low volatility, narcosis is less severe and much less common in industrial poisoning than in the case of other chlorinated hydrocarbons. The toxic action of this material is chiefly on the liver, where it produces acute yellow atrophy and cirrhosis. Fatty degeneration of the kidneys and heart, hemorrhage into the lungs and serous membranes, and edema of the brain have also been found in fatal cases. Some reports indicate a toxic action on the central nervous system with changes in the brain and in the peripheral nerves. The effect on the blood is one of hemolysis with appearance of young cells in the circulation and a monocytosis. Due to its solvent action on the natural skin oils, dermatitis is not uncommon.

The initial symptoms resulting from exposure to the vapor are lachrymation, salivation, and irritation of the nose and throat. Continued exposure to high concentrations results in restlessness, dizziness, nausea, vomiting, and narcosis. The latter, however, is rare in industry. More commonly, exposure is less severe and most complaints are vague and related to the digestive and nervous systems. The patient's symptoms gradually progress to a more serious illness with development of toxic jaundice, liver tenderness, etc., and possibly albuminuria and edema. With serious liver damage, the jaundice increases and toxic symptoms appear, with somnolence, delirium, convulsions, and coma usually preceding death. See also ACETYLENE COMPOUNDS and CHLORIDES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: 1,1,2,2-Tetrachloroethane, 1019.

TBQ255 CAS: 22432-68-4 HR: 2
TETRACHLOROETHYLENE CARBONATE

mf: $C_3Cl_4O_3$ mw: 225.84

SAFETY PROFILE: Reacts with tributylamine to form the toxic phosgene gas. When heated to decomposition it emits toxic fumes of Cl^-.

TBQ275 CAS: 16650-10-5 HR: 2
TETRACHLOROETHYLENE OXIDE
mf: C_2Cl_4O mw: 181.82
SYNS: EPOXYPERCHLOROVINYL □ PCEO □ TETRACHLOROEPOXYETHANE
TOXICITY DATA with REFERENCE:
otr-ham:emb 4300 µmol/L JJIND8 69,531,82
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-.

TBQ280 CAS: 2939-80-2 HR: 1
cis-N-((1,1,2,2-TETRACHLOROETHYL)THIO)-4-CYCLOHEXENE-1,2-DICARBOXYMIDECIS-3A,4,7,7A-TETRAHYDRO-2-((1,1,2,2-TETRACHLOROETHYL)THIO)-1H-ISOINDOLE-1,3(2H)-DIONE
mf: $C_{10}H_9Cl_4NO_2S$ mw: 349.06
SYNS: CRISFOLATAN □ 4-CYCLOHEXENE-1,2-DICARBOXIMIDE,N-((1,1,2,2-TETRACHLOROETHYL)THIO)-, cis- □ 1H-ISOINDOLE-1,3(2H)-DIONE,3A,4,7,7A-TETRAHYDRO-2-((1,1,2,2-TETRACHLOROETHYL)THIO)-, cis- □ MYCODIFOL □ PILLARTAN □ TN 80 (PESTICIDE)
TOXICITY DATA with REFERENCE:
cyt-ipr-rat 50 mg/kg EJGCA9 11,97,1982
orl-rat LD50:5 g/kg FMCHA2 -,C59,1991
skn-rbt LD50:>15,400 mg/kg PEMNDP 9,117,1991
CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. Mutation data reported. When heated to decomposition it emits toxic vapors of SO_x, NO_x, and Cl^-.

TBQ290 CAS: 2539-17-5 HR: 2
TETRACHLOROGUAIACOL
mf: $C_7H_4Cl_4O_2$ mw: 261.91
SYNS: 2-METHOXYTETRACHLOROPHENOL □ 2-METHOXY-3,4,5,6-TETRACHLOROPHENOL □ PHENOL, 2-METHOXY-3,4,5,6-TETRACHLORO-
TOXICITY DATA with REFERENCE:
orl-rat LD50:1690 mg/kg TXAPA9 45,295,78
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Cl^-.

TBQ300 HR: 3
2,3,4,5-TETRACHLOROHEXATRIENE
mf: $C_6H_4Cl_4$ mw: 217.90
TOXICITY DATA with REFERENCE:
orl-rat LD50:370 mg/kg 85GMAT -,108,82
ihl-rat LCLo:670 mg/m^3/2H 85GMAT -,108,82
orl-mus LD50:290 mg/kg 85GMAT -,108,82
ihl-mus LCLo:190 mg/m^3/2H 85GMAT -,108,82
SAFETY PROFILE: Poison by inhalation and ingestion. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

TBQ500 CAS: 87-87-6 HR: 3
TETRACHLOROHYDROQUINONE
mf: $C_6H_2Cl_4O_2$ mw: 247.88
PROP: Needles from AcOH. Mp: 243–245° (sinters at 2°).
SYN: USAF DO-62
TOXICITY DATA with REFERENCE:
dnd-omi 100 µmol/L MUREAV 145,71,85
dnd-mam:lym 50 mmol/L MUREAV 145,71,85
orl-mus LD50:368 mg/kg TECSDY 11,37,86
ipr-mus LD50:25 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-.

TBQ750 CAS: 1897-45-6 HR: 3
TETRACHLOROISOPHTHALONITRILE
mf: $C_8Cl_4N_2$ mw: 265.90
PROP: A solid. Mp: 250–251°.
SYNS: BRAVO □ BRAVO 6F □ BRAVO-W-75 □ CHLOROALONIL □ CHLOROTHALONIL □ CHLORTHALONIL (GERMAN) □ DAC 2797 □ DACONIL □ DACONIL 2787 FLOWABLE FUNGICIDE □ DACOSOIL □ 1,3-DICYANOTETRACHLOROBENZENE □ EXOTHERM □ EXOTHERM TERMIL □ FORTURF □ NCI-C00102 □ NOPCOCIDE □ SWEEP □ TCIN □ m-TCPN □ TERMIL □ 2,4,5,6-TETRACHLORO-3-CYANOBENZONITRILE □ m-TETRACHLOROPHTHALONITRILE □ TPN (pesticide)
TOXICITY DATA with REFERENCE:
uns-bac-esc 14,690 nmol/L EMMUEG 19,98,92
mmo-asn 800 µg/L MUREAV 176,29,87
orl-rat LD50:10 mg/kg 85ARAE 4,75,76
ihl-rat LC50:310 mg/m^3/1H FMCHA2 -,C72,91
skn-rat LD50:>2500 mg/kg FAATDF 7,299,86
orl-mus LD50:3700 mg/kg HOEKAN 30,53,80
ipr-mus LD50:2500 mg/kg INHEAO 4,11,66
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 30,319,83. NCI Carcinogenesis Bioassay (feed); Clear Evidence: rat NCITR* NCI-CG-TR-41,78. Cyanide and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic data. Moderately toxic by skin contact and intraperitoneal routes. Mildly toxic by ingestion. Mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^-, NO_x, and CN^-. See also NITRILES.

TBQ800 CAS: 147931-23-5 HR: D
TETRACHLORO(ISOQUINOLINE)((TETRAHYDROTHIOPHENE-KAPPAS) 1-OXIDE)-RUTHENATE(1-), SODIUM, (OC-6-11)-
mf: $C_{13}H_{15}Cl_4NORuS{\bullet}Na$ mw: 499.21
SYN: TEQU
TOXICITY DATA with REFERENCE:
msc-hmn-lng 100 mg/L MUREAV 439,171,1999

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

TBR000 CAS: 1335-88-2 HR: 3
TETRACHLORONAPHTHALENE
mf: $C_{10}H_4Cl_4$ mw: 265.94
PROP: Colorless to pale-yellow solid; aromatic odor. Mw: 265.96, specific gravity: 1.59−1.65, mp: 115°, bp: 311.5−360°, flash p: 410°F. Insol in water.
SYN: HALOWAX
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 mg/m^3
ACGIH TLV: TWA 2 mg/m^3
SAFETY PROFILE: Probably a poison. When heated to decomposition it emits highly toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, AROMATIC; and POLYCHLORINATED BIPHENYLS.

TBR250 CAS: 2438-88-2 HR: 3
TETRACHLORONITROANISOLE
mf: $C_7H_3Cl_4NO_3$ mw: 290.91
PROP: Fungicide, acaricide.
SYNS: ENT 22,335 □ NCI-C03032 □ 4-NITRO-2,3,5,6-TETRACHLORANISOLE □ TCNA □ 1,2,4,5-TETRACHLORO-3-METHOXY-6-NITROBENZENE (9CI) □ 2,3,5,6-TETRACHLORO-4-NITROANISOLE
TOXICITY DATA with REFERENCE:
orl-rat LD50:260 mg/kg IHFCAY 6,1,67
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-114,78.
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

TBR500 CAS: 3714-62-3 HR: 2
2,3,4,6-TETRACHLORONITROBENZENE
mf: $C_6HCl_4NO_2$ mw: 260.88
SYNS: 4-NITRO-1,2,3,5-TETRACHLORO-BENZENE □ 1,2,3,5-TETRACHLORO-4-NITROBENZENE
TOXICITY DATA with REFERENCE:
skn-mus TDLo:576 mg/kg/12W-I:NEO CNREA8 26,12,66
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

TBR750 CAS: 117-18-0 HR: 3
2,3,5,6-TETRACHLORONITROBENZENE
mf: $C_6HCl_4NO_2$ mw: 260.88
PROP: Crystals. Mp: 98−101°, bp: 304°. Spar sol in H_2O; sol in EtOH; very sol in C_6H_6, CS_2 and $CHCl_3$.
SYNS: CHIPMAN 3,142 □ FOLOSAN □ FUSAREX □ 3-NITRO-1,2,4,5-TETRACHLOROBENZENE □ TCNB □ TECNAZEN (GERMAN) □ TECNAZENE □ 2,3,5,6-TETRACHLOR-3-NITROBENZOL (GERMAN) □ 1,2,4,5-TETRACHLORO-3-NITROBENZENE
TOXICITY DATA with REFERENCE:
mmo-sat 3 µg/plate ENMUDM 5(Suppl 1),3,83
mma-sat 75 µg/plate ENMUDM 5(Suppl 1),3,83
mmo-asn 12 µmol/L PHYTAJ 66,217,76
sln-asn 24 µmol/L EVHPAZ 31,81,79
orl-rat LD50:7500 mg/kg 85DPAN -,-,71/76
unr-rat LD50:250 mg/kg 30ZDA9 -,82,71
SAFETY PROFILE: Poison by unspecified routes. Mildly toxic by ingestion. An irritant. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x. Used as a pesticide. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

TBS000 CAS: 879-39-0 HR: 2
1,2,3,4-TETRACHLORO-5-NITROBENZENE
mf: $C_6HCl_4NO_2$ mw: 260.88
SYNS: DB-905 □ FOLOSAN DB-905 FUMITE □ FOLSAN □ FUSAREX □ TCBN □ 2,3,4,5-TETRACHLORONITROBENZENE
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

TBS100 CAS: 2467-10-9 HR: 2
1,1,1,5-TETRACHLOROPENTANE
mf: $C_5H_8Cl_4$ mw: 209.93
SYN: PENTANE, 1,1,1,5-TETRACHLORO-
TOXICITY DATA with REFERENCE:
orl-rat LDLo:430 mg/kg GISAAA 27(9),3,62
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Cl^-.

TBS250 CAS: 25167-83-3 HR: 3
TETRACHLOROPHENOL
mf: $C_6H_2Cl_4O$ mw: 231.88
PROP: Brown solid; phenol odor. Mp: 50°, d: 1.65 @ 60°.
TOXICITY DATA with REFERENCE:
orl-rat LD50:140 mg/kg FEPRA7 2,76,43
scu-rat LD50:210 mg/kg FEPRA7 2,76,43
CONSENSUS REPORTS: Chlorophenol compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLOROPHENOLS.

TBS500 CAS: 4901-51-3 HR: 3
2,3,4,5-TETRACHLOROPHENOL
mf: $C_6H_2Cl_4O$ mw: 231.88
PROP: Needles from ligroin. D: 1.6 @ 60°/4°, bp: 164° at 23 mm. Very sltly sol in water; very sol in alc, ether.
TOXICITY DATA with REFERENCE:
cyt-ham:lng 60 mg/L MUREAV 241,175,90
orl-mus LD50:400 mg/kg ARTODN 40,63,78
skn-rat LDLo:2 g/kg BECTA6 31,680,83

orl-mus LD50:400 mg/kg ARTODN 40,63,78
ipr-mus LD50:97 mg/kg ARTODN 40,63,78
CONSENSUS REPORTS: Chlorophenol compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLOROPHENOLS.

TBS750 CAS: 935-95-5 HR: 3
2,3,5,6-TETRACHLOROPHENOL
mf: $C_6H_2Cl_4O$ mw: 231.88
PROP: Leaflets from ligroin. Mp: 115°.
TOXICITY DATA with REFERENCE:
orl-mus LD50:109 mg/kg ARTODN 40,63,78
ipr-mus LDLo:500 mg/kg CBCCT* 7,788,55
CONSENSUS REPORTS: Chlorophenol compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLOROPHENOLS.

TBT000 CAS: 58-90-2 HR: 3
2,4,5,6-TETRACHLOROPHENOL
mf: $C_6H_2Cl_4O$ mw: 231.88
PROP: Needles from ligroin. Mp: 70°, bp: 150° @ 15 mm.
SYNS: DOWICIDE 6 □ RCRA WASTE NUMBER U212 □ TCP □ 2,3,4,6-TETRACHLOROPHENOL
TOXICITY DATA with REFERENCE:
msc-ham:lng 3500 µg/L CMSHAF 14,1617,85
orl-rat LD50:140 mg/kg IMSUAI 39,56,70
skn-rat LD50:485 mg/kg BECTA6 31,680,83
ipr-rat LD50:130 mg/kg BJPCAL 13,20,58
scu-rat LDLo:210 mg/kg HBTXAC 5,129,59
ipr-mus LDLo:250 mg/kg CBCCT* 4,231,52
skn-rbt LD50:250 mg/kg HBTXAC 5,129,59
orl-gpg LD50:250 mg/kg FMCHA2 -,D200,75
CONSENSUS REPORTS: IARC Cancer Review: Human Limited Evidence IMEMDT 41,319,86. Chlorophenol compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and teratogenic data. Poison by ingestion, skin contact, intraperitoneal, and subcutaneous routes. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-. Used as a disinfectant and a preservative for wood, latex, and leather. See also CHLOROPHENOLS.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #45.

TBT100 CAS: 632-58-6 HR: 1
TETRACHLOROPHTHALIC ACID
mf: $C_8H_2Cl_4O_4$ mw: 303.90
SYNS: 1,2-BENZENEDICARBOXYLIC ACID, 3,4,5,6-TETRACHLORO-(9CI) □ PHTHALIC ACID, TETRACHLORO- □ 3,4,5,6-TETRACHLORO-1,2-BENZENEDICARBOXYLIC ACID
TOXICITY DATA with REFERENCE:
orl-mus LD50:4640 mg/kg NNGADV 1,283,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Slightly toxic by ingestion. When heated to decomposition it emits toxic vapors of Cl^-.

TBT150 CAS: 117-08-8 HR: 1
TETRACHLOROPHTHALIC ANHYDRIDE
mf: $C_8Cl_4O_3$ mw: 285.88
PROP: White powder. Mp: 255°, bp: 371°. Sol in water 0.4g/100ml @ 20°
SYNS: 1,3-ISOBENZOFURANDIONE, 4,5,6,7-TETRACHLORO-(9CI) □ NCI-C61585 □ NIAGATHAL □ PHTHALIC ANHYDRIDE, TETRACHLORO- □ 4,5,6,7-TETRACHLORO-1,3-ISOBENZO-FURANDIONE
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg MLD NTPTR* NIH-93-3351
orl-rat LD50:>15,800 mg/kg NTPTR* NIH-93-3351
ihl-rat LC:>3600 mg/m^3/4H NTPTR* NIH-93-3351
skn-rbt LD50:>5 g/kg NTPTR* NIH-93-3351
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. An eye irritant. When heated to decomposition it emits toxic vapors of Cl^-.

TBT175 CAS: 27355-22-2 HR: 1
4,5,6,7-TETRACHLOROPHTHALIDE
mf: $C_8H_2Cl_4O_2$ mw: 271.90
SYNS: BAYER 96610 □ FTHALIDE □ KF-32 □ PHTHALIDE, 4,5,6,7-TETRACHLORO- □ RABCIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:20 g/kg 85AREA 4,73,76/77
ihl-rat LC :>4100 mg/m^3 NNGADV 15,311,90
skn-rat LD50:>10 g/kg JPIFAN (36),32,79
ipr-rat LD50:9780 mg/kg JPIFAN (36),32,79
scu-rat LD50:>10 g/kg JPIFAN (36),32,79
orl-mus LD50:>10 g/kg JPIFAN (36),32,79
skn-mus LD50:>10 g/kg JPIFAN (40),32,82
ipr-mus LD50:>10 g/kg JPIFAN (36),32,79
scu-mus LD50:>10 g/kg JPIFAN (36),32,79
SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. When heated to decomposition it emits toxic vapors of Cl^-.

TBT200 CAS: 1953-99-7 HR: 3
TETRACHLOROPHTHALONITRILE
mf: $C_8Cl_4N_2$ mw: 265.90
SYNS: o-TCPN □ o-TETRACHLOROPHTHALODINITRILE □ 3,4,5,6-TETRACHLOROPHTHALONITRILE
TOXICITY DATA with REFERENCE:
orl-mus LD50:13,720 mg/kg INHEAO 4,11,66
ipr-mus LD50:66 mg/kg INHEAO 4,11,66
scu-mus LD50:3500 mg/kg INHEAO 4,11,66
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x, Cl^-, and CN^-. See also NITRILES.

TBT250 CAS: 1070-78-6 HR: 2

1,1,1,3-TETRACHLOROPROPANE
mf: $C_3H_4Cl_4$ mw: 181.87
PROP: D: 1.446 @ 25°/4°, bp: 159°.
TOXICITY DATA with REFERENCE:
orl-rat LD50:490 mg/kg TSCAT* OTS0515505
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

TBT300 CAS: 13116-53-5 HR: D
1,2,2,3-TETRACHLOROPROPANE
mf: $C_3H_4Cl_4$ mw: 181.87
SYN: PROPANE, 1,2,2,3-TETRACHLORO-
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of Cl^-.

TBT500 CAS: 10436-39-2 HR: 3
1,1,2,3-TETRACHLOROPROPENE
mf: $C_3H_2Cl_4$ mw: 179.85
PROP: D: 1.550 @ 20°/4°, bp: 167−167.5°.
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate 37KXA7 3,865,80
mmo-esc 500 µmol/L CNJGA8 23,17,81
mmo-smc 200 µg/L MUREAV 119,273,83
cyt-ham:ovr 100 µmol/L CNJGA8 23,17,81
orl-rat LD50:350 mg/kg AIHAAP 30,470,69
ihl-rat LCLo:250 ppm/4H AIHAAP 30,470,69
orl-mus LD50:800 mg/kg GISAAA 43(4),15,78
skn-rbt LD50:400 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and skin contact. Moderately toxic by inhalation. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

TBT750 CAS: 2808-86-8 HR: 2
2,3,4,5-TETRACHLOROPYRIDINE
mf: C_5HCl_4N mw: 216.87
PROP: A solid or liquid. Mp: 21-22°, bp: 135-137° @ 24 mm.
TOXICITY DATA with REFERENCE:
ipr-mus LD50:425 mg/kg TXAPA9 11,361,67
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

TBU000 CAS: 2402-79-1 HR: 2
2,3,5,6-TETRACHLOROPYRIDINE
mf: C_5HCl_4N mw: 216.87
PROP: A solid. Mp: 90−91°, bp: 250−251°.
TOXICITY DATA with REFERENCE:
ipr-mus LD50:1150 mg/kg TXAPA9 11,361,67
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

TBU250 CAS: 1780-40-1 HR: 3
2,4,5,6-TETRACHLOROPYRIMIDINE
mf: $C_4Cl_4N_2$ mw: 217.86
PROP: Mp: 68−70°.
SYNS: PERCHLOROPYRIMIDINE □ TETRACHLORO-PYRIMIDINE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:32 mg/kg CSLNX* NX#07768
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. A lachrymator and an irritant. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

TBU500 CAS: 1198-55-6 HR: 3
TETRACHLOROPYROCATECHOL
mf: $C_6H_2Cl_4O_2$ mw: 247.88
PROP: Crystals from EtOH or C_6H_6. Mp: 110°.
SYNS: 3,4,5,6-TETRACHLORO-1,2-BENZENEDIOL □ TETRACHLOROCATECHOL
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 85JCAE -,526,86
eye-rbt 50 µg/24H SEV 85JCAE -,526,86
orl-mus LD50:318 mg/kg TECSDY 11,37,86
ipr-mus LD50:136 mg/kg ARTODN 40,63,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. A skin and eye irritant.When heated to decomposition it emits toxic fumes of Cl^-.

TBU750 HR: 2
TETRACHLOROPYROCATECHOL HYDRATE
mf: $C_6H_2Cl_4O_2 \bullet H_2O$ mw: 265.90
SYN: TETRACHLORPYROKATECHIN (CZECH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD 28ZPAK -,81,72
eye-rbt 50 µg/24H SEV 28ZPAK -,81,72
orl-rat LD50:758 mg/kg 28ZPAK -,81,72
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 toxic fumes of Cl^-.

TBV000 CAS: 1154-59-2 HR: 3
3,3′,4′,5-TETRACHLOROSALICYLANILIDE
mf: $C_{13}H_7Cl_4NO_2$ mw: 351.01
SYNS: 3,4-DICHLORFENYLAMID KYSELINY 3,5-DICHLORSALICYLOVE □ IRGASAN BS-200 □ TCSA □ 3,5,3',4'-TETRACHLOROSALICYLANILIDE
TOXICITY DATA with REFERENCE:

skn-rbt 150 µg open MLD JSCCA5 25,113,74
skn-gpg 150 µg open MLD JSCCA5 25,113,74
orl-rat LD50:243 mg/kg PCOC** -,618,66
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion. A skin irritant. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

TBV250 CAS: 1861-32-1 HR: 3
TETRACHLOROTEREPHTHALIC ACID DIMETHYL ESTER
mf: $C_{10}H_6Cl_4O_4$ mw: 331.96
PROP: Needles from MeOH. Mp: 154–155°.
SYNS: CHLORTHAL-DIMETHYL ◻ CHLORTHAL-METHYL ◻ DACTHAL ◻ DIMETHYL TETRACHLOROTEREPHTHALATE ◻ DIMETHYL 2,3,5,6-TETRACHLOROTEREPHTHALATE ◻ FATAL ◻ 2,3,5,6-TETRACHLORO-1,4-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER ◻ 2,3,5,6-TETRACHLORPHTHALSAURE-DIMETHYLESTER (GERMAN)
TOXICITY DATA with REFERENCE:
ivn-mus LD50:320 mg/kg CSLNX* NX#02634
unr-mus LD50:3500 mg/kg TGANAK 16(1),45,82
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by an unspecified route. When heated to decomposition it emits toxic fumes of Cl^-. Used as a pesticide. See also ESTERS.

TBV300 CAS: 3737-41-5 HR: 3
3,3,4,4-TETRACHLOROTETRAHYDROTHIOPHENE-1,1-DIOXIDE
mf: $C_4H_4Cl_4O_2S$ mw: 257.94
SYNS: CP 78601 ◻ DAC 649 ◻ TETRAHYDRO-3,3,4,4-TETRACHLOROTHIOPHENE 1,1-DIOXIDE ◻ THIOPHENE, TETRAHYDRO-3,3,4,4-TETRACHLORO-, 1,1-DIOXIDE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV NTIS** OTS0555216
orl-rat LD50:87 mg/kg NTIS** OTS0555216
ihl-rat LCLo:184 mg/m^3/4H NTIS** OTS0535778
ihl-mus LCLo:184 mg/m^3/4H NTIS** OTS0535778
skn-rbt LDLo:200 mg/kg NTIS** OTS0555216
ihl-gpg LCLo:184 mg/m^3/4H NTIS** OTS0535778
SAFETY PROFILE: A poison by ingestion and skin contact. Moderately toxic by inhalation. A severe skin irritant. When heated to decomposition it emits toxic vapors of SO_x and Cl^-.

TBV750 CAS: 6012-97-1 HR: 3
2,3,4,5-TETRACHLOROTHIOPHENE
mf: C_4Cl_4S mw: 221.90
PROP: Mp: 28–30°, bp: 75° @ 2 mm, refr index: 1.5910, d: 1.704, flash p: 230°F.
SYNS: 2,3,4,5-CHLOROTHIOPHENE ◻ ENT 25,764 ◻ IF (fumigant) ◻ PENN SALT TD-183 ◻ PENPHENE ◻ PERCHLOROTHIOPHENE ◻ TCTP ◻ TD-183 ◻ TETRACHLOROTHIOFENE ◻ TETRACHLOROTHIOPHENE
TOXICITY DATA with REFERENCE:
orl-rat LD50:70 mg/kg ARSIM* 20,17,66
ihl-rat LC50:146 ppm 28ZEAL 5,219,76
ivn-mus LD50:75 mg/kg CSLNX* ND#00063
skn-rbt LD50:256 mg/kg WRPCA2 9,119,70
SAFETY PROFILE: Poison by ingestion, skin contact, intravenous, and intraperitoneal routes. Moderately toxic by inhalation. Combustible when exposed to heat or flame. When heated to decomposition it emits very toxic fumes of Cl^- and SO_x.

TBW000 CAS: 2338-29-6 HR: 3
4,5,6,7-TETRACHLORO-2-(TRIFLUOROMETHYL)BENZIMIDAZOLE
mf: $C_8HCl_4F_3N_2$ mw: 323.91
SYN: TTFB
TOXICITY DATA with REFERENCE:
orl-rat LD50:245 µg/kg PSSCBG 15,31,84
ipr-mus LD50:23 mg/kg BCPCA6 18,1389,69
ivn-mus LD50:13 mg/kg CSLNX* NX#07537
SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits very toxic fumes of F^-, Cl^-, and NO_x.

TBW025 CAS: 1066-48-4 HR: 3
TETRACHLOROTRIFLUOROMETHYLPHOSPHORANE
mf: CCl_4F_3P mw: 241.79
SAFETY PROFILE: Explosive reaction with tetramethyllead. When heated to decomposition it emits toxic fumes of Cl^-, F^-, and PO_x. See also CHLORIDES and FLUORIDES.

TBW100 CAS: 961-11-5 HR: 3
TETRACHLORVINPHOS
mf: $C_{10}H_9Cl_4O_4P$ mw: 365.96
PROP: Sol in $CHCl_3$; almost insol in H_2O.
SYNS: 2-CHLORO-1-(2,4,5-TRICHLOROPHENYL)VINYL DIMETHYL PHOSPHATE ◻ 2-CHLORO-1-(2,4,5-TRICHLOROPHENYL)VINYL PHOSPHORIC ACID DIMETHYL ESTER ◻ O,O-DIMETHYL-O-2-CHLOR-1-(2,4,5-TRICHLORPHENYL)-VINYL-PHOSPHAT (GERMAN) ◻ IPO 8 ◻ NCI-C00168 ◻ PHOSPHORIC ACID, 2-CHLORO-1-(2,4,5-TRICHLOROPHENYL)ETHENYL DIMETHYL ESTER ◻ 2,4,5-TRICHLORO-α-(CHLOROMETHYLENE)BENZYL PHOSPHATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:4 g/kg 85GYAZ -,34,71
orl-mus LD50:4200 mg/kg SAIGBL 16,523,74
ipr-mus LD50:1170 mg/kg SAIGBL 16,523,74
orl-bwd LD50: 100 mg/kg AECTCV 12,355,83
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); Results Positive: mouse, rat NCITR* NCI-CG-TR-33,78. Community Right-To-Know List.
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by ingestion. Moderately toxic by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^- and PO_x.

TBW250 CAS: 14323-41-2 HR: 3
TETRACYANONICKELATE(2–) DIPOTASSIUM, HYDRATE
mf: $C_4N_4Ni{\bullet}K{\bullet}H_2O$ mw: 219.91
SYN: POTASSIUM CYANONICKELATE HYDRATE

TOXICITY DATA with REFERENCE:
cyt-mus:mmr 1600 μmol/L MUREAV 68,337,79
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds, as well as cyanide and its compounds, are on the Community Right-To-Know List.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen)
SAFETY PROFILE: Confirmed human carcinogen. Mutation data reported. Many nickel compounds are poisons. When heated to decomposition it emits very toxic fumes of CN^-, K_2O, and NO_x. See also NICKEL COMPOUNDS and CYANIDE.

TBW500 HR: 3
TETRACYANOOCTAETHYLTETRAGOLD
mf: $C_{20}H_{40}Au_4N_4$ mw: 1124.45
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: An explosive sensitive to friction and heating to 80°C. The tetramer of cyanodiethylgold. When heated to decomposition it emits very toxic fumes of NO_x and CN^-. See also GOLD and CYANIDE.

TBW750 CAS: 1518-16-7 HR: 3
TETRACYANOQUINODIMETHAN
mf: $C_{12}H_4N_4$ mw: 204.20
PROP: Rust crystals from MeCN or THF. Subl at 293.5°.
SYNS: PROPANEDINITRILE, 2,2'-(2,5-CYCLOHEXADIENE-1,4-DIYLIDENE)BIS-(9CI) ◻ QUINODIMETHAN, TETRACYANO- ◻ TCNQ ◻ TETRACYANOQUINODIMETHAN(e) ◻ TETRACYANO-p-QUINODIMETHANE ◻ 7,7,8,8-TETRACYANOQUINODIMETHANE ◻ 7,7',8,8'-TETRACYANOQUINODIMETHANE

TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#00796
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and CN^-. See also CYANIDE.

TBX000 CAS: 60-54-8 HR: 3
TETRACYCLINE
mf: $C_{22}H_{24}N_2O_8$ mw: 444.48
PROP: Trihydrate: crystals from toluene. Mp: 170−175° (decomp). Produced by *Streptomyces albo-niger*.
SYNS: ABRAMYCIN ◻ ABRICYCLINE ◻ ACHROMYCIN ◻ AGROMICINA ◻ AMBRAMICINA ◻ AMBRAMYCIN ◻ BIO-TETRA ◻ BRISTACICLIN α ◻ BRISTACYCLINE ◻ CEFRACYCLINE SUSPENSION ◻ CRISEOCICLINE ◻ CYCLOMYCIN ◻ DEMOCRACIN ◻ DESCHLOROBIOMYCIN ◻ HOSTACYCLIN ◻ LIQUAMYCIN ◻ 6-METHYL-1,11-DIOXY-2-NAPHTHACENE-CARBOXAMIDE ◻ ω-MMYCIN ◻ NEOCYCLINE ◻ OLETETRIN ◻ PANMYCIN ◻ POLYCYCLINE ◻ PUROCYCLINA ◻ ROBITET ◻ SANCLOMYCINE ◻ SIGMAMYCIN ◻ SK-TETRACYCLINE ◻ STECLIN ◻ T-125 ◻ TETRABON ◻ TETRACYCLINE I ◻ TETRACYN ◻ TETRADECIN ◻ TETRAVERINE ◻ TSIKLOMITSIN

TOXICITY DATA with REFERENCE:
dnr-esc 20 μL/disc MUREAV 97,1,82
mrc-smc 3 g/L MUREAV 12,357,71
cyt-grh-orl 5 mg PISCAD 58(Pt. 3),623,71
orl-wmn TDLo:600 mg/kg/15D:CNS,GIT,KID SMJOAV 71,961,78
mul-wmn LDLo:310 mg/kg NEJMAG 270,157,64
orl-rat LD50:807 mg/kg TXAPA9 18,185,71
ipr-rat LD50:310 mg/kg NIIRDN 6,493,82
ivn-rat LD50:129 mg/kg ANTCAO 4,411,54
orl-mus LD50:678 mg/kg AJTHAB 2,254,53
ipr-mus LD50:125 mg/kg TDKNAF 14,60,55
scu-mus LD50:400 mg/kg 85GDA2 3,42,80
ivn-mus LD50:157 mg/kg FRPSAX 10,346,55
orl-gpg LD50:1875 mg/kg 85GMAT -,109,82
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Human poison by multiple routes. Experimental poison by intraperitoneal, intravenous, and subcutaneous routes. Moderately toxic by ingestion. Human systemic effects by ingestion: somnolence, decreased motility or constipation, and urine volume decrease or anuria. Human reproductive effects by unspecified routes: effects on newborn, including postnatal measures or effects and delayed effects on newborn. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TBX250 CAS: 64-75-5 HR: 3
TETRACYCLINE HYDROCHLORIDE
mf: $C_{22}H_{24}N_2O_8$•ClH mw: 480.94
PROP: Crystals from butanol/HCl. Mp: 214° (decomp). Very sol in water; sol in methanol, ethanol; insol in ether, hydrocarbon solvents.
SYNS: ACHROMYCIN ◻ ACHROMYCIN HYDROCHLORIDE ◻ AMBRACYN ◻ ARTOMYCIN ◻ BRISTACYCLINE ◻ CEFRACYCLINE TABLETS ◻ CHLORHYDRATE de TETRACYCLINE (FRENCH) ◻ CYCLOPAR ◻ DIACYCINE ◻ DUMOCYCIN ◻ MEDAMYCIN ◻ MEPHACYCLIN ◻ NCI-C55561 ◻ PALTET ◻ PANMYCIN HYDROCHLORIDE ◻ PARTREX ◻ PIRACAPS ◻ POLYCYCLINE HYDROCHLORIDE ◻ QIDTET ◻ QUADRACYCLINE ◻ QUATREX ◻ REMICYCLIN ◻ RICYCLINE ◻ ROCYCLINE ◻ SK-TETRACYCLINE ◻ STECLIN HYDROCHLORIDE ◻ SUBAMYCIN ◻ SUPRAMYCIN ◻ T-250 CAPSULES ◻ TC HYDROCHLORIDE ◻ TEFILIN ◻ TELINE ◻ TELOTREX ◻ TETRABAKAT ◻ TETRABLET ◻ TETRACAPS ◻ TETRACICLINA CLORIDRATO (ITALIAN) ◻ TETRACOMPREN ◻ TETRACYCLINE CHLORIDE ◻ TETRA-D ◻ TETRALUTION ◻ TETRAWEDEL ◻ TETROSOL ◻ TOPICYCLINE ◻ TOTOMYCIN ◻ TRIPHACYCLIN ◻ U-5965 ◻ UNICIN ◻ UNIMYCIN ◻ VETQUAMYCIN-324

TOXICITY DATA with REFERENCE:
dnd-esc 50 μmol/L MUREAV 89,95,81
msc-mus:mmr 100 mg/L MUREAV 40,261,76
orl-man TDLo:200 mg/kg/7D-I:SYS CPHADV 4,455,85
orl-rat LD50:6443 mg/kg TXAPA9 18,185,71
ipr-rat LD50:318 mg/kg GNRIDX 2,26,68
scu-rat LD50:700 mg/kg TXAPA9 9,445,66
ivn-rat LD50:128 mg/kg FRPSAX 10,197,55
orl-mus LD50:2759 mg/kg JPPMAB 16,33,64
ipr-mus LD50:337 mg/kg GNRIDX 2,26,68

ivn-mus LD50:157 mg/kg FRPSAX 10,197,55
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. Human systemic effects: change in taste function. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also TETRACYCLINE.

TBX300 CAS: 30507-70-1 HR: 2
9Z,12E-TETRADECADIENYL ACETATE
mf: $C_{16}H_{28}O_2$ mw: 252.44
SYNS: LITLURE B ◻ PHERODIN SL ◻ PRODENIALURE B ◻ PT-1 ◻ 9,12-TETRADECADIEN-1-YL, ACETATE, (E,Z)-
TOXICITY DATA with REFERENCE:
orl-rat LD50:>1 g/kg JPIFAN (40),32,82
orl-mus LD50:>1 g/kg JPIFAN (40),32,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

TBX500 CAS: 124-25-4 HR: 1
1-TETRADECANAL
mf: $C_{14}H_{28}O$ mw: 212.42
PROP: A liquid or solid. Mp: 30°. Found in several essential oils (FCTXAV 11,477,73).
SYNS: ALDEHYDE C-14, MYRISTIC ◻ C-14 ALDEHYDE, MYRISTIC ◻ MYRISTALDEHYDE ◻ MYRISTIC ALDEHYDE ◻ TETRADECANAL ◻ 1-TETRADECYL ALDEHYDE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MOD FCTXAV 11,1079,73
orl-rat LD50:>5 g/kg FCTXAV 11,487,73
skn-rbt LD50:>10 g/kg FCTXAV 11,487,73
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

TBX750 CAS: 629-59-4 HR: 2
TETRADECANE
mf: $C_{14}H_{30}$ mw: 198.44
PROP: Colorless liquid or oil. D: 0.765 @ 20°/4°, mp: 5.5°, bp: 252–255°, lel: 0.5%, flash p: 212°F, vap press: 1 mm @ 76.4°, vap d: 6.83, autoign temp: 396°F. Insol in water; very sol in alc and ether.
TOXICITY DATA with REFERENCE:
ivn-mus LDLo:5800 mg/kg APTOA6 37,56,75
SAFETY PROFILE: Low toxicity by intravenous route. Probably irritating and narcotic in high concentrations. Questionable carcinogen with experimental tumorigenic data. Combustible when exposed to heat or flame. Moderate explosion hazard in the form of vapor 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.

TBY250 CAS: 112-72-1 HR: 2
1-TETRADECANOL
mf: $C_{14}H_{30}O$ mw: 214.44
PROP: Opaque leaflets or crystals from EtOH (aq). Mp: 37.62°, bp: 264.1°, flash p: 285°F (OC), d: (solid) 0.8355 @ 20°/20°, d: (liquid) 0.8236 @ 38°/4°, vap press: 0.01 mm @ 20°, vap d: 7.39.
SYNS: MYRISIIC ALCOHOL ◻ N-TETRADECANOL-1 ◻ TETRADECYL ALCOHOL ◻ N-TETRADECYL ALCOHOL
TOXICITY DATA with REFERENCE:
skn-hmn 75 mg/3D-I MOD 85DKA8 -,127,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. A human skin irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS and TETRADECANOL, mixed isomers.

TBY500 CAS: 27196-00-5 HR: 2
TETRADECANOL, mixed isomers
mf: $C_{14}H_{30}O$ mw: 214.44
SYNS: MYRISTYL ALCOHOL (mixed isomers) ◻ TETRADECYL ALCOHOL
TOXICITY DATA with REFERENCE:
orl-rat LD50:33 g/kg AIHAAP 30,470,69
skn-rbt LD50:7130 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion and skin contact. 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.

TBY750 CAS: 27306-79-2 HR: 1
TETRADECANOL condensed with 7 moles ETHYLENE OXIDE
SYNS: ALKYL(C-14) POLYETHOXYLATES (ETHOXY-7) ◻ POLYOXYETHYLENE (7) ALKYL (14) ETHER
TOXICITY DATA with REFERENCE:
skn-rbt 800 mg/4W MLD FCTXAV 15,319,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHYLENE OXIDE and TETRADECANOL.

TCA250 CAS: 64604-09-7 HR: 2
12-o-TETRADECA-2-cis-4-trans,6,8-TETRA-ENOYLPHORBOL-13-ACETATE
mf: $C_{36}H_{48}O_8$ mw: 608.84
SYN: TI-8
TOXICITY DATA with REFERENCE:
dns-mus-skn 400 nmol/kg RCOCB8 24,533,79

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.

TCA300 CAS: 53939-27-8 HR: 1
9-TETRADECENAL, (Z)-
mf: $C_{14}H_{26}O$ mw: 210.40
SYNS: AI3-35584 □ (Z)-9-TETRADECEN-1-AL □ (Z)-9-TETRADECENAL
CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.
orl-rat LD50:>5000 mg/kg HBPTO* 1,142,2001
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion.. When heated to decomposition it emits acrid smoke and irritating vapors.

TCA330 CAS: 35746-21-5 HR: 1
11-TETRADECENAL, (E)-
mf: $C_{14}H_{26}O$ mw: 210.36
SYN: (E)-11-TETRADECENAL
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5000 mg/kg HBPTO* 1,142,2001
skn-rbt LD50:>5000 mg/kg HBPTO* 1,142,2001
ihl-rat LC50:>16.9 g/m^3 HBPTO* 1,142,2001
SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

TCA400 CAS: 16725-53-4 HR: 1
(Z)-9-TETRADECENOL ACETATE
mf: $C_{16}H_{30}O_2$ mw: 254.41
SYNS: ACETIC ACID, 9-TETRADECEN-1-YL ESTER, (Z)- □ 9-TETRADECEN-1-OL, ACETATE, (Z)-
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5000 mg/kg HBPTO* 1,142,2001
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

TCA500 CAS: 139-08-2 HR: 1
TETRADECYL DIMETHYL BENZYLAMMONIUM CHLORIDE
mf: $C_{23}H_{42}N{\bullet}Cl$ mw: 368.11
PROP: A solid. Mp: 60−61°.
SYNS: ARQUAD DM14B-90 □ N,N-DIMETHYL-N-TETRA-DECYLBENZENEMETHANAMINIUM, CHLORIDE (9CI) □ NISSAN CATION M2-100
TOXICITY DATA with REFERENCE:
skn-rbt 1 mg/24H OYYAA2 6(2),329,72
eye-rbt 1 mg OYYAA2 6(2),329,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin and eye irritant. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and Cl^-.

TCA750 CAS: 40036-79-1 HR: 3
TETRADECYLHEPTAETHOYLATE
TOXICITY DATA with REFERENCE:
skn-hmn 140 mg/12H-I MLD FCTXAV 15,309,77
eye-mky 100% FCTXAV 15,309,77
skn-rbt 50 mg/24H MOD FCTXAV 15,309,77
eye-rbt 10 mg MOD FCTXAV 15,309,77
orl-rat LD50:2600 mg/kg FCTXAV 15,309,77
ipr-rat LD50:209 mg/kg FCTXAV 15,309,77
ipr-mus LDLo:200 mg/kg FCTXAV 15,309,77
orl-mky LD50:10 g/kg FCTXAV 15,309,77
ipr-mky LDLo:300 mg/kg FCTXAV 15,309,77
skn-rbt LD50:2 g/kg FCTXAV 15,309,77
ipr-gpg LD50:100 mg/kg FCTXAV 15,309,77
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. A human skin irritant. An experimental skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TCB000 CAS: 4671-75-4 HR: 2
TETRADECYL PHOSPHONIC ACID
mf: $C_{14}H_{31}O_3P$ mw: 278.42
PROP: Crystals.
TOXICITY DATA with REFERENCE:
orl-mus LD50:2100 mg/kg AMIHAB 11,487,55
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of PO_x.

TCB100 CAS: 17661-50-6 HR: 1
TETRADECYL STEARATE
mf: $C_{32}H_{64}O_2$ mw: 480.96
PROP: Flake at 25 C. Mp: 43−47°.
SYNS: MYRISTYL STEARATE □ OCTADECANOIC ACID, TETRADECYL ESTER (9CI) □ STEARIC ACID, TETRADECYL ESTER □ TETRADECYL OCTADECANOATE
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg MLD JACTDZ 4(5),107,85
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: An eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TCB200 CAS: 1119-97-7 HR: 3
TETRADECYLTRIMETHYLAMMONIUM BROMIDE
mf: $C_{17}H_{38}N{\bullet}Br$ mw: 336.47
PROP: White powder. Mp: 245−250°.
SYNS: AMMONIUM, TETRADECYLTRIMETHYL-, BROMIDE □ AMMONIUM, TRIMETHYLTETRADECYL-, BROMIDE □ MORPAN T □ MYRISTYLTRIMETHYLAMMONIUM BROMIDE □ MYTAB □ QUATERNIUM 13 □ 1-TETRADECANAMINIUM, N,N,N-TRIMETHYL-, BROMIDE (9CI) □ TETRADONIUM BROMIDE □ TRIMETHYLMYRISTYLAMMONIUM BROMIDE □ N,N,N-TRIMETHYL-1-TETRADECANAMINIUM BROMIDE □ TRIMETHYLTETRADECYLAMMONIUM BROMIDE
TOXICITY DATA with REFERENCE:
ivn-rat LD50:15 mg/kg APTOA6 47,17,80
ivn-mus LD50:12 mg/kg APTOA6 47,17,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and Br^-.

TCB500 CAS: 631-41-4 HR: 2
TETRAETHANOL AMMONIUM HYDROXIDE
mf: $C_8H_{20}NO_4$•HO mw: 211.30
PROP: Crystals. Mp: 123°, vap press: <0.01 mm @ 20°, vap d: 7.28. Misc in water.
SYN: ETHANAMINIUM, 2-HYDROXY-N,N,N-TRIS(2-HYDROXYETHYL)-, HYDROXIDE (9CI)
TOXICITY DATA with REFERENCE:
eye-rbt 2 mg SEV AJOPAA 29,1363,46
orl-rat LD50:2250 mg/kg JIHTAB 23,259,41
orl-gpg LD50:3510 mg/kg JIHTAB 23,259,41
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 and NH_3.

TCB600 CAS: 2554-06-5 HR: 1
2,4,6,8-TETRAETHENYL-2,4,6,8-TETRAMETHYLCYCLOTETRASILOXANE
mf: $C_{12}H_{24}O_4Si_4$ mw: 344.72
SYNS: CYCLOTETRASILOXANE, 2,4,6,8-TETRAMETHYL-2,4,6,8-TETRAVINYL- □ CYCLOTETRASILOXANE, 2,4,6,8-TETRAETHENYL-2,4,6,8-TETRAMETHYL- □ PS 925 □ XI-2287 □ S-TETRAMETHYLTETRAVINYLCYCLOTETRASILOXANE □ 1,3,5,7-TETRAMETHYL-1,3,5,7-TETRAVINYLCYCLOTETRASILOXANE □ TETRAVINYL-TETRAMETHYLCYCLOTETRASILOXANE
TOXICITY DATA with REFERENCE:
msc-rat-fbr 50 µmol/L CRNGDP 19,315,1998
orl-rat LD50:>15 g/kg NTIS** OTS0572732
ihl-rat LC :>1320 mg/m^3/4H NTIS** OTS0572745
SAFETY PROFILE: Low toxicity by ingestion and inhalation. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

TCB725 CAS: 66-40-0 HR: 3
TETRAETHYLAMMONIUM
mf: $C_8H_{20}N$ mw: 130.29
SYNS: TEA □ TETRAETILAMMONIO (ITALIAN) □ TETRAMON □ TETRYLAMMONIUM □ N,N,N-TRIETHYLETHANAMINIUM (9CI)
TOXICITY DATA with REFERENCE:
ipr-rat LD50:115 mg/kg FRPSAX 10,1027,55
ivn-rat LD50:63 mg/kg FRPSAX 10,1027,55
ipr-mus LD50:60 mg/kg FRPSAX 10,1027,55
ivn-mus LD50:36 mg/kg JMPCAS 3,167,61
ivn-dog LD50:55 mg/kg FRPSAX 10,1027,55
ivn-rbt LD50:72 mg/kg FRPSAX 10,1027,55
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and NH_3.

TCB750 CAS: 17083-85-1 HR: 3
TETRAETHYLAMMONIUM BOROHYDRIDE
mf: $C_8H_{20}N$•BH_4 mw: 145.14
TOXICITY DATA with REFERENCE:
ivn-mus LD50:32 mg/kg CSLNX* NX#03076
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and NH_3. See also HYDRIDES and BORON COMPOUNDS.

TCC000 CAS: 71-91-0 HR: 3
TETRAETHYL AMMONIUM BROMIDE
mf: $C_8H_{20}N$•Br mw: 210.20
PROP: Crystals in abs alc. Mp: 285−290° (decomp). Very sol in alc; sol in chloroform.
SYNS: BEPARON □ ETAMBRO □ ETYLON □ SYMPATEKTOMAN □ TEA □ TEAB □ TETRYLAMMONIUM BROMIDE □ USAF DO-32
TOXICITY DATA with REFERENCE:
ipr-rat LD50:108 mg/kg PHMGBN 21,256,80
ipr-mus LD50:50 mg/kg NTIS** AD277-689
ivn-mus LD50:31 mg/kg AIPTAK 105,221,56
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and Br^-. See also BROMIDES.

TCC250 CAS: 56-34-8 HR: 3
TETRAETHYLAMMONIUM CHLORIDE
mf: $C_8H_{20}N$•Cl mw: 165.74
PROP: Very hygroscopic. Very sol in H_2O, EtOH, $CHCl_3$ and Me_2CO.
SYNS: ETAMON CHLORIDE □ TEAC □ TEA CHLORIDE □ N,N,N-TRIETHYLETHANAMINIUM CHLORIDE
TOXICITY DATA with REFERENCE:
ivn-hmn TDLo:5 mg/kg:PNS,EYE AJMSA9 213,572,47
orl-rat LD50:2630 mg/kg JPETAB 92,103,48
ivn-rat LD50:56 mg/kg JPETAB 92,103,48
ims-rat LD50:110 mg/kg JPETAB 92,103,48
orl-mus LD50:833 mg/kg JPETAB 117,169,56
ipr-mus LD50:65 mg/kg JPETAB 92,103,48
scu-mus LDLo:120 mg/kg JPETAB 25,315,25
ivn-mus LD50:37 mg/kg JPETAB 117,169,56
ivn-dog LD50:36 mg/kg JPETAB 92,103,48
ims-dog LD50:58 mg/kg JPETAB 92,103,48
scu-frg LDLo:3 mg/kg SAPHAO 10,201,1900
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous, intramuscular, intraperitoneal, and subcutaneous routes. Moderately toxic by ingestion. Human systemic effects by intravenous route: paresthesia, pupillary dilation and ptosis. When heated to decomposition it emits very toxic fumes of NO_x, Cl^-, and NH_3.

TCC500 CAS: 77-98-5 HR: 3
TETRAETHYLAMMONIUM HYDROXIDE
mf: $C_8H_{20}N$•HO mw: 147.30

PROP: Known only in solution and in form of hydrates; crystals + $4H_2O$. Mp: 40−50°, bp: (decomp), refr index: 1.4164, d: 1.023, flash p: none. Sol in water.

TOXICITY DATA with REFERENCE:
scu-mus LDLo:107 mg/kg JPETAB 28,367,26

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by subcutaneous route. Corrosive. When heated to decomposition it emits toxic fumes of NO_x and NH_3.

TCC750 CAS: 68-05-3 HR: 3
TETRAETHYLAMMONIUM IODIDE
mf: $C_8H_{20}N{\bullet}I$ mw: 257.19

PROP: Colorless crystals from water. D: 1.559 @ 4°, mp: >200°. Sol in water, ethyl, alc, chloroform; insol in ether.

SYNS: ETHANAMINIUM, N,N,N-TRIETHYL-, IODIDE (9CI) □ TETAMON IODIDE □ TETRAMON J □ N,N,N-TRIETHYLETHANAMINIUM IODIDE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:35 mg/kg BEXBAN 61,291,66
ivn-mus LD50:56 mg/kg CSLNX* NX#00818

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and I^-. See also IODIDES.

TCD000 CAS: 2537-36-2 HR: 3
TETRAETHYLAMMONIUM PERCHLORATE
mf: $C_8H_{20}N{\bullet}ClO_4$ mw: 229.74

PROP: Mp: 300°.

TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#01268

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and Cl^-. See also PERCHLORATES.

TCD002 CAS: 2567-83-1 HR: 3
TETRAETHYLAMMONIUM PERCHLORATE (dry) (DOT)
mf: $C_8H_{20}N{\bullet}ClO_4$ mw: 229.74

PROP: Solid. Mp: >300°.

SYNS: AMMONIUM, TETRAETHYL-, PERCHLORATE □ ETHANAMINIUM, N,N,N-TRIETHYL-, PERCHLORATE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: Flammable solid. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and Cl^-. See also PERCHLORATES.

TCD100 CAS: 56773-42-3 HR: 3
TETRAETHYLAMMONIUM PERFLUORO-1-OCTANESULFONATE
mf: $C_8H_{20}N{\bullet}C_8F_{17}O_3S$ mw: 629.43

SYNS: ETHANAMINIUM, N,N,N-TRIETHYL-, SALT WITH 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-HEPTADECAFLUORO-1-OCTANESULFONIC ACID (1:1) □ FLUORTENSID FT 248 □ FT 248 □ PERFLUOROOCTANESULFONIC ACID, TETRAETHYLAMMONIUM SALT □ TETRAETHYLAMMONIUM HEPTADECAFLUOROOCTANESULFONATE □ TETRAETHYLAMMONIUM PERFLUOROOCTANESULFONATE □ TETRAETHYLAMMONIUM PERFLUOROOCTYLSULFONATE

TOXICITY DATA with REFERENCE:
orl-rat LD50:190 mg/kg IJTOFN 19,346,2000

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Cl^-.

TCD250 CAS: 78-13-7 HR: 2
TETRA(2-ETHYLBUTYL) ORTHOSILICATE
mf: $C_{24}H_{52}O_4Si$ mw: 432.85

PROP: D: 0.8920−0.9018 @ 20°/20°, mp: <−100°, bp: 238° @ 50 mm, flash p: 335°F (OC). Insol in water; sltly sol in methanol; misc with most org solvs.

SYNS: 2-ETHYL-1-BUTANOL, SILICATE □ TETRA(2-ETHYLBUTOXY) SILANE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 2/15/66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. Combustible when exposed to heat or flame. To fight fire, use mist, spray, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also SILICATES.

TCD300 CAS: 589-32-2 HR: 3
N,N,N′,N′-TETRAETHYLCYSTAMINE
mf: $C_{12}H_{28}N_2S_2$ mw: 264.54

SYNS: 2,2'-BIS(DIETHYLAMINOETHYL) DISULFIDE □ 6,7-DITHIA-3,10-DIAZADODECANE, 3,10-DIETHYL- □ 2,2'-DITHIOBIS(N,N-DIETHYLETHANAMINE) □ 2,2'''-DITHIOBISTRIETHYLAMINE □ ETHANAMINE, 2,2'-DITHIOBIS(N,N-DIETHYL- □ TETRAETHYLCYSTAMINE □ TRIETHYLAMINE, 2,2'''-DITHIOBIS-(8CI)

TOXICITY DATA with REFERENCE:
orl-rat LD50:340 mg/kg GISAAA 58(1),20,1993
orl-mus LD50:440 mg/kg GISAAA 58(1),20,1993
orl-gpg LD50:320 mg/kg GISAAA 58(1),20,1993

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

TCD500 CAS: 612-08-8 HR: 3
TETRAETHYLDIARSANE
mf: $C_8H_{20}As_2$ mw: 266.09

PROP: A liquid. D: 1.29 @ 20°/4°, bp: 185−190.

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

SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of As. See also ARSENIC COMPOUNDS.

TCD600 CAS: 59697-12-0 HR: 3
N,N,N,N′-TETRAETHYL-N′,N′-DIMETHYL-3-OXAPENTANE-1,5-DIAMMONIUMDI-MONOHYDROGEN TARTRATE
mf: $C_{14}H_{34}N_2O{\bullet}C_8H_{10}O_{12}$ mw: 544.68

SYNS: AMMONIUM, N,N-DIMETHYL-N,N',N',N'-TETRAETHYL-N,N'-OXYDIETHYLENEDI-, DITARTRATE □ AS-4137 □ OXADITON

TOXICITY DATA with REFERENCE:
ipr-mus LD50:183 mg/kg APTOA6 11,319,1955

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

TCE250 CAS: 112-60-7 HR: 2
TETRAETHYLENE GLYCOL
mf: $C_8H_{18}O_5$ mw: 194.26

PROP: Colorless to pale straw-colored liquid. Bp: 327.3°, fp: −6°, flash p: 360°F (OC), d: 1.1248 @ 20/20°, vap press: 1 mm @ 153.9°. Misc in water.

SYNS: HI-DRY □ 2,2'-(OXYBIS(ETHYLENEOXY))DIETHANOL

TOXICITY DATA with REFERENCE:
skn-rbt 550 mg open MLD UCDS** 3/3/69
eye-rbt 565 mg AJOPAA 29,1363,46
orl-rat LD50:29 g/kg UCDS** 3/3/69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TCE350 CAS: 112-98-1 HR: 3
TETRAETHYLENE GLYCOL, DIBUTYL ETHER
mf: $C_{16}H_{34}O_5$ mw: 306.50

SYN: ETHYLENE GLYCOL, DIBUTOXYTETRA

TOXICITY DATA with REFERENCE:
orl-rat LD50:6500 mg/kg AMIHBC 4,119,51
ivn-mus LD50:320 mg/kg CSLNX* NX#03906
skn-rbt LD50:10 g/kg AMIHBC 4,119,51

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

SAFETY PROFILE: Poison by intravenous route. Mildly toxic by ingestion and skin contact. Some glycol ether compounds have dangerous human reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

TCE375 CAS: 70729-68-9 HR: 1
TETRAETHYLENE GLYCOL-DI-n-HEPTANOATE
mf: $C_{22}H_{42}O_7$ mw: 418.64

PROP: Plasticizer.

SYN: TEGDH

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD DCTODJ 8,409,85
orl-rat LD50:25 g/kg DCTODJ 8,409,85
ihl-rat LCLo:14,200 mg/m^3/4H DCTODJ 8,409,85

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

TCE400 CAS: 109-17-1 HR: D
TETRAETHYLENE GLYCOL DIMETHACRYLATE
mf: $C_{16}H_{26}O_7$ mw: 330.42

PROP: D: 1.075. bp: 200°.

SYNS: METHACRYLIC ACID, DIESTER with TETRAETHYLENE GLYCOL □ 2-PROPENOIC ACID, 2-METHYL-, OXYBIS(2,1-ETHANEDIYLOXY-2,1-ETHANEDIYL)ESTER □ SR 209 □ TGM 4

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD JTEHD6 19,149,86
mnt-mus:lyms 475 mg/L MUTAEX 4,381,89
cyt-mus:lyms 350 mg/L MUTAEX 4,381,89

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TCE450 CAS: 36366-93-5 HR: 2
TETRAETHYLENE GLYCOL MONOPHENYL ETHER
mf: $C_{14}H_{22}O_5$ mw: 270.36

SYNS: DOWANOL T 4PH □ ETHANOL, 2-(2-(2-(2-PHENOXYETHOXY)ETHOXY)ETHOXY)-

TOXICITY DATA with REFERENCE:
orl-rat LD50:1260 mg/kg 38MKAJ 2C,3971,82

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

TCE500 CAS: 112-57-2 HR: 3
TETRAETHYLENEPENTAMINE

DOT: UN 2320
mf: $C_8H_{23}N_5$ mw: 189.36

PROP: Viscous, hygroscopic liquid. Bp: 333°, mp: −40°, flash p: 325°F (OC), d: 0.9980 @ 20°/20°, vap press: <0.01 mm @ 20°.

SYNS: D.E.H. 26 □ 1,4,7,10,13-PENTAAZATRIDECANE

TOXICITY DATA with REFERENCE:
skn-rbt 495 mg open SEV UCDS** 3/20/73
eye-rbt 5 mg MOD UCDS** 3/20/73
mmo-sat 333 µg/plate ENMUDM 8(Suppl 7),1,86
mma-sat 333 µg/plate ENMUDM 8(Suppl 7),1,86
orl-rat LD50:205 mg/kg ICHAA3 91,L51,84
ivn-mus LD50:320 mg/kg CSLNX* NX#03522
skn-rbt LD50:660 mg/kg JIHTAB 31,60,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by ingestion and intravenous routes. Moderately toxic by skin contact. Mutation data reported. A corrosive irritant to skin, eyes, and mucous membranes. 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 toxic fumes of NO_x.

TCE750 CAS: 597-63-7 HR: 2
TETRAETHYL GERMANE
mf: $C_8H_{20}Ge$ mw: 188.87

PROP: Colorless oil or liquid. Decomp by water. D: 1.198 @ 0°, mp: −90°, bp: 163°.

SYN: TETRAETHYL GERMANIUM

TOXICITY DATA with REFERENCE:
orl-rat LDLo:700 mg/kg CHDDAT 262,1302,66

ipr-rat LDLo:590 mg/kg CHDDAT 262,1302,66
orl-mus LDLo:2870 mg/kg CHDDAT 262,1302,66
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Animal experiments show stimulation of blood formation. When heated to decomposition it emits acrid smoke and irritating fumes. See also GERMANIUM COMPOUNDS.

TCF000 CAS: 78-00-2 HR: 3
TETRAETHYL LEAD
DOT: NA 1649
mf: $C_8H_{20}Pb$ mw: 323.47
PROP: Colorless, oily liquid; pleasant characteristic odor. Mp: 125−150°, bp: 198−202° with decomp, d: 1.659 @ 18°, vap press: 1 mm @ 38.4°, flash p: 200°F. IDLH 40 mg/m^3 (as Pb).
SYNS: CZTEROETHLEK OLOWIU (POLISH) ◻ LEAD, TETRAETHYL- ◻ NCI-C54988 ◻ NSC-22314 ◻ PIOMBO TETRA-ETILE ◻ RCRA WASTE NUMBER P110 ◻ TEL ◻ TETRAETHYL LEAD, liquid (DOT) ◻ TETRAETHYLOLOVO ◻ TETRAETHY-LPLUMBANE ◻ TETRAETHYLPLUMBIUM
TOXICITY DATA with REFERENCE:
otr-ham:emb 12,500 µg/L AETODY 1,241,80
ihl-hmn TCLo:1749 g/m^3/30M:NOSE,EYE,GIT SAIGBL 17,223,75
unr-man LDLo:1470 µg/kg 85DCAI 2,73,70
orl-rat LD50:12,300 µg/kg EXPEAM 28,923,72
ihl-rat LC50:850 mg/m^3/60M BJIMAG 18,277,61
ipr-rat LD50:15 mg/kg MELAAD 54,486,63
ivn-rat LD50:14,400 µg/kg MELAAD 54,486,63
par-rat LD50:15 mg/kg AOHYA3 3,226,61
ihl-mus LCLo:650 mg/m^3/7H SAIGBL 15,3,73
skn-dog LDLo:547 mg/kg SAIGBL 15,3,73
orl-rbt LDLo:30 mg/kg SAIGBL 15,3,73
skn-rbt LDLo:830 mg/kg SAIGBL 15,3,73
scu-rbt LDLo:32 mg/kg EQSSDX 1,1,75
ivn-rbt LDLo:22 mg/kg EQSSDX 1,1,75
skn-gpg LDLo:995 mg/kg SAIGBL 15,3,73
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,230,87; Animal Inadequate Evidence IMEMDT 23,325,80; IMEMDT 2,150,73. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 0.075 mg(Pb)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Pb)/m^3 (skin); Not Classifiable as a Human Carcinogen
DFG MAK: 0.05 mg/m^3
DOT CLASSIFICATION: 6.1; Label: Poison, Flammable Liquid
SAFETY PROFILE: Human poison by an unspecified route. Experimental poison by ingestion, intraperitoneal, intravenous, subcutaneous, and parenteral routes. Moderately toxic by inhalation and skin contact. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. Lead compounds are particularly toxic to the central nervous system. It is a solvent for fatty materials and has some solvent action on rubber as well. The fact that it is a lipoid solvent makes it an industrial hazard because it can cause intoxication not only by inhalation but also by absorption through the skin. Decomposes when exposed to sunlight or allowed to evaporate; forms triethyl lead, which is also a poisonous compound, as one of its decomposition products. May cause elemental lead intoxication by coming in contact with the skin.

A combustible liquid when exposed to heat, flame, or oxidizers. Can react vigorously with oxidizing materials. Exposure to air for several days may cause explosive decomposition. To fight fire, use dry chemical, CO_2, mist, foam. When heated to decomposition it emits toxic fumes of Pb. See also LEAD COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Tetraethyl Lead (as Pb), 2533.

TCF250 CAS: 107-49-3 HR: 3
TETRAETHYL PYROPHOSPHATE
DOT: NA 2783/NA 3018
mf: $C_8H_{20}O_7P_2$ mw: 290.22
PROP: Water-white to amber hygroscopic liquid. D: 1.20, bp: 104−110°. Misc in H_2O and most org solvs. Spar sol in pet ether.
SYNS: BIS-O,O-DIETHYLPHOSPHORIC ANHYDRIDE ◻ BLADAN ◻ DIPHOSPHORIC ACID TETRAETHYL ESTER ◻ ENT 18,771 ◻ FOSVEX ◻ GRISOL ◻ HEPT ◻ HEXAMITE ◻ KILLAX ◻ KILMITE 40 ◻ LETHALAIRE G-52 ◻ LIROHEX ◻ MORTOPAL ◻ NIFOS T ◻ PYROPHOSPHATE de TETRA-ETHYLE (FRENCH) ◻ RCRA WASTE NUMBER P111 ◻ TEPP (ACGIH) ◻ O,O,O,O-TETRAAETHYL-DIPHOSPHAT, BIS(O,O-DIAETHYLPHOSPHORSAEURE)-ANHYDRID (GERMAN) ◻ O,O,O,O-TETRAETHYL-DIFOSFAAT (DUTCH) ◻ TETRAETHYL PYROFOSFAAT ◻ TETRAETHYL PYROPHOSPHATE, liquid (DOT) ◻ O,O,O,O-TETRAETIL-PIROFOSFATO (ITALIAN) ◻ TETRASTIGMINE ◻ TETRON ◻ TETRON-100 ◻ VAPOTONE
TOXICITY DATA with REFERENCE:
par-hmn TDLo:71 µg/kg:CNS,GIT CMEP** -,1,56
orl-hmn LDLo:1429 µg/kg:PNS,CNS,GIT CMEP** -,1,56
orl-hmn TDLo:309 µg/kg:CNS,GIT CMEP** -,1,56
ims-hmn LDLo:286 µg/kg:PNS,CNS,GIT CMEP** -,1,56
orl-rat LD50:500 µg/kg PHJOAV 185,361,60
skn-rat LD50:2400 µg/kg TXAPA9 14,515,69
ipr-rat LD50:650 µg/kg FEPRA7 6,353,47
scu-rat LD50:279 µg/kg FAATDF 4(2,Pt 2),S195,84
ivn-rat LD50:300 µg/kg CJBPAZ 34,197,56
ims-rat LD50:1800 µg/kg JCINAO 37,350,58
orl-mus LD50:7 mg/kg TXAPA9 21,153,72
ipr-mus LD50:830 µg/kg AIPTAK 121,104,59
scu-mus LD50:520 µg/kg AIPTAK 124,212,60
ivn-mus LD50:200 µg/kg BJPCAL 9,299,54
ivn-rbt LDLo:300 µg/kg BJPCAL 8,466,53
skn-dck LD50:64 mg/kg TXAPA9 47,451,79
par-frg LD50:34 mg/kg AIPTAK 124,212,60
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.
OSHA PEL: TWA 0.05 mg/m^3 (skin)
ACGIH TLV: TWA 0.004 mg/m^3 (skin)
DFG MAK: 0.005 ppm (0.060 mg/m^3)
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Human poison by ingestion and intramuscular routes. Experimental poison by ingestion, skin contact, intraperitoneal, intramuscular, subcutaneous,

parenteral, and intravenous routes. Human systemic effects by ingestion, intramuscular, and parenteral routes: paresthesia, wakefulness, excitement, muscle contraction or spasticity, nausea or vomiting and other gastrointestinal changes. The action is similar to that of parathion: causing an irreversible inhibition of the cholinesterase molecules and the consequent accumulation of large amounts of acetylcholine. Small doses at frequent intervals are largely additive. When heated to decomposition it emits toxic fumes of PO_x. See also PARATHION.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Tetraethyl Pyrophosphate, 2504.

TCF260 HR: 3
TETRAETHYLPYROPHOSPHATE and compressed gas mixtures
DOT: UN 1705
mf: $C_8H_{20}O_7P_2$ mw: 290.22
SYNS: TETRAETHYL PYROPHOSPHATE and COMPRESSED GAS MIXTURES LC50 < or =200 ppm (UN 1705) (DOT) □ TETRAETHYL PYROPHOSPHATE and COMPRESSED GAS MIXTURES LC50 >200 ppm, not >5000 ppm (UN 1705) (DOT)
DOT CLASSIFICATION: 2.3; Label: Poison Gas
SAFETY PROFILE: A poison gas. When heated to decomposition it emits toxic fumes of PO_x. See also TETRAETHYLPYROPHOSPHATE.

TCF750 CAS: 597-64-8 HR: 3
TETRAETHYLSTANNANE
mf: $C_8H_{20}Sn$ mw: 234.97
PROP: Colorless liquid. D: 1.187 @ 23°, mp: −112°, bp: 181°. Insol in water; sol in org solvs.
SYN: TETRAETHYL TIN
TOXICITY DATA with REFERENCE:
orl-rat LD50:16 mg/kg HYSAAV 32,11,67
ivn-rat LDLo:25 mg/kg BJPCAL 10,16,55
ipr-mus LDLo:32 mg/kg CBCCT* 4,234,52
orl-rbt LD50:7 mg/kg HYSAAV 32,11,67
orl-gpg LD50:37 mg/kg HYSAAV 32,11,67
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Sn)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin).
NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

TCG000 CAS: 4531-35-5 HR: 3
TETRAETHYNYLGERMANIUM
mf: C_8H_4Ge mw: 172.67
$(HC{\equiv}C)_4Ge$
PROP: A solid. Mp: 94°.
SAFETY PROFILE: Explodes on rapid heating or friction. When heated to decomposition it emits acrid smoke and irritating fumes. See also GERMANIUM COMPOUNDS and ACETYLENE COMPOUNDS.

TCG250 CAS: 16413-88-0 HR: 3
TETRAETHYNYLTIN
mf: C_8H_4Sn mw: 218.77
$(HC{\equiv}C)_4Sn$
SAFETY PROFILE: Explodes on rapid heating. When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS and ACETYLENE COMPOUNDS.

TCG450 CAS: 25483-10-7 HR: 3
TETRAFLUOROAMMONIUM PERBROMATE
mf: BrF_4NO_4 mw: 233.90
SAFETY PROFILE: Explodes on contact with hydrogen fluoride. When heated to decomposition it emits toxic fumes of F^-, Br^-, NO_x, and NH_3. See also FLUORIDES and BROMATES.

TCG500 CAS: 15640-93-4 HR: 3
TETRAFLUORO AMMONIUM TETRAFLUOROBORATE
mf: BF_8N mw: 176.81
SAFETY PROFILE: Mixtures with dioxygenyl tetrafluoroborate are powerful oxidizers and impact-sensitive explosives. The mixture causes 2-propanol to ignite on contact. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and F^-. See also FLUORIDES and BORON COMPOUNDS.

TCG750 CAS: 42794-87-6 HR: D
3,3′,5,5′-TETRAFLUOROBENZIDINE
mf: $C_{12}H_8F_4N_2$ mw: 256.22
SYN: 3,3',5,5'-TETRAFLUORO(1,1'-BIPHENYL)-4,4'-DIAMINE
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate CALEDQ 1,39,75
dns-hmn:hla 100 nmol/L CNREA8 38,2621,78
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits very toxic fumes of F^- and NO_x.

TCH000 HR: 3
TETRAFLUOROBORATE(1−) compound with p-AMINOBENZOIC ACID 2-(DIETHYLAMINO)-ETHYL ESTER
mf: $BF_4{\bullet}C_{13}H_{20}N_2O_2$
PROP: Colorless liquid. Bp: decomp @ 130°.
SYN: PROCAINE FLUOBORATE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:65 mg/kg THERAP 10,473,55
SAFETY PROFILE: Poison by intravenous route. A corrosive irritant to skin, eyes, and mucous membranes. When heated to decomposition it emits toxic fumes of F^- and NO_x. See also FLUORIDES and BORON COMPOUNDS.

TCH100 CAS: 2252-95-1 HR: 3

1,1,4,4-TETRAFLUOROBUTATRIENE
mf: C_4F_4 mw: 124.04
$F_2C{=}C{=}C{=}CF_2$
SAFETY PROFILE: The liquid explodes above −5°C. Upon decomposition it emits toxic fumes of F^-. See also FLUORIDES.

TCH150 CAS: 354-25-6 HR: 3
1,1,2,2-TETRAFLUORO-1-CHLOROETHANE
mf: C_2HClF_4 mw: 136.48
SYNS: 1-CHLORO-1,1,2,2-TETRAFLUOROETHANE □ ETHANE, 1-CHLORO-1,1,2,2-TETRAFLUORO- □ F 124A □ HCFC 124A □ R 124A
TOXICITY DATA with REFERENCE:
ihl-rat LC50:1220 g/m^3/4H TOVEFN (3),25,1996
ihl-mus LC50:1400 g/m^3/2H TOVEFN (3),25,1996
ihl-gpg LC:>20 pph/2H JOCMA7 4,262,1962
SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits toxic vapors of F^- and Cl^-.

TCH250 CAS: 17224-09-8 HR: 3
TETRAFLUORODIAZIRIDINE
mf: CF_4N_2 mw: 116.02
SAFETY PROFILE: Powerful explosive very sensitive to shock or phase changes. A powerful oxidizer. When heated to decomposition it emits very toxic fumes of NO_x and F^-. See also FLUORIDES.

TCH325 CAS: 71292-84-7 HR: 2
3,5,3′,5′-TETRAFLUORODIETHYLSTILBESTROL
mf: $C_{18}H_{16}F_4O_2$ mw: 340.34
SYNS: trans-α,α'-DIETHYL-3,3',5,5'-TETRAFLUORO-4,4'-STILBENEDIOL □ α,α'-DIETHYL-3,3',5,5'-TETRAFLUORO-4,4'-STILBENEDIOL (E)-
TOXICITY DATA with REFERENCE:
otr-ham:emb 10 µg/L CNREA8 42,3040,82
dnd-ham:emb 7 mg/L CRNGDP 7,1329,86
imp-ham TDLo:360 mg/kg/12W-I:CAR CNREA8 43,2678,83
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F^-. See also DIETHYLSTILBESTEROL.

TCH500 CAS: 116-14-3 HR: 3
TETRAFLUOROETHYLENE
DOT: UN 1081
mf: C_2F_4 mw: 100.02
PROP: Colorless gas. Mp: −142.5°, bp: −78.4°, lel: 11%, uel: 60%.
SYNS: FLUOROPLAST 4 □ PERFLUOROETHENE □ PERFLUOROETHYLENE □ TETRAFLUORETHYLENE □ TETRAFLUOROETHENE □ TETRAFLUOROETHYLENE, inhibited (DOT)
TOXICITY DATA with REFERENCE:
ihl-rat LC50:40,000 ppm/4H JOCMA7 4,262,62
ihl-mus LC50:143 g/m^3/kg GTPZAB 21(5),36,77
ihl-gpg LC50:116 g/m^3/kg GTPZAB 21(5),36,77
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 3 IMEMDT 7,56,87. Reported in EPA TSCA Inventory.
ACGIH TLV: TWA 2 ppm; Confirmed Animal Carcinogen with Unknown Relevance to Humans
DOT CLASSIFICATION: 2.1; Label: Flammable Gas
SAFETY PROFILE: Confirmed carcinogen. Mildly toxic by inhalation. Can act as an asphyxiant and may have other toxic properties. The gas is flammable when exposed to heat or flame. The inhibited monomer will explode if ignited. Explosive in the form of vapor when exposed to heat or flame. Will explode at pressures above 2.7 bar if limonene inhibitor is not added. Iodine pentafluoride depletes the limonene inhibitor and then causes explosive polymerization of the monomer. Mixtures with hexafluoropropene and air form an explosive peroxide. Reacts violently with SO_3; air; difluoromethylene dihypofluorite; dioxygen difluoride; iodine pentafluoride; oxygen. When heated to decomposition it emits highly toxic fumes of F^-. See also FLUORIDES.

TCI000 CAS: 10036-47-2 HR: 3
TETRAFLUORO HYDRAZINE
mf: N_2F_4 mw: 104.0
F_2NNF_2
PROP: Colorless gas or liquid; white solid when pure. Almost totally dissociates to NF_2 at 3°. Slowly hydrolyzed by H_2O. Mp: −163°, bp: −73°, d (liquid): 1.5 @ −100°.
SYNS: DINITROGEN TETRAFLUORIDE □ PERFLUORO HYDRAZINE
TOXICITY DATA with REFERENCE:
ihl-rat LCLo:50 ppm/4H 34ZIAG -,580,69
ihl-gpg LC50:900 ppg/1H TXAPA9 6,447,64
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 (Inorganic Fluorides) 2.5 mg(F)/m^3
SAFETY PROFILE: A poison. An unstable explosive gas sensitive to light, heat, or contact with air or steel. At high pressures it can explode due to shock or blast. Flammable when exposed to heat or flame. Potentially explosive reaction with hydrocarbons; hydrogen; organic materials; reducing agents; oxygen. Forms explosive mixtures with alkenyl nitrates; nitrogen trifluoride. When heated to decomposition it emits highly toxic fumes of F^- and NO_x. See also FLUORIDES, HYDROFLUORIC ACID, and HYDRAZINE.

TCI100 CAS: 102489-70-3 HR: 3
2,2,3,3-TETRAFLUORO-4,7-METHANO-2,3,5,6,-8,9-HEXAHYDROBENZOSELENOPHENE
mf: $C_9H_{10}F_4Se$ mw: 273.15
SYN: 4,7-METHANOSELENOPHENE, OCTAHYDRO-2,2,3,3-TETRAFLUORO-
TOXICITY DATA with REFERENCE:
ivn-mus LD50:1 mg/kg CSLNX* NX#10021
OSHA PEL: TWA 0.2 mg(Se)/m^3
ACGIH TLV: TWA 0.2 mg(Se)/m^3

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of Se and F^-.

TCI150 CAS: 86209-51-0 HR: 2
3-(4,6-(TETRAFLUOROMETHOXY)PYRIMIDIN-2-YL)-1-((2-METHOXYCARBONYL)PHENYL-SULFONYL)UREA
mf: $C_{15}H_{12}F_4N_4O_7S$ mw: 468.37
SYNS: BEACON □ BENZOIC ACID, 2-(((((4,6-BIS(DIFLUORO-METHOXY)-2-PYRIMIDINYL)AMINO)CARBONYL)AMINO)-SULFONY L)-, METHYL ESTER □ 3-(4,6-BIS(DIFLUORO-METHOXY)PYRIMIDIN-2-YL)-1-(2-METHOXYCARBONYL-PHENYLSULFONYL)UREA □ TELL □ CGA 136872 □ PRIMISULFURON
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5050 mg/kg FMCHA2-,C40,1991
skn-rat LD50:>2010 mg/kg FMCHA2-,C40,1991
SAFETY PROFILE: Moderately toxic by skin contact. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and F^-.

TCI250 CAS: 63886-77-1 HR: 3
TETRAFLUORO-m-PHENYLENEDIAMINE DIHYDROCHLORIDE
mf: $C_6H_4F_4N_2$•2ClH mw: 253.04
TOXICITY DATA with REFERENCE:
orl-mus TDLo:65 g/kg/78W-C:CAR JEPTDQ 2,325,78
ipr-rat LD50:270 mg/kg NCIBR* NIH-NCI-E-68-1311,10,73
SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of F^-, NO_x, and HCl.

TCI500 CAS: 56973-16-1 HR: 2
TETRAFLUORO-m-PHENYLENE DIMALEIMIDE
mf: $C_{14}H_4F_4N_2O_4$ mw: 340.20
SYNS: 1,1'-(TETRAFLUORO-m-PHENYLENE)DIMALEIMIDE □ TFPHM
TOXICITY DATA with REFERENCE:
orl-rat LD50:2100 mg/kg GISAAA 40(11),109,75
orl-mus LD50:1650 mg/kg GISAAA 40(11),109,75
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of F^- and NO_x.

TCI750 CAS: 76-37-9 HR: 3
2,2,3,3-TETRAFLUORO-1-PROPANOL
mf: $C_3H_4F_4O$ mw: 132.07
$F_2CHCF_2CH_2OH$
PROP: Bp: 109°, refr index: 1.3210, d: 1.471, flash p: 110°F.
TOXICITY DATA with REFERENCE:
orl-rat LDLo:3400 mg/kg JOCMA7 4,262,62
ihl-rat LCLo:2000 ppm/4H JOCMA7 4,262,62
ihl-mus LC50:8600 mg/m^3/2H 85GMAT -,109,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by inhalation. An irritant. Flammable liquid when exposed to heat, sparks, or flame. Violent reaction and ignition with sodium hydroxide or potassium hydroxide. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

TCI800 HR: 3
TETRAFLUOROSUCCINAMIDE
mf: $C_4H_4F_4N_2O_2$ mw: 188.08
$(-CF_2CO•NH_2)_2$
SAFETY PROFILE: Forms an explosive complex with lithium tetrahydroaluminate. When heated to decomposition it emits toxic fumes of F^- and NO_x. See also FLUORIDES and AMIDES.

TCJ000 CAS: 377-38-8 HR: 3
TETRAFLUOROSUCCINIC ACID
mf: $C_4H_2F_4O_4$ mw: 190.06
$(HOCO•CF_2-)_2$
PROP: A solid. Mp: 116°, bp: 150° @ 15 mm.
SYNS: PERFLUOROSUCCINIC ACID □ TETRAFLUO-ROBUTANEDIOIC ACID
TOXICITY DATA with REFERENCE:
unr-mus LDLo:200 mg/kg 11FYAN 3,85,63
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by an unspecified route. Reacts to form an explosive product with cesium fluoride + fluorine. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES.

TCJ025 CAS: 10256-92-5 HR: 3
TETRAFLUOROUREA
mf: CF_4N_2O mw: 132.02
PROP: Colorless gas. Bp: −20°.
SAFETY PROFILE: Solutions in acetonitrile form the explosive difluorodiazine at room temperature. When heated to decomposition it emits toxic fumes of F^- and NO_x.

TCJ050 HR: 3
TETRAFORMYL-DIGITOXIN
mf: $C_{45}H_{64}O_{17}$ mw: 877.09
SYN: TETRAFORMATE DIGITOXIN
TOXICITY DATA with REFERENCE:
orl-mus LD50:5920 µg/kg AIPTAK 153,436,65
scu-mus LD50:4460 µg/kg AIPTAK 153,436,65
ivn-gpg LDLo:2900 µg/kg AIPTAK 153,436,65
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits acrid smoke and irritating fumes. See also DIGITOXIN.

TCJ075 CAS: 321-64-2 HR: 3
TETRAHYDROAMINOCRINE
mf: $C_{13}H_{14}N_2$ mw: 198.29
PROP: Octahedra from EtOH (aq). Mp: 183−184°.
SYNS: 9-ACRIDINAMINE, 1,2,3,4-TETRAHYDRO-(9CI) □ 5-AMINO-6,7,8,9-TETRAHYDROACRIDINE (European) □ 9-AMINO-1,2,3,4-TETRAHYDROACRIDINE □ CS 12602 □ ROMOTAL □ TACRINE □ 1,2,3,4-TETRAHYDRO-9-ACRIDINAMINE □ TETRAHYDROAMINACRINE □ TETRAHYDROAMINO-

ACRIDINE □ TETRAHYDROAMINOCRIN □ 1,2,3,4-TETRA-HYDRO-5-AMINOACRIDINE □ THA

TOXICITY DATA with REFERENCE:
cyt-mus-ipr 75 mg/kg ACNSAX 26,84,84
cyt-mus-orl 100 mg/kg ACNSAX 26,84,84
orl-wmn TDLo:294 mg/kg/14W-I:SYS,BLD LANCAO 1,887,88
orl-rat LD50:103 mg/kg DRFUD4 15,126,90
ipr-rat LD50:30 mg/kg IPPABX 3,43,67
scu-mus LD50:25 mg/kg BJEPA5 28,1,47

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and subcutaneous routes. Mutation data reported. Human systemic effects: changes in blood cell count, fatty degeneration, liver function tests impaired. When heated to decomposition it emits toxic fumes of NO_x.

TCJ100 CAS: 1321-16-0 HR: 2
TETRAHYDROBENZALDEHYDE
mf: C_7H_9N mw: 110.17
SYN: CYCLOHEXENECARBOXALDEHYDE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 6/28/65
eye-rbt 5 mg SEV UCDS** 6/28/65
orl-rat LD50:1050 mg/kg GTPZAB 18(11),41,74
orl-mus LD50:1000 mg/kg GTPZAB 18(11),41,74
ihl-mus LC50:556 mg/m^3/4H GTPZAB 18(11),41,74
orl-rbt LD50:1600 mg/kg GTPZAB 18(11),41,74
skn-rbt LD50:1770 mg/kg UCDS** 6/28/65
orl-gpg LD50:1750 mg/kg GTPZAB 18(11),41,74

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and inhalation. A skin and severe eye irritant. The liquid is flammable when exposed to heat or flame. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES.

TCJ500 CAS: 3570-54-5 HR: 2
1,2,5,6-TETRAHYDROBENZO(j)CYCLOPENT-(fg)ACEANTHRYLENE
mf: $C_{22}H_{16}$ mw: 280.38
SYNS: NORSTEARANTHRENE □ F-NORSTEARANTHRENE

TOXICITY DATA with REFERENCE:
scu-mus TDLo:72 mg/kg/13W-I:ETA NATWAY 53,583,66

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

TCJ775 CAS: 17750-93-5 HR: 2
7,8,9,10-TETRAHYDROBENZO(a)PYRENE
mf: $C_{20}H_{16}$ mw: 256.36
SYN: 1',2',3',4'-TETRAHYDRO-3,4-BENZOPYRENE

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

TCJ800 CAS: 5096-57-1 HR: 3
TETRAHYDROBERBERINE
mf: $C_{20}H_{21}NO_4$ mw: 339.42
PROP: A solid. Mp: 132°.
SYNS: CANADINE □ (−)-CANADINE □ α-CANADINE □ 9,10-DIMETHOXY-2,3-(METHYLENEDIOXY)BERBINE □ (−)-TETRAHYDROBERBERINE □ (s)-5,8,13,13a-TETRAHYDRO-9,10-DIMETHOXY-6H-BENZO(g)-1,3-BENZODIOXOLO(5,6-a)QUINOLIZINE □ 5,6,13,13a-TETRAHYDO-9,10-DIMETHOXY-2,3-(METHYLENEDIOXY)-8H-DIBENZO(a,g)QUINOLIZINE □ XANTHOPUCCINE

TOXICITY DATA with REFERENCE:
orl-mus LD50:940 mg/kg MEIEDD 10,239,83
scu-mus LD50:790 mg/kg MEIEDD 10,239,83
ivn-mus LD50:100 mg/kg MEIEDD 10,239,83

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

TCJ825 CAS: 3471-05-4 HR: 3
3,4,5,6-TETRAHYDRO-2,3'-BIPYRIDINE
mf: $C_{10}H_{12}N_2$ mw: 160.24
SYNS: ANABASEINE □ 2,3'-BIPYRIDINE, 3,4,5,6-TETRAHYDRO-

TOXICITY DATA with REFERENCE:
ipr-mus LD50:4200 µg/kg EXPEAM 32,684,76

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

TCJ900 CAS: 134-97-4 HR: 1
TETRAHYDRO-1,3-BIS(HYDROXYMETHYL)-5-ETHYL-1,3,5-TRIAZIN-2(1H)-ONE
mf: $C_7H_{15}N_3O_3$ mw: 189.25
SYNS: PERMAFRESH SW □ PROX RX □ 1,3,5-TRIAZIN-2(1H)-ONE, TETRAHYDRO-1,3-BIS(HYDROXYMETHYL)-5-ETHYL-

TOXICITY DATA with REFERENCE:
orl-rat LD50:8220 mg/kg GISAAA 53(2),93,88
orl-mus LD50:8500 mg/kg GISAAA 53(2),93,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TCM000 CAS: 5957-75-5 HR: 3
1-trans-Δ⁸-TETRAHYDROCANNABINOL
mf: $C_{21}H_{30}O_2$ mw: 314.51
PROP: An oil. Bp: 175−178° @ 0.1 mm.
SYNS: (−)-Δ⁶-3,4-trans-TETRAHYDROCANNABINOL □ (−)-Δ⁸-trans-TETRAHYDROCANNABINOL □ Δ⁶-THC □ Δ⁸-THC

TOXICITY DATA with REFERENCE:
dni-hmn:hla 10 µmol/L ANTRD4 3,211,83
oms-mus-ipr 200 mg/kg RCOCB8 17,703,77
orl-rat LD50:860 mg/kg TXAPA9 25,363,73
ipr-rat LD50:560 mg/kg AIPTAK 196,133,72
ivn-rat LD50:97 mg/kg AIPTAK 196,133,72
ipr-mus LD50:210 mg/kg AIPTAK 196,133,72
ivn-mus LD50:27,500 µg/kg JMCMAR 21,1079,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. Human mutation data reported. An hallucinatory drug. When heated to decomposition it emits acrid smoke and irritating fumes. See also CANNABIS.

TCM250 CAS: 1972-08-3 HR: 3
1-trans-Δ⁹-TETRAHYDROCANNABINOL
mf: $C_{21}H_{30}O_2$ mw: 314.51
PROP: Bp: 155−157° @ 0.05 mm.
SYNS: ABBOTT 40566 □ 3-PENTYL-6,6,9-TRIMETHYL-6a,7,8,10a-TETRAHYDRO-6H-DIBENZO(b,d)PYRAN-1-OL □ SP 104 □ (1)-Δ^1-TETRAHYDROCANNABINOL □ Δ^1-TETRAHYDROCANNABINOL □ (−)-Δ^1-3,4-trans-TETRAHYDROCANNABINOL □ (−)-Δ^9-trans-TETRAHYDROCANNABINOL □ trans-Δ^9-TETRAHYDROCANNABINOL □ Δ^9-TETRAHYDROCANNABIN-OL □ THC □ Δ^1-THC □ Δ^9-THC □ 6,6,9-TRIMETHYL-3-PENTYL-7,8,9,10-TETRAHYDRO-6H-DIBENZO(B,D)PYRAN-1-OL
TOXICITY DATA with REFERENCE:
dni-hmn:hla 40 µmol/L ANTRD4 3,211,83
oms-hmn:fbr 5 µmol/L ANTRD4 3,211,83
orl-mky TDLo:648 mg/kg (female 1-23W post):REP NETOD7 4,469,82
orl-mky TDLo:396 mg/kg (female 1-23W post):TER AVBIB9 22/23,501,79
orl-rat LD50:666 mg/kg PSEBAA 136,260,71
ipr-rat LD50:373 mg/kg PSEBAA 136,260,71
ivn-rat LD50:29 mg/kg ANYAA9 191,74,71
orl-mus LD50:482 mg/kg PSEBAA 136,260,71
ipr-mus LD50:168 mg/kg AIPTAK 196,133,72
ivn-mus LD50:42 mg/kg ANYAA9 191,74,71
orl-dog LDLo:525 mg/kg TXAPA9 25,363,73
ivn-mky LD50:128 mg/kg TXAPA9 27,648,74
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic and teratogenic data. Human mutation data reported. A hallucinatory drug. When heated to decomposition it emits acrid smoke and irritating fumes. See also CANNABIS.

TCM400 CAS: 21001-46-7 HR: 3
5,6,7,8-TETRAHYDRO-3-CARBAZOLE-CARBOXYLIC ACID 2-(DIETHYLAMINO)-ETHYL ESTER HYDROCHLORIDE
mf: $C_{19}H_{26}N_2O_2$•ClH mw: 350.93
TOXICITY DATA with REFERENCE:
skn-rbt 1000 ppm MOD JAPMA8 40,373,51
eye-rbt 1000 ppm MLD JAPMA8 40,373,51
scu-mus LD50:178 mg/kg JAPMA8 40,373,51
ivn-mus LD50:33 mg/kg JAPMA8 40,373,51
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl.

TCN250 CAS: 13073-86-4 HR: D
2-(p-(1,2,3,4-TETRAHYDRO-2-(p-CHLORO-PHENYL)NAPHTHYL)PHENOXY)TRI-ETHYLAMINE
mf: $C_{28}H_{32}ClNO$ mw: 434.06
SYNS: 2-(p-(2-(p-CHLOROPHENYL)-1,2,3,4-TETRAHYDRO-NAPHTHYL)PHENOXY)TRIETHYLAMINE □ SU-13320
SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

TCN300 CAS: 70951-83-6 HR: D
1A,2,3,11B-TETRAHYDROCHRYSENO(1,2-B)OXIRENE-2,3-DIOL (1a-α-2-β,3-α-11bα)-
mf: $C_{18}H_{14}O_3$ mw: 278.32
SYNS: CHRYSENO(1,2-B)OXIRENE-2,3-DIOL, 1A,2,3,11B-TETRAHYDRO-, (1A-α-2-β,3-α-11Bα)- □ R-4,T-3-DIHYDROXY-T-1,2-OXY-1,2,3,4-TETRAHYDROCHRYSENE □ anti-CHRYSENE-3,4-DIOL 1,2-OXIDE
TOXICITY DATA with REFERENCE:
mic-bac-sat 250 ng/plate CRNGDP 14,11,93
mor-mus-fbr 5 mg/L CRNGDP 14,11,93
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

TCN750 CAS: 153-39-9 HR: 2
1,2,3,4-TETRAHYDRODIBENZ(a,h)-ANTHRACENE
mf: $C_{22}H_{18}$ mw: 282.40
TOXICITY DATA with REFERENCE:
skn-mus TDLo:74 mg/kg/29W-I:NEO JNCIAM 34,1,65
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

TCO000 CAS: 16310-68-2 HR: 2
1,2,3,4-TETRAHYDRODIBENZ(a,j)-ANTHRACENE
mf: $C_{22}H_{18}$ mw: 282.40
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

TCO100 CAS: 7101-64-6 HR: 3
7,8,9,10-TETRAHYDRO-N,N-DIETHYL-6H-CYCLOHEPTA(b)QUINOLINE-11-CARBOXAMIDE,
mf: $C_{19}H_{23}N_2O$ mw: 295.44
SYNS: 6H-CYCLOHEPTA(b)QUINOLINE-11-CARBOXAMIDE, N,N-DIETHYL-7,8,9,10-TETRAHYDRO- □ KETONE, DIETHYL-AMINO(7,8,9,10-TETRAHYDRO-11-6H-CYCLOHEPTA(b)-QUINOLINYL)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:250 mg/kg JMCMAR 9,483,66
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

TCO200 CAS: 22187-44-6 HR: 3
1,4,5,6-TETRAHYDRO-3-(10,11-DIHYDRODI-BENZO(a,d)CYCLOHEPTEN-5-YL)-1-METHYL-as-TRIAZINE HYDROBROMIDE
mf: $C_{19}H_{21}N_3$•BrH mw: 372.35
TOXICITY DATA with REFERENCE:
ipr-mus LD50:147 mg/kg JMCMAR 12,257,1969
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and Br^-.

TCP000 HR: 3

1,2,3,11a-TETRAHYDRO-3,8-DIHYDROXY-7-METHOXY-5H-PYRROLO(2,1-c)(1,4)-BENZODIAZEPIN-5-ONE-(3S-cis)-
mf: $C_{13}H_{14}N_2O_4$ mw: 262.29
SYN: NEOTHRAMYCIN A
TOXICITY DATA with REFERENCE:
ipr-mus LD50:6 mg/kg 85GDA2 5,189,81
ivn-mus LD50:5 mg/kg 85GDA2 5,189,81
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

TCP600 CAS: 67242-54-0 HR: 2
1,2,3,4-TETRAHYDRO-7,12-DIMETHYLBENZ(a)-ANTHRACENE
mf: $C_{20}H_{20}$ mw: 260.40
SYNS: 7,12-DIMETHYL-1,2,3,4-TETRAHYDROBENZ(a)-ANTHRACENE □ 1,2,3,4-TETRAHYDRO-DMBA □ TH-DMBA
TOXICITY DATA with REFERENCE:
mmo-sat 50 μg/plate JMCMAR 23,278,80
mma-sat 2500 ng/plate CRNGDP 4,1221,83
otr-hmn:fbr 500 μg/L CALEDQ 13,119,81
dnd-ham:lng 100 nmol/L CRNGDP 3,651,82
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

TCQ250 CAS: 1320-94-1 HR: 3
TETRAHYDRODIMETHYLFURAN
mf: $C_6H_{12}O$ mw: 100.18
PROP: A liquid.
SYN: TETRAHYDRODIMETHYL FURANE
TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H open JIHTAB 26,269,44
eye-rbt 20 mg AJOPAA 29,1363,46
orl-rat LD50:4000 mg/kg JIHTAB 26,269,44
skn-gpg LD50:4000 mg/kg JIHTAB 26,269,44
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and eye irritant. Flammable when exposed to heat or flame; can react with oxidizing materials. To fight fire, use spray, foam, dry chemical, CO_2. When heated to decomposition it emits acrid smoke and irritating fumes. See also TETRAHYDROFURAN.

TCQ260 CAS: 3613-73-8 HR: 3
2,3,4,5-TETRAHYDRO-2,8-DIMETHYL-5-(2-(6-METHYL-3-PYRIDYL)ETHYL)-1H-PYRIDO(4,3-b)INDOLE
mf: $C_{21}H_{25}N_3$ mw: 319.49
SYNS: DIMEBOLIN □ DIMEBOLINE □ DIMEBON □ DIMEBONE □ PREPARATION 84 □ 1H-PYRIDO(4,3-b)INDOLE, 2,3,4,5-TETRAHYDRO-2,8-DIMETHYL-5-(2-(6-METHYL-3-PYRIDYL)ETHYL)-
TOXICITY DATA with REFERENCE:
orl-mus LDLo:256 mg/kg FATOAO 46(5),90,83
ipr-mus LD50:178 mg/kg FATOAO 31,105,68
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.

TCQ275 CAS: 25952-35-6 HR: 2
TETRAHYDRO-3,5-DIMETHYL-4H,1,3,5-OXADIAZINE-4-THIONE
mf: $C_5H_{10}N_2OS$ mw: 146.23
SYNS: 4H-1,3,5-OXADIAZINE-4-THIONE, TETRAHYDRO-3,5-DIMETHYL- □ TDOT
TOXICITY DATA with REFERENCE:
orl-mus LDLo:1600 mg/kg AECTCV 14,111,85
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

TCQ350 CAS: 1073-79-6 HR: 2
TETRAHYDRO-2,6-DIMETHYL-4H-PYRAN-4-ONE
mf: $C_7H_{12}O_2$ mw: 128.19
SYNS: DIMETHYLTETRAHYDROPYRONE □ 2,6-DIMETHYL TETRAHYDRO-1,4-PYRONE □ 4H-PYRAN-4-ONE, TETRA-HYDRO-2,6-DIMETHYL-
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD JIDHAN 31,60,49
eye-rbt 750 μg/24H SEV JIDHAN 31,60,49
orl-rat LD50:3400 mg/kg JIDHAN 31,60,49
ihl-rat LC50:4000 ppm/4H JIDHAN 31,60,49
SAFETY PROFILE: Moderately toxic by ingestion. A skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TCQ400 CAS: 117929-13-2 HR: D
4,5,9,10-TETRAHYDRO-2,7-DINITROPYRENE
mf: $C_{16}H_{12}N_2O_4$ mw: 296.30
SYNS: 2,7-DINITRO-4,5,9,10-TETRAHYDROPYRENE □ PYRENE, 4,5,9,10-TETRAHYDRO-2,7-DINITRO-
TOXICITY DATA with REFERENCE:
mic-sat 10 ng/plate MUREAV 209,67,1988
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

TCQ500 CAS: 703-95-7 HR: 3
1,2,3,6-TETRAHYDRO-2,6-DIOXO-5-FLUORO-4-PYRIMIDINECARBOXYLIC ACID
mf: $C_5H_3FN_2O_4$ mw: 174.10
SYNS: ENT 26,398 □ 5-FLUOROOROTATE □ 5-FLUORO-OROTIC ACID □ 5-FLUORO-1,2,3,6-TETRAHYDRO-2,6-DIOXO-4-PYRIMIDINECARBOXYLIC ACID □ FO □ FOA □ NSC-31712 □ RO 2-9945
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:300 mg/kg CPCHAO 18,307,62
orl-mus LD50:981 mg/kg NCISP* JAN86
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of F^- and NO_x. See also FLUORIDES.

TCQ550 CAS: 73909-20-3 HR: 3
α-(TETRAHYDRO-4,6-DIOXO-2-THIOXO-5(2H)PYRIMIDINYLIDENE)-o-TOLUIC ACID
mf: $C_{12}H_8N_2O_4S$ mw: 276.28
SYN: BENZOIC ACID, 2-((TETRAHYDRO-4,6-DIOXO-2-THIOXO-5(2H)-PYRIMIDINYLIDENE)METHYL)-
TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#04342
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TCQ600 CAS: 53378-71-5 HR: 3
5′,6′,7′,8′-TETRAHYDRODISPIRO(CYCLOHEXANE-1,2′(3′H)-QUINAZOLINE-4′,1″(4 a′H)-CYCLOHEXANE)
mf: $C_{18}H_{30}N_2$ mw: 274.50
SYN: DISPIRO(CYCLOHEXANE-1,2'(3'H)-QUINAZOLINE-4',1"(4a'H)-CYCLOHEXANE), 5',6',7',8'-TETRAHYDRO-
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#07909
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.

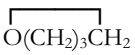
TCQ700 CAS: 33236-07-6 HR: 3
3,4,5,6-TETRAHYDRO-2-(α-ETHOXYBENZYL)-5-ETHYL-5-METHYLPYRIMIDINE
mf: $C_{16}H_{24}N_2O$ mw: 260.42
SYN: PYRIMIDINE, 3,4,5,6-TETRAHYDRO-2-(α-ETHOXYBENZYL)-5-ETHYL-5-METHYL-
TOXICITY DATA with REFERENCE:
orl-rat LD50:220 mg/kg JMCMAR 17,702,1974
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

TCR250 CAS: 80-81-9 HR: 3
1,2,3,4-TETRAHYDRO-6-ETHYL-1,1,4,4-TETRAMETHYLNAPHTHALENE
mf: $C_{16}H_{24}$ mw: 216.40
SYN: 1,1,4,4-TETRAMETHYL-1,2,3,4-TETRAHYDRO-6-ETHYLNAPHTHALENE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#00104
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes.

TCR300 CAS: 634-19-5 HR: 2
1,2,3,4-TETRAHYDRO-9-FLUORENONE
mf: $C_{13}H_{12}O$ mw: 184.25
SYNS: 9H-FLUOREN-9-ONE, 1,2,3,4-TETRAHYDRO- □ PHENTYDRONE
TOXICITY DATA with REFERENCE:
scu-mus LD50:1 g/kg 85KYAH 11,1155,1989
SAFETY PROFILE: Moderately toxic by subcutaneous route. When heated to decomposition it emits acrid smoke and irritating vapors.

TCR400 CAS: 135-16-0 HR: D
5,6,7,8-TETRAHYDROFOLIC ACID
mf: $C_{19}H_{23}N_7O_6$ mw: 445.49
PROP: Powder. Sol in H_2O.
SYNS: GLUTAMIC ACID, N-(p-(((2-AMINO-3,4,5,6,7,8-HEXAHYDRO-4-OXO-6-PTERIDINYL)METHYL)AMINO) BENZOYL)-, L- □ TETRAHYDROFOLIC ACID □ TETRAHYDROPTEROYLGLUTAMIC ACID □ THFA
SAFETY PROFILE: An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

TCR750 CAS: 109-99-9 HR: 3
TETRAHYDROFURAN
DOT: UN 2056
mf: C_4H_8O mw: 72.12



PROP: Colorless, mobile liquid; ether-like odor. Bp: 65.4°, flash p: 1.4°F (TCC), lel: 1.8%, uel: 11.8%, fp: −65°, d: 0.888 @ 21°/4°, vap press: 114 mm @ 15°, vap d: 2.5, autoign temp: 610°F. Misc with water, alc, ketones, esters, ethers, and hydrocarbons. IDLH 2000 ppm [10%LEL].
SYNS: BUTYLENE OXIDE □ CYCLOTETRAMETHYLENE OXIDE □ DIETHYLENE OXIDE □ 1,4-EPOXYBUTANE □ FURANIDINE □ HYDROFURAN □ NCI-C60560 □ OXACYCLOPENTANE □ OXOLANE □ RCRA WASTE NUMBER U213 □ TETRAHYDROFURAAN (DUTCH) □ TETRAHYDROFURANNE (FRENCH) □ TETRAIDROFURANO (ITALIAN) □ TETRAMETHYLENE OXIDE □ THF
TOXICITY DATA with REFERENCE:
mmo-esc 1 μmol/L GTPZAB 26(1),43,82
ihl-hmn TCLo:25,000 ppm:CNS 34ZIAG -,580,69
orl-rat LD50:1650 mg/kg GAFCC* 20,141,84
ihl-rat LC50:21,000 ppm/3H SSEIBV 20,141,84
ipr-rat LD50:2900 mg/kg SAIGBL 24,373,82
ihl-mus LCLo:24,000 mg/m^3/2H TPKVAL 5,21,63
ipr-mus LD50:1900 mg/kg SAIGBL 24,373,82
ipr-gpg LDLo:500 mg/kg AIHAAP 35,21,74
ihl-rat TCLo:5000 ppm/6H/91D-I FAATDF 14,338,90
CONSENSUS REPORTS: NTP Carcinogenesis Bioassay (feed); Clear Evidence: mouse, Some Evidence: rat NTPTR* NTP-TR-475,1998. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 200 ppm; STEL 250 ppm
ACGIH TLV: TWA 200 ppm; STEL 250 ppm; BEI: 8 mg/L tetrahydrofuran in urine at end of shift
DFG MAK: 50 ppm (150 mg/m^3)
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by inhalation. Human systemic effects by inhalation: general anesthesia. Mutation data reported. Irritant to eyes and mucous membranes. Narcotic in high concentrations. Reported as causing injury to liver and kidneys.

Flammable liquid. A very dangerous fire hazard when exposed to heat, flames, oxidizers. Explosive in the form of vapor when exposed to heat or flame. In common with ethers, unstabilized tetrahydrofuran forms thermally explosive peroxides on exposure to air. Stored THF must always be tested for peroxide prior to distillation. Peroxides can be removed by treatment with strong ferrous sulfate solution made slightly acidic with sodium bisulfate. Caustic alkalies deplete the inhibitor in THF and may subsequently cause an explosive reaction. Explosive reaction with KOH, $NaAlH_2$, NaOH, sodium tetrahydroaluminate. Reacts with 2-aminophenol + potassium dioxide to form an explosive product. Reacts

with lithium tetrahydroaluminate or borane to form explosive hydrogen gas. Violent reaction with metal halides (e.g., hafnium tetrachloride, titanium tetrachloride, zirconium tetrachloride). Vigorous reaction with bromine, calcium hydride + heat. Can react with oxidizing materials. To fight fire, use foam, dry chemical, CO_2. When heated to decomposition it emits acrid smoke and irritating fumes. See also 2-TETRAHYDROFURYL HYDROPEROXIDE.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Tetrahydrofuran, 1609.

TCS000 CAS: 767-08-8 HR: 2
TETRAHYDRO-2-FURANPROPANOL
mf: $C_7H_{14}O_2$ mw: 130.21

TOXICITY DATA with REFERENCE:
ipr-mus LDLo:500 mg/kg CBCCT* 6,220,54
par-mus LDLo:4000 mg/kg CBCCT* 7,688,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TCS100 CAS: 2399-48-6 HR: 1
TETRAHYDROFURFURYL ACRYLATE
mf: $C_8H_{12}O_3$ mw: 156.20

SYNS: ACRYLIC ACID, TETRAHYDROFURFURYL ESTER □ KAYARAD TC 101 □ LIGHT ACRYLATE THF-A □ 2-PROPENOIC ACID, (TETRAHYDRO-2-FURANYL)METHYL ESTER □ SARTOMER 285 □ SARTOMER 302 □ SR 285 □ (TETRAHYDRO-2-FURANYL)METHYL 2-PROPENOATE □ THF-A □ VISCOAT 150

TOXICITY DATA with REFERENCE:
skn-rbt 500 µL/24H MOD NTIS** OTS0555233

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

TCS500 CAS: 4795-29-3 HR: 3
TETRAHYDROFURFURYLAMINE
DOT: UN 2943
mf: $C_5H_{11}NO$ mw: 101.17

PROP: Bp: 153−155°, d: 0.977, refr index: 1.454.

SYN: USAF Q-2

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. Flammable liquid when exposed to heat or flame. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

TCS550 CAS: 1192-30-9 HR: 3
TETRAHYDROFURFURYL BROMIDE
mf: C_5H_9BrO mw: 165.05

PROP: Liquid. Bp: 84−86°

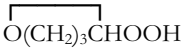
SYNS: 2-(BROMOMETHYL)-TETRAHYDROFURAN □ FURAN, 2-(BROMOMETHYL)TETRAHYDRO- □ FURAN, TETRAHYDRO-2-(BROMOMETHYL)-

TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#03416

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TCS750 CAS: 4676-82-8 HR: 3
2-TETRAHYDROFURYL HYDROPEROXIDE
mf: $C_4H_8O_3$ mw: 104.11



SAFETY PROFILE: A powerful oxidizer. The first autooxidation product of tetrahydrofuran. Readily changes to a highly explosive polyalkylidene peroxide. When heated to decomposition it emits acrid smoke and irritating fumes.

TCT000 CAS: 97-99-4 HR: 2
TETRAHYDRO-2-FURYLMETHANOL
mf: $C_5H_{10}O_2$ mw: 102.15

PROP: A hygroscopic liquid. Water-sol. Mp: <−80°, lel: 1.5%, uel: 9.7% @ 72 to 122°F, bp: 178°, d: 1.0485 @ 20°/4°, autoign temp: 540°F, vap d: 3.5, flash p: 183°F. Misc with water, alc, ether, acetone, benzene.

SYNS: QO THFA □ TETRAHYDRO-2-FURANCARBINOL □ TETRAHYDRO-2-FURANMETHANOL □ TETRAHYDRO-FURFURYL ALCOHOL □ TETRAHYDROFURYLALKOHOL (CZECH) □ THFA

TOXICITY DATA with REFERENCE:
eye-rbt 20 mg/24H MOD 28ZPAK -,138,72
eye-rbt 20 mg/24H SEV 28ZPAK -,138,72
orl-rat LD50:1600 mg/kg 38MKAJ 2C,4658,82
ipr-rat LDLo:1000 mg/kg JPPMAB 11,150,59
orl-mus LD50:2300 mg/kg HYSAAV 32,273,67
ivn-rbt LD50:725 mg/kg FEPRA7 8,294,49
orl-gpg LD50:3000 mg/kg HYSAAV 32,273,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, intravenous, and intraperitoneal routes. A severe eye irritant. Irritating to skin and mucous membranes. Violent or explosive reaction with 3-nitro-N-bromophthalimide. Combustible when exposed to heat or flame; can react with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. To fight fire, use alcohol foam, water, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

TCT250 CAS: 40959-16-8 HR: 3
TETRAHYDROHARMINE
mf: $C_{13}H_{16}N_2O{\bullet}ClH$ mw: 252.77

PROP: Fine solids with a greenish tinge. Mp: 232−234°.

SYN: 1,2,3,4-TETRAHYDRO-7-METHOXY-1-METHYL-9H-PYRIDO(3,4-b)INDOLE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
ipr-mus LDLo:240 mg/kg QJPPAL 3,1,30
scu-mus LDLo:540 mg/kg QJPPAL 3,1,30

scu-rbt LDLo:320 mg/kg QJPPAL 3,1,30
scu-gpg LDLo:120 mg/kg QJPPAL 3,1,30
scu-frg LDLo:270 mg/kg QJPPAL 3,1,30
SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

TCU000 CAS: 65860-38-0 HR: 3
1,2,3,4-TETRAHYDRO-5-(HYDROXYMETHYL)-2-(ISOPROPYLAMINO)-1,6-NAPHTHALENE-DIOL SESQUIHYDRATE (6-E), HYDROCHLORIDE
mf: $C_{14}H_{21}NO_3$•ClH•3/2H_2O mw: 314.85
SYN: AA-497
TOXICITY DATA with REFERENCE:
orl-mus LD50:4984 mg/kg ARZNAD 30,276,80
ivn-mus LD50:132 mg/kg ARZNAD 30,276,80
ivn-pig LD50:4564 mg/kg ARZNAD 30,276,80
SAFETY PROFILE: Poison by intravenous route. Mildly toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and HCl..

TCU100 CAS: 90035-01-1 HR: 3
4-(1,2,3,4-TETRAHYDRO-4-(4-HYDROXY-2-OXO-2H-1-BENZOPYRAN-3-YL)-2-NAPHTH-ALENYL)BENZONITRILE
mf: $C_{26}H_{19}NO_3$ mw: 393.46
TOXICITY DATA with REFERENCE:
orl-rat LD50:6800 µg/kg USXXAM #4520007
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

TCU110 CAS: 90034-98-3 HR: 3
4′-(1,2,3,4-TETRAHYDRO-4-(4-HYDROXY-2-OXO-2H-1-BENZOPYRAN-3-YL)-2-NAPHTHALENYL)(1,1′-BIPHENYL)-4-CARBONITRILE, cis-
mf: $C_{32}H_{23}NO_3$ mw: 469.56
TOXICITY DATA with REFERENCE:
orl-rat LD50:680 µg/kg USXXAM #4520007
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

TCU120 CAS: 90034-97-2 HR: 3
4′-(1,2,3,4-TETRAHYDRO-4-(4-HYDROXY-2-OXO-2H-1-BENZOPYRAN-3-YL)-2-NAPHTHALENYL)(1,1′-BIPHENYL)-4-CARBONITRILE, trans-
mf: $C_{32}H_{23}NO_3$ mw: 469.56
TOXICITY DATA with REFERENCE:
orl-rat LD50:680 µg/kg USXXAM #4520007
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

TCU130 CAS: 90035-05-5 HR: 2
4-((4-(1,2,3,4-TETRAHYDRO-4-(4-HYDROXY-2-OXO-2H-1-BENZOPYRAN-3-YL)-2-NAPHTH-ALENYL)PHENOXY)BENZONITRILE
mf: $C_{32}H_{23}NO_4$ mw: 485.56
TOXICITY DATA with REFERENCE:
orl-rat LD50:1 mg/kg USXXAM #4520007
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

TCU250 CAS: 3048-65-5 HR: 2
3a,4,7,7a-TETRAHYDRO-1H-INDENE
mf: C_9H_{12} mw: 120.21
SYNS: BICYCLO(4,3,0)NONA-3,7-DIENE □ 3a,4,7,7a-TETRAHYDROINDENE □ 7,7,8,9-TETRAHYDROINDENE □ TETRAHYDROINDENE (RUSSIAN)
TOXICITY DATA with REFERENCE:
orl-rat LD50:3730 mg/kg AIHAAP 30,470,69
orl-mus LD50:3500 mg/kg GTPZAB 18(10)52,74
skn-rbt LD50:14,100 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. When heated to decomposition it emits acrid smoke and irritating fumes.

TCU500 CAS: 91-21-4 HR: 3
TETRAHYDROISOQUINOLINE
mf: $C_9H_{11}N$ mw: 133.21
PROP: A liquid. Bp: 232−233°.
SYN: 1,2,3,4-TETRAHYDROISOQUINOLINE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:128 mg/kg CBCCT* 3,52,51
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.

TCU550 CAS: 64603-91-4 HR: 3
4,5,6,7-TETRAHYDROISOXAZOLO(4,5-c)-PYRIDIN-3-OL
mf: $C_6H_8N_2O_2$ mw: 140.14
SYN: ISOXAZOLO(4,5-c)PYRIDIN-3(2H)-ONE, 4,5,6,7-TETRAHYDRO-
TOXICITY DATA with REFERENCE:
ipr-rat TDLo:3 mg/kg JPETAB 293,1084,2000
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

TCU600 HR: 2
TETRAHYDROLINALOOL
mf: $C_{10}H_{22}O_2$ mw: 158.29
PROP: Colorless liquid; floral odor. D: 0.923, refr index: 1.431, flash p: 183°F. Sol in alc, fixed oils; insol in water.
SYNS: 3,7-DIMETHYL-3-OCTANOL □ FEMA No. 3060
SAFETY PROFILE: Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

TCU650 CAS: 1200-89-1 HR: 3
1,4,4a,8a-TETRAHYDRO-1,4-METHANO-NAPHTHALENE-5,8-DIONE
mf: $C_{11}H_{10}O_2$ mw: 174.21

SYN: 1,4-METHANONAPHTHALENE-5,8-DIONE, 1,4,4a,8a-TETRAHYDRO-

TOXICITY DATA with REFERENCE:
ipr-mus LDLo:250 mg/kg CBCCT* 6,223,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TCU660 CAS: 113124-69-9 HR: D
8,9,10,11-TETRAHYDRO-3-METHOXY-1H-INDOLE(3,2-C)QUINOLINE-1,4(7H)-DIONE
mf: $C_{16}H_{14}N_2O_3$ mw: 282.32

SYNS: GH5 □ 1H-INDOLE(3,2-C)QUINOLINE-1,4(7H)-DIONE, 8,9,10,11-TETRAHYDRO-3-METHOXY- □ 3-METHOXY-7,8,9,10-TETRAHYDRO-11H-INDOLO(3,2-C)QUINOLINE-1,4-DIONE

TOXICITY DATA with REFERENCE:
mic-bac-sat 10 μg/plate MUREAV 311,149,94

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

TCU670 CAS: 272774-82-0 HR: 3
1-((1,2,3,4-TETRAHYDRO-1-(4-(4-(2-METHOXY-PHENYL)-1-PIPERAZINYL)BUTYL)-7-ME THYL-2,4-DIOXO-3-PHENYLPYRIDO(2,3-D)PYRIMIDIN-5-YL)CARBONYL)-PYRROLIDINE
mf: $C_{34}H_{40}N_6O_4$ mw: 596.73

TOXICITY DATA with REFERENCE:
ipr-mus LD50:244.5 mg/kg FRMCE8 55,6,2000
ipr-mus TDLo:12.22 mg/kg FRMCE8 55,6,2000

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

TCU700 CAS: 120-15-0 HR: 3
1,2,3,4-TETRAHYDRO-6-METHOXYQUINOLINE
mf: $C_{10}H_{13}NO$ mw: 163.24

PROP: Rhombic crystals from H_2O, prisms from EtOH or pet ether. Mp: 42−43°, bp: 283° @ 735 mm.

SYN: THALLINE

TOXICITY DATA with REFERENCE:
ipr-mus LDLo:128 mg/kg CBCCT* 2,62,50

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TCU750 CAS: 97170-07-5 HR: 2
(1-α,2-β,2A-β,3A-β)-1,2,2A,3A-TETRAHYDRO-4-METHYLCHRYSENO(3,4-B)OXIRENE-1,2-DIOL
mf: $C_{19}H_{16}O_3$ mw: 292.35

SYN: CHRYSENO(3,4-B)OXIRENE-1,2-DIOL, 1,2,2A,3A-TETRAHYDRO-4-METHYL-, (1-α,2-β,2A-β,3A-β)-

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

TCV375 CAS: 69462-56-2 HR: 1
1,2,3,6-TETRAHYDRO-1-((6-METHYL-3-CYCLO-HEXEN-1-YL)CARBONYL)PYRIDINE
mf: $C_{13}H_{19}NO$ mw: 205.33

SYNS: AI3-36570 □ PYRIDINE, 1,2,3,6-TETRAHYDRO-1-((6-METHYL-3-CYCLOHEXEN-1-YL)CARBONYL)-

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD AEHA** 51-029-76
eye-rbt 100 mg/24H MLD AEHA** 51-029-76

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

TCV400 CAS: 69462-48-2 HR: 1
1,2,3,6-TETRAHYDRO-1-((2-METHYLCYCLO-HEXYL)CARBONYL)PYRIDINE
mf: $C_{13}H_{21}NO$ mw: 207.35

SYNS: AI3-36563 □ PYRIDINE, 1,2,3,6-TETRAHYDRO-1-((2-METHYLCYCLOHEXYL)CARBONYL)-

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD AEHA** 51-029-76
eye-rbt 100 mg/24H SEV AEHA** 51-029-76

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

TCV420 CAS: 272774-79-5 HR: 3
1-((1,2,3,4-TETRAHYDRO-7-METHYL-2,4-DIOXO-3-PHENYL-1-(4-(4-PHENYL-1-PIPERA ZINYL) BUTYL)PYRIDO(2,3-D)PYRIMIDIN-5-YL)CARBONYL)YRROLIDINE
mf: $C_{33}H_{38}N_6O_3$ mw: 566.70

TOXICITY DATA with REFERENCE:
ipr-mus LD50:389.5 mg/kg FRMCE8 55,6,2000
ipr-mus TDLo:19.47 mg/kg FRMCE8 55,6,2000

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

TCV425 CAS: 272774-83-1 HR: 3
1-((1,2,3,4-TETRAHYDRO-7-METHYL-1-(4-(4-METHYL-1-PIPERAZINYL)BUTYL)-2,4-DI OXO-3-PHENYLPYRIDO(2,3-D)PYRIMIDIN-5-YL)CARBONYL)PYRROLIDINE
mf: $C_{28}H_{36}N_6O_3$ mw: 504.63

TOXICITY DATA with REFERENCE:
ipr-mus LD50:304.8 mg/kg FRMCE8 55,6,2000
ipr-mus TDLo:30.48 mg/kg FRMCE8 55,6,2000

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

TCV460 CAS: 21038-21-1 HR: 3
1,4,5,6-TETRAHYDRO-3-(α-METHYLPHENETH-YL)-as-TRIAZINE HYDROCHLORIDE
mf: $C_{12}H_{17}N_3$•ClH mw: 239.78

SYNS: as-TRIAZINE, 1,4,5,6-TETRAHYDRO-3-(α-METHYL-PHENETHYL)-, HYDROCHLORIDE □ as-TRIAZINE, 3-(α-METHYLPHENETHYL)-1,4,5,6-TETRAHYDRO-, HYDRO-CHLORIDE □ 3-(α-METHYLPHENETHYL)-1,4,5,6-TETRA-HYDRO-as-TRIAZINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:178 mg/kg JMCMAR 12,257,1969

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

TCV470 CAS: 28289-54-5 HR: 3
1,2,3,6-TETRAHYDRO-1-METHYL-4-PHENYLPYRIDINE
mf: $C_{12}H_{15}N$ mw: 173.28
SYNS: 1-METHYL-4-PHENYL-1,2,3,6-TETRAHYDROPYRIDINE □ MPTP □ PYRIDINE, 1,2,3,6-TETRAHYDRO-1-METHYL-4-PHENYL-
TOXICITY DATA with REFERENCE:
ipr-mus TDLo:30 mg/kg JPETAB 293,336,2000
SAFETY PROFILE: A poison by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

TCV500 CAS: 23007-85-4 HR: 3
1,2,3,6-TETRAHYDRO-1-METHYL-4-PHENYLPYRIDINE HYDROCHLORIDE
mf: $C_{12}H_{15}N{\bullet}ClH$ mw: 209.74
SYNS: MPTP HYDROCHLORIDE □ PYRIDINE, 1,2,3,6-TETRAHYDRO-1-METHYL-4-PHENYL-, HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:72 mg/kg BEXBAN 105,470,88
scu-mus LD50:53,800 µg/kg JPETAB 247,531,88
SAFETY PROFILE: A poison by intraperitoneal and subcutaneous routes. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

TCV600 CAS: 5470-37-1 HR: D
2,3,4,9-TETRAHYDRO-1-METHYL-1H-PYRIDO-(3,4-B)INDOLE-3-CARBOXYLIC ACID
mf: $C_{13}H_{14}N_2O_2$ mw: 230.27
TOXICITY DATA with REFERENCE:
mic-sat 2 µLg/plate/0.3H FCTOD7 38,7,2000
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

TCW500 CAS: 26427-28-1 HR: 3
TETRAHYDRO-2-METHYL-6-(TETRAHYDRO-2,5-DIOXO-3-FURYL)PYRAN-3,4-DICARBOXYLIC ANHYDRIDE POLYMER
SYN: NSC-46015
TOXICITY DATA with REFERENCE:
dns-mus:lvr 2 g/L CNREA8 38,1610,78
dni-mus:lvr 3 g/L CNREA8 38,1610,78
orl-rat LDLo:1000 mg/kg NCIAL* -,38,64
ivn-rat LD50:121 mg/kg NCIAL* -,38,64
ivn-mus LD50:106 mg/kg NCIAL* -,38,64
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also ANHYDRIDES.

TCW750 CAS: 33401-94-4 HR: 3
(E)-4,5,6-TETRAHYDRO-1-METHYL-2-(2-(2-THIENYL)ETHENYL)PYRIMIDINE
mf: $C_{11}H_{14}N_2S{\bullet}C_4H_6O_6$ mw: 356.43
PROP: Crystals from EtOH. Mp: 147−148°.
SYNS: BANMINTH □ CP 10423-18 □ PYRANTEL TARTRATE □ PYREQUAN TARTRATE □ (E)-1,4,5,6-TETRAHYDRO-1-METHYL-2-(2-(2-THIENYL)VINYL)PYRIMIDINE TARTRATE (1:1)
TOXICITY DATA with REFERENCE:
orl-rat LD50:170 mg/kg AUVJA2 46,297,70
orl-mus LD50:123 mg/kg OYYAA2 5,305,71
ivn-mus LD50:2220 µg/kg OYYAA2 5,305,71
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TCW800 CAS: 6746-27-6 HR: 1
TETRAHYDRO-5-METHYL-1,3,5-TRIAZINE-2(1H)-THIONE
mf: $C_4H_9N_3S$ mw: 131.22
SYNS: S-TRIAZINE-2-THIOL, 1,4,5,6-TETRAHYDRO-5-METHYL- □ TRIAZINETHION □ S-TRIAZINE-2(1H)-THIONE, TETRAHYDRO-5-METHYL- □ 1,3,5-TRIAZINE-2(1H)-THIONE, TETRAHYDRO-5-METHYL-
TOXICITY DATA with REFERENCE:
unr-rat LD :>5 g/kg GISAAA 39(7),97,74
unr-mus LD :>5 g/kg GISAAA 39(7),97,74
unr-gpg LD :>5 g/kg GISAAA 39(7),97,74
SAFETY PROFILE: Low toxicity by unreported routes. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TCX500 CAS: 119-64-2 HR: 2
1,2,3,4-TETRAHYDRONAPHTHALENE
mf: $C_{10}H_{12}$ mw: 132.22
PROP: Colorless liquid; menthol odor. Bp: 207.2°, d: 0.981, vap press: 1 mm @ 38.0°, vap d: 4.55, autoign temp: 725°F, lel: 0.8% @ 212°F, uel: 5.0% @ 302°F, mp: −31.0°, flash p: 171°F (OC). Insol in water; misc with ethanol, butanol, acetone, benzene, ether.
SYNS: NAPHTHALENE-1,2,3,4-TETRAHYDRIDE □ $\Delta^{5,7,9}$-NAPHTHANTRIENE □ TETRAHYDRONAPHTHALENE □ TETRALIN □ TETRALINA (POLISH) □ TETRALINE □ TETRANAP
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV UCDS** 1/12/72
eye-rbt 500 mg open AMIHBC 4,119,51
orl-rat LD50:2860 mg/kg AMIHBC 4,119,51
skn-rbt LD50:17 g/kg UCDS** 1/12/72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. An eye and severe skin irritant. Narcotic in high concentration. Reported as causing cataracts and kidney injury in experimental animals. Irritating to mucous membranes. Combustible when exposed to heat or flame; can react with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. To fight fire, use water, foam, CO_2, dry chemical. Prolonged, close contact with air may cause an explosion. When heated to decomposition it emits acrid smoke and irritating fumes.

TCX750 CAS: 530-91-6 HR: 3
1,2,3,4-TETRAHYDRO-2-NAPHTHOL
mf: $C_{10}H_{12}O$ mw: 148.22
SYN: β-TETRALOL

TOXICITY DATA with REFERENCE:
orl-rat LD50:1000 mg/kg JPETAB 93,26,48
orl-mus LD50:2000 mg/kg JPETAB 93,26,48
orl-rbt LD50:2800 mg/kg JPETAB 93,26,48
orl-gpg LD50:1000 mg/kg JPETAB 93,26,48
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

TCY000 CAS: 1125-78-6 HR: 2
5,6,7,8-TETRAHYDRO-2-NAPHTHOL
mf: $C_{10}H_{12}O$ mw: 148.22
PROP: A solid. Mp: 61.5−62.5°, bp: 275−276°.
SYNS: 5,6,7,8-TETRAHYDRO-β-NAPHTHOL □ TETRALOL □ ac-β-TETRALOL
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

TCY250 CAS: 2954-50-9 HR: 3
1,2,3,4-TETRAHYDRO-2-NAPHTHYLAMINE
mf: $C_{10}H_{13}N$ mw: 147.24
PROP: Crystals. Mp: 237°.
SYNS: 2-AMINO-1,2,3,4-TETRAHYDRONAFTALEN (CZECH) □ AMINOTETRALIN (CZECH) □ 2-AMINOTETRALIN □ TETRAHYDRO-β-NAPHTHYLAMINE □ β-TETRAHYDRO-NAPHTHYLAMINE □ β-1,2,3,4-TETRAHYDRONAPHTHYL-AMINE □ THN
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK -,67,72
eye-rbt 500 mg/24H MLD 28ZPAK -,67,72
scu-hmn TDLo:10 mg/kg:EYE,CNS APAVAY 115,14,1889
par-hmn TDLo:10 mg/kg:EYE,CNS APAVAY 115,14,1889
scu-mus LD50:64 mg/kg NYKZAU 61,168,65
ivn-dog LDLo:10 mg/kg AIPTAK 35,70,28
scu-frg LDLo:420 mg/kg APAVAY 115,14,1889
SAFETY PROFILE: Poison by intravenous and subcutaneous routes. Human systemic effects by subcutaneous and parenteral routes: pupillary dilation, sleep disorders and hallucinations or distorted perceptions. Experimental reproductive effects. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

TCY260 HR: 3
2-(1,2,3,4-TETRAHYDRO-1-NAPHTHYLAMINO)-2-IMIDAZOLINE HYDROCHLORIDE
mf: $C_{13}H_{17}N_3$•ClH mw: 251.79
SYN: KB-227
TOXICITY DATA with REFERENCE:
orl-mus LD50:237 mg/kg NYKZAU 61,490,66
ipr-mus LD50:57 mg/kg ARZNAD 12,971,62
scu-mus LD50:77 mg/kg ARZNAD 12,971,62
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

TCY275 CAS: 1136-84-1 HR: 3
5,6,7,8-TETRAHYDRO-1-NAPHTHYL METHYL-CARBAMATE
mf: $C_{12}H_{15}NO_2$ mw: 205.28
SYNS: ENT 27,253 □ MAM-TOX □ 5,6,7,8-TETRAHYDRO-1-NAFTYL-N-METHYLKARBAMAT (CZECH) □ UC 8,454 □ UNION CARBIDE UC-8454
TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H MLD 28ZPAK -,163,72
orl-rat LD50:199 mg/kg 28ZPAK -,163,72
skn-rbt LD50:1130 mg/kg BESAAT 12,161,66
orl-gpg LDLo:100 mg/kg JEENAI 61,1261,68
scu-gpg LDLo:50 mg/kg JEENAI 61,1261,68
SAFETY PROFILE: Poison by ingestion and subcutaneous routes. Moderately toxic by skin contact. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES and ESTERS.

TCY300 CAS: 5988-91-0 HR: 2
TETRAHYDRONERAL
mf: $C_{10}H_{20}O$ mw: 156.30
PROP: Clear, almost colorless liquid with citrus, green, fresh, bitter odor. Flash pt: 72° C.
SYNS: DIHYDROCITRONELLAL □ 6,7-DIHYDROCITRONEL-LAL □ 3,7-DIMETHYLOCTANAL □ OCTANAL, 3,7-DIMETHYL-
TOXICITY DATA with REFERENCE:
orl-rat LDLo:5 g/kg FCTOD7 30,119S,92
skn-rbt LD50:4400 mg/kg FCTOD7 30,119S,92
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

TCY500 CAS: 58911-02-7 HR: 3
TETRAHYDRONORHARMAN
mf: $C_{11}H_{12}N_2$•ClH mw: 208.71
SYN: 1,2,3,4-TETRAHYDRO-9H-PYRIDO(3,4-b)INDOLE, HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:290 mg/kg QJPPAL 2,525,29
scu-mus LDLo:420 mg/kg QJPPAL 2,525,29
scu-rbt LDLo:300 mg/kg QJPPAL 2,525,29
scu-gpg LDLo:320 mg/kg QJPPAL 2,525,29
scu-frg LDLo:350 mg/kg QJPPAL 2,525,29
SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

TCY750 CAS: 509-67-1 HR: 3
TETRAHYDRO-1,4-OXAZINYLMETHYLCODEINE
mf: $C_{23}H_{30}N_2O_4$ mw: 398.55
PROP: Crystals (monohydrate), syrup (anhyd). Mp: 91°.
SYNS: CODYLIN □ DIA-TUSS □ 7,8-DIDEHYDRO-4,5-α-EPOXY-17-METHYL-3-(2-MORPHOLINOETHOXY)MORPHIN-AN-6-α-OL □ ETHNINE □ FOLCODINE □ GLYCODINE □ HIBERNYL □ HOMOCODEINE □ MEMINE □ β-MORPHO-LINOETHYLMORPHINE □ O^3-(2-MORPHOLINOETHYL)-MORPHINE □ 3-O-(2-MORPHOLINOETHYL)MORPHINE □

MORPHOLINYLETHYLMORPHINE □ 3-(2-(4-MORPHOLINYL)-ETHYL)MORPHINE □ 3-MORPHOLYLAETHYLMORPHIN (GERMAN) □ PECTOLIN □ PHOLCODIN □ PHOLCODINE □ PRODROMINE □ WEIFACODINE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:400 mg/kg THERAP 7,21,52
scu-mus LD50:540 mg/kg ARZNAD 8,325,58
ivn-mus LD50:230 mg/kg THERAP 7,21,52
ivn-rbt LD50:300 mg/kg ARZNAD 8,325,58

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x. Used as an antitussive agent. See also CODEINE.

TCZ000 CAS: 1195-16-0 HR: 2
N-(TETRAHYDRO-2-OXO-3-THIENYL)-ACETAMIDE
mf: $C_6H_9NO_2S$ mw: 159.22

PROP: Needles from toluene. Mp: 111.5−112.5°.

SYNS: 2-ACETAMIDE-4-MERCAPTOBUTYRIC ACID γ-THIOL-ACTONE □ 2-ACETAMIDO-4-MERCAPTOBUTYRIC ACID THIOLACTONE □ α-ACETAMIDO-γ-THIOBUTYROLACTONE □ N-ACETYLHOMOCYSTEINE THIOLACTONE □ N-ACETYL-HOMOCYSTEINTHIOLAKTON (GERMAN) □ ACHTL □ AHCTL □ BO 714 □ CITIOLASE □ CITIOLONE □ THIOXIDRENE

TOXICITY DATA with REFERENCE:
ipr-rat LD50:1950 mg/kg MEIEDD 10,329,83
ivn-mus LD50:1200 mg/kg ARZNAD 8,72,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. Used to treat hepatic disorders. Used as a photographic defogging agent and radiation protectant. See also MERCAPTANS.

TDA500 CAS: 52-31-3 HR: 3
TETRAHYDROPHENOBARBITAL
mf: $C_{12}H_{16}N_2O_3$ mw: 236.30

PROP: Crystals with insipid bitter taste. Mp: 171−174°. Insol in H_2O.

SYNS: ADORM □ AMNOSED □ CAVONLY □ CYCLO-BARBITAL □ CYCLOBARBITOL □ CYCLOBARBITONE □ CYCLODORM □ CYCLOHEXENYL-ETHYL BARBITURIC ACID □ 5-(1-CYCLOHEXENYL)-5-ETHYLBARBITURIC ACID □ 5-(1-CYCLOHEXEN-1-YL)-5-ETHYLBARBITURIC ACID □ 5-(1-CYCLOHEXEN-1-YL)-5-ETHYL-2,4,6(1H,3H,5H)-PYRIMIDINE-TRIONE □ 5-ETHYL-5-CYCLOHEXENYLBARBITURIC ACID □ ETHYLHEXABITAL □ FANODORMO □ HEXEMAL □ IRIFAN □ NAMURON □ PALINUM □ PHANODORM □ PHANODORN □ PHILODORM □ PRALUMIN □ PRO-SONIL □ SONAFORM

TOXICITY DATA with REFERENCE:
orl-wmn TDLo:2 g/kg:PUL AIMEAS 37,290,52
orl-rat LDLo:300 mg/kg AEPPAE 182,348,36
ipr-rat LD50:290 mg/kg ARZNAD 17,242,67
scu-rat LD50:210 mg/kg AEPPAE 152,341,30
orl-mus LD50:840 mg/kg ARZNAD 17,242,67
ipr-mus LD50:350 mg/kg ARZNAD 17,242,67
scu-mus LDLo:300 mg/kg HDTU** -,-,33
orl-dog LDLo:200 mg/kg HBAMAK 4,1289,35
scu-dog LDLo:100 mg/kg HBAMAK 4,1289,35
orl-cat LDLo:120 mg/kg PHREA7 19,472,39
scu-cat LDLo:100 mg/kg HBAMAK 4,1289,35
orl-rbt LDLo:450 mg/kg JPETAB 44,325,32
ipr-rbt LDLo:130 mg/kg JPETAB 44,325,32
scu-rbt LDLo:300 mg/kg HBAMAK 4,1289,35
ivn-rbt LDLo:90 mg/kg JPPGAR 30,364,32

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Human systemic effects by ingestion: pulmonary consolidation. Used as a central nervous system depressant, hypnotic, and sedative. When heated to decomposition it emits toxic fumes of NO_x. See also BARBITURATES.

TDB000 CAS: 85-43-8 HR: 2
TETRAHYDROPHTHALIC ACID ANHYDRIDE
DOT: UN 2698
mf: $C_8H_8O_3$ mw: 152.16

PROP: White powder. Mp: 101.9°, bp: 195° @ 50 mm, flash p: 315°F (OC), d: 1.375 @ 25°/20°, vap press: 0.01 mm @ 20°, vap d: 5.25.

SYNS: ANHYDRID KYSELINY TETRAHYDROFTALOVE (CZECH) □ MALEIC ANHYDRIDE adduct of BUTADIENE □ TETRAHYDROFTALANHYDRID (CZECH) □ 3a,4,7,7a-TETRAHYDRO-1,3-ISOBENZOFURANDIONE □ TETRA-HYDROPHTHALIC ANHYDRIDE □ Δ^4-TETRAHYDRO-PHTHALIC ANHYDRIDE □ 1,2,3,6-TETRAHYDRO PHTHALIC ANHYDRIDE □ THPA

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 85JCAE -,322,86
eye-rbt 20 mg/24H MOD 85JCAE -,322,86
unr-rat LD50:3 g/kg GTPZAB 29(12),37,85 GTPZAB 29(12),37,85
unr-mus LD50:3300 mg/kg GTPZAB 29(12),37,85
unr-gpg LD50:3500 mg/kg GTPZAB 29(12),37,85
orl-rat LD5O:5410 mg/kg 28ZPAK -,140,72
ipr-mus LDLo:500 mg/kg CBCCT* 7,780,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. A corrosive irritant to skin, eyes, and mucous membranes. Combustible when exposed to heat or flame. Will react with water or steam to produce heat; can react with oxidizing materials. To fight fire, use water, foam, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ANHYDRIDES.

TDB100 CAS: 85-40-5 HR: D
TETRAHYDROPHTHALIC ACID IMIDE
mf: $C_8H_9NO_2$ mw: 151.18

SYNS: 4-CYCLOHEXENE-1,2-DICARBOXIMIDE □ 1H-ISOINDOLE-1,3(2H)-DIONE, 3-α-4,7,7-α-TETRAHYDRO-(9CI) □ TETRAHYDROPHTHALIMIDE □ Δ^4-TETRAHYDROPHTHAL-IMIDE □ 1,2,3,6-TETRAHYDROPHTHALIMIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TDB200 CAS: 69352-90-5 HR: 2
α-(1,2,3,6-TETRAHYDROPHTHALIMIDO)-GLUTARIMIDE
mf: $C_{13}H_{12}N_2O_4$ mw: 260.27
SYN: 4-CYCLOHEXENE-1,2-DICARBOXIMIDE, N-(2,6-DIOXO-3-PIPERIDYL)-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:700 mg/kg MOPMA3 13,133,77
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

TDB250 CAS: 123671-92-1 HR: 3
(+)-(4AR,10BR)-3,4,4A,10B-TETRAHYDRO-4-PROPYL-2H,5H-(1)BENZOPYRANO(4,3-B)-1,4-OXAZIN-9-OL
mf: $C_{14}H_{19}NO_3$ mw: 249.31
SYNS: 2H,5H-(1)BENZOPYRANO(4,3-B)-1,4-OXAZIN-9-OL, 3,4,4A,10B-TETRAHYDRO-4-PROPYL-, (4AR,10BR)- □ PD128,907
TOXICITY DATA with REFERENCE:
ivn-rat TDLo:0.005 mg/kg JPETAB 293,1048,2000
scu-rat TDLo:0.16 mg/kg JPETAB 293,1048,2000
scu-rat TDLo:0.63 mg/kg JPETAB 293,1063,2000
SAFETY PROFILE: A poison by intravenous and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO.

TDB300 CAS: 128202-32-4 HR: 2
1,2,3,3-TETRAHYDRO-3H-PYRANO-(3,2-F)QUINOLINE-8(7H)-ONE
mf: $C_{12}H_{11}NO_2$ mw: 201.22
SYN: 1H-PYRANO(3,2-F)QUINOLIN-8(7H)-ONE, 2,3-DIHYDRO-
TOXICITY DATA with REFERENCE:
orl-mus LD50:2000 mg/kg USXXAM #5093339
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

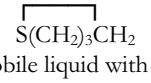
TDB600 HR: 3
4′-O-TETRAHYDROPYRANYLADRIAMYCIN HYDROCHLORIDE
mf: $C_{32}H_{37}NO_{12}$•ClH mw: 664.16
SYN: (2"-R)-4'-O-TETRAHYDROPYRANYLADRIAMYCIN MONOHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
unr-hmn TDLo:405 μg/kg:CNS,GIT,BLD INNDDK 1,169,83
orl-rat LDLo:300 mg/kg JJANAX 39,259,86
ipr-rat LD50:20,300 μg/kg JJANAX 39,259,86
scu-rat LD50:21,760 μg/kg JJANAX 39,259,86
ivn-rat LD50:18,070 μg/kg JJANAX 39,259,86
orl-mus LD50:419 mg/kg JJANAX 39,250,86
ipr-mus LD50:13,900 μg/kg JJANAX 39,250,86
scu-mus LD50:16,900 μg/kg JJANAX 39,250,86
ivn-mus LD50:14 mg/kg JJANAX 39,250,86
ivn-dog LDLo:1 mg/kg JJANAX 39,265,86
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Human systemic effects by an unspecified route: anorexia, nausea or vomiting, and leukopenia. An experimental teratogen. Experimental reproductive effects. Used as an anticancer agent. When heated to decomposition it emits toxic fumes of NO_x and HCl.

TDB750 CAS: 102583-64-2 HR: 3
TETRAHYDROSPIRAMYCIN
TOXICITY DATA with REFERENCE:
scu-mus LD50:1350 mg/kg JJANAX 23,429,70
ivn-mus LD50:181 mg/kg JJANAX 23,429,70
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route.

TDB765 CAS: 102121-60-8 HR: D
4-((5,6,7,8-TETRAHYDRO-5,5,8,8-TETRAMETHYL-2-NAPHTHALENYL)CARBONYL)AMINO BENZOIC ACID
mf: $C_{22}H_{25}NO_3$ mw: 351.48
SYNS: AM 580 □ CD 336 □ RO 40-60554-((5,6,7,8-TETRAHYDRO-5,5,8,8-TETRAMETHYL-2-NAPHTHALENYL)CARBONYL)-AMINOBENZOIC ACID
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

TDC725 HR: 3
o-((4,5,6,7-TETRAHYDROTHIENO(3,2-c)PYRIDIN-5-YL)METHYL)BENZONITRILE METHANESULFONATE
mf: $C_{15}H_{14}N_2S$•CH_4SO_3 mw: 350.48
SYN: 5-o-CYANOBENZYL-4,5,6,7-TETRAHYDROTHIENO(3,2-c)PYRIDINE METHANESULFONATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:228 mg/kg USXXAM #4400384
ipr-rat LD50:719 mg/kg USXXAM #4400384
ivn-rat LD50:80,200 μg/kg USXXAM #4400384
orl-mus LD50:883 mg/kg USXXAM #4400384
ipr-mus LD50:898 mg/kg USXXAM #4400384
ivn-mus LD50:134 mg/kg USXXAM #4400384
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by ingestion and intravenous routes. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x, NO_x and CN^-. See also NITRILES.

TDC730 CAS: 110-01-0 HR: 3
TETRAHYDROTHIOPHENE
DOT: UN 2412
mf: C_4H_8S mw: 88.18



PROP: Mobile liquid with penetrating odor. Mp: −96°, bp: 119°, flash p: 55°F, d: 1.01, refr index: 1.5030. Misc in most solvs except H_2O.
SYNS: TETRAHYDROTHIOFEN □ TETRAMETHYLENE-SULFIDE □ THIACYCLOPENTANE □ THILANE □ THIOFAN □ THIOLANE □ THIOPHANE

TOXICITY DATA with REFERENCE:
ihl-mus LC50:27 g/m^3/2H 85JCAE -,1088,86
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Mildly toxic by inhalation. Flammable liquid. Potentially explosive reaction with hydrogen peroxide. When heated to decomposition it emits toxic fumes of SO_x.

TDC800 CAS: 1003-10-7 HR: 3
TETRAHYDRO-2-THIOPHENONE
mf: C_4H_6OS mw: 102.16
SYNS: 4-BUTYROTHIOLACTONE □ DIHYDRO-2(3H)-THIOPHENONE □ 4,5-DIHYDRO-3(2H)-THIOPHENONE □ THIACYCLOPENTANONE-2 □ THIACYCLOPENTAN-2-ONE □ γ-THIOBUTYROLACTONE □ 4-THIOBUTYROLACTONE □ THIOLAN-2-ONE □ 2(3H)-THIOPHENONE, DIHYDRO-(8CI,9CI) □ 2-THIOPHENONE, TETRAHYDRO-
TOXICITY DATA with REFERENCE:
orl-mus LD50:1860 mg/kg DCTODJ 3,249,80
ipr-mus LD50:199 mg/kg JMCMAR 14,846,71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of SO_x.

TDC900 CAS: 175795-76-3 HR: 3
7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-8-(HYDROXYACETYL)-1-METHOXY-10-((2,3,6-TRIDEOXY-3-(2,3-DIHYDRO-1H-PYRROL-1-YL)-α-l-LYXO-HEXOPYRANOSYL)OXY)-, (8S,10S)-5,12-NAPHTHACENEDIONE
mf: $C_{31}H_{33}NO_{11}$ mw: 595.60
SYN: AN-201
TOXICITY DATA with REFERENCE:
ivn-mus LDLo:200 µg/kg CALEDQ 176,57,2002
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

TDD000 CAS: 81-61-8 HR: D
1,2,5,8-TETRAHYDROXYANTHRAQUINONE
mf: $C_{14}H_8O_6$ mw: 272.22
PROP: Yellow-red or red needles with green metallic luster from AcOH. Mp: > 275° subl, decomp. Sltly sol in hot water; sol in alc, hot acetic acid, H_2SO_4; very sltly sol in ether.
SYNS: ALIZARINBORDEAUX □ ALIZARINE BORDEAUX □ ALIZARINE BORDEAUX B □ 9,10-ANTHRACENEDIONE, 1,2,5,8-TETRAHYDROXY-(9CI) □ C.I. 58500 □ C.I. MORDANT VIOLET 26 □ KHINALIZARIN □ QUINALIZARIN □ QUINALIZARINE □ 1,2,5,8-TETRAHYDROXY-9,10-ANTHRACENEDIONE □ 1,2,5,8-TETRAHYDROXYANTHRAQUINONE □ 1,4,5,6-TETRAHYDROXYANTHRAQUINONE
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate BCSTB5 5,1489,77
mma-sat 50 µg/plate BCSTB5 5,1489,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

TDD250 CAS: 81-60-7 HR: 2
1,4,5,8-TETRAHYDROXYANTHRAQUINONE
mf: $C_{14}H_8O_6$ mw: 272.22
PROP: Red needles from phenyl nitrate. Mp: >275°, bp: subl. Sol in alkali, H_2SO_4.
SYNS: 1,4,5,8-LEUCOTETRAOXYANTHRAQUINONE □ 1,4,5,8-LTOA (RUSSIAN) □ 1,4,5,8-TETRAHYDROXY-9,10-ANTHRACENEDIONE □ 1,4,5,8-TETRAHYDROXYANTHRACHINON (CZECH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK -,104,72
eye-rbt 500 mg/24H MLD 28ZPAK -,104,72
ipr-rat LD50:2200 mg/kg GTPZAB 21(12),27,77
SAFETY PROFILE: Moderately toxic by intraperitoneal route. A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TDD500 CAS: 569-77-7 HR: D
2,3,4,6-TETRAHYDROXY-5H-BENZOCYCLO-HEPTENE-5-ONE
mf: $C_{11}H_8O_5$ mw: 220.19
PROP: Yellow or dark-red needles from AcOH. Mp: 274° (rapid heating).
SYN: PURPUROGALLIN
TOXICITY DATA with REFERENCE:
mma-sat 50 µg/plate PMRSDJ 1,11,81
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

TDD550 CAS: 491-70-3 HR: D
3′,4′,5,7-TETRAHYDROXYFLAVONE
mf: $C_{15}H_{10}O_6$ mw: 286.25
SYNS: 4H-1-BENZOPYRAN-4-ONE, 2-(3,4-DIHYDROXYPHENYL)-5,7-DIHYDROXY- □ C.I. 75590 □ C.I. NATURAL YELLOW 2 □ CYANIDENON 1470 □ DIGITOFLAVONE □ FLACITRAN □ FLAVONE, 3',4',5,7-TETRAHYDROXY- □ FLAVONE, 3',4',5,7-TETRAHYDROXY- □ LUTEOLIN □ LUTEOLINE □ LUTEOLOL □ WELD LAKE □ YAMA KARIYASU
TOXICITY DATA with REFERENCE:
mnt-hmn-lym 10 mg/L MUREAV 246,205,1991
sce-hmn-lym 10 mg/L MUREAV 246,205,1991
sln-hmn-lym 20 mg/L MUREAV 246,205,1991
ipr-mus LD50:180 mg/kg YHTPAD 16(2),11,1981
SAFETY PROFILE: A poison by intraperitoneal route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

TDD600 CAS: 162854-37-7 HR: 3
2,3,9,10-TETRAHYDROXYPROTOBERBERINE
mf: $C_{17}H_{14}NO_4$ mw: 296.30
SYN: DIBENZO(a,g)QUINOLIZINIUM, 5,6-DIHYDRO-2,3,9,10-TETRAHYDROXY-

TOXICITY DATA with REFERENCE:
orl-rat TDLo:250 mg/kg BIPBU* 24,1277,2001
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

TDD750 CAS: 61490-68-4 HR: 2
7-β,8-α-9-β,10-β-TETRAHYDROXY-7,8,9,10-TETRAHYDROBENZO(a)PYRENE
mf: $C_{20}H_{16}O_4$ mw: 320.36
SYNS: BENZO(a)PYRENE, 7,8,9,10-TETRAHYDRO-7-β,8-α-9-α-10-α-TETRAHYDROXY- ◻ BENZO(a)PYRENE-7-β,8-α-9-α-10-α-TETRAOL
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

TDE000 CAS: 64043-55-6 HR: 2
TETRAIODO-α,α′-DIETHYL-4,4′-STILBENEDIOL
mf: $C_{18}H_{16}I_4O_2$ mw: 771.94
SYN: DIETHYLSTILBESTROL, IODINE DERIVATIVE
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of I^-. See also DIETHYLSTILBESTEROL and IODIDES.

TDE250 CAS: 513-92-8 HR: 3
TETRAIODOETHYLENE
mf: C_2I_4 mw: 531.62
PROP: Light yellow; heavy, small, practically odorless crystals; leaflets from AcOH; characteristic odor. D: 2.98, mp: 187°. Insol in water; sol in benzene, chloroform, toluene, CS_2; sltly sol in ether.
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#04958
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Reacts violently with IF_5. When heated to decomposition it emits toxic fumes of I^-. See also IODIDES.

TDE750 CAS: 2217-44-9 HR: 3
TETRAIODOTHALEIN SODIUM
mf: $C_{20}H_8I_4O_4$•2Na mw: 865.86
PROP: Pale blue-violet crystals.
SYNS: ANTINOSIN ◻ BILITRAST ◻ CHOLEPULVIS ◻ CHOLUMBRIN ◻ FORIOD ◻ IODEIKON ◻ IODOGNOST ◻ IODOPHENE SODIUM ◻ IODOPHTHALEIN SODIUM ◻ IODORAYORAL ◻ IODTETRAGNOST ◻ KERAPHEN ◻ NOSOPHENE SODIUM ◻ OPACIN ◻ PHOTOBILINE ◻ PILIOPHEN ◻ RADIOTETRANE ◻ SHADOCOL ◻ SOLUBLE IODOPHTHALEIN ◻ STIPOLAC ◻ TETIOTHALEIN SODIUM ◻ TETRAIODE ◻ TETRAIODOPHENOLPHTHALEIN SODIUM ◻ TIPPS ◻ VIDEOPHEL
TOXICITY DATA with REFERENCE:
ivn-mus LD50:360 mg/kg JMCMAR 13,997,70
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of I^- and Na_2O. See also IODIDES.

TDE765 CAS: 26562-01-6 HR: 3
TETRAISOAMYLSTANNANE
mf: $C_{20}H_{44}Sn$ mw: 403.33
SYN: TETRAISOPENTYLSTANNANE
TOXICITY DATA with REFERENCE:
orl-mus LDLo:202 mg/kg APFRAD 14,88,56
ipr-mus LDLo:20 mg/kg APFRAD 14,88,56
ivn-mus LDLo:40 mg/kg APFRAD 14,88,56
ims-mus LDLo:403 mg/kg APFRAD 14,88,56
OSHA PEL: TWA 0.1 mg(Sn)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin).
NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by intramuscular route. When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS.

TDE775 CAS: 3531-43-9 HR: 3
TETRAISOBUTYLTIN
mf: $C_{16}H_{36}Sn$ mw: 347.21
PROP: A liquid. D: 1.05 @ 23°/4°, mp: −13°, bp: 143° @ 16.5 mm.
SYN: TETRAISOBUTYLSTANNANE
TOXICITY DATA with REFERENCE:
orl-mus LDLo:347 mg/kg APFRAD 14,88,56
ipr-mus LDLo:87 mg/kg APFRAD 14,88,56
ivn-mus LDLo:17 mg/kg APFRAD 14,88,56
ims-mus LDLo:174 mg/kg APFRAD 14,88,56
OSHA PEL: TWA 0.1 mg(Sn)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin).
NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: Poison by ingestion, intramuscular, intravenous, and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS.

TDF000 CAS: 5424-26-0 HR: 3
TETRAISOPENTYLAMMONIUM IODIDE
mf: $C_{20}H_{44}N$•I mw: 425.55
TOXICITY DATA with REFERENCE:
ivn-mus LD50:100 mg/kg CSLNX* NX#02831
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and I^-. See also IODIDES.

TDF250 CAS: 61614-71-9 HR: 3
TETRAISOPROPYL DITHIONOPYROPHOSPHATE
mf: $C_{12}H_{28}O_5P_2S_2$ mw: 378.46
PROP: A liquid. D: 1.09 @ 25°/4°, bp: 102−103° @ 0.004 mm.
SYN: TETRAISOPROPYL THIOPYROPHOSPHATE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:50 mg/kg CJCHAG 34,1819,56
ipr-mus LD50:25 mg/kg CJCHAG 34,1819,56

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also PHOSPHATES.

TDF500 CAS: 4593-82-2 HR: 2
TETRAISOPROPYL GERMANE
mf: $C_{12}H_{28}Ge$ mw: 244.99
TOXICITY DATA with REFERENCE:
orl-rat LDLo:2000 mg/kg CHDDAT 262,1302,66
ipr-rat LDLo:430 mg/kg CHDDAT 262,1302,66
orl-mus LDLo:2180 mg/kg CHDDAT 262,1302,66
ipr-mus LDLo:620 mg/kg CHDDAT 262,1302,66
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes. See also GERMANIUM COMPOUNDS.

TDF750 CAS: 5836-28-2 HR: 3
TETRAISOPROPYL PYROPHOSPHATE
mf: $C_{12}H_{28}O_7P_2$ mw: 346.34
PROP: A liquid. D: 1.09 @ 25°/4°, mp: 14–15°, bp: 104° @ 0.2 mm.
SYN: ISOPROPYL PYROPHOSPHATE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:5 mg/kg NCNSA6 5,38,53
ipr-mus LD50:16 mg/kg PAREAQ 11,636,59
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of PO_x. See also PHOSPHATES and ESTERS.

TDG000 CAS: 2949-42-0 HR: 3
TETRAISOPROPYLTIN
mf: $C_{12}H_{28}Sn$ mw: 291.09
SYN: TETRAISOPROPYLSTANNANE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#00226
OSHA PEL: TWA 0.1 mg(Sn)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin).
NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

TDG250 CAS: 16646-44-9 HR: 2
1,1,2,2-TETRAKIS(ALLYLOXY)ETHANE
mf: $C_{14}H_{22}O_4$ mw: 254.36
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 85JCAE -,262,86
eye-rbt 500 mg/24H MLD 85JCAE -,262,86
orl-rat LD50:1410 mg/kg TXAPA9 28,313,74
skn-rbt LD50:1410 mg/kg TXAPA9 28,313,74
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.

TDG500 CAS: 4239-06-9 HR: D
2,3,5,6-TETRAKIS(1-AZIRIDINYL)-1,4-BENZOQUINONE
SYNS: TEB □ 2,3,5,6-TETRA-ETHYLENEIMINO-1,4-BENZOQUINONE
TOXICITY DATA with REFERENCE:
mmo-nsc 200 µg/plate MUREAV 53,297,78
cyt-hmn:fbr 1800 µmol/L MUREAV 34,299,76
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TDG750 CAS: 63918-49-0 HR: 3
N,N,N′N′-TETRAKIS(2-CHLOROETHYL)ETHYLENE DIAMINE DIHYDROCHLORIDE
mf: $C_{10}H_{20}Cl_4N_2$•2ClH mw: 383.04
TOXICITY DATA with REFERENCE:
mic-uns 1 mmol/L APMBAY 7,202,59
scu-rat LD50:19 mg/kg JPETAB 91,224,47
ivn-rat LD50:3800 µg/kg JPETAB 91,224,47
ipr-mus LD50:16 mg/kg CANCAR 2,1075,49
scu-mus LD50:26 mg/kg JPETAB 91,224,47
ivn-mus LD50:7500 µg/kg JPETAB 91,224,47
ivn-rbt LD50:2500 µg/kg JPETAB 91,224,47
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

TDG760 CAS: 33125-86-9 HR: D
TETRAKIS(2-CHLOROETHYL) ETHYLENE DIPHOSPHATE
mf: $C_{10}H_{20}Cl_4O_8P_2$ mw: 472.04
SYNS: ETHANOL, 2-CHLORO-, ETHYLENE PHOSPHATE (4:1) □ PHOSPHORIC ACID, ETHYLENE TETRAKIS(2-CHLOROETHYL) ESTER □ PHOSPHORIC ACID, 1,2-ETHANEDIYL TETRAKIS(2-CHLOROETHYL) ESTER □ THERMOLIN 101
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of PO_x and Cl^-.

TDG775 HR: 3
TETRAKIS(CHLOROETHYNYL)SILANE
mf: C_8Cl_4Si mw: 265.99
$(ClC{\equiv}C)_4Si$
SAFETY PROFILE: Explodes on grinding or impact. When heated to decomposition it emits toxic fumes of Cl^-. See also ACETYLENE COMPOUNDS.

TDH000 HR: 3
TETRAKIS-(N,N-DICHLOROAMINOMETHYL)-METHANE
mf: $C_5H_8Cl_8N_4$ mw: 407.77
$(Cl_2NCH_2)_4C$
SAFETY PROFILE: Shock- and heat-sensitive explosive. More powerful than mercury fulminate. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-.

TDH100 CAS: 18928-76-2 HR: 1
TETRAKIS-(2-HYDROXYETHYL)SILANE
mf: $C_8H_{20}O_4Si$ mw: 208.37
SYNS: ETHANOL, 2,2',2",2'"-SILANETETRAYLTETRAKIS- □ 2,2',2",2'"-SILANETETRAYLTETRAKISETHANOL □ TETRA-(2-HYDROXYETHYL)SILANE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 85JCAE -,1232,86
eye-rbt 500 mg/24H MLD 85JCAE -,1232,86
orl-rat LD50:7460 mg/kg TXAPA9 28,313,74
SAFETY PROFILE: Mildly toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TDH250 CAS: 7580-37-2 HR: 3
TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM ACETATE
mf: $C_4H_{12}O_4P{\bullet}C_2H_3O_2$ mw: 214.18
TOXICITY DATA with REFERENCE:
ivn-mus LD50:100 mg/kg CSLNX* NX#03094
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of PO_x.

TDH500 CAS: 55818-96-7 HR: 2
TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM ACETATE mixed with TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM DIHYDROGEN PHOSPHATE (76:24)
mf: $C_4H_{12}O_4P{\bullet}C_4H_{12}O_4P{\bullet}C_2H_3O_2{\bullet}1/3O_4P$ mw: 400.97
SYNS: PYROSET FLAME RETARDANT TKP □ PYROSET TKP
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 48,95,90; Animal Inadequate Evidence IMEMDT 48,95,90.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of PO_x.

TDH750 CAS: 124-64-1 HR: 3
TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM CHLORIDE
mf: $C_4H_{12}O_4P{\bullet}Cl$ mw: 190.58
PROP: Hygroscopic solid. Mp: 151°. Sol in H_2O, MeOH; insol in Et_2O.
SYNS: NCI-C55061 □ THPC
TOXICITY DATA with REFERENCE:
otr-mus:emb 5000 ppm JTEHD6 6,259,80
otr-ham:kdy 5000 ppm JTEHD6 6,259,80
cyt-ham:lng 87 mg/L GMCRDC 27,95,81
msc-ham:lng 5000 ppm JTEHD6 6,259,80
orl-rat LD50:161 mg/kg NTPTR* NTP-TR-296,87
ipr-mus LDLo:125 mg/kg CBCCT* 7,789,55
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of PO_x and Cl^-.

TDH775 CAS: 24748-25-2 HR: 3
TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM NITRATE
mf: $C_4H_{12}NO_7P$ mw: 217.12
$(HOCH_2)_4P^+NO_3^-$
SAFETY PROFILE: May explode when heated above 105°C. When heated to decomposition it emits toxic fumes of PO_x and NO_x. See also NITRATES.

TDI000 CAS: 55566-30-8 HR: 3
TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM SULFATE
mf: $C_8H_{24}O_8P_2{\bullet}O_4S$ mw: 406.32
SYNS:
BIS(TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM)SULFATE (salt) □ NCI-C55050 □ OCTAKIS(HYDROXYMETHYL)PHOSPHONIUM SULFATE □ PYROSET TKO □ THPS
TOXICITY DATA with REFERENCE:
otr-mus:emb 5000 ppm JTEHD6 6,259,80
msc-ham:lng 5000 ppm JTEHD6 6,259,80
orl-rat LD50:248 mg/kg NTPTR* NTP-TR-296,87
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 48,95,90; Animal Inadequate Evidence IMEMDT 48,95,90. Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by ingestion. Mutation data reported. Questionable carcinogen. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also SULFATES.

TDI100 CAS: 83195-98-6 HR: 3
1,3,4,6-TETRAKIS(2-METHYLTETRAZOL-5-YL)-HEXAAZA-1,5-DIENE
mf: $C_8H_{12}N_{22}$ mw: 416.33
SAFETY PROFILE: An explosive sensitive to shock, friction or rapid heating above 121°C. When heated to decomposition it emits toxic fumes of NO_x.

TDI250 CAS: 6452-62-6 HR: 3
TETRAKIS(p-PHENOXYPHENYL)TIN
mf: $C_{48}H_{36}O_4Sn$ mw: 795.53
SYN: TETRAKIS(p-PHENOXYPHENYL)STANNANE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#01768
OSHA PEL: TWA 0.1 mg(Sn)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin).
NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

TDI300 CAS: 50831-29-3 HR: 3
TETRAKIS(THIOUREA)MANGANESE(II) PERCHLORATE
mf: $C_4H_{16}Cl_2MnN_8O_8S_4$ mw: 558.30
$[(CH_4N_2S)_4Mn][ClO_4]_2$

CONSENSUS REPORTS: Manganese and its compounds are on The Community Right-To-Know List.
SAFETY PROFILE: Explodes when heated to 257°C. When heated to decomposition it emits toxic fumes of Cl^-, SO_x, and NO_x. See also MANGANESE COMPOUNDS and PERCHLORATES.

TDI350 CAS: 529-33-9 HR: 2
α-TETRALOL
mf: $C_{10}H_{12}O$ mw: 148.22
PROP: Liquid. Mp: 15.5°, bp: 140°.
SYNS: 1-NAPHTHOL, 1,2,3,4-TETRAHYDRO- □ 1,2,3,4-TETRAHYDRO-α-NAPHTHOL □ 1,2,3,4-TETRAHYDRO-1-NAPHTHOL
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 85JCAE -,217,86
eye-rbt 500 mg/24H MLD 85JCAE -,217,86
orl-rat LD50:1620 mg/kg TXAPA9 28,313,74
SAFETY PROFILE: Moderately toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TDI475 CAS: 475-81-0 HR: 3
1,2,9,10-TETRAMETHOXY-6a-α-APORPHINE
mf: $C_{21}H_{25}NO_4$ mw: 355.47
PROP: Crystals from EtOAc or pet ether. Mp: 120−121°. d-Form found in nature. d-Form: Orthorhombic plates, prisms from ethyl acetate or ether. Mp: 120°. Sol in acetone, alc, chloroform, ethyl acetate; mod sol in ether, pet ether; practically insol in water and benzene.
SYNS: BOLDINE DIMETHYL ETHER □ BROMCHOLITIN □ (s)-5,6,6a,7-TETRAHYDRO-1,2,9,10-TETRAMETHOXY-6-METHYL-4H-DIBENZO(de,g)QUINOLINE (9CI) □ GLAUCINE □ (+)-GLAUCINE □ d-GLAUCINE □ s-(+)-GLAUCINE □ GLAUVENT □ (s)-5,6,6a,7-TETRAHYDRO-1,2,9,10-TETRAMETHOXY-6-METHYL-4H-DIBENZO(de,g)QUINOLINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:545 mg/kg FATOAO 46(4),100,83
ipr-rat LD50:143 mg/kg FATOAO 46(4),100,83
orl-mus LD50:434 mg/kg FATOAO 46(4),100,83
ipr-mus LD50:167 mg/kg FATOAO 46(4),100,83
ipr-gpg LD50:140 mg/kg FATOAO 46(4),100,83
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

TDI500 CAS: 2269-06-9 HR: 3
1,2,9,10-TETRAMETHOXY-6a-α-APORPHINE HYDROCHLORIDE
mf: $C_{21}H_{25}NO_4$•ClH mw: 391.93
SYN: GLAUCINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:545 mg/kg FATOAO 46(4),100,83
ipr-rat LD50:143 mg/kg FATOAO 46(4),100,83
orl-mus LD50:430 mg/kg PCJOAU 10,134,76
ipr-mus LD50:120 mg/kg APPBDI 5,3,79
scu-mus LD50:420 mg/kg PCJOAU 10,134,76
ivn-mus LD50:54 mg/kg PCJOAU 10,134,76
ipr-gpg LD50:140 mg/kg FATOAO 46(4),100,83
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

TDI600 HR: 3
dl-1,2,9,10-TETRAMETHOXY-6a-α-APORPHINE PHOSPHATE
mf: $C_{21}H_{28}NO_4$•H_3O_4P mw: 456.50
SYNS: dl-832 □ dl-GLAUCINE PHOSPHATE □ dl-GLAUCINPHOSPHAT (GERMAN)
TOXICITY DATA with REFERENCE:
orl-mus LD50:401 mg/kg ARZNAD 33,936,83
ipr-mus LD50:272 mg/kg ARZNAD 33,936,83
scu-mus LD50:311 mg/kg ARZNAD 33,936,83
ivn-mus LD50:98 mg/kg ARZNAD 33,936,83
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and PO_x.

TDI750 CAS: 478-15-9 HR: 3
dl-2,3,9,10-TETRAMETHOXYBERBIN-1-OL
mf: $C_{21}H_{25}NO_5$ mw: 371.47
PROP: Crystals from $CHCl_3$/MeOH. Mp: 208°.
SYNS: CAPAURIDINE □ CAPAURINE, (±)- □ CAPAURINE, dl-
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:500 mg/kg NCNSA6 5,22,53
ivn-mus LD50:82 mg/kg FEPRA7 5,163,46
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.

TDJ000 CAS: 60223-52-1 HR: D
3,6,11,14-TETRAMETHOXYDIBENZO(g,p)-CHRYSENE
mf: $C_{30}H_{24}O_4$ mw: 448.54
TOXICITY DATA with REFERENCE:
mma-sat 100 µg/plate MUREAV 40,225,76
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

TDJ100 CAS: 12002-26-5 HR: 1
TETRAMETHOXYSILANE POLYMER
SYNS: METHYL HYDROGEN SILOXANE □ METHYL SILICATE □ METHYL SILICATE 51 □ SILICIC ACID, METHYL ESTER □ SILICON METHYLATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:>10 g/kg SCIEAS 36(1-4),10,89
skn-mus LD50:>10 g/kg ESKHA5 (103),37,85
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.

TDJ200 CAS: 18513-98-9 HR: 2
3,3′,4,4′-TETRAMETHOXYSTILBENE
mf: $C_{18}H_{20}O_4$ mw: 300.35

SYN: BENZENE, 1,1'-(1E)-1,2-ETHENEDIYLBIS(3,4-DIMETHOXY-

TOXICITY DATA with REFERENCE:
orl-rat TDLo:500 mg/kg BIPBU* 24,1277,2001

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

TDJ250 CAS: 73728-78-6 HR: 2
3,2′,4′,6′-TETRAMETHYLAMINODIPHENYL
mf: $C_{16}H_{19}N$ mw: 225.36
SYN: 3,2',4',6'-TETRAMETHYLBIPHENYLAMINE

TOXICITY DATA with REFERENCE:
scu-rat TDLo:1400 mg/kg/W-I:ETA BMBUAQ 14,141,58

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

TDJ300 CAS: 13422-81-6 HR: 3
TETRAMETHYLAMMONIUM AMIDE
mf: $C_4H_{14}N_2$ mw: 90.17
$(CH_3)_4N^+NH_2^-$

SAFETY PROFILE: Violent reaction with ammonia at room temperature. When heated to decomposition it emits toxic fumes of NO_x and NH_3. See also AMIDES.

TDJ325 CAS: 68574-15-2 HR: 3
TETRAMETHYLAMMONIUM AZIDOCYANATOIODATE(I)
mf: $C_5H_{12}IN_5O$ mw: 285.09
$(CH_3)_4N^+[(OCN)IN_3]^-$

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

SAFETY PROFILE: Explodes when exposed to intense light. When heated to decomposition it emits toxic fumes of I^-, CN^-, NH_3, and NO_x. See also CYANATES, AZIDES, and IODATES.

TDJ350 CAS: 68574-17-4 HR: 3
TETRAMETHYLAMMONIUM AZIDOCYANO-IODATE(I)
mf: $C_5H_{12}IN_5$ mw: 269.09
$(CH_3)_4N^+[(NC)IN_3]^-$

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

SAFETY PROFILE: Explodes when exposed to intense light. When heated to decomposition it emits toxic fumes of I^-, CN^-, NH_3, and NO_x. See also CYANIDE, IODATES, and AZIDES.

TDJ375 HR: 3
TETRAMETHYLAMMONIUM AZIDOSELENO-CYANATOIODATE(I)
mf: $C_5H_{12}IN_5Se$ mw: 348.05
$(CH_3)_4N^+[(CNSe)IN_3]^-$

CONSENSUS REPORTS: Selenium and its compounds, as well as cyanide 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 when exposed to intense light. When heated to decomposition it emits toxic fumes of I^-, Se, CN^-, NH_3, and NO_x. See also SELENIUM COMPOUNDS, CYANATES, and IODATES.

TDJ500 CAS: 16883-45-7 HR: 3
TETRAMETHYLAMMONIUM BOROHYDRATE
mf: $C_4H_{12}N{\bullet}BH_4$ mw: 89.02
SYN: TMAB

TOXICITY DATA with REFERENCE:
skn-rbt 10% SEV NTIS** ORNL-5576
skn-rbt 1% MLD NTIS** ORNL-5576
eye-rbt 24 mg MOD NTIS** ORNL-5576
orl-rat LD50:77 mg/kg NTIS** ORNL-5576
orl-mus LD50:67 mg/kg NTIS** ORNL-5576
itr-mus LD50:31 mg/kg NTIS** ORNL-5576
skn-rbt LDLo:100 mg/kg NTIS** ORNL-5576

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, skin contact and intratracheal routes. An eye and severe skin irritant. When heated to decomposition it emits toxic fumes of NO_x and NH_3. See also BORON COMPOUNDS.

TDJ750 CAS: 64-20-0 HR: 3
TETRAMETHYLAMMONIUM BROMIDE
mf: $C_4H_{12}N{\bullet}Br$ mw: 154.08

PROP: Volatile crystals. D: 1.50, mp: decomp @ >230°, bp: subl >360° (decomp). Sol in water, SO_2; sltly sol in abs alc; insol in ether.

TOXICITY DATA with REFERENCE:
dnd-mam:lym 50 mmol/L CBINA8 19,197,77
ivn-mus LD50:1800 µg/kg CSLNX* NX#01652

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and Br^-. See also BROMIDES.

TDK000 CAS: 75-57-0 HR: 3
TETRAMETHYLAMMONIUM CHLORIDE
mf: $C_4H_{12}N{\bullet}Cl$ mw: 109.62

PROP: Crystals. Mp: >300°. Hygroscopic.
SYN: USAF AN-8

TOXICITY DATA with REFERENCE:
orl-mus LDLo:125 mg/kg JPMSAE 69,327,80
ipr-mus LD50:25 mg/kg NTIS** AD414-344
scu-mus LD50:40 mg/kg NTIS** ORNL-5576
scu-rbt LDLo:6 mg/kg AIPTAK 7,183,1900
scu-frg LDLo:2 mg/kg SAPHAO 10,201,1900

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and Cl^-. See also CHLORIDES.

TDK250 HR: 3

TETRAMETHYLAMMONIUM CHLORITE
mf: $C_4H_{13}ClNO_2$ mw: 142.58
SAFETY PROFILE: The dry solid is an impact-sensitive explosive. Upon decomposition it emits very toxic fumes of NO_x, NH_3, and Cl^-. See also CHLORITES.

TDK300 CAS: 68574-13-0 HR: 3
TETRAMETHYLAMMONIUM DIAZIDOIODATE(I)
mf: $C_4H_{12}IN_7$ mw: 285.09
$(CH_3)_4N^+[I(N_3)_2]^-$
SAFETY PROFILE: A crystalline high explosive. When heated to decomposition it emits toxic fumes of NO_x, NH_3, and I^-. See also IODATES, AZIDES, and EXPLOSIVES, HIGH.

TDK500 CAS: 75-59-2 HR: 3
TETRAMETHYLAMMONIUM HYDROXIDE
DOT: UN 1835
mf: $C_4H_{12}N{\bullet}HO$ mw: 91.18
PROP: Liquid. D: 1.
SYNS: AMMONIUM, TETRAMETHYL-, HYDROXIDE □ HYDROXYDE de TETRAMETHYLAMMONIUM (FRENCH) □ TETRAMETHYLAMMONIUM HYDROXIDE, liquid (DOT) □ TM
TOXICITY DATA with REFERENCE:
scu-mus LDLo:19 mg/kg JPETAB 28,367,26
ivn-rbt LDLo:1 mg/kg 85IXA4 -,688,48
par-frg LDLo:5 mg/kg 85IXA4 -,688,48
unr-frg LDLo:1515 µg/kg 85IXA4 -,681,48
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: Poison by subcutaneous route. A powerful caustic. A corrosive irritant to skin, eyes, and mucous membranes. When heated to decomposition it emits toxic fumes of NO_x and NH_3.

TDK750 CAS: 75-58-1 HR: 3
TETRAMETHYLAMMONIUM IODIDE
mf: $C_4H_{12}N{\bullet}I$ mw: 201.07
PROP: Hygroscopic pale yellow crystals. Mp: 230° (decomp).
TOXICITY DATA with REFERENCE:
ivn-rat LD50:3560 µg/kg BJPCAL 4,381,49
ipr-mus LD50:30 mg/kg NTIS** AD691-490
scu-mus LDLo:33 mg/kg JPETAB 25,315,25
ivn-mus LD50:1800 µg/kg CSLNX* NX#01073
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. An irritant. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and I^-. See also IODIDES.

TDK885 CAS: 66552-77-0 HR: 2
2,3,9,10-TETRAMETHYLANTHRACENE
mf: $C_{18}H_{18}$ mw: 234.34
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate CRNGDP 6,1483,85
skn-mus TDLo:40 mg/kg/20D-I:CAR CRNGDP 6,1483,85
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

TDL000 CAS: 10563-70-9 HR: 3
N,N,10,10-TETRAMETHYL-$\Delta^{9(10H),\gamma}$-ANTHRACENEPROPYLAMINE HYDROCHLORIDE
mf: $C_{21}H_{25}N{\bullet}ClH$ mw: 327.93
PROP: Crystals from Me_2CO. Mp: 245−248°.
SYNS: 9-(3-DIMETHYLAMINOPROPYLIDENE)-10,10-DIMETHYL-9,10-DIHYDROANTHRACENE HYDROCHLORIDE □ 3-(10,10-DIMETHYL-9(10H)-ANTHRACENYLIDENE)-N,N-DIMETHYL-1-PROPANAMINE HYDROCHLORIDE □ DIXERAN □ MELITRACENE HYDROCHLORIDE □ MELITRACEN HYDROCHLORIDE □ TRAUSABUN □ U-24973A
TOXICITY DATA with REFERENCE:
orl-rat LD50:170 mg/kg 27ZQAG -,80,72
ipr-rat LD50:96 mg/kg 27ZQAG -,80,72
scu-rat LD50:760 mg/kg OYYAA2 3,390,69
orl-mus LD50:315 mg/kg 27ZQAG -,80,72
ipr-mus LD50:131 mg/kg 27ZQAG -,80,72
scu-mus LD50:275 mg/kg OYYAA2 3,390,69
ivn-mus LD50:52 mg/kg APTOA6 24,121,66
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

TDL100 CAS: 27742-38-7 HR: 2
TETRAMETHYLARSONIUM
mf: $C_4H_{12}As$ mw: 135.08
SYN: ARSONIUM, TETRAMETHYL-
TOXICITY DATA with REFERENCE:
orl-mus LD50:890 mg/kg JAFCAU 45,449,1997
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of As.

TDL250 CAS: 5814-20-0 HR: 3
TETRAMETHYLARSONIUM IODIDE
mf: $C_4H_{12}As{\bullet}I$ mw: 261.98
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:125 mg/kg CBCCT* 4,316,52
scu-mus LDLo:150 mg/kg JPETAB 25,315,25
ivn-mus LDLo:50 mg/kg JPETAB 25,315,25
CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.5 mg(As)/m^3
SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic fumes of As and I^-. See also ARSENIC COMPOUNDS and IODIDES.

TDL500 CAS: 51787-44-1 HR: 2
7,8,9,11-TETRAMETHYLBENZ(c)ACRIDINE
mf: $C_{21}H_{19}N$ mw: 285.41
SYN: 1,3,4,10-TETRAMETHYL-7,8-BENZACRIDINE (FRENCH)

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

TDL750 CAS: 63020-39-3 HR: 2
5,6,9,10-TETRAMETHYL-1,2-BENZ-ANTHRACENE
mf: $C_{22}H_{20}$ mw: 284.42
SYN: 7,8,9,12-TETRAMETHYLBENZ(a)ANTHRACENE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

TDM000 CAS: 63019-70-5 HR: 2
6,7,9,10-TETRAMETHYL-1,2-BENZANTHRACENE
mf: $C_{22}H_{20}$ mw: 284.42
SYN: 7,9,10,12-TETRAMETHYLBENZ(a)ANTHRACENE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

TDM250 CAS: 488-23-3 HR: 3
1,2,3,4-TETRAMETHYLBENZENE
mf: $C_{10}H_{14}$ mw: 134.24
PROP: A liquid. D: 0.904 @ 20°/4°, mp: −6.4°, bp: 205.0°.
TOXICITY DATA with REFERENCE:
skn-rbt 100 mg/24H MLD DCTODJ 1,219,78
orl-rat LD50:6408 mg/kg DCTODJ 1,219,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. A flammable material. When heated to decomposition it emits acrid smoke and irritating fumes.

TDM500 CAS: 527-53-7 HR: 3
1,2,3,5-TETRAMETHYLBENZENE
mf: $C_{10}H_{14}$ mw: 134.24
PROP: Liquid. D: 0.990 @ 20/4°, fp: −24.1°, mp: −20°, bp: 197.9°. Insol in water; sol in alc.
SYN: ISODURENE
TOXICITY DATA with REFERENCE:
skn-rbt 100 mg/24H MLD DCTODJ 1,219,78
orl-rat LD50:5157 mg/kg DCTODJ 1,219,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. A flammable material. When heated to decomposition it emits acrid smoke and irritating fumes.

TDM750 CAS: 95-93-2 HR: 3
1,2,4,5-TETRAMETHYLBENZENE
mf: $C_{10}H_{14}$ mw: 134.2
PROP: Leaflets with odor of camphor. D: 0.838 @ 81°/4°, mp: 79.3°, bp: 196°. Insol in water; sol in benzene, alc, ether.
TOXICITY DATA with REFERENCE:
orl-rat LD50:6989 mg/kg DCTODJ 1,219,78
ivn-mus LD50:180 mg/kg CSLNX* NX#00212
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

TDM800 CAS: 54827-17-7 HR: 3
3,3′,5,5′-TETRAMETHYLBENZIDINE
mf: $C_{16}H_{20}N_2$ mw: 240.38
PROP: Fine needles from MeOH. Mp: 168−169.5°. Prac insol in H_2O; very sol in MeOH.
SYNS: 3,5,3',5'-TETRAMETHYLBENZIDINE □ TMB
TOXICITY DATA with REFERENCE:
dnd-esc 20 µmol/L MUREAV 89,95,81
mnt-mus-ipr 112,500 µg/kg PMRSDJ 1,698,81
ipr-mus LD50:135 mg/kg PMRSDJ 1,682,81
CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TDM810 CAS: 527-17-3 HR: D
TETRAMETHYL-p-BENZOQUINONE
mf: $C_{10}H_{12}O_2$ mw: 164.22
SYNS: p-BENZOQUINONE, TETRAMETHYL- □ p-BENZO-QUINONE, 2,3,5,6-TETRAMETHYL- □ p-BENZOQUINONE, TETRAMETHYL-, SEMIQUINONE □ 2,5-CYCLOHEXADIENE-1,4-DIONE, 2,3,5,6-TETRAMETHYL- □ DUROQUINONE □ TETRAMETHYL-1,4-BENZOQUINONE □ 2,3,5,6-TETRA-METHYLBENZOQUINONE □ TETRAMETHYL-QUINONE □ TETRAMETHYL-p-QUINONE
TOXICITY DATA with REFERENCE:
mic-esc 60 µLg/plate MUREAV 467,41,2000
dnd-rat-lvr 400 µmol/L CALEDQ 63,47,1992
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

TDM820 CAS: 150151-21-6 HR: 1
1-((2,2′,3,3′-TETRAMETHYL(1,1′-BIPHENYL)-4-YL)AZO)-2-NAPHTHALENOL
mf: $C_{26}H_{24}N_2O$ mw: 380.52
SYNS: DICHLOTRANE K □ DICHLOTRAN K □ 2-NAPHTHALENOL, 1-((2,2',3,3'-TETRAMETHYL(1,1'-BIPHENYL)-4-YL)AZO)-
TOXICITY DATA with REFERENCE:
unr-rat LD :>10 g/kg GISAAA 57(7-8),46,92
unr-mus LD :>10 g/kg GISAAA 57(7-8),46,92
SAFETY PROFILE: Low toxicity by an unreported route. When heated to decomposition it emits toxic vapors of NO_x.

TDN000 CAS: 97-84-7 HR: 3
N,N,N′,N′-TETRAMETHYL-1,3-BUTANEDIAMINE
mf: $C_8H_{20}N_2$ mw: 144.30
SYN: TETRAMETHYL BUTANEDIAMINE
TOXICITY DATA with REFERENCE:
skn-rbt 395 mg open SEV UCDS** 3/12/69
skn-rbt 1 mg open MOD TXAPA9 4,522,62
eye-rbt 790 µg MOD UCDS** 3/12/69
eye-rbt 5 mg MOD TXAPA9 4,522,62

orl-rat LD50:750 mg/kg TXAPA9 4,522,62
ivn-mus LD50:180 mg/kg CSLNX* NX#00707
skn-rbt LD50:320 mg/kg TXAPA9 4,522,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by skin contact and intravenous routes. Moderately toxic by ingestion. An eye and severe skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

TDN250 CAS: 107-45-9 HR: 3
1,1,3,3-TETRAMETHYLBUTYLAMINE
mf: $C_8H_{19}N$ mw: 129.28
SYN: BIS(1,3-DIMETHYL)BUTYLAMINE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:70 mg/kg BJIMAG 1,213,44
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

TDN500 CAS: 140-66-9 HR: 2
p-(1,1,3,3-TETRAMETHYLBUTYL)PHENOL
mf: $C_{14}H_{22}O$ mw: 206.36
SYNS: p-tert-OCTYLPHENOL □ p-terc.OKTYLFENOL (CZECH) □ p-(1',1',3',3'-TETRAMETHYLBUTYL)FENOL
TOXICITY DATA with REFERENCE:
skn-rbt 20 mg/24H MOD 85JCAE -,228,86
eye-rbt 50 µg/24H SEV 85JCAE -,228,86
orl-mus LD50:3210 mg/kg KCRZAE 26(9),28,67
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. A skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also PHENOL.

TDN750 CAS: 25301-02-4 HR: 2
p-(1,1,3,3-TETRAMETHYLBUTYL)PHENOL, polymer with ETHYLENE OXIDE and FORMALDEHYDE
mf: $(C_{14}H_{22}O{\bullet}C_2H_4O{\bullet}CH_2O)_x$
SYNS: ALEVAIRE □ p-ISOOCTYLPOLYOXYETHYLENEPHENOL FORMALDEHYDE POLYMER □ MACROCYCLON □ OXYETHYLATEED TERTIARY OCTYL-PHENOL-FORMALDEHYDE POLYMER □ SUPERINONE □ SUPERIUONE (FRENCH) □ 4-(1,1,3,3-TETRAMETHYLBUTYL)PHENOL, polymer with FORMALDEHYDE and OXIRANE □ TRITON A-20 □ TRITON WR 1339 □ TYLOXAPOL □ TYLOXYPAL
TOXICITY DATA with REFERENCE:
ivn-rat TDLo:1 g/kg (10D preg):TER PSEBAA 122,874,66
ipr-mus TDLo:600 mg/kg (6-8D preg):REP CHDDAT 266,2171,68
ivn-rat LD50:1800 mg/kg NIIRDN 6,467,82
SAFETY PROFILE: Moderately toxic by intravenous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

TDO000 CAS: 73927-97-6 HR: 3
(2-(2,2,3,3-TETRAMETHYLBUTYLTHIO)ACETOXY)TRIBUTYLSTANNANE
mf: $C_{22}H_{46}O_2SSn$ mw: 493.43
SYN: TRIBUTYLTIN ISOOCTYLTHIOACETATE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:178 mg/kg CSLNX* NX#02290
OSHA PEL: TWA 0.1 mg(Sn)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin).
NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: Poison by intravenous route. Tributyl tin compounds are extremely toxic to marine life. When heated to decomposition it emits toxic fumes of SO_x. See also TIN COMPOUNDS and SULFIDES.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

TDO100 CAS: 16240-52-1 HR: 3
N,N′,o,o′-TETRAMETHYLCURINIUM DIIODIDE
mf: $C_{40}H_{48}N_2O_6{\bullet}2I$ mw: 906.70
SYNS: DIMETHYL l-CURINE DIMETHIODIDE □ o,o-DIMETHYLCURINE DIMETHIODIDE □ (1-β)-6,6',7',12'-TETRAMETHOXY-2,2,2',2'-TETRAMETHYLTUBOCURARANIUM DIIODIDE □ TUBOCURARANIUM, 6,6',7',12'-TETRAMETHOXY-2,2,2',2'-TETRAMETHYL-, DIIODIDE, (1-β)-
TOXICITY DATA with REFERENCE:
ipr-rat LD50:940 µg/kg YHHPAL 15,513,1980
ipr-mus LD50:1030 µg/kg YHHPAL 15,513,1980
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and I^-.

TDO250 CAS: 933-52-8 HR: 2
TETRAMETHYL-1,3-CYCLOBUTANEDIONE
mf: $C_8H_{12}O_2$ mw: 140.20
PROP: White, crystalline solid. Mp: 116° (sublimes), bp: 159°, vap press: 6 mm @ 52°, d: 1.11. Insol in water; sol in alc, acetic acid.
SYNS: TETRAMETHYLCYCLOBUTA-1,3-DIONE □ 2,2,4,4-TETRAMETHYL-1,3-CYCLOBUTANEDIONE
TOXICITY DATA with REFERENCE:
scu-mus TDLo:308 mg/kg/77W-I:NEO JNCIAM 46,143,71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

TDO255 CAS: 65405-84-7 HR: 1
α-2,2,6-TETRAMETHYLCYCLOHEXENE-BUTANAL
mf: $C_{14}H_{24}O$ mw: 208.38
SYNS: CETONAL □ CYCLOHEXENEBUTANAL, α-2,2,6-TETRAMETHYL- □ 4-(2,6,6-TRIMETHYL-2(and/or 3)-CYCLOHEXENE)-2-METHYLBUTANAL
TOXICITY DATA with REFERENCE:
orl-rat LDLo:5 g/kg FCTOD7 30,129S,92
skn-rbt LD50:>5 g/kg FCTOD7 30,129S,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.

TDO260 CAS: 35449-36-6 HR: 2
2,2,9,9-TETRAMETHYL-1,10-DECANEDIOL
mf: $C_{14}H_{30}O_2$ mw: 230.44
PROP: Crystals from MeCN. Mp: 61−62°.
SYNS: CI 720 □ 1,10-DECANEDIOL, 2,2,9,9-TETRAMETHYL- □ GEMCADIOL
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:1023 mg/kg FAATDF 6,520,86
ipr-mus LDLo:1023 mg/kg FAATDF 6,520,86
SAFETY PROFILE: Moderately toxic by intraperitoneal route. An experimental teratogen. When heated to decomposition it emits acrid smoke and irritating fumes.

TDO275 HR: 3
N,N,N′,N′-TETRAMETHYLDEUTEROFORM-AMIDINIUM PERCHLORATE
mf: $C_5H_{12}ClDN_2O_4$ mw: 201.63
SAFETY PROFILE: Moist salts may explode during vacuum evaporation. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also PERCHLORATES.

TDO500 CAS: 33196-65-5 HR: 3
TETRAMETHYLDIALUMINUM DIHYDRIDE
mf: $C_4H_{14}Al_2$ mw: 116.12
$(CH_3)_2Al{:}H_2{:}Al(CH_3)_2$
SAFETY PROFILE: Ignites spontaneously in air and burns explosively. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALUMINUM COMPOUNDS.

TDO750 CAS: 119-58-4 HR: 2
TETRAMETHYLDIAMINOBENZHYDROL
mf: $C_{17}H_{22}N_2O$ mw: 270.41
PROP: Green leaflets from C_6H_6 or pale yellow crystals from EtOH. Mp: 102−103°.
SYNS: 4,4'-BIS(DIMETHYLAMINO)BENZOHYDROL □ α,α-BIS(p-DIMETHYLAMINOPHENYL)METHANOL □ p,p'-MICHLER'S HYDROL
TOXICITY DATA with REFERENCE:
orl-rat LDLo:500 mg/kg JPETAB 90,260,47
ipr-mus LDLo:500 mg/kg CBCCT* 4,227,52
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.

TDP250 CAS: 471-35-2 HR: 3
TETRAMETHYLDIARSANE
mf: $C_4H_{12}As_2$ mw: 209.96
$(CH_3)_2AsAs(CH_3)_2$
PROP: Oily liquid with nauseating garlic odor. Mp: 0°, bp: 158°. Spar sol in H_2O.
CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Arsenic compounds are poisons. Ignites spontaneously in air. Incompatible with chlorine. When heated to decomposition it emits toxic fumes of As. See also ARSENIC COMPOUNDS.

TDP275 CAS: 21482-59-7 HR: 3
TETRAMETHYLDIBORANE
mf: $C_4H_{14}B_2$ mw: 83.77
$(CH_3)_2B{:}H_2{:}B(CH_3)_2$
SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits acrid smoke and irritating fumes. See also BORON COMPOUNDS and BORANES.

TDP300 CAS: 65313-37-3 HR: 3
TETRAMETHYLDIGALLANE
mf: $C_4H_{12}Ga_2$ mw: 199.58
$(CH_3)_2GaGa(CH_3)_2$
SAFETY PROFILE: Ignites spontaneously in air. Upon decomposition it emits acrid smoke and fumes. See also GALLIUM COMPOUNDS.

TDP325 CAS: 35856-82-7 HR: 3
TETRAMETHYL-1,2-DIOXETANE
mf: $C_6H_{12}O_2$ mw: 116.16
$(CH_3)_2COOC(CH_3)_2$
SAFETY PROFILE: May explode if stored at room temperature. When heated to decomposition it emits acrid smoke and irritating fumes.

TDP500 CAS: 22653-19-6 HR: 3
TETRAMETHYLDIGOLD DIAZIDE
mf: $C_4H_{12}Au_2N_6$ mw: 538.09
$(CH_3)_2Au{:}(N_3)_2{:}Au(CH_3)_2$
SAFETY PROFILE: An extremely sensitive explosive. Explodes under water if touched. When heated to decomposition it emits toxic fumes of NO_x. See also AZIDES and GOLD COMPOUNDS.

TDP525 CAS: 3676-91-3 HR: 3
TETRAMETHYLDIPHOSPHANE
mf: $C_4H_{12}P_2$ mw: 122.09
$(CH_3)_2PP(CH_3)_2$
PROP: A liquid. Mp: −2.15°, bp: 140−142°.
SYN: TETRAMETHYLDIPHOSPHINE
SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of PO_x. See also PHOSPHINE.

TDP750 CAS: 6711-48-4 HR: 3
N,N,N′,N′-TETRAMETHYL-DIPROPYLENE-TRIAMINE
mf: $H_2NCHCH_3CHCH_3CH_2NHCHCH_3$ mw: 189.
TOXICITY DATA with REFERENCE:
skn-rbt 100 µg/24H open AIHAAP 23,95,62
orl-rat LD50:1620 mg/kg AIHAAP 23,95,62
skn-rbt LD50:310 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by skin contact. Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

TDP775 CAS: 3277-26-7 HR: 2
sym-TETRAMETHYLDISILOXANE
mf: $C_4H_{14}OSi_2$ mw: 134.32
$H(CH_3)_2SiOSi(CH_3)_2H$
PROP: Bp: 71−72°, d: 0.757, refr index: 1.370.
SYNS: BIS(DIMETHYLSILYL) ETHER □ BIS(DIMETHYLSILYL) OXIDE □ 1,3-DIHYDROTETRAMETHYLDISILOXANE □ DIMETHYLSILYL ETHER □ 1,1,3,3-TETRAMETHYLDI-SILOXANE
TOXICITY DATA with REFERENCE:
orl-mus LD50:3 g/kg 85JCAE -,1221,86
ihl-mus LC50:400 g/m^3/2H 85JCAE -,1221,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and inhalation. Mixtures with oxygen + sodium hydroxide + water explode when ignited. When heated to decomposition it emits acrid smoke and irritating fumes.

TDQ000 CAS: 41422-43-9 HR: 3
TETRAMETHYLDISTIBINE
mf: $C_4H_{12}Sb_2$ mw: 303.61
PROP: Yellow liquid; color changes from yellow at −1°, then to yellow again. Mp: 16−17°, bp: 53° @ 3.5 mm.
CONSENSUS REPORTS: Antimony and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Most antimony compounds are poisons. Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of Sb. See also ANTIMONY COMPOUNDS.

TDQ050 CAS: 7691-02-3 HR: 3
1,1,3,3-TETRAMETHYL-1,3-DIVINYLDI-SILAZANE
mf: $C_8H_{19}NSi_2$ mw: 185.46
SYNS: BIS(DIMETHYL(VINYL)SILYL)AMINE □ BIS(VINYL-DIMETHYLSILYL)AMINE □ DISILAZANE, 1,1,3,3-TETRAM-ETHYL-1,3-DIVINYL- □ 1,3-DIVINYLTETRAMETHYL-DISILAZANE □ 1,3-DIVINYL-1,1,3,3-TETRAMETHYLDISILAZ-ANE □ SILANAMINE, 1-ETHENYL-N-(ETHENYLDIMETHYL-SILYL)-1,1-DIMETHYL-
TOXICITY DATA with REFERENCE:
orl-rat LD50:570 µL/kg IJTOFN 19,344,2000
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

TDQ075 CAS: 2627-95-4 HR: 1
sym-TETRAMETHYLDIVINYLDISILOXANE
mf: $C_8H_{18}OSi_2$ mw: 186.44
SYNS: BIS(ETHENYLDIMETHYLSILYL) ETHER □ 1,3-DIETHENYL-1,1,3,3-TETRAMETHYLDISILOXANE □ DISILOXANE, 1,3-DIETHENYL-1,1,3,3-TETRAMETHYL- □ DISILOXANE, 1,1,3,3-TETRAMETHYL-1,3-DIVINYL- □ sym-DIVINYLTETRAMETHYLDISILOXANE □ 1,1'-DIVINYLTETRAMETHYLDISILOXANE □ 1,3-DIVINYLTETRAMETHYLDISILOXANE □ SC-3950 □ TETRAMETHYL-1,3-DIVINYLDISILOXANE
TOXICITY DATA with REFERENCE:
orl-rat LD50:>10 g/kg NTIS** OTS0572676
ihl-rat LCLo:111 g/m^3/1H NTIS** OTS0572673
SAFETY PROFILE: Low toxicity by ingestion and inhalation. When heated to decomposition it emits acrid smoke and irritating vapors.

TDQ100 CAS: 1070-70-8 HR: 2
TETRAMETHYLENE ACRYLATE
mf: $C_{10}H_{14}O_4$ mw: 198.24
SYNS: ACRYLIC ACID, TETRAMETHYLENE ESTER (6CI,7CI,8CI) □ 1,4-BUTANEDIOL DIACRYLATE □ BUTYLENE DIACRYLATE □ 1,4-BUTYLENE DIACRYLATE □ 1,4-BUTYLENE GLYCOL DIACRYLATE □ 2-PROPENOIC ACID, 1,4-BUTANEDIYL ESTER □ SR 213 □ TETRAMETHYLENE DIACRYLATE □ TETRAMETHYLENE GLYCOL DIACRYLATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:587 mg/kg GISAAA 55(6),86,90
orl-mus LD50:1 g/kg GISAAA 55(6),86,90
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

TDQ225 CAS: 6611-01-4 HR: 3
N,N′-TETRAMETHYLENEBIS(1-AZIRIDINE-CARBOXAMIDE)
mf: $C_{10}H_{18}N_4O_2$ mw: 226.32
SYNS: N,N'-(1,4-BUTANEDIYL)BIS-1-AZIRIDIENCARBOX-AMIDE □ ENT-50,838 □ TMAC
TOXICITY DATA with REFERENCE:
dlt-oin-par 100 ng MUREAV 7,63,69
dlt-oin-unr 1000 ppm/5M-C AESAAI 62,790,69
dlt-oin-par 10 ppm AESAAI 63,71,70
orl-qal LD50:133 mg/kg JRPFA4 48,371,76
SAFETY PROFILE: Poison by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TDQ230 CAS: 10397-75-8 HR: 3
5,5′-(TETRAMETHYLENEBIS(CARBONYL-IMINO))BIS(N-METHYL-2,4,6-TRIIODO-ISOPHTHALAMIC ACID)
mf: $C_{24}H_{20}I_6N_4O_8$ mw: 1253.85
PROP: Crystals from dimethylformamide. Mp: 302° (decomp).
SYNS: IOCARMIC ACID □ MYELOTRAST
TOXICITY DATA with REFERENCE:
iat-rat LD50:6587 mg/kg USXXAM #4001323
ivn-mus LD50:9057 mg/kg USXXAM #4001323
ice-mus LD50:461 mg/kg USXXAM #4001323
par-rbt LD50:61 mg/kg USXXAM #4001323
SAFETY PROFILE: Poison by parenteral route. Moderately toxic by intracerebral route. When heated to decomposition it emits toxic fumes of I^- and NO_x.

TDQ250 CAS: 60784-43-2 HR: 3

1,1′-TETRAMETHYLENEBIS(3-(2-CHLORO-ETHYL)-3-NITROSOUREA)
mf: $C_{10}H_{18}Cl_2N_6O_4$ mw: 357.24
TOXICITY DATA with REFERENCE:
sln-dmg-orl 100 μmol/L/24H MUREAV 57,297,78
mrc-smc 500 μmol/L/16H MUREAV 42,45,77
ipr-rat LD50:46 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.

TDQ255 HR: 3
1,1′-TETRAMETHYLENEBIS(1-ETHYLPIPERI-DINIUM)DIBROMIDE
mf: $C_{18}H_{38}N_2$•2Br mw: 442.40
SYN: 1,4-TETRAMETHYLEN-BIS-(N-AETHYLPIPERIDINIUM)-DIBROMID (GERMAN)
TOXICITY DATA with REFERENCE:
orl-mus LD50:1 g/kg AEPPAE 232,219,57
scu-mus LD50:135 mg/kg AEPPAE 232,219,57
ivn-mus LD50:21 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^-.

TDQ260 HR: 3
1,1′-TETRAMETHYLENEBIS(1-ETHYL-PYRROLIDINIUM) DIBROMIDE
mf: $C_{16}H_{34}N_2$•2Br mw: 414.34
SYN: 1,4-TETRAMETHYLEN-BIS-(N-AETHYLPYRROLIDINIUM)-DIBROMID (GERMAN)
TOXICITY DATA with REFERENCE:
orl-mus LD50:775 mg/kg AEPPAE 232,219,57
scu-mus LD50:106 mg/kg AEPPAE 232,219,57
ivn-mus LD50:26 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 Br^- and NO_x.

TDQ263 HR: 3
1,1′-TETRAMETHYLENEBIS(1-METHYL-PIPERIDINIUM)DIBROMIDE
mf: $C_{16}H_{34}N_2$•2Br mw: 414.34
SYN: 1,4-TETRAMETHYLEN-BIS-(N-METHYLPIPERIDINIUM)-DIBROMID (GERMAN)
TOXICITY DATA with REFERENCE:
orl-mus LD50:825 mg/kg AEPPAE 232,219,57
scu-mus LD50:74 mg/kg AEPPAE 232,219,57
ivn-mus LD50:33 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^-.

TDQ265 HR: 3
1,1′-TETRAMETHYLENEBIS(1-METHYL-PYRROLIDINIUM) DIBROMIDE
mf: $C_{14}H_{30}N_2$•2Br mw: 386.28
SYN: 1,4-TETRAMETHYLEN-BIS-(N-METHYLPYRROLIDINIUM)-DIBROMID (GERMAN)
TOXICITY DATA with REFERENCE:
orl-mus LD50:1450 mg/kg AEPPAE 232,219,57
scu-mus LD50:190 mg/kg AEPPAE 232,219,57
ivn-mus LD50:41 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 Br^- and NO_x.

TDQ325 CAS: 14208-08-3 HR: 3
1,1′-TETRAMETHYLENEBIS(PYRIDINIUM BROMIDE)
mf: $C_{14}H_{18}N_2$•2Br mw: 374.16
SYNS: 1,4-TETRAMETHYLEN-BIS-(PYRIDINIUM)-DIBROMID (GERMAN) □ 1,1'-TETRAMETHYLENBIS-PYRIDINIUM DIBROMIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:2750 mg/kg AEPPAE 232,219,57
scu-mus LD50:212 mg/kg AEPPAE 232,219,57
ivn-mus LD50:55 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.

TDQ400 CAS: 628-21-7 HR: D
TETRAMETHYLENE DIIODIDE
mf: $C_4H_8I_2$ mw: 309.92
SYNS: BUTANE, 1,4-DIIODO- □ 1,4-DIIODOBUTANE □ TETRAMETHYLENE IODIDE
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^-.

TDQ500 CAS: 1600-44-8 HR: 2
TETRAMETHYLENE SULFOXIDE
mf: C_4H_8OS mw: 104.18
PROP: A liquid. D: 1.16 @ 20°/4°, refr index: 1.5200, flash p: >230°F.
SYN: TETRAHYDRO-THIOPHENE-1-OXIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:3500 mg/kg IJRBA3 3,41,61
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Combustible when exposed to heat, sparks, or flame. When heated to decomposition it emits toxic fumes of SO_x.

TDQ750 CAS: 110-18-9 HR: 3
TETRAMETHYLETHYLENEDIAMINE
DOT: UN 2372
mf: $C_6H_{16}N_2$ mw: 116.24
PROP: Mp: −55°, bp: 120−122°, refr index: 1.4179, d: 0.770, flash p: 50°F.

SYNS: 1,2-BIS-(DIMETHYLAMINO)-ETHANE (DOT) □ 1,2-DI-(DIMETHYLAMINO)ETHANE (DOT) □ PROPAMINE D □ TEMED □ TETRAMEEN □ N,N,N',N'-TETRAMETHYL-1,2-DIAMINOETHANE □ N,N,N',N'-TETRAMETHYLETHYL-ENEDIAMINE □ TMEDA

TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H open JIHTAB 30,63,48
eye-rbt 750 µg SEV AJOPAA 29,1363,46
orl-rat LD50:1580 mg/kg JIHTAB 30,63,48
skn-rbt LD50:5390 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. A skin and severe eye irritant. Flammable when exposed to heat or flame; can react with oxidizing materials. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

TDR000 CAS: 76-09-5 HR: 2
TETRAMETHYLETHYLENE GLYCOL
mf: $C_6H_{14}O_2$ mw: 118.20

PROP: Crystals from Et_2O. Mp: 47° (hydrate), mp: 38° (anhydrate), bp: 175°. Sol in EtOH, Et_2O, and hot H_2O.

SYNS: 2,3-DIMETHYL-2,3-BUTANEDIOL □ PINACOL

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 14,659,76
orl-mus LD50:3380 mg/kg FCTXAV 14,841,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TDR100 CAS: 111-18-2 HR: 3
N,N,N′,N′-TETRAMETHYL-1,6-HEXANEDIAMINE
mf: $C_{10}H_{24}N_2$ mw: 172.36

SYNS: 1,6-HEXANEDIAMINE, N,N,N',N'-TETRAMETHYL- □ N,N,N',N'-TETRAMETHYLHEXAMETHYLENE DIAMINE

TOXICITY DATA with REFERENCE:
ivn-mus LD50:141 mg/kg IJNEAQ 8,131,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TDR250 CAS: 61556-82-9 HR: 2
TETRAMETHYLHYDRAZINE HYDROCHLORIDE
mf: $C_4H_{12}N_2$•ClH mw: 124.64

TOXICITY DATA with REFERENCE:
orl-mus TDLo:49 g/kg/34W-C:CAR JNCIAM 57,1179,76

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

TDR500 CAS: 75-74-1 HR: 3
TETRAMETHYL LEAD
mf: $C_4H_{12}Pb$ mw: 267.35

PROP: Colorless liquid. Mp: −27.5°, lel: 1.8%, bp: 110°, d: 1.99, vap d: 9.2, flash p: 100°F. IDLH 40 mg/m^3 (as Pb).

SYNS: TETRAMETHYLPLUMBANE □ TML

TOXICITY DATA with REFERENCE:
orl-rat LD50:105 mg/kg MELAAD 54,486,63
ipr-rat LD50:90 mg/kg MELAAD 54,486,63
ivn-rat LD50:88 mg/kg MELAAD 54,486,63
par-rat LD50:105 mg/kg AOHYA3 3,226,61
ihl-mus LC50:8500 mg/m^3/30M 85JCAE -,1258,86
orl-rbt LDLo:24 mg/kg SAIGBL 15,3,73
skn-rbt LDLo:3391 mg/kg SAIGBL 15,3,73
ivn-rbt LDLo:90 mg/kg JPETAB 38,161,30

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

OSHA PEL: TWA 0.075 mg(Pb)/m^3 (skin)

ACGIH TLV: TWA 0.15 mg(Pb)/m^3 (skin)

DFG MAK: 0.05 mg/m^3

SAFETY PROFILE: Poison by ingestion, intraperitoneal, parenteral, and intravenous routes. Moderately toxic by skin contact. An experimental teratogen. Experimental reproductive effects. Lead and its compounds have dangerous central nervous system effects. A flammable liquid and very dangerous fire hazard when exposed to heat, flame, or oxidizers. Moderate explosion hazard in the form of vapor when exposed to flame. May explode when heated above 90°C. Explosive reaction with tetrachlorotrifluoromethyl phosphorane. Can react vigorously with oxidizing materials. To fight fire, use water, foam, CO_2, dry chemical. When heated to decomposition it emits toxic fumes of Pb. Used as an octane enhancer for gasoline. See also LEAD COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Tetramethyl Lead (as Pb), 2534.

TDR750 CAS: 51-80-9 HR: 3
N,N,N′N′-TETRAMETHYLMETHANEDIAMINE
mf: $C_5H_{14}N_2$ mw: 102.21

PROP: Liquid. Bp: 85°, d: 0.749, refr index: 1.4005, flash p: 35°F.

SYNS: N,N,N',N'-TETRAMETHYLDIAMINOMETHAN (GERMAN) □ TETRAMETHYL METHYLENE DIAMINE (DOT)

TOXICITY DATA with REFERENCE:
ipr-mus LD50:220 mg/kg ARZNAD 16,734,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Flammable liquid and very dangerous fire hazard when exposed to powerful oxidizers, heat or open flame. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

TDR800 CAS: 132050-00-1 HR: 2
N,N,N′,N′-TETRAMETHYLMETHANEDIAMINE ETHANEDIOATE
mf: $C_5H_{14}N_2$•x$C_2H_2O_4$ mw: 732.49

SYNS: BISOL 2 □ METHANEDIAMINE, N,N,N',N'-TETRAMETHYL-, ETHANEDIOATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1770 mg/kg GISAAA 55(7),93,90
orl-mus LD50:1550 mg/kg GISAAA 55(7),93,90
orl-gpg LD50:1300 mg/kg GISAAA 55(7),93,90
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

TDS000 CAS: 6130-93-4 HR: 3
2,2,6,6-TETRAMETHYLNITROSOPIPERIDINE
mf: $C_9H_{18}N_2O$ mw: 170.29
PROP: Golden-yellow liquid. Bp: 91−92° @ 12 mm.
SYN: 1-NITROSO-2,2,6,6-TETRAMETHYLPIPERIDINE
TOXICITY DATA with REFERENCE:
orl-mus LD50:300 mg/kg NATUAS 184,1707,59
ivn-mus LD50:25 mg/kg NATUAS 184,1707,59
SAFETY PROFILE: Poison by ingestion and intravenous routes. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

TDS250 CAS: 63907-04-0 HR: 3
N,N,2,3-TETRAMETHYL-2-NORBORNANAMINE
mf: $C_{11}H_{21}N$ mw: 167.33
SYN: M & B 4620
TOXICITY DATA with REFERENCE:
orl-mus LDLo:165 mg/kg 32ZCAI -,167,67
ivn-mus LD50:18 mg/kg 32ZCAI -,167,67
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

TDS500 CAS: 10031-58-0 HR: 3
1,(5,5,7,7-TETRAMETHYL-2-OCTANYL)-2-METHYL-5-ETHYLPYRIDINIUM CHLORIDE
mf: $C_{20}H_{36}N{\bullet}Cl$ mw: 326.02
TOXICITY DATA with REFERENCE:
skn-rbt 100 µg/24H open AIHAAP 23,95,62
orl-rat LD50:540 mg/kg AIHAAP 23,95,62
skn-rbt LD50:71 mg/kg AIHAAP 23,95,62
SAFETY PROFILE: Poison by skin contact. Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-.

TDS750 CAS: 4466-77-7 HR: 2
1:2:3:4-TETRAMETHYLPHENANTHRENE
mf: $C_{18}H_{18}$ mw: 234.36
PROP: Plates from AcOH. Mp: 92−93°.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

TDT000 CAS: 704-01-8 HR: 3
N,N,N′,N′-TETRAMETHYL-o-PHENYLENEDIAMINE
mf: $C_{10}H_{16}N_2$ mw: 164.28
PROP: Crystals or oil. Mp: 51−52°, bp: 215−218°. Sltly sol in cold water; more sol in hot water; very sol in alc, chloroform, ether, pet ether.
TOXICITY DATA with REFERENCE:
ivn-mus LD50:320 mg/kg CSLNX* NX#03995
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x.

TDT250 CAS: 637-01-4 HR: 3
N,N,N′,N′-TETRAMETHYL-p-PHENYLENEDIAMINE DIHYDROCHLORIDE
mf: $C_{10}H_{16}N_2{\bullet}2ClH$ mw: 237.20
PROP: Crystals. Mp: 222−224° (decomp). Sol in water.
TOXICITY DATA with REFERENCE:
scu-mus LDLo:20 mg/kg NDRC** -,13,44
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

TDT500 CAS: 993-11-3 HR: 3
TETRAMETHYLPHOSPHONIUM IODIDE
mf: $C_4H_{12}P{\bullet}I$ mw: 218.03
PROP: Crystals from EtOH/Et_2O. Mp: >360° (sealed tube).
TOXICITY DATA with REFERENCE:
scu-mus LDLo:100 mg/kg JPETAB 25,315,25
ivn-mus LDLo:12 mg/kg JPETAB 25,315,25
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of PO_x and I^-. See also IODIDES.

TDT750 CAS: 768-66-1 HR: 3
2,2,6,6-TETRAMETHYLPIPERIDINE
mf: $C_9H_{19}N$ mw: 141.29
PROP: Bp: 152°, refr index: 1.4440, d: 0.837, flash p: 76°F.
TOXICITY DATA with REFERENCE:
orl-mus LD50:220 mg/kg NATUAS 184,1707,59
ivn-mus LD50:33 mg/kg NATUAS 184,1707,59
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intravenous routes. Flammable liquid. When heated to decomposition it emits toxic fumes of NO_x.

TDT770 CAS: 826-36-8 HR: 3
2,2,6,6-TETRAMETHYL-4-PIPERIDINONE
mf: $C_9H_{17}NO$ mw: 155.27
SYNS: 4-OXO-2,2,6,6-TETRAMETHYLPIPERIDINE ◻ 4-PIPERIDONE, 2,2,6,6-TETRAMETHYL- ◻ 4-PIPERIDINONE, 2,2,6,6-TETRAMETHYL-(9CI) ◻ 2,2,6,6-TETRAMETHYLPIPERIDINONE ◻ 2,2,6,6-TETRAMETHYLPIPERIDONE ◻ 2,2,6,6-TETRAMETHYL-4-PIPERIDONE ◻ TRIACETONAMIN ◻ TRIACETONAMINE ◻ TRIACETONE AMINE ◻ TROJACETONOAMINY ◻ VINCUBINA ◻ VINCUBINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1539 mg/kg GTPZAB 28(5),53,84
ipr-rat LD50:385 mg/kg APPHAX 24,652,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

TDT800 CAS: 2564-83-2 HR: 2
2,2,6,6-TETRAMETHYLPIPERIDINOOXY
mf: $C_9H_{18}NO$ mw: 156.28
PROP: Orange crystals or powder. Mp: 36−38°.
SYNS: PIPERIDINOOXY, 2,2,6,6-TETRAMETHYL- □ 1-PIPERIDINYLOXY, 2,2,6,6-TETRAMETHYL-(9CI) □ TANAN □ TANANE □ TEMPO □ TETRAMETHYLPIPERIDINE NITROXIDE □ 2,2,6,6-TETRAMETHYLPIPERIDINE-1-OXYL □ TETRAMETHYLPIPERIDINOOXY □ 2,2,6,6-TETRAMETHYL-PIPERIDINOOXYL □ 2,2,6,6-TETRAMETHYLPIPERIDINYLOXY □ 2,2,6,6-TETRAMETHYL-1-PIPERIDINYLOXY □ 2,2,6,6-TETRAMETHYLPIPERIDOXYL
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/4H SEV EPASR* 8EHQ-0786-0607S
eye-rbt 100 mg/24H SEV EPASR* 8EHQ-0786-0607S
ihl-rat LCLo:4500 mg/m^3/2H EPASR* 8EHQ-0786-0607S
skn-rbt LDLo:2 g/kg EPASR* 8EHQ-0786-0607S
SAFETY PROFILE: Slightly toxic by inhalation and skin contact. A severe skin and eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

TDT850 CAS: 18722-71-9 HR: D
N,N,N′,N′-TETRAMETHYL-P-PIPERIDINO-PHOSPHONIC DIAMIDE
mf: $C_9H_{22}N_3OP$ mw: 219.31
SYNS: ENT-51007 □ PHOSPHONIC DIAMIDE, P-4-PIPERIDYL-N,N,N',N'-TETRAMETHYL- □ PHOSPHONIC DIAMIDE, N,N,N',N'-TETRAMETHYL-P-4-PIPERIDINYL- □ PHOSPHONIC DIAMIDE, N,N,N',N'-TETRAMETHYL-P-4-PIPERIDYL-
TOXICITY DATA with REFERENCE:
dlt-ins 100 ppm BWHOA6 47,305,72
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and PO_x.

TDT900 CAS: 102071-44-3 HR: 3
2-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-2-OXAZOLINE
mf: $C_{12}H_{23}N_3O$ mw: 225.38
SYN: PIPERIDINE, 4-(2-OXAZOLIN-2-YLAMINO)-2,2,6,6-TETRAMETHYL-
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#09873
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

TDU000 CAS: 4168-79-0 HR: 3
2,2,6,6-TETRAMETHYL-4-PIPERIDONE OXIME
mf: $C_9H_{18}N_2O$ mw: 170.29
PROP: Prisms from EtOH. Mp: 153°.
TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#04513
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x.

TDU250 CAS: 22295-11-0 HR: 2
TETRAMETHYLPLATINUM
mf: $C_4H_{12}Pt$ mw: 255.23
PROP: IDLH 4 mg/m^3 (as Pt).
SAFETY PROFILE: Heat-sensitive weak explosive. When heated to decomposition it emits acrid smoke and irritating fumes. See also PLATINUM COMPOUNDS.

TDU500 CAS: 110-95-2 HR: 3
N,N,N′,N′-TETRAMETHYL-1,3-PROPANEDI-AMINE
mf: $C_7H_{18}N_2$ mw: 130.27
PROP: Liquid or oil. Bp: 145−146°, refr index: 1.4234, flash p: 89° F. Misc in H_2O, EtOH, and Et_2O.
TOXICITY DATA with REFERENCE:
orl-rat LD50:410 mg/kg AIHAAP 30,470,69
ihl-rat LCLo:375 ppm/2H WADTAA 55-250,10,55
skn-rbt LD50:300 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by skin contact. Moderately toxic by inhalation and ingestion. Flammable liquid. When heated to decomposition it emits toxic fumes of NO_x.

TDU750 CAS: 17471-59-9 HR: 3
N,N,N′,N′-TETRAMETHYL PROPENE-1,3-DIAMINE
mf: $C_7H_{16}N_2$ mw: 128.25
SYN: N,N,N',N'-TETRAMETHYL-1,3-PROPENYLDIAMINE
TOXICITY DATA with REFERENCE:
ihl-rat LCLo:200 ppm/2H WADTAA 55-250,9,55
ivn-rbt LDLo:50 mg/kg WADTAA 55-250,3,55
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by inhalation. When heated to decomposition it emits toxic fumes of NO_x.

TDU800 CAS: 1124-11-4 HR: 3
TETRAMETHYLPYRAZINE
mf: $C_8H_{12}N_2$ mw: 136.22
PROP: White trihydrate crystals from water or powder; fermented-soybean odor. Mp: 86° (anhydrate), mp: 74−77° (hydrate), bp: 190°. Sol in alc, propylene glycol, and fixed oils; sltly sol in water.
SYNS: FEMA No. 3237 □ 2,3,5,6-TETRAMETHYL PYRAZINE (FCC)
TOXICITY DATA with REFERENCE:
orl-rat LD50:1910 mg/kg DCTODJ 3,249,80
ipr-mus LD50:800 µg/kg IJCREE 23,119,85
ivn-mus LD50:239 mg/kg CMJODS 4,319,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

TDV000 CAS: 690-49-3 HR: 3
TETRAMETHYLPYROPHOSPHATE
mf: $C_4H_{12}O_7P_2$ mw: 234.10
PROP: A liquid. D: 1.36 @ 25°/4°, bp: 114−116° @ 0.05 mm.
SYNS: DIPHOSPHORIC ACID, TETRAMETHYL ESTER □ METHYL PYROPHOSPHATE □ PYROPHOSPHORIC ACID, TETRAMETHYL ESTER
TOXICITY DATA with REFERENCE:
orl-rat LDLo:100 mg/kg NCNSA6 5,38,53
ipr-mus LD50:589 µg/kg PHARAT 35,806,80
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of PO_x. See also PHOSPHATES.

TDV250 CAS: 4567-22-0 HR: 3
2,2,5,5-TETRAMETHYLPYRROLIDINE
mf: $C_8H_{17}N$ mw: 127.26
PROP: Bp: 124−125°.
TOXICITY DATA with REFERENCE:
orl-mus LD50:450 mg/kg MDCHAG 7,314,67
ivn-mus LD50:63 mg/kg MDCHAG 7,314,67
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

TDV300 CAS: 2154-68-9 HR: 2
2,2,5,5-TETRAMETHYL-1-PYRROLIDINYLOXY-3-CARBOXYLIC ACID
mf: $C_9H_{16}NO_3$ mw: 186.26
SYNS: PCA □ 1-PYRROLIDINYLOXY, 3-CARBOXY-2,2,5,5-TETRAMETHYL-
TOXICITY DATA with REFERENCE:
ivn-rat LD50:2812 mg/kg INVRAV 19,549,84
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

TDV400 CAS: 161697-00-3 HR: D
N,2,3,5-TETRAMETHYL-6-QUINOXALINAMINE
mf: $C_{12}H_{15}N_3$ mw: 201.30
SYNS: 6-METHYLAMINO-2,3,5-TRIMETHYLQUINOXALINE □ 6-QUINOXALINAMINE, N,2,3,5-TETRAMETHYL-
TOXICITY DATA with REFERENCE:
mic-bac-sat 100 nmol/plate MUREAV 346,99,95
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

TDV500 CAS: 75-76-3 HR: 3
TETRAMETHYLSILANE
mf: $C_4H_{12}Si$ mw: 88.23
PROP: Volatile liquid, freezing to dimorphous solid. Mp: −99°, bp: 26−28°, refr index: 1.3580, d: 0.648, flash p: −17° F.
SAFETY PROFILE: A very dangerous fire hazard when exposed to heat or flame. Spontaneously flammable in air. Explosive reaction with chlorine + antimony trichloride above 100°C. When heated to decomposition it emits acrid smoke and irritating fumes.

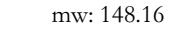
TDV750 CAS: 594-27-4 HR: 3
TETRAMETHYLSTANNANE
mf: $C_4H_{12}Sn$ mw: 178.85
PROP: Colorless liquid with ethereal odor. Bp: 78°, lel: 1.9%, d: 1.129 @ 25°/4°, mp: −55°, vap d: 6.2, flash p: <69.8°F.
SYN: TETRAMETHYL TIN
TOXICITY DATA with REFERENCE:
ihl-mus LCLo:2550 mg/m^3 NDRC** NDCrc-132,Feb,42
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Sn)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin).
NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: Moderately toxic by inhalation. A very dangerous fire and explosion hazard when exposed to heat, flame, or oxidizers. Powerful explosive reaction with dinitrogen tetroxide. To fight fire, use water, foam, CO_2, dry chemical. When heated it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS and ORGANOMETALS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

TDW000 CAS: 2185-78-6 HR: 2
TETRAMETHYLSTIBONIUM IODIDE
mf: $C_4H_{12}Sb{\bullet}I$ mw: 308.81
TOXICITY DATA with REFERENCE:
scu-mus LDLo:1000 mg/kg JPETAB 25,315,25
ivn-mus LDLo:600 mg/kg JPETAB 25,315,25
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: Moderately toxic by subcutaneous and intravenous routes. Many antimony compounds are poisons by several routes. When heated to decomposition it emits toxic fumes of I^- and Sb. See also ANTIMONY COMPOUNDS and IODIDES.

TDW250 CAS: 3333-52-6 HR: 3
TETRAMETHYLSUCCINONITRILE
mf: $C_8H_{12}N_2$ mw: 136.22
PROP: Crystallizes in plates; almost no odor. Mp: 172° (sublimes). IDLH 5 ppm.
SYN: TMSN
TOXICITY DATA with REFERENCE:
ipr-ham TDLo:9944 µg/kg (8D preg):TER FAATDF 3,41,83
orl-rat LD50:38,900 µg/kg FAATDF 7,41,86
ipr-mus LD50:17,710 µg/kg JPETAB 223,635,82
ivn-mus LD50:18 mg/kg CSLNX* NX#00002
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.5 ppm (skin)
ACGIH TLV: TWA 0.5 ppm (skin)
DFG MAK: 0.5 ppm (2.8 mg/m^3)
NIOSH REL: (Nitriles) CL 6 mg/m^3/15M

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. An experimental teratogen. A human skin irritant and allergen. In the preparation of sponge rubber, an azo compound is used that decomposes to form tetramethylsuccinonitrile or TMSN. Rats exposed to a concentration of 90 ppm exhibit their first convulsion after 1.5−2 hours or less. Rats exposed to concentration of 5.5 ppm exhibited their first convulsions in 27−31 hours and were dead in 31−46 hours. Absorbed by skin. The fatal dose in humans is thought to be about 25 mg/kg of body weight. TSN is slowly detoxified by the body. This nitrile is different from other nitriles in that thiosulfate is a poor antidote for intoxication. When heated to decomposition it emits toxic fumes of CN^- and NO_x. See also NITRILES and CYANIDE.

TDW275 CAS: 1073-91-2 HR: 3
3,3,6,6-TETRAMETHYL-1,2,4,5-TETRAOXANE
mf: $C_6H_{12}O_4$ mw: 148.16



$OOC(CH_3)_2OOC(CH_3)_2$

PROP: Crystals from EtOAc. Mp: 132−132.5°.
SAFETY PROFILE: A powerful explosive sensitive to impact, friction, or rapid heating. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES.

TDW300 CAS: 6130-87-6 HR: 3
TETRAMETHYL-2-TETRAZENE
mf: $C_4H_{12}N_4$ mw: 116.17

$(CH_3)_2NN{=}NN(CH_3)_2$

PROP: Yellow oil. Bp: 130°.
SAFETY PROFILE: Explodes when heated to its boiling point 130°C. Upon decomposition it emits toxic fumes of NO_x.

TDW500 CAS: 108-62-3 HR: 3
2,4,6,8-TETRAMETHYL-1,3,5,7-TETROXOCANE
DOT: UN 1332
mf: $C_8H_{16}O_4$ mw: 176.24
PROP: Crystals with menthol odor. Mp: 47°, bp: 65° @ 15 mm. Sol in most org solvs.
SYNS: ACETALDEHYDE, TETRAMER □ ANTIMILACE □ ARIOTOX □ CEKUMETA □ CORRY'S SLUG DEATH □ HALIZAN □ META □ METACETALDEHYDE □ METALDEHYD (GERMAN) □ METALDEHYDE (DOT) □ METALDEIDE (ITALIAN) □ METASON □ NAMEKIL □ SLUG-TOX
TOXICITY DATA with REFERENCE:
mmo-smc 5 ppm RSTUDV 6,161,76
orl-rat TDLo:61 g/kg (MGN):REP TXCYAC 4,97,75
orl-chd LDLo:100 mg/kg:CNS 85GYAZ -,158,71
orl-rat LD50:227 mg/kg 85GMAT -,15,82
ihl-rat LC50:203 mg/m^3/4H 85GMAT -,15,82
skn-rat LD50:2275 mg/kg 85GMAT -,15,82
orl-mus LD50:200 mg/kg 85GMAT -,15,82
ihl-mus LC50:348 mg/m^3/2H 85GMAT -,15,82
orl-dog LD50:600 mg/kg GUCHAZ 6,331,73
orl-cat LD50:207 mg/kg 85GMAT -,15,82
orl-rbt LD50:290 mg/kg 85GMAT -,15,82
orl-gpg LD50:175 mg/kg 85GMAT -,15,82
DOT CLASSIFICATION: 4.1; Label: Flammable Solid
SAFETY PROFILE: Human poison by ingestion. Human systemic effects by ingestion: convulsions or effect on seizure threshold. Moderately toxic by inhalation and skin contact. Experimental reproductive effects. Mutation data reported. A flammable solid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

TDX000 CAS: 2782-91-4 HR: 2
TETRAMETHYLTHIOUREA
mf: $C_5H_{12}N_2S$ mw: 132.25
PROP: Crystals from H_2O. Mp: 79−80°, bp: 245°.
SYNS: NA-101 □ 1,1,3,3-TETRAMETHYLTHIOUREA □ TMTU
TOXICITY DATA with REFERENCE:
cyt-hmn:lyms 100 µg/L CYGEDX 20(2),55,86
orl-rat TDLo:1848 mg/kg/79W-C:CAR HunNJ# 10May77
orl-rat LD50:920 mg/kg HunNJ# 10May77
orl-mus LDLo:500 mg/kg TJADAB 23,335,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic and teratogenic data. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFIDES.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Tetramethyl Thiourea, 3505.

TDX250 CAS: 632-22-4 HR: 2
1,1,3,3-TETRAMETHYLUREA
mf: $C_5H_{12}N_2O$ mw: 116.19
PROP: Liquid, with faint pleasant odor. Bp: 177°, mp: −1.2°, d: 0.969, flash p: 167°F. Very sol in alc and ether; misc with water.
SYNS: TEMUR □ TETRAMETHYLUREA □ TETRAMETHYLUREE (FRENCH) □ TMU
TOXICITY DATA with REFERENCE:
dni-hmn:lym 10 mmol/L PNASA6 79,1171,82
ivn-rat LD50:1100 mg/kg ACIEAY 3,260,64
orl-mus LD50:2920 mg/kg AIPTAK 160,333,66
ivn-mus LD50:2230 mg/kg AIPTAK 160,333,66
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. Combustible when exposed to heat, flame, and oxidizers. To fight fire, use foam, mist, spray, dry chemicals. When heated to decomposition it emits toxic fumes of NO_x.

TDX300 CAS: 2778-42-9 HR: 3
m-TETRAMETHYLXYLENE DIISOCYANATE
mf: $C_{14}H_{16}N_2O_2$ mw: 244.32
PROP: Mp: −10°, bp: 292°. Insol in water (reacts).
SYNS: BENZENE, 1,3-BIS(1-ISOCYANATO-1-METHYLETHYL)- □ 1,3-BIS(1-ISOCYANATO-1-METHYLETHYL)BENZENE □ m-TMXDI
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MOD JACTDZ 1,45,90

eye-rbt 100 mg MLD JACTDZ 1,45,90
orl-rat LD50:4600 mg/kg TSCAT* OTS0515232
skn-rbt LDLo:2 g/kg JACTDZ 1,45,90
ihl-gpg LC50:240 mg/m^3/1H JACTDZ 1,45,90
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by inhalation. Moderately toxic by skin contact. A skin and eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

TDX320 CAS: 94857-19-9 HR: 2
m-TETRAMETHYLXYLENE DIISOCYANATE-TRIMETHYLOL PROPANE ADDUCT
mf: $(C_{14}H_{16}N_2O_2 \bullet C_6H_{14}O_3)_x$-
SYNS: 1,3-PROPANEDIOL, 2-ETHYL-2-(HYDROXYMETHYL)-, POLYMER with 1,3-BIS(1-ISOCYANATO-1-METHYLETHYL) BENZENE □ m-TMXDI/TMP ADDUCT
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MOD JACTDZ 1,106,90
eye-rbt 100 mg MLD JACTDZ 1,106,90
orl-rat LD50:>5 g/kg JACTDZ 1,106,90
skn-rbt LD50:>2 g/kg JACTDZ 1,106,90
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by skin contact. Low toxicity by ingestion. A skin and eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

TDX400 CAS: 2778-41-8 HR: 3
p-TETRAMETHYLXYLYLENE DIISOCYANATE
mf: $C_{14}H_{16}N_2O_2$ mw: 244.32
SYNS: BENZENE, 1,4-BIS(1-ISOCYANATO-1-METHYLETHYL)- □ BIS(ISOCYANATOMETHYL)DURENE □ 1,4-BIS(1-ISOCYANATO-1-METHYLETHYL)BENZENE □ ISOCYANIC ACID, p-PHENYLENEDIISOPROPYLIDENE ESTER (7CI) □ ISOCYANIC ACID, α-α-α',α'-TETRAMETHYL-p-XYLYLENE ESTER (8CI) □ p-TMXDI
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg SEV JACTDZ 1,160,92
orl-rat LD50:>10 g/kg JACTDZ 1,160,92
ihl-rat LC50:220 mg/m^3/4H JACTDZ 1,160,92
skn-rbt LD:>2 g/kg JACTDZ 1,160,92
SAFETY PROFILE: A poison by inhalation. An eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

TDX500 CAS: 80-12-6 HR: 3
TETRAMINE
mf: $C_4H_8N_4O_4S_2$ mw: 240.28
PROP: Cubes from Me_2CO. Mp: 225−260° (decomp). Sol in H_2O.
SYNS: 2,6-DITHIA-1,3,5,7-TETRAZATRICYCLO(3.3.1.1^{3,7})-DECANE-2,2,6,6-TETROXIDE □ TETRAMETHYLENE-DISULFOTETRAMINE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:4850 mg/kg JAPMA8 46,239,57
orl-mus LDLo:200 μg/kg DMWOAX 75,183,50
ipr-mus LD50:210 mg/kg JPMSAE 50,858,61
scu-mus LDLo:100 μg/kg DMWOAX 75,183,50
orl-mam LD50:100 μg/kg PCOC** -,1122,66
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also AMINES.

TDX750 CAS: 5086-74-8 HR: 3
TETRAMISOLE HYDROCHLORIDE
mf: $C_{11}H_{12}N_2S \bullet ClH$ mw: 240.77
PROP: Crystals. Mp: 264−265°. Sol in water (21 g/100 mL at 20°), methanol, and propylene glycol. Sparingly sol in ethanol, chloroform, hexane, and acetone.
SYNS: ANTHELVET □ BAYER 9051 □ CITARIN □ MCN-JR-8299 □ NILVERM □ NILVEROM □ OROVERMOL □ dl-6-PHENYL-2,3,5,6-TETRAHYDROIMIDAZOLE(2,1-b)THIAZOLE-HYDROCHLORIDE □ R 8299 □ RIPERCOL □ RIPEREOL □ SPARTAKON □ (±)-2,3,5,6-TETRAHYDRO-6-PHENYLIMID-AZO(2,1-b)THIAZOLE MONOHYDROCHLORIDE □ dl-TETRAMISOLE HYDROCHLORIDE □ TETRAMISOL HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-hmn TDLo:2 mg/kg:SKN TXAPA9 20,602,71
orl-rat LD50:480 mg/kg NATUAS 209,1084,66
scu-rat LD50:130 mg/kg NATUAS 209,1084,66
ivn-rat LD50:24 mg/kg NATUAS 209,1084,66
orl-mus LD50:210 mg/kg NATUAS 209,1084,66
scu-mus LD50:84 mg/kg NATUAS 209,1084,66
ivn-mus LD50:22 mg/kg NATUAS 209,1084,66
orl-dck LD50:958 mg/kg VETNAL 54(5),64,78
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. Human systemic effects by ingestion: skin dermatitis. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and HCl. Used as an anthelmintic and immunopotentiator.

TDX830 CAS: 518-34-3 HR: 3
TETRANDRINE
mf: $C_{38}H_{42}N_2O_6$ mw: 622.82
PROP: Needles from Et_2O. Mp: 217−218°. Practically insol in water, pet ether; sol in ether and some other org solvs.
SYNS: (1-β)-6,6',7,12-TETRAMETHOXY-2,2'-DIMETHYL-BERBAMAN (9CI) □ (+)-TETRANDRINE □ d-TETRANDRINE
TOXICITY DATA with REFERENCE:
dni-mus:oth 100 mg/L BCPCA6 25,1887,76
oms-mus:oth 100 mg/L BCPCA6 25,1887,76
ipr-mus LD50:280 mg/kg CPBTAL 24,2413,76
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TDX835 CAS: 22445-73-4 HR: 3
TETRANDRINE DIMETHIODIDE
mf: $C_{40}H_{48}N_2O_6 \bullet 2I$ mw: 906.70
SYNS: N,N^1-DIMETHYLPHAEANTHINE DIIODIDE □ 2,2'-DIMETHYLTETRANDRINIUM DIIODIDE □ SINOMENINE A BIS(METHYL IODIDE) □ SINOMENINE A DIMETHIODIDE □ (1-β)-6,6',7,12-TETRAMETHOXY-2,2,2',2'-TETRAMETHYL-BERBAMANIUM DIIODIDE (9CI)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:7 mg/kg CPBTAL 24,2413,76
scu-mus LD50:24,600 μg/kg APSXAS 7,279,70
ivn-mus LD50:2630 μg/kg APSXAS 7,279,70

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

TDX840 CAS: 7351-08-8 HR: 3
TETRANGOMYCIN
mf: $C_{19}H_{14}O_5$ mw: 322.33
PROP: Yellow crystals. Mp: 182−184°.
SYN: (+)-3,4-DIHYDRO-3,8-DIHYDROXY-3-METHYLBENZ(a)ANTHRACENE-1,7,12(2H)-TRIONE
TOXICITY DATA with REFERENCE:
orl-mus LD50:221 mg/kg 85GDA2 3,181,80
ipr-mus LD50:41 mg/kg 85GDA2 3,181,80
scu-mus LD50:147 mg/kg 85GDA2 3,181,80
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes.

TDX860 CAS: 12041-87-1 HR: 1
TETRANICOTYLFRUCTOSE
mf: $C_{30}H_{24}N_4O_{10}$ mw: 600.58
SYNS: BRADILAN □ FRUCTOFURANOSE, TETRANICOTINATE □ TETRANICOTYLFRUCTOFURANOSE
TOXICITY DATA with REFERENCE:
orl-mus LD50:23,800 mg/kg TOIZAG 14,41,61
SAFETY PROFILE: Slightly toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.

TDY000 CAS: 3698-54-2 HR: 3
TETRANITROANILINE
mf: $C_6H_3N_5O_8$ mw: 273.14
PROP: Yellow crystals from AcOH. Solid. Mp: 220°, bp: explodes @ 237°.
SYNS: TETRANITRANILINE (FRENCH) □ 2,3,4,6-TETRANITROANILINE □ TNA
TOXICITY DATA with REFERENCE:
scu-dog LDLo:2500 mg/kg JIDHAN 2,247,20
SAFETY PROFILE: Moderately toxic by subcutaneous route. For fire hazard, see NITRATES. A severe explosion hazard when shocked or exposed to heat (at 237°C). Tetranitroaniline is a powerful and sensitive high explosive, similar to tetryl. It deteriorates in the presence of moisture. Incompatible with reducing materials. When heated to decomposition it emits toxic fumes of NO_x. See also EXPLOSIVES, HIGH; and NITRATES.

TDY050 HR: 3
N,2,3,5-TETRANITROANILINE
mf: $C_6H_3N_5O_8$ mw: 273.12
$(O_2N)_3C_6H_2NHNO_2$
SAFETY PROFILE: The dry material explodes spontaneously. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

TDY075 CAS: 4591-46-2 HR: 3
N,2,4,6-TETRANITROANILINE
mf: $C_6H_3N_5O_8$ mw: 273.12
$(O_2N)_3C_6H_2NHNO_2$
PROP: Yellow crystals from $Me_2CO/CHCl_3$.
SYNS: BENZENAMINE, N,2,4,6-TETRANITRO- □ N,2,4,6-TETRANITROANILINE □ 2,4,6-TRINITROPHENYL NITRAMINE (DOT)
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: The impure material deflagrates (burns explosively) when heated to 50°C. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

TDY080 CAS: 51118-04-8 HR: D
2′,4,6,6′-TETRANITRO-2,4′-AZOXYTOLUENE
mf: $C_{14}H_{10}N_6O_9$ mw: 406.27
SYNS: DIAZENE, (2-METHYL-3,5-DINITROPHENYL)(4-METHYL-3,5-DINITROPHENYL)-, 1-OXIDE □ 2,4',6,6'-TETRANITRO-2',4-AZOXYTOLUENE
TOXICITY DATA with REFERENCE:
slt-ham-ovr 0.3 ppm/5H JJATDK 20,441,2000
slt-ham-ovr 0.6 ppm/5H JJATDK 20,441,2000
SAFETY PROFILE: Mutation data reported.

TDY085 CAS: 51857-25-1 HR: D
2,2′,6,6′-TETRANITRO-4,4′-AZOXYTOLUENE
mf: $C_{14}H_{10}N_6O_9$ mw: 406.27
SYN: DIAZENE, BIS(4-METHYL-3,5-DINITROPHENYL)-, 1-OXIDE
TOXICITY DATA with REFERENCE:
slt-ham-ovr 0.3 ppm/5H JJATDK 20,441,2000
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

TDY090 CAS: 35212-01-2 HR: D
4,4′,6,6′-TETRANITRO-2,2′-AZOXYTOLUENE
mf: $C_{14}H_{10}N_6O_9$ mw: 406.27
SYN: DIAZENE, BIS(2-METHYL-3,5-DINITROPHENYL)-, 1-OXIDE
TOXICITY DATA with REFERENCE:
slt-ham-ovr 1.9 ppm/5H JJATDK 20,441,2000
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

TDY100 CAS: 20600-96-8 HR: 3
TETRANITRO DIGLYCERIN
mf: $C_6H_{10}N_4O_{13}$ mw: 346.20
SYNS: DIGLYCEROL TETRANITRATE □ 1,2-PROPANEDIOL, 3,3'-OXYDI-, TETRANITRATE
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: An unstable substance forbidden from transport. When heated to decomposition it emits toxic vapors of NO_x.

TDY110 CAS: 746-53-2 HR: D
2,4,5,7-TETRANITROFLUORENONE
mf: $C_{13}H_4N_4O_9$ mw: 360.21
PROP: Yellow solid.
SYNS: FLUOREN-9-ONE, 2,4,5,7-TETRANITRO- □ 9H-FLUOREN-9-ONE, 2,4,5,7-TETRANITRO-
TOXICITY DATA with REFERENCE:
mmo-sat 30 pmol/plate MUREAV 206,367,88
uns-bac-esc 1250 ng/tube EMMUEG 18,41,91
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TDY120 CAS: 4543-33-3 HR: 3
1,3,6,8-TETRANITROKARBAZOL
mf: $C_{12}H_5N_5O_8$ mw: 347.22
SYNS: 9H-CARBAZOLE, 1,3,6,8-TETRANITRO- □ NIROSAN □ 1,3,6,8-TETRANITROCARBAZOLE
TOXICITY DATA with REFERENCE:
unr-rat LD50:250 mg/kg 30ZDA9 -,398,71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by an unspecified route. When heated to decomposition it emits toxic vapors of NO_x.

TDY250 CAS: 509-14-8 HR: 3
TETRANITROMETHANE
DOT: UN 1510
mf: CN_4O_8 mw: 196.05
PROP: Colorless or yellow liquid. Mp: 13°, bp: 125.7°, d: 1.650 @ 13°, vap press: 10 mm @ 22.7°. Insol in water; very sol in alc, ether. IDLH 4 ppm.
SYNS: NCI-C55947 □ RCRA WASTE NUMBER P112 □ TNM
TOXICITY DATA with REFERENCE:
mma-sat 20 µg/plate ENMUDM 9(Suppl 9),1,87
mmo-esc 3 µg/plate SAIGBL 29,34,87
ihl-rat TCLo:2 ppm/6H/2Y-I:CAR NTPTR* NTP-TR-386,90
orl-rat LD50:130 mg/kg NTIS** AD-A051-334
ihl-rat LC50:18 ppm/4H AMRL** TR-77-25,77
ivn-rat LD50:12,600 µg/kg AMRL** TR-77-25,77
orl-mus LD50:375 mg/kg NTIS** AD-A051-334
ihl-mus LC50:54 ppm/4H AMRL** TR-77-25,77
ipr-mus LD50:53 mg/kg NTIS** AD-A051-334
ivn-mus LD50:63,100 µg/kg AMRL** TR-77-25,77
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 1 ppm
ACGIH TLV: TWA 0.005 ppm; Animal Carcinogen
DFG MAK: Confirmed Animal Carcinogen, Suspected Human Carcinogen
DOT CLASSIFICATION: 5.1; Label: Oxidizer, Poison
SAFETY PROFILE: Confirmed carcinogen with carcinogenic and neoplastigenic data. Poison by ingestion, inhalation, intravenous, and intraperitoneal routes. Irritating to the skin, eyes, mucous membranes, and respiratory passages, and does serious damage to the liver. Mutation data reported. It occurs as an impurity in crude TNT, and is thought to be mainly responsible for the irritating properties of that material. It can cause pulmonary edema, mild methemoglobinemia, and fatty degeneration of the liver and kidneys.

A powerful oxidizer. A very dangerous fire hazard. A severe explosion hazard when shocked or exposed to heat. May explode during distillation. Potentially explosive reaction with ferrocene, pyridine, sodium ethoxide. Mixtures with amines (e.g., aniline) ignite spontaneously and may explode. Mixtures with cotton or toluene may explode when ignited. Forms sensitive and powerful explosive mixtures with nitrobenzene, 1-nitrotoluene, 4-nitrotoluene, 1,3-dinitrobenzene, 1-nitronaphthalene, other oxygen-deficient explosives, hydrocarbons. Can react vigorously with oxidizing materials. Incompatible with aluminum. When heated to decomposition it emits highly toxic fumes of NO_x. Used as an oxidizer in rocket propellants and as an explosive. See also NITRATES; EXPLOSIVES, HIGH.

TDY500 CAS: 28995-89-3 HR: 3
1,3,6,8-TETRANITRO NAPHTHALENE
mf: $C_{10}H_4N_4O_8$ mw: 308.18
$C_{10}H_4(NO_2)_4$
PROP: Yellow or white needles from EtOH or C_6H_6. Crystals. Mp: 200° (approx), bp: explodes.
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate ENMUDM 3,499,81
SAFETY PROFILE: Mutation data reported. A shock- and heat-sensitive explosive. A very dangerous fire hazard. Tetranitronaphthalene is a much used high explosive equal to but somewhat less sensitive to impact than TNT. Incompatible with reducing materials. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS, and EXPLOSIVES, HIGH.

TDY600 CAS: 641-16-7 HR: 3
2,3,4,6-TETRANITROPHENOL
mf: $C_6H_2N_4O_9$ mw: 274.12
PROP: Pale-yellow crystals from $CHCl_3$. Mp: 140°.
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: A powerful explosive. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

TDY650 CAS: 28767-61-5 HR: D
1,3,6,8-TETRANITROPYRENE
mf: $C_{16}H_6N_4O_8$ mw: 382.26
SYN: PYRENE, 1,3,6,8-TETRANITRO-
TOXICITY DATA with REFERENCE:
mmo-sat 1 nmol/plate SCIEAS 209,1039,80
dnr-bcs 1 µg/disc MUREAV 174,89,86
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

TDY775 HR: 3
trans-1,4,5,8-TETRANITRO-1,4,5,8-TETRAAZ-ADECAHYDRONAPHTHALENE
mf: $C_6H_{10}N_8O_8$ mw: 322.19
SAFETY PROFILE: An explosive. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

TDY790 CAS: 3590-84-9 HR: 1
TETRA-n-OCTYLSTANNANE
mf: $C_{32}H_{68}Sn$ mw: 571.69
PROP: Yellowish liquid. D: 0.96 g/cm^3 Insol in water.
SYNS: STANNANE, TETRAOCTYL- □ TETRAOCTYL-STANNANE □ TETRAOCTYLTIN □ TETRA-n-OCTYLTIN □ TIN, TETRAOCTYL-

TOXICITY DATA with REFERENCE:
par-mus LDLo:34 g/kg COREAF 239,1091,54
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by parenteral route. When heated to decomposition it emits toxic vapors of Sn.

TDY795 CAS: 3590-84-9 HR: 1
TETRA-n-OCTYLTIN
mf: $C_{32}H_{68}Sn$ mw: 571.69
PROP: Clear to straw liquid wit a mild odor. Bp: 224° @ 1mm Hg. Decomposes >270. Insol in water.
SYNS: STANNANE, TETRAOCTYL- □ TETRAOCTYLSTANNANE □ TETRA-n-OCTYLSTANNANE □ TETRAOCTYLTIN □ TIN, TETRAOCTYL-
TOXICITY DATA with REFERENCE:
par-mus LDLo:34 g/kg COREAF 239,1091,54
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by parenteral route. When heated to decomposition it emits toxic vapors of Sn.

TDY800 CAS: 765-12-8 HR: 1
3,6,9,12-TETRAOXATETRADECA-1,13-DIENE
mf: $C_{10}H_{18}O_4$ mw: 202.28
SYNS: DIVINYL ETHER of TRIETHYLENE GLYCOL □ RAPICURE DVE-3 □ TRIETHYLENE GLYCOL DIVINYL ETHER
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5 g/kg JACTDZ 1,34,90
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

TEA250 CAS: 866-97-7 HR: 1
TETRAPENTYLAMMONIUM BROMIDE
mf: $C_{20}H_{44}N{\bullet}Br$ mw: 378.56
PROP: Mp: 100−101°.
SYNS: TETRA-N-AMYLAMMONIUM BROMIDE □ TETRA-N-PENTYLAMMONIUM BROMIDE
TOXICITY DATA with REFERENCE:
dnd-mam:lym 50 mmol/L CBINA8 19,197,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. An irritant. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and Br^-. Hygroscopic. See also BROMIDES.

TEA300 CAS: 507-28-8 HR: 3
TETRAPHENYLARSENIUM CHLORIDE
mf: $C_{24}H_{20}As{\bullet}Cl$ mw: 418.81
PROP: White crystals from EtOAc/Et_2O. Mp: 258−260°. Sol in water, alc, or methanol sltly sol in acetone.
SYNS: ARSONIUM, TETRAPHENYL-, CHLORIDE □ TETRAPHENYLARSONIUM CHLORIDE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:32 mg/kg CSLNX* NX#00643
OSHA PEL: TWA 0.5 mg(As)/m^3
ACGIH TLV: BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of As and Cl^-.

TEA400 CAS: 1450-63-1 HR: 1
1,1,4,4-TETRAPHENYLBUTADIENE
mf: $C_{28}H_{22}$ mw: 358.50
PROP: White powder. Mp: 207−209°. Insol in water.
SYNS: BENZENE, 1,1',1",1'"-(1,3-BUTADIENE-1,4-DIYLIDENE)TETRAKIS- □ 1,1',1",1'"-(1,3-BUTADIENE-1,4-DIYLIDENE)TETRABENZENE □ 1,3-BUTADIENE, 1,1,4,4-TETRAPHENYL- □ TETRAPHENYLBUTADIENE □ TPB
TOXICITY DATA with REFERENCE:
orl-mus LD50:>14 g/kg EJTXAZ 9,99,76
ipr-mus LD50:>10 g/kg EJTXAZ 9,99,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

TEA500 CAS: 63469-15-8 HR: 3
1,1,4,4-TETRAPHENYL-1,4-BUTANEDIOL
mf: $C_{28}H_{26}O_2$ mw: 394.54
TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#02184
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes.

TEA550 CAS: 18440-21-6 HR: 2
N,N′,1,3-TETRAPHENYL-1,3,2,4-DIAZADIPHOSPHETIDINE-2,4-DIAMINE
mf: $C_{24}H_{22}N_4P_2$ mw: 428.44
SYNS: 1,3,2,4-DIAZADIPHOSPHETIDINE, 2,4-DIANILINO-1,3-DIPHENYL-(8CI) □ 1,3,2,4-DIAZADIPHOSPHETIDINE-2,4-DIAMINE, N,N',1,3-TETRAPHENYL- □ 1,3,2,4-DIAZAPHOSPHETIDINE , 2,4-DIANILINO-1,3-DIPHENYL -(7CI) □ VTS 1
TOXICITY DATA with REFERENCE:
orl-rat LDLo:3700 mg/kg GTPZAB 20(7),58,76
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and PO_x.

TEA600 CAS: 464-72-2 HR: 1
1,1,2,2-TETRAPHENYLETHYLENE GLYCOL
mf: $C_{26}H_{22}O_2$ mw: 366.48
PROP: White solid. Mp: 190−192°. Insol in water; sol in acetone and chloroform.
SYNS: BENZOPHENONE PINACOL □ BENZOPINACOL □ BENZOPINACONE □ α-α'-BIBENZHYDROL □ 1,2-ETHANEDIOL, 1,1,2,2-TETRAPHENYL- □ TETRAPHENYL-1,2-ETHANEDIOL □ 1,1,2,2-TETRAPHENYL-1,2-ETHANEDIOL □ TETRAPHENYLETHYLENE GLYCOL
TOXICITY DATA with REFERENCE:

orl-mus LD50:>10 g/kg EJTXAZ 9,99,76
ipr-mus LD50:>8 g/kg EJTXAZ 9,99,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

TEA750 CAS: 630-76-2 HR: 2
TETRAPHENYL METHANE
mf: $C_{25}H_{20}$ mw: 320.45
PROP: Rhombic crystals from cold benzene. Mp: 285°, bp: 431°. Insol in ligroin, alc, ether, acetic acid; sol in hot benzene.
SYN: 1,1',1",1'"-METHANETETRAYLTETRAKISBENZENE
TOXICITY DATA with REFERENCE:
skn-mus TDLo:920 mg/kg/23W-I:ETA AJCAA7 26,754,36
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

TEB750 HR: 2
TETRAPHOSPHORUS IODIDE
mf: IP_4 mw: 250.90
SAFETY PROFILE: Very irritating and toxic. Incompatible with nitric acid. When heated to decomposition it emits very toxic fumes of I^- and PO_x. See also PHOSPHIDES and IODIDES.

TEC000 CAS: 1314-86-9 HR: 3
TETRAPHOSPHORUS TRISELENIDE
mf: P_4Se_3 mw: 260.78
PROP: Yellow to red-orange (orange-brown) needles from C_6H_6. Slowly liberates H_2Se in air. Mp: 246°, bp: 360−400°. Sol in CS_2, warm $CHCl_3$, CCl_4, Me_2CO and C_6H_6.
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: Many selenium compounds are poisons. Ignites when heated in air. When heated to decomposition it emits very toxic fumes of PO_x and Se. See also PHOSPHIDES and SELENIUM COMPOUNDS.

TEC100 CAS: 7320-34-5 HR: D
TETRAPOTASSIUM DIPHOSPHORATE
mf: O_7P_2•4K mw: 330.34
PROP: Clear liquid, fragrant odor. Bp: 205° F, d: 1.03.
SYNS: DIPHOSPHORIC ACID, TETRAPOTASSIUM SALT □ POTASSIUM PYROPHOSPHATE □ TKPP
CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration. Reported in EPA TSCA Inventory.
SAFETY PROFILE: A pesticide with unreported toxicity.

TEC250 CAS: 14860-53-8 HR: 2
TETRAPOTASSIUM ETIDRONATE
mf: $C_2H_4O_7P_2$•4K mw: 358.40
SYNS: ETHANE-1-HYDROXY-1,1-DIPHOSPHONIC ACID, TETRAPOTASSIUM SALT □ (1-HYDROXYETHYLIDENE)DIPHOSPHONIC ACID, TETRAPOTASSIUM SALT
TOXICITY DATA with REFERENCE:
orl-rat LD50:520 mg/kg TXAPA9 22,661,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of PO_x and K_2O.

TEC500 CAS: 13943-58-3 HR: 1
TETRAPOTASSIUM HEXACYANOFERRATE
mf: C_6FeN_6•4K mw: 368.37
PROP: Pale-yellow crystals.
SYNS: FERRATE(4-), HEXACYANO-, TETRAPOTASSIUM □ FERRATE(4-), HEXAKIS(CYANO-C)-, TETRAPOTASSIUM, (OC-6-11)- □ POTASSIUM FERROCYANATE □ POTASSIUM FERROCYANIDE □ POTASSIUM HEXACYANOFERRATE □ POTASSIUM HEXACYANOFERRATE(II) □ TETRAPOTASSIUM FERROCYANIDE □ TETRAPOTASSIUM HEXACYANO-FERRATE(II) □ TETRAPOTASSIUM HEXACYANOFERRATE(4-)
TOXICITY DATA with REFERENCE:
orl-rat LD50:6400 mg/kg GISAAA 51(4),23,86
orl-mus LD50:5 g/kg GISAAA 51(4),23,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.

TEC600 CAS: 26544-38-7 HR: 2
TETRAPROPENYLSUCCINIC ANHYDRIDE
mf: $C_{16}H_{26}O_3$ mw: 266.42
PROP: Clear pale yellow viscous fluid with slight odor. Bp: 350°, d: 1.005. Flash pt: 333° C.
SYNS: DIHYDRO-3-(TETRAPROPENYL)-2,5-FURANDIONE □ 2,5-FURANDIONE, DIHYDRO-3-(TETRAPROPENYL)-(9CI) □ RD 174 □ SUCCINIC ANHYDRIDE, (TETRAPROPENYL)-
TOXICITY DATA with REFERENCE:
orl-rat LD50:2550 mg/kg 34ZIAG -,581,69
skn-rbt LD50:6200 mg/kg 34ZIAG -,581,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

TEC750 CAS: 1941-30-6 HR: D
TETRAPROPYLAMMONIUM BROMIDE
mf: $C_{12}H_{28}N$•Br mw: 266.32
PROP: Crystals. Mp: 270−285° (decomp).
TOXICITY DATA with REFERENCE:
dnd-mam:lym 50 mmol/L CBINA8 19,197,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and Br^-. See also BROMIDES.

TED000 CAS: 4499-86-9 HR: 3
TETRAPROPYLAMMONIUM HYDROXIDE
mf: $C_{12}H_{28}N•HO$ mw: 203.42
PROP: Refr index: 1.3716, d: 1.012, flash p: none.
SYNS: TETRA-N-PROPYLAMMONIUM HYDROXIDE ◻ TETRAPROPYLAMMONIUM OXIDE ◻ N,N,N-TRIPROPYL-1-PROPANAMINIUM HYDROXIDE
TOXICITY DATA with REFERENCE:
scu-mus LDLo:52 mg/kg JPETAB 28,367,26
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by subcutaneous route. A corrosive.When heated to decomposition it emits toxic fumes of NO_x and NH_3.

TED250 CAS: 631-40-3 HR: 3
TETRAPROPYLAMMONIUM IODIDE
mf: $C_{12}H_{28}N•I$ mw: 313.31
PROP: Mp: 283° (decomp). Hygroscopic.
SYN: TETRA-N-PROPYLAMMONIUM IODIDE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:5600 µg/kg CSLNX* NX#00822
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. An irritant. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and I^-. See also IODIDES.

TED500 CAS: 3244-90-4 HR: 3
TETRA-n-PROPYL DITHIOPYROPHOSPHATE
mf: $C_{12}H_{28}O_5P_2S_2$ mw: 378.46
PROP: Amber liquid. D: 1.12 @ 25°/4°, bp: 104° @ 0.1 mm. Spar sol in H_2O and pet ether.
SYNS: A 42 ◻ ASP 51 ◻ ASPON ◻ BIS-O,O-DI-n-PROPYL-PHOSPHOROTHIONIC ANHYDRIDE ◻ ENT 16,894 ◻ NPD ◻ PROPYL THIOPYROPHOSPHATE ◻ STAUFFER ASP-51 ◻ TETRA-n-PROPYL DITHIONOPYROPHOSPHATE ◻ O,O,O,O-TETRAPROPYL DITHIOPYROPHOSPHATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:450 mg/kg WRPCA2 9,119,70
skn-rat LD50:1800 mg/kg TXAPA9 2,88,60
ipr-rat LD50:1100 mg/kg AMIHBC 8,350,53
orl-ckn LD50:436 mg/kg TXAPA9 6,147,64
ipr-mus LD50:8 mg/kg CJCHAG 34,1819,56
ivn-mus LD50:3250 µg/kg CJCHAG 34,1819,56
ims-mus LD50:4410 µg/kg CJCHAG 34,1819,56
skn-rbt LD50:3830 mg/kg 31ZOAD 1,42,68
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intramuscular, intravenous, and intraperitoneal routes. Moderately toxic by ingestion and skin contact. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. Used as a pesticide to control chinch bugs and sod webworm in lawns and on turfs.

TED550 CAS: 11067-81-5 HR: 2
TETRAPROPYLENE BENZENESULFONATE
mf: $C_{18}H_{30}O_3S$ mw: 326.54
SYN: BENZENESULFONIC ACID, TETRAPROPYLENE-
TOXICITY DATA with REFERENCE:
orl-rat LD50:1 g/kg TXAPA9 18,83,71
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of SO_x.

TED600 CAS: 13274-42-5 HR: 3
TETRAPROPYLENEPENTAMINE
mf: $C_{12}H_{31}N_5$ mw: 245.48
SYNS: N-(3-AMINOPROPYL)-N'-(3-((3-AMINOPROPYL)-AMINO)PROPYL)-1,3-PROPANEDIAMINE ◻ CALDO-PENTAMINE ◻ DIPROPYLAMINE, 3,3'-BIS((3-(AMINO-PROPYL))AMINO)- ◻ 1,3-PROPANEDIAMINE, N-(3-AMINOPROPYL)-N'-(3-((3-AMINOPROPYL)AMINO)PROPYL)- ◻ TETRATRIMETHYLENEPENTAMINE
TOXICITY DATA with REFERENCE:
skn-rbt 10 µL/24H MOD NTIS** OTS0534559
eye-rbt 5 µL SEV NTIS** OTS0534559
orl-rat LD50:1070 µL/kg NTIS** OTS0534559
skn-rbt LD50:100 µL/kg NTIS** OTS0534559
SAFETY PROFILE: A poison by ingestion and skin contact. A moderate skin and severe eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

TED650 CAS: 994-65-0 HR: 1
TETRAPROPYLGERMANE
mf: $C_{12}H_{28}Ge$ mw: 244.99
SYNS: GERMANE, TETRAPROPYL- ◻ TETRAPROPYLGERMANIUM
TOXICITY DATA with REFERENCE:
orl-rat LD50:>12 g/kg CHDDAT 262,1302,66
ipr-rat LD50:12 g/kg 85JCAE -,1243,86
orl-mus LD50:>20 g/kg CHDDAT 262,1302,66
ipr-mus LD50:5640 mg/kg 85JCAE -,1243,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Slightly toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of Ge^-.

TED750 CAS: 3440-75-3 HR: 3
TETRAPROPYL LEAD
mf: $C_{12}H_{28}Pb$ mw: 379.59
PROP: Colorless liquid. D: 1.44, bp: 126° @ 13 mm. Sol in benzene.
TOXICITY DATA with REFERENCE:
orl-rat LDLo:395 mg/kg BJIMAG 18,277,61
par-rat LD50:200 mg/kg AOHYA3 3,226,61
CONSENSUS REPORTS: Lead and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and parenteral routes. When heated to decomposition it emits toxic fumes of Pb. See also LEAD COMPOUNDS.

TEE000 CAS: 12033-88-4 HR: 3
TETRASELENIUM TETRANITRIDE
mf: N_4Se_4 mw: 371.87

PROP: Crystalline red colored solid. Mp: explodes on warming.
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: Many selenium compounds are poisons. An explosive very sensitive to compression or heating to 130−230°C. Explodes on contact with bromine, chlorine, halogen derivatives, fuming hydrochloric acid. When heated to decomposition it emits very toxic fumes of NO_x and Se. See also SELENIUM COMPOUNDS.

TEE100 HR: 3
TETRASILVER DIIMIDOTRIPHOSPHATE
mf: $Ag_4H_3N_2O_8P_3$ mw: 683.43
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 heat. Ignites on contact with sulfuric acid. When heated to decomposition it emits toxic fumes of PO_x and NO_x. See also SILVER COMPOUNDS.

TEE125 HR: 3
TETRASILVER ORTHODIAMIDOPHOSPHATE
mf: $Ag_5H_2N_2O_3P$ mw: 648.34
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 heat, friction, or contact with sulfuric acid. When heated to decomposition it emits toxic fumes of PO_x and NO_x. See also SILVER COMPOUNDS.

TEE225 HR: 3
TETRASODIUM BIS(CITRATE(3^-)FERRATE(4^-))
mf: $C_{12}H_{10}FeNa_4O_{14}$ mw: 526.03
SYNS: SCF ◻ TETRASODIUM BISCITRATO FERRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:4 g/kg KSRNAM 19,5762,85
ipr-rat LD50:680 mg/kg KSRNAM 19,5762,85
scu-rat LD50:350 mg/kg KSRNAM 19,5762,85
orl-mus LD50:2400 mg/kg KSRNAM 19,5762,85
ipr-mus LD50:155 mg/kg KSRNAM 19,5762,85
scu-mus LD50:150 mg/kg KSRNAM 19,5762,85
SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

TEE250 CAS: 3794-83-0 HR: 2
TETRASODIUM ETIDRONATE
mf: $C_2H_4O_7P_2$•4Na mw: 293.96
PROP: Water softener, fragrance.
SYNS: ETHANE-1-HYDROXY-1,1-DIPHOSPHONIC ACID, TRATRASODIUM SALT ◻ (1-HYDROXYETHYLIDENE)-DIPHOSPHONIC ACID, TETRASODIUM SALT
TOXICITY DATA with REFERENCE:
orl-rat LD50:990 mg/kg TXAPA9 22,661,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of PO_x and Na_2O.

TEE300 CAS: 4719-75-9 HR: D
TETRASODIUM FOSFESTROL
mf: $C_{18}H_{18}O_8P_2$•4Na mw: 516.26
SYNS: α,α'-DIETHYL-4,4'-STILBENEDIOL BIS(DIHYDROGEN PHOSPHATE) ◻ DIETHYLSTILBESTROL DIPHOSPHATE TETRASODIUM ◻ DIETHYLSTILBESTROL PHOSPHATE TETRASODIUM ◻ 4,4'-DIHYDROXY-α,α'-DIETHYL-STILBEN-DIPHOSPHATE TETRASODIUM ◻ FOSFESTROL TETRASODIUM ◻ HONVAN TETRASODIUMTETRASODIUM SALT, (E)- ◻ TETRASODIUM DIETHYLSTILBESTROL PHOSPHATE
TOXICITY DATA with REFERENCE:
dlt-mus-ipr 600 mg/kg ARTODN 42,171,79
spm-mus-ipr 300 mg/kg ARTODN 42,171,79
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of PO_x and Na_2O. See also DIETHYLSTILBESTEROL.

TEE400 CAS: 66669-53-2 HR: 2
TETRASODIUM HYDROGEN 2-PHOSPHONATO-BUTANE-1,2,4-TRICARBOXYLATE
mf: $C_7H_7O_9P$•4Na mw: 358.07
SYN: 1,2,4-BUTANETRICARBOXYLIC ACID, 2-PHOSPHONO-, TETRASODIUM SALT
TOXICITY DATA with REFERENCE:
orl-rat LD50:>4 g/kg IJTOFN 19,341,2000
skn-rat LD50:>4 g/kg IJTOFN 19,341,2000
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic vapors of PO_x.

TEE500 CAS: 7722-88-5 HR: 3
TETRASODIUM PYROPHOSPHATE
mf: O_7P_2•4Na mw: 265.90
PROP: White orthorhombic crystalline powder. Mp: 993°, d: 2.534. Sol in water; insol in alc.
SYNS: NATRIUMPYROPHOSPHAT ◻ PHOSPHOTEX ◻ PYROPHOSPHATE ◻ SODIUM PYROPHOSPHATE (FCC) ◻ TETRANATRIUMPYROPHOSPHAT (GERMAN) ◻ TETRASODIUM DIPHOSPHATE ◻ TETRASODIUM PYROPHOSPHATE, ANHYDROUS ◻ TSPP ◻ VICTOR TSPP
TOXICITY DATA with REFERENCE:
orl-rat LD50:4000 mg/kg ARZNAD 7,172,57
ipr-rat LD50:59 mg/kg JPETAB 108,117,53
ivn-rat LD50:100 mg/kg ARZNAD 7,172,57
orl-mus LDLo:40 mg/kg AEPPAE 169,238,33
ipr-mus LD50:380 mg/kg REPMBN 10,391,62
scu-mus LD50:400 mg/kg ARZNAD 7,445,57
ivn-mus LD50:69 mg/kg ARZNAD 7,445,57
ivn-rbt LDLo:50 mg/kg AEPPAE 169,238,33
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 5 mg/m^3
ACGIH TLV: TWA 5 mg/m^3
SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. It is not a cholinesterase inhibitor. When heated to decomposition it emits toxic fumes of PO_x and Na_2O.

TEE750 CAS: 32607-15-1 HR: 3
TETRASULFUR DINITRIDE
mf: N_2S_4 mw: 156.27

SAFETY PROFILE: Explodes when heated to 100°C. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also NITRIDES.

TEF250 CAS: 866-87-5 HR: 3
TETRAVINYLLEAD
mf: $C_8H_{12}Pb$ mw: 315.33
$(H_2C{=}CH)_4Pb$
CONSENSUS REPORTS: Lead and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Violent explosions occur in preparation. Potentially explosive reaction with diborane, phosphorus trichloride. When heated to decomposition it emits toxic fumes of Pb. See also LEAD COMPOUNDS.

TEF500 CAS: 109-27-3 HR: 3
TETRAZENE
DOT: UN 0114
mf: $C_2H_8N_{10}O$ mw: 188.20
PROP: Crystals.
SYNS: 4-AMIDINO-1-(NITROSAMINOAMIDINO)-1-TETRAZENE □ 4-AMIDINO-1-(NITROSOAMINOAMIDINO)-1-TETRAZENE □ GUANYL NITROSAMINO GUANYL TETRAZENE □ 1-GUANYL-4-NITROSAMINOGUANYL-TETRAZENE □ GUANYL NITROSAMINOGUANYLTETRAZ-ENE (dry) (DOT) □ GUANYL NITROSAMINOGUANYLTETR-AZENE, wetted or tetrazene, wetted with not <30% water or (DOT) □ TETRACENE □ TETRACENE EXPLOSIVE □ 1-TETRAZENE, 4-AMIDINO-1-(NITRSOAMINOAMIDINO)-(8CI)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: Forbidden (dry); Explosive 1.1A; Label: Explosive 1.1A
SAFETY PROFILE: Many nitrosamines are carcinogens. A very dangerous fire hazard. A shock- and heat-sensitive high explosive that evolves much flame. Highly dangerous. Upon decomposition it emits highly toxic fumes of NO_x. See also NITROSAMINES and EXPLOSIVES, HIGH.

TEF600 CAS: 70816-59-0 HR: 3
1,2,4,5-TETRAZINE
mf: $C_2H_2N_4$ mw: 82.06
PROP: Crimson crystals. Mp: 99°. Sol in H_2O, EtOH and Et_2O.
SYN: TETRAZINE (dry) (DOT)
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: An unstable substance forbidden from transport. The solid reacts violently on contact with sulfuric acid. When heated to decomposition it emits toxic fumes of NO_x.

TEF650 CAS: 288-94-8 HR: 3
TETRAZOL
mf: CH_2N_4 mw: 70.05
PROP: White crystalline odorless powder. Mp: 154−158°.
SAFETY PROFILE: Explodes when heated above 155°C. When heated to decomposition it emits toxic fumes of NO_x.

TEF675 CAS: 27275-90-7 HR: 3
TETRAZOLE-5-DIAZONIUM CHLORIDE
mf: $CHClN_6$ mw: 132.51
SAFETY PROFILE: The crystals are an extremely shock- and friction-sensitive explosive, which may explode when touched. Solutions in ether may explode. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

TEF700 CAS: 63074-08-8 HR: 3
TETRAZOSIN HYDROCHLORIDE DIHYDRATE
mf: $C_{19}H_{25}N_5O_4{\bullet}ClH{\bullet}2H_2O$ mw: 459.99
SYNS: A-45975 □ 1-(4-AMINO-6,7-DIMETHOXY-2-QUINAZOLINYL)-4-((TETRAHYDRO-2-FURANYL)CARBON YL)PIPERAZINE HCl $2H_2O$ □ HYTRIN □ PIPERAZINE, 1-(4-AMINO-6,7-DIMETHOXY-2-QUINAZOLINYL)-4-((TETRA-HYDRO-2-FURANYL)CARBONYL)-, MONOHYDROCHLORIDE, DIHYDRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:5500 mg/kg NCDREP 4,1,86
scu-rat LD50:1050 mg/kg IYKEDH 18,505,87
ivn-rat LD50:255 mg/kg NCDREP 4,1,86
scu-mus LD50:956 mg/kg IYKEDH 18,505,87
ivn-mus LD50:237 mg/kg IYKEDH 18,505,87
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

TEF725 CAS: 73666-84-9 HR: 3
TETROCARCIN A
mf: $C_{67}H_{96}N_2O_{24}$ mw: 1313.65
PROP: A solid. Mp: 199−204° (decomp).
SYNS: ANTIBIOTIC DC 11 □ ANTLERMICIN A □ DC-11
TOXICITY DATA with REFERENCE:
dni-bcs 40 mg/L ABCHA6 48,419,84
oms-bcs 10 mg/L JANTAJ 33,946,80
dni-mus:lym 30 µmol/L JANTAJ 35,1033,82
oms-mus:lym 30 µmol/L JANTAJ 35,1033,82
ipr-mus LD50:54,200 µg/kg JANTAJ 35,1033,82
ivn-mus LD50:64 mg/kg JANTAJ 35,1033,82
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TEF750 CAS: 120-54-7 HR: 3
TETRONE A
mf: $C_{12}H_{20}N_2S_6$ mw: 384.70

SYNS: BIS(PENTAMETHYLENETHIURAM)-TETRASULFIDE ◻ BIS(PIPERIDINOTHIOCARBONYL) TETRASULFIDE ◻ DIPENTAMETHYLENETHIURAM TETRASULFIDE ◻ USAF B-31

TOXICITY DATA with REFERENCE:
ipr-mus LD50:200 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TEF775 CAS: 83-93-2 HR: 3
TETROPHINE
mf: $C_{18}H_{13}NO_2$ mw: 275.32

PROP: Pale yellow needles or crystals from MeOH. Decomp at 252°. Insol in water; sol in glacial acetic acid; mod sol in tetralin; sparingly sol in alc; practically insol in benzene, ether. Mineral acids form incompletely sol, yellow salts which are hydrolyzed by water. Has strychnine-like activity.

SYNS: 5,6-DIHYDROBENZ(c)ACRIDINE-7-CARBOXYLIC ACID ◻ TETRAPHAN ◻ TETROFAN ◻ TETROPHAN

TOXICITY DATA with REFERENCE:
ipr-mus LD50:760 mg/kg JPETAB 113,27,55
ivn-rbt LDLo:40 mg/kg JPETAB 113,371,55

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

TEG250 CAS: 479-45-8 HR: 3
TETRYL
DOT: UN 0208
mf: $C_7H_5N_5O_8$ mw: 287.17

PROP: Yellow, monoclinic crystals or prisms from EtOH. Mp: 131−132°, bp: explodes @ 187°, d: 1.57 @ 19°. Spar sol in EtOH. IDLH 750 mg/m^3.

SYNS: BENZENAMINE, N-METHYL-N,2,4,6-TETRANITRO-(9CI) ◻ CE ◻ N-METHYL-N,2,4,6-TETRANITROANILINE ◻ N-METHYL-N,2,4,6-TETRANITROBENZENAMINE ◻ NITRAMINE ◻ PICRYLMETHYLNITRAMINE ◻ PICRYLNITROMETHYL-AMINE ◻ TETRALIT ◻ TETRALITE ◻ N,2,4,5-TETRANITRO-N-METHYLANILINE ◻ TETRIL ◻ 2,4,6-TETRYL ◻ TRINITRO-PHENYLMETHYLNITRAMINE ◻ 2,4,6-TRINITROPHENYL-METHYLNITRAMINE ◻ 2,4,6-TRINITROPHENYL-N-METHYLNITRAMINE

TOXICITY DATA with REFERENCE:
mmo-sat 2500 ng/plate TOLED5 5,11,80
mma-sat 2500 ng/plate TOLED5 5,11,80
mmo-nsc 5 µg/plate TOLED5 5,11,80
mrc-smc 5 µg/plate TOLED5 5,11,80
scu-dog LDLo:5000 mg/kg JIDHAN 2,247,20

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

ACGIH TLV: TWA 1.5 mg/m^3

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

SAFETY PROFILE: Mutation data reported. An irritant, sensitizer, and allergen. The chief effect from exposure is dermatitis. Conjunctivitis is followed by iridocyclitis, and keratitis can occur. Sensitization produced by exposure may play a part in these symptoms. Gastrointestinal effects and anemia have also been reported.

A powerful oxidant. A dangerous fire and explosion hazard. A high explosive sensitive to shock, friction, or heat. More sensitive to shock and friction than TNT. Explodes on contact with trioxygen difluoride. Ignites on contact with hydrazine. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES and EXPLOSIVES, HIGH.

TEG500 CAS: 25265-77-4 HR: 2
TEXANOL
mf: $C_{12}H_{24}O_3$ mw: 216.36

SYN: 2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISO-BUTYRATE

TOXICITY DATA with REFERENCE:
orl-rat LDLo:3200 mg/kg KODAK* -,-,71
orl-mus LDLo:3200 mg/kg KODAK* -,-,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TEG650 HR: 3
TEXTILOTOXIN

SYNS: AUSTRALIAN BROWN SNAKE VENOM ◻ PSEUDONAJA TEXTILIS VENOM ◻ TEXTILON (OBS.) ◻ VENOM, AUSTRALIAN SNAKE, PSEUDONAJA TEXTILIS

TOXICITY DATA with REFERENCE:
ipr-mus LD50:310 µg/kg TOXIA6 17(Suppl 1),121,79
scu-mus LD50:41 µg/kg TOXIA6 17,661,79
ivn-mus LD50:1 µg/kg TOXIA6 21,143,83
ims-frg LDLo:500 µg/kg TOXIA6 19,749,81

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

TEG750 CAS: 102418-16-6 HR: 3
THAIMYCIN B

PROP: One of a complex of antibiotics produced by *Streptomyces michiganensis var. amylolyticus* (85ERAY 2,1109,78).

TOXICITY DATA with REFERENCE:
orl-mus LD50:250 mg/kg 85ERAY 2,1109,78
ipr-mus LD50:5 mg/kg 85ERAY 2,1109,78

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes.

TEH000 CAS: 102418-17-7 HR: 3
THAIMYCIN C

PROP: One of a complex of antibiotics produced by *Streptomyces michiganensis var. amylolyticus* (85ERAY 2,1109,78).

TOXICITY DATA with REFERENCE:
orl-mus LD50:250 mg/kg 85ERAY 2,1109,78
ipr-mus LD50:250 mg/kg 85ERAY 2,1109,78

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes.

TEH250 CAS: 5373-42-2 HR: 3
THALICARPINE

mf: $C_{41}H_{48}N_2O_8$ mw: 696.91
PROP: Needles or crystals from EtOH (aq) or Et_2O. Mp: 160−161°. Alkaloid from *Thalictrum dasycarpum*.
SYNS: NSC-68075 □ NY IV-34-1 □ TALIBLASTIN □ TALIBLASTINE □ THALIBLASTINE □ THALICARPIN □ (+)-THALICARPINE
TOXICITY DATA with REFERENCE:
dni-rat:leu 20 mg/L MUREAV 147 303,85
dnd-mam:lym 125 µg/L JPMSAE 63,474,74
orl-rat LD50:1500 mg/kg DBANAD 28,709,75
ipr-rat LD50:140 mg/kg NTIS** JAN 86
ivn-rat LD50:78,300 µg/kg DBANAD 28,709,75
orl-mus LD50:1542 mg/kg NCIAL* -,60,69
ipr-mus LD50:247 mg/kg TXAPA9 17,284,70
ivn-mus LD50:43,700 µg/kg NTIS** PB82-166299
ivn-mky LDLo:42 mg/kg TXAPA9 22,304,72
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TEH500 CAS: 50-35-1 HR: 3
THALIDOMIDE
mf: $C_{13}H_{10}N_2O_4$ mw: 258.25
PROP: Needles. Mp: 269−271°. Sltly sol in water, methanol, ethanol, acetone, ethylacrylate; very sol in dioxane; sol in ether.
SYNS: ALGOSEDIV □ ASIDON 3 □ ASMADION □ ASMAVAL □ BONBRAIN □ CALMORE □ CALMOREX □ CONTERGAN □ CORRONAROBETIN □ 2,6-DIOXO-3-PHTHALIMIDO-PIPERIDINE □ 2-(2-6-DIOXO-3-PIPERIDINYL)1H-ISOINDOLE-1,3(2H)-DIONE □ N-(2,6-DIOXO-3-PIPERIDYL)PHTHALIMIDE □ DISTAVAL □ DISTAXAL □ DISTOVAL □ ECTILURAN □ ENTEROSEDIV □ GASTRINIDE □ GLUPAN □ GLUTANON □ GRIPPEX □ HIPPUZON □ IMIDA-LAB □ IMIDAN (PEYTA) □ IMIDENE □ ISOMIN □ K 17 □ KEDAVON □ KEVADON □ LULAMIN □ NEAUFATIN □ NEO □ NEOSEDYN □ NEOSYDYN □ NEURODYN □ NEUROSEDIN □ NEVRODYN □ NIBROL □ NOCTOSEDIV □ NOXODYN □ NSC-66847 □ PANGUL □ PANTOSEDIV □ α-PHTHALIMIDOGLUTARIMIDE □ α-(N-PHTHALIMIDO)GLUTARIMIDE □ 2-PHTHALIMIDO-GLUTARIMIDE □ 3-PHTHALIMIDOGLUTARIMIDE □ N-PHTHALOYLGLUTAMIMIDE □ N-PHTHALYLGLUTAMIC ACID IMIDE □ N-PHTHALYL-GLUTAMINSAEURE-IMID (GERMAN) □ α-N-PHTHALYLGLUTARAMIDE □ POLY-GIRON □ POLYGRIPAN □ PREDNI-SEDIV □ PRO-BAN M □ PROFARMIL □ PSYCHOLIQUID □ PSYCHOTABLETS □ QUETIMID □ QUIETOPLEX □ SANDORMIN □ SEDALIS SEDI-LAB □ SEDIMIDE □ SEDIN □ SEDISPERIL □ SEDOVAL □ SHIN-NAITO S □ SHINNIBROL □ SLEEPAN □ SLIPRO □ SOFTENIL □ SOFTENON □ TALARGAN □ TALIMOL □ TELAGAN □ TELARGAN □ TELARGEAN □ TENSIVAL □ THALIN □ THALINETTE □ THEOPHILCHOLINE □ ULCERFEN □ VALGIS □ VALGRAINE □ YODOMIN
TOXICITY DATA with REFERENCE:
cyt-hmn:lym 1 mg/L AMSVAZ 177,783,65
dns-rat-ipr 80 mg/kg JPETAB 171,109,70
orl-rat LD50:113 mg/kg TXAPA9 14,515,69
skn-rat LD50:1550 mg/kg TXAPA9 14,515,69
orl-mus LD50:2000 mg/kg LIFSAK 3,721,64
ipr-mus LDLo:800 mg/kg TXAPA9 23,288,72
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact and intraperitoneal routes. Human teratogenic effects by ingestion: developmental abnormalities of the musculoskeletal and cardiovascular systems. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic and teratogenic data. Human mutation data reported. It was commonly used as a prescription drug in Europe in the late 1950s and early 1960s. Its use was discontinued because it was discovered to cause serious congenital abnormalities in the fetus, notably amelia and phocomelia (absence or deformity of the limbs, including hands and feet) when taken by a woman during early pregnancy. When heated to decomposition it emits toxic fumes of NO_x. Used as a sedative and hypnotic.

TEH510 CAS: 2614-06-4 HR: 3
(+)-THALIDOMIDE
mf: $C_{13}H_{10}N_2O_4$ mw: 258.25
PROP: Crystals from DMF (aq). Mp: 244°.
SYNS: 1H-ISOINDOLE-1,3(2H)-DIONE,2-(2,6-DIOXO-3-PIPERIDINYL)-, (R)- □ R-(+)-THALIDOMIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:400 mg/kg NATUAS 215,296,67
SAFETY PROFILE: Poison by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also THALIDOMIDE.

TEH520 CAS: 841-67-8 HR: 2
(−)-THALIDOMIDE
mf: $C_{13}H_{10}N_2O_4$ mw: 258.25
PROP: Crystals from DMF (aq). Mp: 244°.
SYNS: (s)-2-(2,6-DIOXO-3-PIPERIDINYL)-1H-ISOINDOLE-1,3(2H)-DIONE □ (±)-THALIDOMIDE □ s-(−)-THALIDOMIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:700 mg/kg NATUAS 215,266,67
SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also THALIDOMIDE.

TEI000 CAS: 7440-28-0 HR: 3
THALLIUM
af: Tl aw: 204.37
PROP: Bluish-white, soft, malleable metal. Tarnishes readily in air. Moderately strong base; reacts with steam or moist air releasing TlOH. Mp: 303.5°, bp: 1457°, d: 11.85 @ 20°, vap press: 1 mm @ 825°. Readily dissolves in dil H_2SO_4 and HNO_3; does not dissolve in basic solns.
SYN: RAMOR
TOXICITY DATA with REFERENCE:
orl-man TDLo:5714 µg/kg:PNS,EYE,SKN ATXKA8 19,65,61
unr-man LDLo:4412 µg/kg 85DCAI 2,73,70
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin)

ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
DFG MAK: 0.1 mg/m^3
SAFETY PROFILE: Human poison by unspecified route. Human systemic effects by ingestion: nerve or sheath structural changes, extra-ocular muscle changes, sweating, and other effects. Flammable in the form of dust when exposed to heat or flame. Violent reaction with F_2. When heated to decomposition it emits toxic fumes of Tl. Used as a rodenticide and fungicide, and in lenses and prisms, in high-density liquids. See also THALLIUM COMPOUNDS and POWDERED METALS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Elements (ICP) 7300.

TEI250 CAS: 563-68-8 HR: 3
THALLIUM ACETATE
mf: $C_2H_3O_2$•Tl mw: 263.42
PROP: Silk-white crystals, or hygroscopic, colorless, light-sensitive monoclinic crystals from EtOH. Mp: 131°, d: 3.68. Sol in water, alc. IDLH 15 mg/m^3 (as Tl).
SYNS: RCRA WASTE NUMBER U214 □ THALLIUM(1+) ACETATE □ THALLIUM(I) ACETATE □ THALLIUM MONOACETATE □ THALLOUS ACETATE
TOXICITY DATA with REFERENCE:
otr-ham:emb 100 µmol/L CNREA8 39,193,79
orl-hmn LDLo:12 mg/kg YAKUD5 22,291,80
unr-hmn LDLo:26 mg/kg AJCPAI 13,422,43
unr-chd LDLo:8 mg/kg AJCPAI 13,422,43
unr-cld LDLo:1400 mg/kg LANCAO 2,1340,30
orl-rat LD50:41,300 µg/kg 85ECAN 2,101,78
ipr-rat LD50:30 mg/kg AIHAAP 21,399,60
orl-mus LD50:35 mg/kg JFALAX 5,15,69
ipr-mus LD50:37 mg/kg TXAPA9 49,41,79
scu-mus LDLo:500 µg/kg EQSSDX 1,1,75
orl-dog LDLo:13 mg/kg HBAMAK 4,1406,35
scu-rbt LDLo:5 mg/kg EQSSDX 1,1,75
ivn-rbt LDLo:26 mg/kg AIHAAP 21,399,60
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
SAFETY PROFILE: Human poison by ingestion. Experimental poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of Tl. See also THALLIUM COMPOUNDS.

TEI500 CAS: 13847-66-0 HR: 3
THALLIUM(I) AZIDE
mf: N_3Tl mw: 246.39
PROP: Yellow crystals from H_2O; reacts with halogens to form TlN_3X_2. Mp: 334°. Sol in H_2O. 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. Can explode on heavy impact or by heating to 350−400°C. A relatively stable azide. When heated to decomposition it emits toxic fumes of NO_x and Tl. See also THALLIUM COMPOUNDS and AZIDES.

TEI600 HR: 3
THALLIUM(I) AZIDODITHIOCARBONATE
mf: CN_3S_2Tl mw: 322.53
PROP: IDLH 15 mg/m^3 (as Tl).
SYN: THALLIUM(I) DITHIOCARBONAZIDATE
CONSENSUS REPORTS: Thallium and its compounds are on The Community Right-To-Know List.
SAFETY PROFILE: Many thallium compounds are poisons. A very unstable explosive salt. Explodes on contact with sulfuric acid. When heated to decomposition it emits toxic fumes of NO_x, Tl, and SO_x. See also THALLIUM COMPOUNDS and AZIDES.

TEI625 CAS: 14550-84-6 HR: 3
THALLIUM BROMATE
mf: BrO_3Tl mw: 332.28
PROP: IDLH 15 mg/m^3 (as Tl).
CONSENSUS REPORTS: Thallium and its compounds are on The Community Right-To-Know List.
SAFETY PROFILE: Many thallium compounds are poisons. Explodes when heated to 140°C. When heated to decomposition it emits toxic fumes of Br^- and Tl. See also THALLIUM COMPOUNDS and BROMATES.

TEI750 CAS: 7789-40-4 HR: 3
THALLIUM BROMIDE
mf: BrTl mw: 284.28
PROP: Air-stable, light-sensitive, yellowish-white powder, solids, or crystals. Mp: 460−480° (approx), bp: 815°, d: 7.557, vap press: 10 mm @ 522°. IDLH 15 mg/m^3 (as Tl).
TOXICITY DATA with REFERENCE:
orl-rat LDLo:35 mg/kg 85GMAT -,110,82
scu-mus LDLo:29 mg/kg TPKVAL 2,94,61
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
SAFETY PROFILE: Poison by ingestion and subcutaneous routes. Reacts violently with Na, K. When heated to decomposition it emits very toxic fumes of Br^- and Tl. See also BROMIDES and THALLIUM COMPOUNDS.

TEJ000 CAS: 6533-73-9 HR: 3
THALLIUM(I) CARBONATE (2:1)
mf: CO_3•2Tl mw: 468.75
PROP: Monoclinic, colorless crystals stable in air to 1°; loses CO_2 on further heating; dissolves acidic oxides. Mp: 273°, d: 7.11. Sol in H_2O; insol in EtOH. IDLH 15 mg/m^3 (as Tl).
SYNS: CARBONIC ACID, DITHALLIUM(1+) SALT □ DITHALLIUM CARBONATE □ RCRA WASTE NUMBER U215 □ THALLOUS CARBONATE □ THIOCHROMAN-4-ONE, OXIME
TOXICITY DATA with REFERENCE:
cyt-rat-orl 100 ng/kg GTPZAB 24(4),54,80

dnd-mus:emb 10 µmol/L MUREAV 124,163,83
orl-rat LDLo:23 mg/kg HYSAAV 29,26,64
skn-rat LD50:117 mg/kg GTPZAB 24(4),54,80
scu-rat LDLo:18 mg/kg TPKVAL 2,94,61
orl-mus LD50:21 mg/kg HYSAAV 29,26,64
scu-mus LD50:27 mg/kg TPKVAL 2,94,61
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
SAFETY PROFILE: Poison by ingestion, skin contact, and subcutaneous routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Tl. See also THALLIUM COMPOUNDS.

TEJ100 CAS: 13453-30-0 HR: 3
THALLIUM CHLORATE
DOT: UN 2573
mf: ClO_3•Tl mw: 287.82
PROP: IDLH 15 mg/m^3 (as Tl).
SYN: CHLORIC ACID, THALLIUM(1+) SALT
ACGIH TLV: TWA 0.1 mg(Tl)/m^3
DOT CLASSIFICATION: 5.1; Label: Oxidizer, Poison
SAFETY PROFILE: A poison and oxidizer. When heated to decomposition it emits toxic fumes of Tl and Cl^-.

TEJ250 CAS: 7791-12-0 HR: 3
THALLIUM CHLORIDE
mf: ClTl mw: 239.82
PROP: Colorless or white powder, or photosensitive crystals from water. Insulator, wide gap (3eV); metallic at high pressures. Mp: 430°, bp: 720°, d: 7.00, vap press: 10 mm @ 517°. Sol in 260 parts cold water, 70 parts boiling water; insol in alc. IDLH 15 mg/m^3 (as Tl).
SYNS: RCRA WASTE NUMBER U216 □ THALLIUM(1+) CHLORIDE □ THALLIUM MONOCHLORIDE □ THALLOUS CHLORIDE
TOXICITY DATA with REFERENCE:
otr-ham:emb 100 µmol/L CNREA8 39,193,79
orl-mus LD50:24 mg/kg HYSAAV 29,26,64
ipr-mus LD50:28 mg/kg COREAF 256,1043,63
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Thallium and its compounds are on the Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. An experimental teratogen. Mutation data reported. Incompatible with F_2. When heated to decomposition it emits very toxic fumes of Cl^- and Tl. See also THALLIUM COMPOUNDS and CHLORIDES.

TEJ500 HR: 3
THALLIUM COMPOUNDS
PROP: IDLH 15 mg/m^3 (as Tl).
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Extremely toxic. The lethal dose for humans by ingestion is 0.5–1.0 g. Effects are cumulative and with continuous exposure toxicity occurs at much lower levels. Major effects are on the nervous system, skin, and cardiovascular tract. The peripheral nervous system can be severely affected with dying-back of the longest sensory and motor fibers. Reproductive organs and the fetus are highly susceptible. Acute poisoning has followed the ingestion of toxic quantities of a thallium-bearing depilatory and accidental or suicidal ingestion of rat poison. Acute poisoning results in swelling of the feet and legs, arthralgia, vomiting, insomnia, hyperesthesia and paresthesia of the hands and feet, mental confusion, polyneuritis with severe pains in the legs and loins, partial paralysis of the legs with reaction of degeneration, angina-like pains, nephritis, wasting and weakness, and lymphocytosis and eosinophilia. About the 18th day, complete loss of the hair on the body and head may occur. Fatal poisoning has been known to occur. Recovery requires months and may be incomplete. Industrial poisoning is reported to have caused discoloration of the hair (which later falls out), joint pain, loss of appetite, fatigue, severe pain in the calves of the legs, albuminuria, eosinophilia, lymphocytosis, and optic neuritis followed by atrophy. Cases of industrial poisoning are rare, however. Thallium is an experimental teratogen. When heated to decomposition thallium compounds emit highly toxic fumes of Tl. See also THALLIUM and specific compounds.

TEJ750 CAS: 28625-02-7 HR: 3
THALLIUM(I) FLUOBORATE
mf: BF_4•Tl mw: 291.18
PROP: Colorless, moisture-sensitive solid. Spar sol in H_2O. IDLH 15 mg/m^3 (as Tl).
SYN: TL 385
TOXICITY DATA with REFERENCE:
orl-rat LDLo:50 mg/kg NCNSA6 5,28,53
ihl-mus LCLo:1870 mg/m^3/10M NDRC** NDCrc-132,Sept,42
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin); 2.5 mg(F)/m^3
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin); 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: (Inorganic Fluorides) TWA 2.5 mg(F)/m^3
SAFETY PROFILE: Poison by ingestion. Moderately toxic by inhalation. When heated to decomposition it emits very toxic fumes of Tl and F^-. See also BORON COMPOUNDS, THALLIUM COMPOUNDS, and FLUORIDES.

TEK000 CAS: 7789-27-7 HR: 3
THALLIUM(I) FLUORIDE
mf: FTl mw: 223.37
PROP: White, air stable solid. Colorless orthorhombic crystals which deliquesce when breathed upon and

resolidify in dry air. Mp: 322°, d: 8.36, bp: 826°. Very sol in water. IDLH 15 mg/m^3 (as Tl).
SYNS: THALLIUM MONOFLUORIDE □ THALLOUS FLUORIDE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:50 mg/kg NCNSA6 5,28,53
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of F^- and Tl. See also THALLIUM COMPOUNDS and FLUORIDES.

TEK100 CAS: 63905-90-8 HR: 3
THALLIUM (I) FLUOROACATATE
mf: $C_2H_2FO_2$•Tl mw: 281.41
PROP: IDLH 15 mg/m^3 (as Tl).
SYN: ACETIC ACID, FLUORO-, THALLIUM(I) SALT
TOXICITY DATA with REFERENCE:
orl-rat LDLo:10 mg/kg NCNSA6 5,7,1953
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of Tl and F^-.

TEK250 CAS: 27685-40-1 HR: 3
THALLIUM(I) FLUOSILICATE
mf: F_6Si•Tl mw: 346.46
PROP: IDLH 15 mg/m^3 (as Tl).
SYN: HEXAFLUORO-SILICATE(2−), THALLIUM
TOXICITY DATA with REFERENCE:
orl-rat LDLo:50 mg/kg NCNSA6 5,1,53
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List.
OSHA PEL:8H TWA 0.1 mg(Tl)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3; TWA 2.5 mg(F)/m^3; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.
NIOSH REL: TWA 2.5 mg(F)/m^3
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of F^- and Tl. See also THALLIUM COMPOUNDS and FLUORIDES.

TEK300 CAS: 20991-79-1 HR: 3
THALLIUM FULMINATE
mf: CNOTl mw: 246.40
PROP: IDLH 15 mg/m^3 (as Tl).
CONSENSUS REPORTS: Thallium and its compounds are on The Community Right-To-Know List.
SAFETY PROFILE: Many thallium compounds are poisons. An explosive more sensitive to shock and heat than mercury fulminate. When heated to decomposition it emits toxic fumes of NO_x and Tl. See also THALLIUM COMPOUNDS and FULMINATES.

TEK500 CAS: 7790-30-9 HR: 3
THALLIUM IODIDE
mf: ITl mw: 331.27
PROP: Triclinic yellow crystals; wide gap (3eV) insulator; metallic at high pressures. Stable to dil HCl and H_2SO_4, but decomp by HNO_3. Photosensitive, becomes gray on exposure to light. D: 7.1, mp: 440°, bp: 824°. Sol in KI soln; practically insol in water; insol in alc. IDLH 15 mg/m^3 (as Tl).
SYNS: THALLIUM(I) IODIDE □ THALLIUM(1+) IODIDE □ THALLIUM MONOIODIDE □ THALLOUS IODIDE
TOXICITY DATA with REFERENCE:
orl-man TDLo:286 mg/kg:BAH CTOXAO 18,521,81
orl-rat LDLo:55 mg/kg 85GMAT -,111,82
scu-mus LDLo:28 mg/kg TPKVAL 2,94,61
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
SAFETY PROFILE: Poison by ingestion and subcutaneous routes. Human systemic effects: blood pressure lowering, change in motor activity, muscle weakness. When heated to decomposition it emits very toxic fumes of Tl and I^-. See also IODIDES and THALLIUM COMPOUNDS.

TEK525 HR: 3
THALLIUM(I) IODOACETYLIDE
mf: C_2ITl mw: 355.31
TlC≡CI
PROP: IDLH 15 mg/m^3 (as Tl).
CONSENSUS REPORTS: Thallium and its compounds are on The Community Right-To-Know List.
SAFETY PROFILE: Many thallium compounds are poisons. A shock- and friction-sensitive explosive. When heated to decomposition it emits toxic fumes of Tl and I^-. See also THALLIUM COMPOUNDS and ACETYLIDES.

TEK750 CAS: 10102-45-1 HR: 3
THALLIUM NITRATE
DOT: UN 2727
mf: NO_3•Tl mw: 266.38
PROP: Cubic crystals or white solids from water. Mp: 206°, bp: 430°, d: 5.55. Decomp @ 450°; decomp at 800−809° *in vacuo* to give Tl_2O, NO, NO_2. IDLH 15 mg/m^3 (as Tl).
SYNS: NITRIC ACID, THALLIUM(1+) SALT □ RCRA WASTE NUMBER U217 □ THALLIUM MONONITRATE □ THALLOUS NITRATE
TOXICITY DATA with REFERENCE:
mrc-bcs 1 mmol/L MUREAV 77,109,80
orl-man TDLo:73 mg/kg:GIT,MET SMEZA5 18(4),37,75
ipr-rat LD50:21 µg/kg AIPTAK 182,425,69
scu-rat LD50:26 mg/kg 85ECAN 2,101,78
orl-mus LD50:15 mg/kg YKYUA6 28,329,77
ipr-mus LD50:37,293 µg/kg TXAPA9 63,461,82
orl-dog LDLo:45 mg/kg HBAMAK 4,1406,35
scu-dog LDLo:15 mg/kg EQSSDX 1,1,75
ivn-dog LDLo:15 mg/kg EQSSDX 1,1,75
ivn-rbt LDLo:14 mg/kg EQSSDX 1,1,75

CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
DOT CLASSIFICATION: 6.1; Label: Poison, Oxidizer
SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. Human systemic effects by ingestion: hypermotility, diarrhea, nausea or vomiting, and dehydration. Mutation data reported. When heated to decomposition it emits very toxic fumes of Tl and NO_x. See also THALLIUM COMPOUNDS and NITRATES.

TEK800 CAS: 13746-98-0 HR: 3
THALLIUM(III) NITRATE
mf: N_3O_9Tl mw: 390.40
PROP: IDLH 15 mg/m^3 (as Tl).
SYNS: NITRIC ACID, THALLIUM(3+) SALT □ THALLIUM(3+) NITRATE □ THALLIC NITRATE □ THALLIUM NITRATE □ THALLIUM NITRATE (TL(NO3)3) □ THALLIUM TRINITRATE
TOXICITY DATA with REFERENCE:
skn-gpg LD50:25 mg/kg NTIS** OTS0555950
SAFETY PROFILE: A poison by skin contact. When heated to decomposition it emits toxic vapors of Tl.

TEL000 HR: 3
THALLIUM(I) NITRIDE
mf: NTl_3 mw: 627.12
PROP: IDLH 15 mg/m^3 (as Tl).
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Many thallium compounds are poisons. A powerful explosive sensitive to shock, heat, or contact with water or dilute acids. When heated to decomposition it emits toxic fumes of NO_x and Tl. See also THALLIUM COMPOUNDS and NITRIDES.

TEL040 CAS: 1314-12-1 HR: 3
THALLIUM OXIDE
mf: OTl_2 mw: 424.74
PROP: Black crystalline solid. Mp: 579°, bp: 1080°, d: 9500 kg/m^3. IDLH 15 mg/m^3 (as Tl).
SYNS: DITHALLIUM OXIDE □ THALLOUS OXIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:40,600 µg/kg 85ECAN 2,101,78
ipr-rat LD50:75 mg/kg 85ECAN 2,101,78
orl-dog LDLo:31,200 µg/kg 85ECAN 2,101,78
ipr-dog LDLo:31,200 µg/kg 85ECAN 2,101,78
orl-rbt LDLo:31,200 µg/kg 85ECAN 2,101,78
ipr-rbt LDLo:62,400 µg/kg 85ECAN 2,101,78
ivn-rbt LDLo:40,600 µg/kg 85ECAN 2,101,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic vapors of Tl.

TEL050 CAS: 1314-32-5 HR: 3
THALLIUM(III) OXIDE
mf: O_3Tl_2 mw: 456.74
PROP: Hexagonal brown-black crystals, amorph prisms, powder, or solid which reacts with $AlCl_3$ to give TlCl; vaporizes to give Tl_2O and O_2. Mp: 717° ± 5°, bp: 1196°, d(amorph): 9.65 @ 21°, d(hexagonal): 10.19 @ 22°. Insol in H_2O; decomp in acids. IDLH 15 mg/m^3 (as Tl).
SYNS: DITHALLIUM TRIOXIDE □ RCRA WASTE NUMBER P113 □ THALLIC OXIDE □ THALLIUM OXIDE □ THALLIUM(3+) OXIDE □ THALLIUM PEROXIDE □ THALLIUM SESQUIOXIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:44 mg/kg AIHAAP 21,399,60
ipr-rat LDLo:103 mg/kg AIHAAP 21,399,60
orl-dog LDLo:34 mg/kg AIHAAP 21,399,60
orl-rbt LDLo:34 mg/kg AIHAAP 21,399,60
ipr-rbt LDLo:67 mg/kg AIHAAP 21,399,60
ivn-rbt LDLo:44 mg/kg AIHAAP 21,399,60
orl-gpg LDLo:6 mg/kg AIHAAP 21,399,60
ipr-gpg LDLo:34 mg/kg AIHAAP 21,399,60
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. Combustible by chemical reaction. Evolves O_2 @ 875°. Mixtures with sulfur or antimony trisulfide explode when ground. Hydrogen sulfide ignites and may explode weakly on contact with the oxide. When heated to decomposition it emits toxic fumes of Tl. See also THALLIUM COMPOUNDS.

TEL100 HR: 3
THALLIUM(I) PEROXODIBORATE
mf: $B_2O_7Tl_2{\bullet}H_2O$ mw: 560.40
PROP: IDLH 15 mg/m^3 (as Tl).
CONSENSUS REPORTS: Thallium and its compounds are on The Community Right-To-Know List.
SAFETY PROFILE: Many thallium compounds are poisons. Explodes when warmed. Upon decomposition it emits toxic fumes of Tl. See also THALLIUM COMPOUNDS, BORON COMPOUNDS, and PEROXIDES.

TEL150 CAS: 53847-48-6 HR: 3
THALLIUM aci-PHENYLNITROMETHANIDE
mf: $C_7H_6NO_2Tl$ mw: 340.51
$C_6H_5CH{=}N(:O)OTl$
PROP: IDLH 15 mg/m^3 (as Tl).
CONSENSUS REPORTS: Thallium and its compounds are on The Community Right-To-Know List.
SAFETY PROFILE: Many thallium compounds are poisons. A dangerously unstable explosive. When heated to decomposition it emits toxic fumes of Tl and NO_x. See also THALLIUM COMPOUNDS.

TEL500 CAS: 12039-52-0 HR: 3
THALLIUM SELENIDE
PROP: Dark-gray plates with a shiny appearance or black solid, metallic in plane, semi-conductor along *c*-axis (highly

anisotropic), photoconducting. Mp: 330°. Insol in water and acid. IDLH 15 mg/m^3 (as Tl).
SYNS: RCRA WASTE NUMBER P114 □ THALLIUM MONOSELENIDE
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Selenium and its compounds, as well as thallium 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: Thallium compounds and selenium compounds are poisons. When heated to decomposition it emits very toxic fumes of Tl and Se. See also THALLIUM COMPOUNDS and SELENIUM COMPOUNDS.

TEL750 CAS: 10031-59-1 HR: 3
THALLIUM SULFATE
DOT: NA 1707
mf: O_4S•xTl mw: 1526.65
PROP: White or colorless rhomboid crystals. Mp: 632°, bp: decomp, d: 6.77. IDLH 15 mg/m^3 (as Tl).
SYNS: RATOX □ SULFURIC ACID, THALLIUM SALT □ THALLIUM SULFATE, solid (DOT) □ ZELIO
TOXICITY DATA with REFERENCE:
orl-wmn TDLo:2 mg/kg:CVS,GIT JTCTDW 19,259,82
orl-hmn LDLo:7 mg/kg PCOC** -,1126,66
orl-man TDLo:11 mg/kg:PNS,GIT,SKN JTCTDW 19,1015,82/83
orl-rat LD50:16 mg/kg JAMAAP 129,927,45
ivn-rat LD50:12 mg/kg TXAPA9 10,199,67
orl-mus LD50:15 mg/kg YKYUA6 28,329,77
scu-mus LDLo:40 mg/kg UDHU** -,-,36
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Poison to humans by ingestion. Experimental poison by ingestion, intravenous, and subcutaneous routes. Human systemic effects: cardiomyopathy, diarrhea, effects on recordings from peripheral motor nerve, hair changes, hypermotility, nausea or vomiting. Its main hazard is due to its accumulation, especially in liver, brain, and skeletal muscle; readily absorbed by gastrointestinal tract and skin. A cellular toxicant like arsenic. Fatal human dose is about 500 mg of thallium. Intake of thallium causes depilation. Many reported fatalities. An experimental teratogen. When heated to decomposition it emits very toxic fumes of SO_x and Tl. Pesticide for control of rats, moles, and house mice. See also THALLIUM COMPOUNDS and SULFATES.

TEM000 CAS: 7446-18-6 HR: 3
THALLIUM(I) SULFATE (2:1)
mf: O_4S•2Tl mw: 504.80
PROP: Crystals or white rhomboid prisms from H_2O; isomorphous with β-K_2SO_4. Polymorphic. Mp: 632°, bp: (decomp), d: 6.77. IDLH 15 mg/m^3 (as Tl).
SYNS: C.F.S. □ CSF-GIFTWEIZEN □ DITHALLIUM SULFATE □ DITHALLIUM(1+) SULFATE □ ECCOTHAL □ M7-GIFTKOERNER □ RATTENGIFTKONSERVE □ RCRA WASTE NUMBER P115 □ SULFURIC ACID, DITHALLIUM(1+) SALT (8CI, 9CI) □ SULFURIC ACID, THALLIUM(1+) SALT (1:2) □ THALLOUS SULFATE
TOXICITY DATA with REFERENCE:
orl-man LDLo:3 mg/kg:EYE,SYS 85ECAN 2,101,78
orl-man LDLo:7 µg/kg:CNS,GIT CTOXAO 17,133,80
orl-man LDLo:14 mg/kg:PNS,CNS,CVS JTSCDR 3,325,78
orl-hmn LDLo:2166 µg/kg YKYUA6 28,329,77
orl-rat LD50:16 mg/kg YAKUD5 22,291,80
scu-rat LDLo:13 mg/kg APTOA6 12,260,56
orl-mus LD50:29 mg/kg JFALAX 5,15,69
scu-mus LD50:26,600 µg/kg MEPAAX 30,257,79
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Thallium and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg(Tl)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
SAFETY PROFILE: Human poison by ingestion. Experimental poison by ingestion and subcutaneous routes. Human systemic effects by ingestion: ataxia, change in heart rate, excitement, eye changes, irritability, nausea or vomiting, nerve or sheath structural changes, somnolence, wakefulness. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of Tl and SO_x. Used as a rat poison, ant bait, and a reagent in analytical chemistry. See also THALLIUM COMPOUNDS and SULFATES.

TEM050 CAS: 63906-56-9 HR: 3
THALLIUM(II) SULFATE (1:1)
mf: O_4S•Tl mw: 300.43
PROP: IDLH 15 mg/m^3 (as Tl).
SYN: SULFURIC ACID, THALLIUM(2+) SALT
TOXICITY DATA with REFERENCE:
orl-rat LDLo:23 mg/kg HYSAAV 29,26,64
orl-mus LD50:24 mg/kg HYSAAV 29,26,64
CONSENSUS REPORTS: Thallium and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.1 mg(Tl)m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of Tl and SO_x. See also THALLIUM COMPOUNDS and SULFATES.

TEM100 CAS: 16222-66-5 HR: 3
THALLIUM(III) SULFATE
mf: $O_{12}S_3$•2Tl mw: 696.92
PROP: IDLH 15 mg/m^3 (as Tl).
SYNS: BITHALLIUM TRISULFATE □ SULFURIC ACID, THALLIUM(3+) SALT □ THALLIC SULFATE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:15,800 µg/kg 85GYAZ -,139,71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TEM399 CAS: 2757-18-8 HR: 3
THALLOUS MALONATE
mf: $C_3H_2O_4$•2Tl mw: 510.79
PROP: White crystalline solid. IDLH 15 mg/m^3 (as Tl).
SYNS: FORMOMALENIC THALLIUM ◻ MALONIC ACID, THALLIUM SALT (1:2) ◻ PROPANEDIOIC ACID, DITHALLIUM SALT ◻ THALLIUM MALONATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:18,800 µg/kg GTPZAB 20(8),35,76
skn-rat LD50:57,700 µg/kg GTPZAB 20(8),35,76
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Thallium compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by ingestion and skin contact. When heated to decomposition it emits acrid smoke and fumes. See also THALLIUM COMPOUNDS.

TEM500 CAS: 77-86-1 HR: 2
THAM
mf: $C_4H_{11}NO_3$ mw: 121.16
PROP: Crystals. Mp: 171−172°, bp: 219−220° @ 10 mm. Sol in H_2O, EtOH; insol in Et_2O.
SYNS: ADDEX-THAM ◻ 2-AMINO-2-(HYDROXYMETHYL)-PROPANE-1,3-DIOL ◻ 2-AMINO-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL ◻ 2-AMINO-2-METHYLOL-1,3-PROPANEDIOL ◻ AMINOTRIMETHYLOMETHANE ◻ AMINOTRIS(HYDROXYMETHYL)METHANE ◻ PEHANORM ◻ TALATROL ◻ THAM-E ◻ THAM SET ◻ TRIMETHYLOLAMINOMETHANE ◻ TRIS ◻ TRISAMINE ◻ TRIS-AMINO ◻ TRISAMINOL ◻ TRIS BUFFER ◻ TRIS-HYDROXYMETHYL-AMINOMETHAN (GERMAN) ◻ TRIS-HYDROXYMETHYLAMINOMETHANE ◻ TRIS(HYDROXYMETHYL)METHYLAMINE ◻ 1,1,1-TRIS(HYDROXYMETHYL)-METHYLAMINE ◻ TRISPUFFER ◻ TRIS-STERIL ◻ TROMETAMOL ◻ TROMETHAMINE ◻ TROMETHANE ◻ TROMETHANMIN ◻ TUTOFUSIN TRIS
TOXICITY DATA with REFERENCE:
orl-rat LD50:5900 mg/kg BCFAAI 110,653,71
ivn-rat LD50:1800 mg/kg DRUGAY -,419,90
orl-rbt LDLo:1000 mg/kg JIHTAB 22,315,40
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

TEN000 CAS: 115-37-7 HR: 3
THEBAINE
mf: $C_{19}H_{21}NO_3$ mw: 311.41
PROP: White to sltly yellowish, lustrous leaflets or prisms. Mp: 193°, d: 1.305.
SYNS: PARAMORPHINE ◻ 6,7,8,14-TETRADEHYDRO-4,5-α-EPOXY-3,6-DIMETHOXY-17-METHYLMORPHINAN
TOXICITY DATA with REFERENCE:
ipr-mus LD50:42 mg/kg AIPTAK 132,255,61
scu-mus LD50:31 mg/kg 28ZNAE 138,31,38
scu-rbt LD50:13.9 mg/kg JPETAB 66,182,39
ivn-rbt LD50:3 mg/kg AIPTAK 132,255,61
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Its action on humans resembles that of strychnine. When heated to decomposition it emits highly toxic fumes of NO_x.

TEN100 CAS: 850-57-7 HR: 3
THEBAINE HYDROCHLORIDE
mf: $C_{19}H_{21}NO_3$•ClH mw: 347.87 &GH
SYNS: MORPHINAN, 6,7,8,14-TETRADEHYDRO-4,5-α-EPOXY-3,6-DIMETHOXY-17-METHYL-, HYDROCHLORIDE ◻ 6,7,8,14-TETRADEHYDRO-4,5-α-EPOXY-3,6-DIMETHOXY-17-METHYLMORPHINAN HYDROCHLORIDE ◻ (−)-THEBAINE HYDROCHLORIDE ◻ THEBAIN HYDROCHLORID
TOXICITY DATA with REFERENCE:
ipr-mus LD50:25 mg/kg NYKZAU 61,396,65
scu-mus LD50:31 mg/kg NYKZAU 61,396,65
scu-rbt LDLo:9741 µg/kg JPETAB 66,182,39
ivn-rbt LD50:3351 µg/kg AIPTAK 132,255,61
ivn-gpg LDLo:55 mg/kg AEPPAE 131,171,28
SAFETY PROFILE: Poison by intravenous, subcutaneous, and intraperitoneal routes. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x and HCl.

TEN725 CAS: 65654-13-9 HR: D
N-(2-THENOYL)GLYCINOHYDROXAMIC ACID
mf: $C_7H_8N_2O_3S$ mw: 200.23
SYN: N-(2-(HYDROXYAMINO)-2-OXOETHYL)-2-THIOPHENECARBOXAMIDE
TOXICITY DATA with REFERENCE:
mmo-sat 1 µmol/plate JOPHDQ 3,557,80
dnr-bcs 10 µmol/disc JOPHDQ 3,557,80
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

TEN750 CAS: 40828-46-4 HR: 3
p-(2-THENOYL)HYDRATROPIC ACID
mf: $C_{14}H_{12}O_3S$ mw: 260.32
SYNS: MALDOCIL ◻ α-METHYL-4-(2-THIENYLCARBONYL)-BENZENEACETIC ACID ◻ R 25061 ◻ SUPROFEN ◻ SUTOPROFEN ◻ (±)-2-(p-(2-THENOYL)PHENYL)PROPIONIC ACID ◻ TN 762
TOXICITY DATA with REFERENCE:
skn-rbt 150 mg/30D-I MLD YACHDS 15,3611,87
orl-man TDLo:8571 µg/kg/4D-I:KID DICPBB 20,860,86
orl-man TDLo:2857 µg/kg:KID AIMEAS 105,799,86
orl-wmn TDLo:4 mg/kg:KID AIMEAS 106,235,87
orl-rat LD50:70,600 µg/kg ARZNAD 25,1526,75
ipr-rat LD50:335 mg/kg YACHDS 12,1005,84
scu-rat LD50:500 mg/kg YACHDS 12,1005,84
orl-mus LD50:590 mg/kg DRFUD4 1,148,76
ipr-mus LD50:375 mg/kg YACHDS 12,1005,84
scu-mus LD50:710 mg/kg YACHDS 12,1005,84
ipr-dog LD50:300 mg/kg YACHDS 12,1005,84
scu-dog LD50:1250 mg/kg YACHDS 12,1005,84
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by subcutaneous route. Human systemic effects: changes in kidney tubules, hematuria. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it

emits toxic fumes of SO_x. Used as an analgesic and anti-inflammatory agent.

TEO000 CAS: 958-93-0 HR: 3
THENYLDIAMINE CHLORIDE
mf: $C_{14}H_{19}N_3S{\bullet}ClH$ mw: 297.88
PROP: A solid. Mp: 169.5−170°.
SYNS: DETHYLANDIAMINE ◻ 2-((2-(DIMETHYLAMINO)-ETHYL)-3-THENYL-AMINO)-PYRIDINE HYDROCHLORIDE ◻ N,N-DIMETHYL-N'-(3-THENYL)-N'-(2-PYRIDYL) ETHYLENEDI-AMINE HYDROCHLORIDE ◻ THENFADIL HYDROCHLORIDE ◻ THENYLDIAMINE HYDROCHLORIDE ◻ WIN-2848
TOXICITY DATA with REFERENCE:
orl-rat LD50:525 mg/kg 29ZVAB -,113,69
ivn-rat LD50:15 mg/kg JPETAB 97,371,49
orl-mus LD50:277 mg/kg JPETAB 97,371,49
ipr-mus LD50:55 mg/kg JPETAB 97,371,49
scu-mus LD50:36 mg/kg JPETAB 97,371,49
ivn-mus LD50:12,200 µg/kg JPETAB 97,371,49
orl-dog LD50:60 mg/kg JPETAB 97,371,49
ivn-dog LD50:10 mg/kg JPETAB 97,371,49
ims-dog LD50:12 mg/kg JPETAB 97,371,49
ivn-rbt LD50:12 mg/kg JPETAB 97,371,49
ivn-ham LD50:9 mg/kg JPETAB 97,371,49
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, intramuscular, and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and HCl. Used as an antihistamine.

TEO100 CAS: 16371-55-4 HR: 2
THENYLIDENEHYDRAZON BENZOIC ACID
mf: $C_{12}H_{10}N_2OS$ mw: 230.30
SYNS: BENZENE ACID, (2-THIENYLMETHYLENE)-HYDRAZIDE (9CI) ◻ HYDRAZINE, 1-BENZOYL-2-THENYLIDENE
TOXICITY DATA with REFERENCE:
orl-mus LD50:3506 mg/kg YHHPAL 24,737,1989
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TEO250 CAS: 91-80-5 HR: 3
THENYLPYRAMINE
mf: $C_{14}H_{19}N_3S$ mw: 261.42
PROP: D: 1.58 @ 25°, bp: 173−175° @ 0.45 mm.
SYNS: A 3322 ◻ AH-42 ◻ 2-((2-(DIMETHYLAMINO)ETHYL)-2-THENYLAMINO)PYRIDINE ◻ N,N-DIMETHYL-N'-2-PYRIDIN-YL-N'-(2-THIENYLMETHYL)-1,2-ETHANEDIAMIDE ◻ N,N-DIMETHYL-N'-PYRID-2-YL-N'-2-THENYLETHYLENEDIAMINE ◻ DORMIN ◻ HISTADYL ◻ LULAMIN ◻ LULLAMIN ◻ METHAPYRILENE ◻ NCI-C55550 ◻ PARADORMALENE ◻ PYRATHYN ◻ N-(α-PYRIDYL)-N-(α-THENYL)-N',N'-DIMETHY-LETHYLENEDIAMINE ◻ PYRINISTAB ◻ PYRINISTOL ◻ RCRA WASTE NUMBER U155 ◻ REST-ON ◻ RESTRYL ◻ SEMIKON ◻ SLEEPWELL ◻ TENALIN ◻ THENYLENE ◻ THIONYLAN
TOXICITY DATA with REFERENCE:
dnd-esc 30 µmol/L MUREAV 89,95,81
msc-mus:lym 100 mg/L ENMUDM 5,420,83
scu-rat LD50:150 mg/kg CRSBAW 144,887,50
orl-mus LD50:182 mg/kg PSEBAA 80,458,52
ipr-mus LD50:77 mg/kg JPETAB 96,388,49
ivn-mus LD50:20 mg/kg PSEBAA 80,458,52
orl-gpg LD50:375 mg/kg PSEBAA 80,458,52
SAFETY PROFILE: Poison by ingestion, subcutaneous, intraperitoneal, and intravenous routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. Used as an antihistamine.

TEO500 CAS: 83-67-0 HR: 3
THEOBROMINE
mf: $C_7H_8N_4O_2$ mw: 180.19
PROP: White powder or monoclinic needles, bitter tasting alkaloid. Mp: 357°, subl @ 290−295°. Moderately sol in ammonia; almost insol in benzene, ether, chloroform, carbon tetrachloride.
SYNS: 3,7-DIHYDRO-3,7-DIMETHYL-1H-PURINE-2,6-DIONE ◻ 3,7-DIMETHYLXANTHINE ◻ DIUROBROMINE ◻ SANTHEOSE ◻ SC 15090 ◻ TEOBROMIN ◻ THEOSALVOSE ◻ THEOSTENE ◻ THESAL ◻ THESODATE
TOXICITY DATA with REFERENCE:
mmo-eug 600 mg/L MUREAV 32,169,75
sce-hmn:lym 100 mg/L MUREAV 169,105,86
orl-mus TDLo:6300 mg/kg (female 1-21D post):REP TOXID9 4,191,84
ipr-mus TDLo:500 mg/kg (female 13D post):TER OFAJAE 46,167,69
orl-hmn TDLo:26 mg/kg:CNS,GIT JPETAB 86,113,46
orl-rat LD50:1265 mg/kg GTPZAB 26(3),59,82
orl-mus LD50:837 mg/kg GTPZAB 26(3),59,82
scu-mus LD50:530 mg/kg ARZNAD 6,601,56
orl-dog LD50:300 mg/kg TXAPA9 53,481,80
scu-rbt LDLo:1 g/kg HBAMAK 4,1289,35
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion. Moderately toxic by subcutaneous route. An experimental teratogen. Human systemic effects by ingestion: central nervous system and gastrointestinal changes. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. Used as a diuretic, smooth muscle relaxant, cardiac stimulant, and vasodilator.

TEO750 CAS: 8048-31-5 HR: D
THEOBROMINE SODIUM SALICYLATE
mf: $C_7H_8N_4O_2{\bullet}C_7H_6O_3{\bullet}2Na$ mw: 364.30
PROP: White odorless or almost odorless powder. Hygroscopic. Very sol in water; sltly sol in alc.
SAFETY PROFILE: An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x and Na_2O. See also THEOBROMINE.

TEO800 CAS: 65098-93-3 HR: 2
THEOESBERIVEN
TOXICITY DATA with REFERENCE:
orl-rat LD50:864 mg/kg NIIRDN 6,471,82
ivn-rat LD50:3300 mg/kg OYYAA2 12,543,76
orl-mus LD50:2125 mg/kg NIIRDN 6,471,82
ivn-mus LD50:4250 mg/kg OYYAA2 12,543,76
SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes.

TEP000 CAS: 58-55-9 HR: 3
THEOPHYLLINE
mf: $C_7H_8N_4O_2$ mw: 180.19
PROP: Monoclinic, odorless needles or thin monoclinic tablets; bitter taste. Mp: 268°. Sol in hot water, alkali hydroxides, ammonia, dil HCl, HNO_3; sltly sol in ether.
SYNS: ACET-THEOCIN ◻ AMINOPHYLLINE ◻ 3,7-DIHYDRO-1,3-DIMETHYL-1H-PURINE-2,6-DIONE ◻ 1,3-DIMETHYL-XANTHINE ◻ ELIXICON ◻ ELIXOPHYLLIN ◻ ELIXO-PHYLLINE ◻ LANOPHYLLIN ◻ LIQUOPHYLLINE ◻ NSC-2066 ◻ OPTIPHYLLIN ◻ PARKOPHYLLIN ◻ PSEUDOTHEO-PHYLLINE ◻ SLO-PHYLLIN ◻ SOLOSIN ◻ TEFAMIN ◻ TEOFYLLAMIN ◻ THEAL TABL. ◻ THEOCIN ◻ THEOFOL ◻ THEOGRAD ◻ THEOLAIR ◻ THEOLIX ◻ THEOPHYL-225 ◻ THEOPHYLLIN ◻ THEOPHYLLINE, anhydrous
TOXICITY DATA with REFERENCE:
mmo-eug 600 mg/L MUREAV 32,169,75
oms-hmn:lym 100 µmol/L MUREAV 15,197,72
orl-man TDLo:129 mg/kg:SYS,GLN AIMEAS 104,284,86
ivn-man LDLo:3429 µg/kg JAMAAP 136,397,48
par-man LDLo:12 mg/kg DAKMAJ 80,510,1904
orl-wmn TDLo:5 mg/kg:CNS,CVS,GIT BMJOAE 288,1497,84
orl-wmn LDLo:130 mg/kg:SYS AIMEAS 101,457,84
orl-wmn TDLo:281 mg/kg/4W:CNS BMJOAE 281,1322,80
ivn-wmn TDLo:120 mg/kg/3D-C:CVS DICPBB 16,877,82
orl-cld TDLo:10 mg/kg SMJOAV 78,1000,85
ims-chd TDLo:50 mg/kg:CNS,CVS,PUL JOPDAB 90,827,77
orl-inf TDLo:348 mg/kg/4D-I PPHAD4 5,209,85
orl-hmn TDLo:5 mg/kg:CNS,GIT,MET 34ZIAG -,92,69
orl-hmn LDLo:20 mg/kg/2D-I LANCAO 2,610,83
scu-hmn TDLo:3500 µg/kg:CNS,GIT,MET 34ZIAG -,92,69
ivn-hmn TDLo:10 mg/kg/D:CNS,CVS,GIT JAMAAP 235,1983,76
rec-hmn TDLo:6 mg/kg:CNS,GIT,MET 34ZIAG -,92,69
orl-rat LD50:244 mg/kg GTPZAB 26(3),59,82
ivn-hmn LDLo:1430 µg/kg 32ZWAA 8,361,74
ivn-man LDLo:3429 µg/kg:CNS,PUL,GIT JAMAAP 136,397,48
orl-hmn LDLo:20 mg/kg/2D-I:CNS LANCAO 2,610,83
orl-rat LD50:244 mg/kg GTPZAB 26(3),59,82
ipr-rat LD50:188 mg/kg PEREBL 11,783,77
scu-rat LD20:75 mg/kg FAATDF 1,443,81
ivn-rat LDLo:240 mg/kg 27ZIAQ -,-,65
orl-mus LD50:252 mg/kg GTPZAB 26(3),59,82
ipr-mus LD50:70 mg/kg BJPCBM 73,887,81
scu-mus LD50:180 mg/kg THERAP 4,28,49
ivn-mus LD50:136 mg/kg PAHEAA 48,133,73
ims-mus LD50:271 mg/kg NIIRDN 6,34,82
rec-mus LD50:166 mg/kg PEREBL 11,783,77
orl-dog LDLo:290 mg/kg DAKMAJ 80,510,1904
orl-cat LDLo:800 mg/kg DAKMAJ 80,510,1904
scu-cat LDLo:600 mg/kg DAKMAJ 80,510,1904
scu-rbt LDLo:890 mg/kg DAKMAJ 80,510,1904
ivn-rbt LD50:150 mg/kg NIIRDN 6,34,82
scu-gpg LDLo:170 mg/kg HBTXAC 5,168,59
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Human poison by ingestion, parenteral, intravenous, and rectal routes. Experimental poison by multiple routes. An experimental teratogen. Human systemic effects: coma, convulsions or effect on seizure threshold, cyanosis, EKG changes, fever and other metabolic effects, heart arrhythmias, heart rate change, hyperglycemia, metabolic acidosis, nausea or vomiting, potassium-level changes, respiratory stimulation, salivary gland changes, somnolence, tremor. Experimental reproductive effects. Human mutation data reported. Used as a diuretic, cardiac stimulant, smooth muscle relaxant, and to treat asthma. When heated to decomposition it emits toxic fumes of NO_x.

TEP500 CAS: 317-34-0 HR: 3
THEOPHYLLINE, compound with ETHYLENEDIAMINE (2:1)
mf: $C_7H_8N_4O_2 \bullet 1/2C_2H_8N_2$ mw: 210.25
PROP: Crystals.
SYNS: AMINOCARDOL ◻ AMINODUR ◻ AMINOFILINA (SPANISH) ◻ AMINOPHYLLINE ◻ AMMOPHYLLIN ◻ CARDIO-FILINA ◻ CARDIOMIN ◻ CARDOPHYLIN ◻ CARDOPHYLLIN ◻ CARENA ◻ CARIOMIN ◻ DIAPHYLLINE ◻ 3,7-DIHYDRO-1,3-DIMETHYL-1H-PURINE-2,6-DIONE compounded with 1,2-ETHANEDIAMINE (2:1) ◻ DIOPHYLLIN ◻ DIUXANTHINE ◻ DOBO ◻ DURA-TAB S.M. AMINOPHYLLINE ◻ ETHOPHYL-LINE ◻ ETHYLENEDIAMINE, compounded with THEOPHYLL-INE (1:2) ◻ ETILEN-XANTISAN TABL. ◻ EUPHYLLIN ◻ EUPHYLLINE ◻ EUUFILIN ◻ EURPHYLLIN ◻ GENOPHYLLIN ◻ GRIFOMIN ◻ INOPHYLLINE ◻ LASODEX ◻ LINAMPHETA ◻ METAPHYLLIN ◻ METAPHYLLINE ◻ METHOPHYLLINE ◻ MINAPHIL ◻ MIOFILIN ◻ NEOPHYILINE ◻ PETERPHYLLIN ◻ PHYLCARDIN ◻ PHYLLINDON ◻ RECTALAD-AMINO-PHYLLINE ◻ SOMOPHYLLIN ◻ SOMOPHYLLIN O ◻ STEN-OVASAN ◻ TAD ◻ TEFAMIN ◻ TH/100 ◻ THEODROX ◻ THEOLAMINE ◻ THEOMIN ◻ THEOPHYLDINE ◻ THEO-PHYLLAMINE ◻ THEOPHYLLAMINIUM ◻ THEOPHYLLIN AETHYLENDIAMIN (GERMAN) ◻ THEOPHYLLINE ETHYL-ENEDIAMINE ◻ THEOPHYLLIN ETHYLENEDIAMINE ◻ THEPHYLDINE ◻ VASOFILINA
TOXICITY DATA with REFERENCE:
cyt-mus:mmr 500 mg/L/24H-C JTSCDR 5,141,80
orl-man TDLo:19 mg/kg/3D:CNS,GIT BCPHBM 10,101,80
ivn-hmn TDLo:139 mg/kg/7D-C:CNS,CVS CLCHAU 24,1603,78
ivn-man LDLo:1420 µg/kg JAMAAP 123,1115,43
rec-chd TDLo:39 mg/kg/8H:CNS,GIT,MET JAMAAP 161,693,56
rec-chd LDLo:221 mg/kg/3D:CNS,GIT,MET JAMAAP 161,693,56
orl-rat LD50:243 mg/kg BCFAAI 110,653,71
ipr-rat LD50:200 mg/kg JAPMA8 36,248,47
scu-rat LD50:176 mg/kg AEPPAE 230,194,57
ivn-rat LD50:184 mg/kg ARZNAD 29,1013,79
ims-rat LD50:167 mg/kg ARZNAD 29,1013,79
orl-mus LD50:150 mg/kg JLCMAK 31,1337,46
ipr-mus LD50:217 mg/kg ARZNAD 29,1013,79
scu-mus LD50:186 mg/kg ARZNAD 4,649,54
ivn-mus LD50:146 mg/kg CTYAD8 11,555,80
orl-dog LDLo:200 mg/kg BTSRAF 29,69,42
rec-dog LDLo:200 mg/kg BTSRAF 29,69,42
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Human poison by intravenous and rectal routes. Experimental poison by ingestion, intraperitoneal, intravenous, intramuscular, subcutaneous, and rectal routes. Human systemic effects by ingestion, intravenous, and rectal routes: convulsions or effect on seizure threshold, withdrawals, muscle contraction or spasticity, coma, nausea or vomiting, arrythmias, dehydration and fever. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also THEOPHYLLINE.

TEP750 CAS: 6336-12-5 HR: 3
8-THEOPHYLLINE MERCURIC ACETATE
mf: $C_9H_{10}HgN_4O_4$ mw: 438.82
PROP: IDLH 10 mg/m^3 (as Hg).
SYNS: (ACETATO)(8-THEOPHYLLINYL)MERCURY □ 8-(ACETOXYMERCURIO)THEOPHYLLINE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:18 mg/kg CSLNX* NX#04387
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 intravenous route. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY COMPOUNDS and THEOPHYLLINE.

TEQ000 CAS: 8069-64-5 HR: 3
THEOPHYLLINE METHOXYOXIMERCURI-PROPYL SUCCINYLUREA
mf: $C_{16}H_{22}HgN_6O_7$ mw: 611.03
PROP: IDLH 10 mg/m^3 (as Hg).
SYNS: MERALLURIDE □ MERCUHYDRIN
TOXICITY DATA with REFERENCE:
scu-rat LD50:28 mg/kg TXAPA9 18,185,71
ims-rat LD50:37 mg/kg JPETAB 105,336,52
scu-mus LD50:256 mg/kg JPETAB 105,336,52
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 intramuscular and subcutaneous routes. When heated to decomposition it emits very toxic fumes of Hg and NO_x. Used as a diuretic. See also MERCURY COMPOUNDS and THEOPHYLLINE.

TEQ175 CAS: 69975-86-6 HR: 3
2-(7′-THEOPHYLLINEMETHYL)-1,3-DIOXOLANE
mf: $C_{11}H_{14}N_4O_4$ mw: 266.29
PROP: A solid. Mp: 144−145°.
SYNS: ABC 12/3 □ 3,7-DIHYDRO-7-(1,3-DIOXOLAN-2-YLMETHYL)-1,3-DIMETHYL-1H-PURINE-2,6-DIONE □ 7-(1,3-DIOXOLAN-2-YLMETHYL)THEOPHYLLINE □ 2-(7'-TEOFILLINMETIL)-1,3-DIOSSOLANO (ITALIAN)
TOXICITY DATA with REFERENCE:
orl-rat LD50:1022 mg/kg FRPSAX 36,201,81
ipr-rat LD50:445 mg/kg FRPSAX 36,201,81
orl-mus LD50:841 mg/kg FRPSAX 36,201,81
ivn-mus LD50:216 mg/kg FRPSAX 36,201,81
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also THEOPHYLLINE.

TEQ250 CAS: 8002-89-9 HR: 3
THEOPHYLLINE SODIUM ACETATE
mf: $C_7H_8N_4O_2$•$C_2H_4O_2$•Na mw: 263.24
PROP: White, odorless, crystalline powder; bitter taste. Sol in 25 parts water; insol in alc, chloroform, ether.
SYNS: THEACITIN □ THEOCIN SOLUBLE □ THEOPHYLLINE, compound with SODIUM ACETATE (1:1) □ THEOPHYLLINUM NATRIUM ACETICUM (GERMAN)
TOXICITY DATA with REFERENCE:
orl-rat LD50:583 mg/kg AEPPAE 230,194,57
scu-rat LD50:188 mg/kg AEPPAE 230,194,57
ivn-rat LD50:311 mg/kg AEPPAE 230,194,57
ipr-mus LD50:184 mg/kg APJUA8 24,89,74
scu-mus LD50:286 mg/kg AEPPAE 197,193,41
ivn-mus LD50:257 mg/kg AEPPAE 230,194,57
orl-gpg LD50:205 mg/kg AEPPAE 230,194,57
scu-gpg LD50:180 mg/kg AEPPAE 230,194,57
SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x and Na_2O. See also THEOPHYLLINE.

TEQ500 CAS: 54504-70-0 HR: 2
1-(THEOPHYLLIN-7-YL)ETHYL-2-(2-(p-CHLOROPHENOXY))-2-METHYL-PROPIONATE
mf: $C_{19}H_{21}ClN_4O_5$ mw: 420.89
PROP: Crystals. Mp: 133−135°.
SYNS: DUOLIP □ ETOFYLLINCLOFIBRAT (GERMAN) □ ETOFYLLINE CLOFIBRATE □ ML 1024 □ THEOFIBRATE □ 1-(THEOPHYLLIN-7-YL)AETHYL-2-(2-(p-CHLORPHENOXY))-2-METHYLPROPIONAT (GERMAN)
TOXICITY DATA with REFERENCE:
orl-rat LD50:17,000 mg/kg ARZNAD 30,2023,80
ipr-rat LD50:2830 mg/kg ARZNAD 27,1173,77
orl-mus LD50:1730 mg/kg ARZNAD 25,1686,75
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also ESTERS.

TEQ700 CAS: 5503-08-2 HR: 3
THEPHORIN HYDROCHLORIDE

mf: $C_{19}H_{19}N$•ClH mw: 297.85
SYNS: 2-METHYL-9-PHENYL-2,3,4,9-TETRAHYDRO-1-PYRIDINDENE HYDROCHLORIDE □ NU 1604 HYDROCHLORIDE □ PHENINDAMINE HYDROCHLORIDE □ 2,3,4,9-TETRAHYDRO-2-METHYL-9-PHENYL-1H-INDENO(2,1-c)PYRIDINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:280 mg/kg JPETAB 92,249,48
orl-mus LD50:255 mg/kg JPETAB 92,249,48
ipr-mus LD50:88 mg/kg JPETAB 92,249,48
scu-mus LD50:270 mg/kg JPETAB 92,249,48
ivn-mus LD50:22,500 µg/kg JPETAB 92,249,48
ivn-dog LD50:33 mg/kg JPETAB 92,249,48
orl-rbt LD50:500 mg/kg JPETAB 92,249,48
ivn-rbt LD50:15 mg/kg JPETAB 92,249,48
ipr-gpg LD50:140 mg/kg JPETAB 92,249,48
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

TEQ750 CAS: 54578-28-8 HR: 1
THERMINOL 66
TOXICITY DATA with REFERENCE:
orl-rat LD50:>6 g/kg AEHLAU 27(2),69,73
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

TEQ800 CAS: 54578-28-8 HR: 1
THERMINOL 66 HEAT TRANSFER FLUID
SYN: SANTOTHERM 66
TOXICITY DATA with REFERENCE:
orl-rat LD50:>10 g/kg MONS**
ihl-rat LC50:>4700 mg/m^3/4H MONS**
skn-rbt LD50:>2 g/kg MONS**
SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

TER000 HR: 3
"THERMITE"
PROP: Composition: Fe_2O_3 + Al.
SAFETY PROFILE: Dangerous when exposed to heat or flame. The violent reaction of Fe_2O_3 + Al is typical of a series of the oxide-metal "thermite" reactions. They are very difficult to stop, as they supply their own oxygen. They may attain a temperature of about 2500°. The presence of manganese dioxide may cause explosions. Keep away from combustible materials. See also ALUMINUM and IRON COMPOUNDS.

TER100 CAS: 37246-64-3 HR: 3
THERMOLYSIN (BACILLUS THERMO-PROTEOLYTICUS)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:15,326 µg/kg PSEBAA 144,450,73
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

TER250 CAS: 11018-93-2 HR: 3
THEVETIN
mf: $C_{42}H_{66}O_{18}$ mw:859.08
PROP: Separated from the nuts of *Thevetin neriifolia* (JPETAB 49,561,33).
TOXICITY DATA with REFERENCE:
ivn-cat LDLo:843 µg/kg ARZNAD 19,657,69
ivn-gpg LDLo:3560 µg/kg ARZNAD 17,1258,67
ivn-pgn LDLo:1400 µg/kg AIPTAK 126,412,60
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes.

TER500 CAS: 19525-20-3 HR: 3
THIABENDAZOLE HYDROCHLORIDE
mf: $C_{10}H_7N_3S$•ClH mw: 237.72
SYN: 2-(4-THIAZOLYL)-BENZIMIDAZOLE, HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:3600 mg/kg TXAPA9 7,53,65
ipr-rat LD50:436 mg/kg TXAPA9 7,53,65
ivn-rat LD50:180 mg/kg TXAPA9 7,53,65
orl-mus LD50:2400 mg/kg TXAPA9 7,53,65
ipr-mus LD50:430 mg/kg TXAPA9 7,53,65
ivn-mus LD50:160 mg/kg TXAPA9 7,53,65
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of HCl, SO_x, and NO_x.

TES000 HR: 2
1,3,4-THIADIAZOLE-2-ACETAMIDO
mf: $C_4H_5N_3OS$ mw: 143.18
PROP: Liquid. D: 1.200 @ 17/4°, bp: 116.8°. Sltly sol in water; sol in alc, ether.
SYNS: CL 1950675526 □ NSC-4729 □ X 134
TOXICITY DATA with REFERENCE:
ipr-mus LD50:1022 mg/kg NCISP* JAN86
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TES250 CAS: 1072-71-5 HR: 3
1,3,4-THIADIAZOLE-2,5-DITHIOL
mf: $C_2H_2N_2S_3$ mw: 150.24
PROP: Yellow crystals from MeOH. Mp: 168°. Sol in H_2O.
SYNS: 2,5-DIMERCAPTO-1,3,4-THIADIAZOLE □ USAF A-8354 □ USAF FA-4
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg SEV EPASR* 8EHQ-0181-0380
eye-rbt 100 mg/305 rns EPASR* 8EHQ-0181-0380
ipr-mus LD50:200 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. A severe eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFIDES and MERCAPTANS.

TES300 CAS: 132-65-0 HR: 2
9-THIAFLUORENE

mf: $C_{12}H_8S$ mw: 184.26
SYNS: 2,2'-BIPHENYLYLENE SULFIDE □ DIBENZO-THIOPHENE □ DIBENZO(b,d)THIOPHENE □ DIPHENYLENE SULFIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:470 mg/kg FAATDF 12,787,89
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of SO_x.

TES500 CAS: 467-36-7 HR: 3
THIALPENTON
mf: $C_{13}H_{16}N_2O_2S$ mw: 264.37
PROP: A solid. Mp: 148−150°.
SYNS: 5-ALLYL-5-(2-CYCLOHEXEN-1-YL)-2-THIOBARBITURIC ACID □ 5-$\Delta^{2,3}$-CYCLOHEXENYL-5-ALLYL-2-THIOBARBITURIC ACID □ 5-(2-CYCLOHEXEN-1-YL)DIHYDRO-5-(2-PROPENYL)-2-THIOXO-4,6(1H,5H)-PYRIMIDINEDIONE (9CI) □ KEMITHAL □ THIALBARBITAL □ THIALBARBITONE
TOXICITY DATA with REFERENCE:
ivn-rat LD50:175 mg/kg AIPTAK 106,437,56
orl-mus LD50:370 mg/kg BJPCAL 1,215,46
ipr-mus LD50:384 mg/kg BJPCAL 1,215,46
ivn-mus LD50:390 mg/kg BJPCAL 1,215,46
SAFETY PROFILE: Poison by ingestion, intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also BARBITURATES.

TES750 CAS: 59-43-8 HR: 3
THIAMINE CHLORIDE
mf: $C_{12}H_{17}N_4OS{\bullet}Cl$ mw: 300.84
PROP: Crystals from water. Mp: 120−122° (decomp) (anhyd).
SYNS: 3-((4-AMINO-2-METHYL-5-PYRIMIDINYL)METHYL)-5-(2-HYDROXYETHYL)-4-METHYLTHIAZOLIUM CHLORIDE □ ANEURINE □ APATATE DRAPE □ B-AMIN □ BEIVON □ BETABION □ BETALIN S □ BETAXIN □ BETHIAMIN □ BEWON □ ORYZANIN □ ORYZANINE □ THIAMIN □ THIAMINE MONOCHLORIDE □ VINOTHIAM □ VITAMIN B1 □ VITANEURON
TOXICITY DATA with REFERENCE:
scu-rat LD50:560 mg/kg ARZNAD 9,1,59
ivn-rat LD50:118 mg/kg ARZNAD 9,1,59
scu-mus LD50:301 mg/kg JPETAB 119,444,57
ivn-mus LD50:83 mg/kg ARZNAD 9,1,59
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and Cl^-.

TES800 CAS: 67-16-3 HR: 2
THIAMINE DISULFIDE
mf: $C_{24}H_{34}N_8O_4S_2$ mw: 562.78
SYNS: ALGONEURINA □ ALITIA S □ ANEURINE DISULFIDE □ APREN S □ DAIOMIN □ DAISAZIN □ FEIDMIN 5 □ FORM-AMIDE, N,N'-(DITHIOBIS(2-(2-HYDROXYETHYL)-1-METHYL-VINYLENE))BIS(N-((4-AMINO-2-METHYL-5-PYRIMIDINYL))-METHYL)- □ NEOLAMIN □ SSB_1 □ TDS □ TDS (NEUROTROPE) □ THIAMIDIN F □ THIAMIN DISULFIDE □ VITAMIN B_1 DISULFIDE
TOXICITY DATA with REFERENCE:
ivn-rat LD50:1250 mg/kg AEPPAE 236,149,59
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TET250 CAS: 61227-05-2 HR: 3
THIAMINE DISULFIDE, OROTATE
mf: $C_{24}H_{34}N_8O_4S_2{\bullet}C_5H_4N_2O_4$ mw: 718.89
SYNS: THIAMINDISULFID-MONOOROTAT (GERMAN) □ THIOORATIN
TOXICITY DATA with REFERENCE:
orl-mus LD50:7400 mg/kg ARZNAD 27,1998,77
scu-mus LD50:580 mg/kg ARZNAD 27,1998,77
ivn-mus LD50:250 mg/kg ARZNAD 27,1998,77
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. Mildly toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFIDES.

TET300 CAS: 67-03-8 HR: 3
THIAMINE HYDROCHLORIDE
mf: $C_{12}H_{17}N_4OS{\bullet}ClH{\bullet}Cl$ mw: 337.30
PROP: Small white hygroscopic crystals, plates, or crystalline powder from EtOH; nut-like odor. Mp: 248° (decomp). Sol in water, glycerin; sltly sol in alc; insol in ether, benzene.
SYNS: THIAMINE CHLORIDE HYDROCHLORIDE □ THIAMINE DICHLORIDE □ THIAMIN HYDROCHLORIDE □ THIAMINIUM CHLORIDE HYDROCHLORIDE □ USAF CB-20 □ VITAMIN B^1 □ VITAMIN B HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:8224 mg/kg IZVIAK 37,82,67
ipr-mus LD50:200 mg/kg NTIS** AD277-689
ivn-mus LD50:89 mg/kg IZVIAK 37,82,67
ivn-rbt LD50:117 mg/kg PSEBAA 68,153,48
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Mildly toxic by ingestion. The vitamin is destroyed by alkalies and alkaline drugs such as phenobarbital sodium and by oxidizing and reducing agents. When heated to decomposition it emits very toxic fumes of HCl, Cl^-, SO_x, and NO_x.

TET500 CAS: 532-43-4 HR: 3
THIAMINE MONONITRATE
mf: $C_{12}H_{17}N_4OS{\bullet}NO_3$ mw: 327.40
PROP: White crystals or crystalline powder; slt characteristic odor. Mp: 196−200° (decomp). Non-hygroscopic; sltly sol in water, alc, and chloroform.
SYNS: 3-(4-AMINO-2-METHYLPYRIMIDYL-5-METHYL)-4-METHYL-5,β-HYDROXYETHYLTHIAZOLIUM NITRATE □ THIAMINE NITRATE □ VITAMIN B1 MONONITRATE □ VITAMIN B1 NITRATE
TOXICITY DATA with REFERENCE:
ivn-rbt LD50:113 mg/kg PSEBAA 68,153,48
ipr-mus LD50:387 mg/kg PSEBAA 68,153,48

ivn-mus LD50:84 mg/kg PSEBAA 68,153,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. A powerful oxidizer. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also NITRATES.

TET600 CAS: 16028-14-1 HR: 2
THIAMINE PHOSPHATE HYDROCHLORIDE DIHYDRATE

mf: $C_{12}H_{18}N_4O_4PS{\bullet}Cl{\bullet}ClH{\bullet}2H_2O$ mw: 453.32

SYNS: THIAMINE, DIHYDROGEN PHOSPHATE (ESTER), MONOHYDROCHLORIDE, DIHYDRATE □ THIAMINE MONOPHOSPHATE MONOHYDROCHLORIDE DIHYDRATE □ THIAMINE MONOPHOSPHORIC MONOHYDROCHLORIDE BIS-HYDRATED ESTER □ THIAZOLIUM, 3-((4-AMINO-2-METHYL-5-PYRIMIDINYL)METHYL)-4-METHYL-5-(2-(PHOSPHONOOXY)ETHYL)-, CHLORIDE, MONOHYDRO-CHLORIDE, DIHYDRATE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1015 mg/kg FRPPAO 24,712,69
ivn-rat LD50:487 mg/kg FRPPAO 24,712,69
ipr-mus LD50:711 mg/kg FRPPAO 24,712,69
ivn-mus LD50:476 mg/kg FRPPAO 24,712,69

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x, SO_x, PO_x, and Cl^-.

TET750 CAS: 154-87-0 HR: 3
THIAMINE, TRIHYDROGEN PYROPHOSPHATE (ESTER)

mf: $C_{12}H_{19}N_4O_7P_2S{\bullet}Cl$ mw: 460.80

SYNS: THIAMINEPYROPHOSPHATE □ THIAMINEPY-ROPHOSPHATECHLORIDE □ THIAMINEPYRO-PHOSPHORICESTER □ THIAMINPYROPHOSPHATE □ TRIHYDROGENPYROPHOSPHATE(ESTER)THIAMINE

TOXICITY DATA with REFERENCE:

scu-rat LD50:5000 mg/kg ARZNAD 9,1,59
ivn-rat LD50:465 mg/kg ARZNAD 9,1,59
scu-mus LD50:2500 mg/kg ARZNAD 9,1,59
ivn-mus LD50:360 mg/kg ARZNAD 9,1,59
ivn-cat LD50:510 mg/kg ARZNAD 9,1,59
ivn-rbt LD50:500 mg/kg ARZNAD 9,1,59
ivn-pig LD50:630 mg/kg ARZNAD 9,1,59
ivn-gpg LD50:335 mg/kg ARZNAD 9,1,59
scu-frg LD50:2600 mg/kg ARZNAD 9,1,59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of NO_x, PO_x, SO_x and Cl^-. See also ESTERS.

TET780 CAS: 51155-15-8 HR: 3
THIAMPHENICOL AMINOACETATE HYDROCHLORIDE

mf: $C_{14}H_{18}Cl_2N_2O_6S{\bullet}ClH$ mw: 449.76

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1220 mg/kg NIIRDN 6,452,82
ivn-rat LD50:490 mg/kg NIIRDN 6,452,82
ipr-mus LD50:1298 mg/kg NIIRDN 6,452,82
ivn-mus LD50:290 mg/kg NIIRDN 6,452,82

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl. See also ESTERS.

TET800 CAS: 55297-95-5 HR: 3
THIAMUTILIN

mf: $C_{28}H_{47}NO_4S$ mw: 493.82

PROP: Crystals from acetone. Mp: 147−148° (after stirring in ethyl acetate and drying at 60° and 80° overnight).

SYNS: 14-DEOXY-14-((2-DIETHYLAMINOETHYL-THIO)-ACETOXY)MUTILINE □ 14-DESOSSI-14-((2-DIETIL-AMINOETIL)MERCAPTO-ACETOSSI)MUTILIN IDROGENO FUMARATO (ITALIAN) □ 14-DESOXY-14-((DIETHYL-AMINOETHYL)-MERCAPTO ACETOXYL)-MUTILIN HYDROGEN FUMARATE □ DYNALIN INJECTABLE □ DYNAMUTILIN □ 81723 HFU □ SQ 14055 □ SQ 22947 □ TIAMULIN □ TIAMULINA (ITALIAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:2230 mg/kg RZOVBM 8,251,80
scu-rat LD50:4380 mg/kg RZOVBM 8,251,80
ivn-rat LD50:20 mg/kg RZOVBM 8,251,80
orl-mus LD50:710 mg/kg RZOVBM 8,251,80
scu-mus LD50:1020 mg/kg RZOVBM 8,251,80
ivn-mus LD50:49 mg/kg RZOVBM 8,251,80
orl-ckn LD50:1550 mg/kg RZOVBM 8,251,80
ivn-ckn LD50:25 mg/kg RZOVBM 8,251,80
ims-ckn LD50:250 mg/kg RZOVBM 8,251,80
orl-trk LD50:1345 mg/kg RZOVBM 8,251,80
ims-trk LD50:409 mg/kg RZOVBM 8,251,80
orl-mam LD50:812 mg/kg DRFUD4 2,274,77

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

TET900 CAS: 3268-49-3 HR: 2
THIA-4-PENTANAL (DOT)

DOT: UN 2785

mf: C_4H_8OS mw: 104.18

SYNS: METHIONAL □ β-(METHYLMERCAPTO)PROPION-ALDEHYDE □ 3-(METHYLMERCAPTO)PROPIONALDEHYDE □ METHYLMERCAPTOPROPIONIC ALDEHYDE □ 3-(METHYLTHIO)PROPANAL □ β-(METHYLTHIO)PROPION-ALDEHYDE □ 3-(METHYLTHIO)PROPIONALDEHYDE □ PROPANAL, 3-(METHYLTHIO)-(9CI) □ PROPIONALDEHYDE, 3-(METHYLTHIO)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:4400 mg/kg GISAAA 49(1),85,84
ihl-rat LC50:5820 mg/m^3/4H GISAAA 49(1),85,84
orl-mus LD50:1620 mg/kg GISAAA 49(1),85,84
ihl-mus LC50:5400 mg/m^3/2H GISAAA 49(1),85,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

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

TEU000 CAS: 10215-25-5 HR: 3
3,7-THIAXANTHENEDIAMINE-5,5-DIOXIDE
mf: $C_{13}H_{11}N_2O_2S$ mw: 259.32
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#01363
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TEU250 CAS: 3122-01-8 HR: 3
THIAZESIUM HYDROCHLORIDE
mf: $C_{19}H_{22}N_2OS$•ClH mw: 362.95
PROP: Crystals. Mp: 222−224°.
SYNS: 5-(2-DIMETHYLAMINOETHYL)-2,3-DIHYDRO-2-PHENYL-1,5-BENZOTHIAZEPIN-4-(5H)-ONE HYDROCHLORIDE ◻ THIAZESIM HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:210 mg/kg 27ZQAG -,310,72
ivn-mus LD50:29 mg/kg 27ZQAG -,310,72
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl, NO_x and SO_x.

TEU300 CAS: 288-47-1 HR: 2
THIAZOLE
mf: C_3H_3NS mw: 85.13
TOXICITY DATA with REFERENCE:
orl-mus LD50:983 mg/kg DCTODJ 3,249,80
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TEV000 CAS: 444-27-9 HR: 3
4-THIAZOLIDINECARBOXYLIC ACID
mf: $C_4H_7NO_2S$ mw: 133.18
PROP: dl Form: Crystals. Mp: 195°.
SYNS: ATC ◻ 4-CARBOXYTHIAZOLIDINE ◻ HEPALIDINE ◻ HEPAREGENE ◻ NORGAMEM ◻ NSC-25855 ◻ T-4CA ◻ THIAZOLIDINECARBOXYLIC ACID ◻ THIAZOLIDINE-4-CARBOXYLIC ACID ◻ THIOPROLINE ◻ USAF A-3701 ◻ USAF C-1
TOXICITY DATA with REFERENCE:
orl-hmn TDLo:420 mg/kg LANCAO 1,778,81
orl-rat LD50:875 mg/kg DECRDP 13,399,87
ipr-rat LD50:494 mg/kg DECRDP 13,399,87
ipr-mus LD50:100 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Human systemic effects by ingestion: somnolence, tremors, and depressed renal function. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TEV500 CAS: 2295-31-0 HR: 3
2,4-THIAZOLIDINEDIONE
mf: $C_3H_3NO_2S$ mw: 117.13
PROP: Crystals from Et_2O. Mp: 126−127°, bp: 178−179° @ 19 mm.
SYNS: 2,4-DIOXOTHIAZOLIDINE ◻ 2,4(3H,5H)-THIAZOLEDIONE ◻ THIAZOLIDINEDIONE-2,4 ◻ USAF EK-5496
TOXICITY DATA with REFERENCE:
ipr-mus LD50:400 mg/kg NTIS** AD277-689
scu-mus LD50:335 mg/kg FRPSAX 9,274,54
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TEV600 CAS: 1779-81-3 HR: 3
2-THIAZOLIDINIMINE
mf: $C_3H_6N_2S$ mw: 102.17
SYNS: 2-AMINO-2-THIAZOLINE ◻ 4,5-DIHYDRO-2-THIAZOLAMINE ◻ 2-IMINOTHIAZOLIDINE ◻ 2-THIAZOLAMINE, 4,5-DIHYDRO-(9CI) ◻ 2-THIAZOLINE, 2-AMINO- ◻ USAF PD-57
TOXICITY DATA with REFERENCE:
ipr-mus LD50:150 mg/kg NTIS** AD691-490
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TEW000 CAS: 92760-57-1 HR: D
1-(2-THIAZOLIDINYL)1,2,3,4,5-PENTANEPENTOL
mf: $C_8H_{17}NO_5S$ mw: 239.32
SYN: 2-(1,2,3,4,5-PENTAHYDROXY)-N-PENTYLTHIAZOLIDINE
TOXICITY DATA with REFERENCE:
mmo-sat 10 mg/L JAFCAU 28,62,80
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TEW100 CAS: 2719-23-5 HR: 3
N-2-THIAZOLYLACETAMIDE
mf: $C_5H_6N_2OS$ mw: 142.19
SYNS: ACETAMIDE, N-(2-THIAZOLYL)- ◻ 2-ACETAMIDOTHIAZOLE ◻ 2-ACETYLAMINOTHIAZOLE ◻ THIAZOLE, 2-ACETAMIDO-
TOXICITY DATA with REFERENCE:
ivn-mus LD50:178 mg/kg CSLNX* NX#00690
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TEX000 CAS: 148-79-8 HR: 2
2-(THIAZOL-4-YL)BENZIMIDAZOLE
mf: $C_{10}H_7N_3S$ mw: 201.26
PROP: White to tan; odorless. Mp: 304°. Insol in water; sltly sol in alc, acetone; very sltly sol in ether, chloroform.
SYNS: APL-LUSTER ◻ ARBOTECT ◻ 4-(2-BENZIMIDAZOLYL)THIAZOLE ◻ BOVIZOLE ◻ EPROFIL ◻ EQUIZOLE ◻ LOMBRISTOP ◻ MERTEC ◻ METASOL TK-100 ◻ MINTEZOL

□ MINZOLUM □ MK 360 □ MYCOZOL □ NEMAPAN □ OMNIZOLE □ POLIVAL □ TBDZ □ TECTO □ THIABEN □ THIABENDAZOLE (USDA) □ THIABENZOLE □ 2-(4-THIAZOLYL)BENZIMIDAZOLE □ 2-(4'-THIAZOLYL)BENZIMIDAZOLE □ 2-(4-THIAZOLYL)-1H-BENZIMIDAZOLE □ THIBENZOLE □ TOP FORM WORMER

TOXICITY DATA with REFERENCE:
oms-asn 80 µmol/L BBACAQ 543,82,78
sln-asn 20 mg/L EVHPAZ 31,81,79
orl-rat TDLo:175 g/kg/2Y-C:NEO FCTOD7 29,771,91
orl-man TDLo:47,619 µg/kg/1D-I JOPDAB 102,317,83
orl-rat LD50:2080 mg/kg SCIEAS 36(1-4),10,89
orl-mus LD50:1300 mg/kg GISAAA 55(10),28,90
orl-rbt LD50:3850 mg/kg 85DPAN -,-,71/76
orl-ckn LD50:4 g/kg VMDNAV 19(3),99,82
orl-dom LD50:400 mg/kg VMDNAV 19(3),99,82

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

SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. A questionable carcinogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also SULFIDES.

TEX200 CAS: 27146-15-2 HR: D
2-(4-THIAZOLYL)-5-BENZIMIDAZOLECARBAMIC ACID METHYL ESTER

mf: $C_{12}H_{10}N_4O_2S$ mw: 274.32

TOXICITY DATA with REFERENCE:
oms-hmn:leu 1 mg/L THERAP 31,505,76
oms-hmn:oth 2 mg/L THERAP 31,505,76

SAFETY PROFILE: An experimental teratogen. Human mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also CARBAMATES and ESTERS.

TEX210 CAS: 22394-38-3 HR: 3
3-(N-2-THIAZOLYLFORMIMIDOYL)INDOLE

mf: $C_{12}H_9N_3S$ mw: 227.30

SYN: INDOLE, 3-(N-2-THIAZOLYLFORMIMIDOYL)-

TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#01009

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

TEX220 CAS: 17766-79-9 HR: 3
4-(2-THIAZOLYL)PIPERAZINYL 3,4,5-TRIMETHOXYPHENYL KETONE

mf: $C_{17}H_{21}N_3O_4S$ mw: 363.47

SYNS: KETONE, 4-(2-THIAZOLYL)PIPERAZINYL 3,4,5-TRIMETHOXYPHENYL □ PIPERAZINE, 1-(2-THIAZOLYL)-4-(3,4,5-TRIMETHOXYBENZOYL)- □ 1-(2-THIAZOLYL)-4-(3,4,5-TRIMETHOXYBENZOYL)PIPERAZINE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:800 mg/kg JMCMAR 11,332,68

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 and SO_x.

TEX250 CAS: 72-14-0 HR: 3
N^1-2-THIAZOLYLSULFANILAMIDE

mf: $C_9H_9N_3O_2S_2$ mw: 255.33

PROP: Yellowish-white prismatic rods and six-sided plates and prisms. Dimorphic. Mp: 200−202° rods. Mp: *ca.* 1° (plates).

SYNS: 2-(p-AMINOBENZENESULFONAMIDO)THIAZOLE □ 2-(p-AMINOBENZENESULPHONAMIDO)THIAZOLE □ 4-AMINO-N-2-THIAZOLYLBENZENESULFONAMIDE □ AZOSEPTALE □ CERAZOL (suspension) □ CHEMOSEPT □ DUATOK □ ELEUDRON □ FORMOSULFATHIAZOLE □ M+B 760 □ NEOSTREPSAN □ NORSULFASOL □ NORSULFAZOLE □ PLANOMIDE □ POLISEPTIL □ RP 2990 □ STREPTOSILTHI-AZOLE □ SULFAMUL □ 2-SULFANILAMIDOTHIAZOLE □ 2-(SULFANILYLAMINO)THIAZOLE □ SULFATHIAZOL □ SULFATHIAZOLE (USDA) □ 2-SULFONAMIDOTHIAZOLE □ SULPHATHIAZOLE □ SULZOL □ THIACOCCINE □ THIAZAMIDE □ THIOZAMIDE □ USAF SN-9

TOXICITY DATA with REFERENCE:
dnd-esc 50 µmol/L MUREAV 89,95,81
pic-omi 5 mg/L JGMIAN 8,116,53
par-rat TDLo:500 mg/kg:ETA ACRAAX 37,258,52
unr-man LDLo:250 mg/kg/23D-I:EYE,KID,SKN JPBAA7 59,501,47
ipr-rat LDLo:1250 mg/kg HBTXAC 5,164,59
par-rat LDLo:1000 mg/kg ACRAAX 37,258,52
orl-mus LD50:4500 mg/kg ARZNAD 21,571,71
ipr-mus LD50:400 mg/kg NTIS** AD277-689
scu-mus LD50:1450 mg/kg HBTXAC 5,164,59
ivn-mus LD50:990 mg/kg HBTXAC 5,164,59

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

SAFETY PROFILE: Human poison by unspecified route. Experimental poison by intraperitoneal route. Moderately toxic by intravenous, subcutaneous, and parenteral routes. Mildly toxic by ingestion. Human systemic effects by unspecified route: conjunctiva irritation, tubule changes, and allergic skin dermatitis. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TEX500 CAS: 144-74-1 HR: 2
N^1-2-THIAZOLYSULFANILAMIDE SODIUM SALT

mf: $C_9H_9N_3O_2S_2$•Na mw: 278.32

PROP: Very sol in H_2O.

SYNS: MONOSODIUM-2-SULFANILAMIDOTHIAZOLE □ SODIUM NORSULFAZOLE □ SODIUM-2-SULFANILAMIDOTHIAZOLE □ SODIUM SULFATHIAZOLE □ SOLUBLE SULFATHIAZOLE □ 2-SULFANILAMIDOTHIAZOLE SODIUM SALT □ 2-SULFATHIAZOLE SODIUM □ N^1-2-THIAZOLYLSULFANIDAMIDE SODIUM SALT □ (N^1-2-THIAZOLYLSULFANIDAMIDO)SODIUM

TOXICITY DATA with REFERENCE:
ipr-rat LDLo:750 mg/kg PSEBAA 45,15,40
orl-mus LD50:3800 mg/kg AIPTAK 94,338,53
scu-mus LD50:1434 mg/kg JPETAB 71,138,41
ivn-mus LD50:950 mg/kg AIPTAK 94,338,53
par-mus LD50:1950 mg/kg PSEBAA 43,328,40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, subcutaneous, intravenous, and parenteral routes. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and Na_2O.

TEX550 CAS: 117718-60-2 HR: 2
THIAZOPHYR
mf: $C_{16}H_{17}F_5N_2O_2S$ mw: 396.41
SYNS: MON 13200 □ 3-PYRIDINECARBOXYLIC ACID, 2-(DIFLUOROMETHYL)-5-(4,5-DIHYDRO-2-THIAZOLYL)-4-(2-METHYLPROPYL)-6-(TRIFLUOROMETHYL)-, METHYL ESTER □ THIAZOPYR
SAFETY PROFILE: Questionable carcinogen. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and F^-.

TEX600 CAS: 51707-55-2 HR: 2
THIDIAZURON
mf: $C_9H_8N_4OS$ mw: 220.27
SYNS: DEFOLIT □ DROPP □ N-PHENYL-N'-1,2,3-THIADIAZ-OL-5-YL-UREA □ SN 49537 □ (N-1,2,3-THIADIAZOLYL-5)-N'-PHENYLUREA
TOXICITY DATA with REFERENCE:
orl-rat LD50:5350 mg/kg GISAAA 49(1),72,84
ipr-rat LD50:4200 mg/kg FMCHA2 -,C91,83
orl-mus LD50:3740 mg/kg GISAAA 49(1),72,84
orl-rbt LD50:7100 mg/kg GISAAA 49(1),72,84
orl-gpg LD50:2813 mg/kg GISAAA 49(1),72,84
SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

TEY000 CAS: 50-59-9 HR: 3
7-((2-THIENYL)ACETAMIDO)-3-(1-PYRIDYL-METHYL)CEPHALOSPORANIC ACID
mf: $C_{19}H_{17}N_3O_4S_2$ mw: 415.51
PROP: Sol in H_2O.
SYNS: ALIPORINA □ AMPLIGRAM □ BETAINE CEPHALO-RIDINE □ CEFALORIDIN □ CEFALORIDINE □ CEFALORIZIN □ CEFLORIN □ CEPALORIDIN □ CEPALORIN □ CEPH 87/4 □ CEPHALORIDIN □ CEPHALORIDINE □ CEPORAN □ CEPORINE □ CILIFOR □ DEFLORIN □ FAREDINA □ FLORIDIN □ GLAXORIDIN □ INTRASPORIN □ KEFLODIN □ LILLY 40602 □ LLONCEFAL □ LORIDIN □ SCH 11527 □ SEFACIN □ 7-(α-(2-THIENYL)ACETAMIDO)-3-(1-PYRIDYL-METHYL)-3-CEPHEM-4-CARBOXYLIC ACID BETAINE □ 7-(THIOPHENE-2-ACETAMIDO)-3-(1-PYRIDYLMETHYL)-3-CEPHEM-4-CARBOXYLIC ACID BETAINE
TOXICITY DATA with REFERENCE:
ivn-man LDLo:1137 mg/kg/4D:GIT,LIV JAMAAP 200,724,67
orl-rat LD50:2500 mg/kg TXAPA9 8,398,66
ipr-rat LD50:3170 mg/kg TXAPA9 18,185,71
scu-rat LD50:2500 mg/kg TXAPA9 8,398,66
ivn-rat LD50:1300 mg/kg AACHAX -,863,65
par-rat LD50:2500 μg/kg AACHAX -,863,65
scu-mus LD50:9600 mg/kg NIIRDN 6,409,82
ivn-mus LD50:2200 mg/kg TXAPA9 8,398,66
ims-mus LD50:7 g/kg BYYADW 3,220,78
ice-mus LD50:10 mg/kg CHTHBK 26,196,80
scu-gpg LD50:550 mg/kg TXAPA9 8,398,66
SAFETY PROFILE: Experimental poison by intracerebral route. Moderately toxic to humans by intravenous route. Moderately toxic experimentally by ingestion, subcutaneous, intraperitoneal, and intravenous routes. Human systemic effects by intravenous route: nausea or vomiting and fatty liver degeneration. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TEY250 CAS: 139-86-6 HR: D
2-THIENYLALANINE
mf: $C_7H_9NO_2S$ mw: 171.23
SYNS: α-AMINO-2-THIOPHENEPROPANOIC ACID □ β-2-THIENYLALANINE □ dl-β-2-THIENYLALANINE □ 2-THIOPHENEALANINE
TOXICITY DATA with REFERENCE:
mmo-omi 100 mg/L MUREAV 12,349,71
SAFETY PROFILE: Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TEY300 CAS: 64059-33-2 HR: 3
(THIENYL)HYDRAZINE
mf: $C_4H_6N_2S$ mw: 114.18
SYN: HYDRAZINE, (THIENYL)-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:80 mg/kg JPETAB 122,110,1958
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TEY600 CAS: 76175-45-6 HR: 3
2-(2-THIENYL)MORPHOLINE HYDROCHLORIDE
mf: $C_8H_{11}NOS{\bullet}ClH$ mw: 205.72
SYNS: M.G. 18590 □ 2-(2-TIENYL)MORFOLINA CLORIDRATE (ITALIAN)
TOXICITY DATA with REFERENCE:
ipr-rat LD50:300 mg/kg FRPSAX 35,812,80
orl-mus LD50:1220 mg/kg FRPSAX 35,812,80
ipr-mus LD50:225 mg/kg FRPSAX 35,812,80
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl.

TEY750 CAS: 17689-16-6 HR: 1
2-THIEPANONE
mf: $C_6H_{10}OS$ mw: 130.22
PROP: A liquid. Bp: 74–75° @ 1 mm.
SYNS: THIEPAN-2-ONE □ ε-THIOCAPROLACTONE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 85JCAE -,1090,86
eye-rbt 500 mg/24H MLD 85JCAE -,1090,86
SAFETY PROFILE: A skin and eye irritant. When heated to decomposition it emits toxic fumes of SO_x. See also SULFIDES.

TEZ000 CAS: 1179-69-7 HR: 3
THIETHYLPERAZINE MALEATE
mf: $C_{22}H_{29}N_3S_2{\bullet}2C_4H_4O_4$ mw: 631.82
PROP: Crystals from MeOH. Mp: 188–190° (decomp) (sinters at 1°).

SYNS: 3-ETHYLMERCAPTO-10-(1'-METHYLPIPERAZINYL-4'-PROPYL)PHENOTHIAZINE DIMALEATE ☐ 2-ETHYL-MERCAPTO-10-(3-(1-METHYL-4-PIPERAZINYL)PROPYL)-PHENOTHIAZINE DIMALEATE ☐ 2-(ETHYLTHIO)-10-(3-(4-METHYL-1-PIPERAZINYL)PROPYL)-10-PHENOTHIAZINE-(Z)-2-BUTENEDIOATE ☐ 2-(ETHYLTHIO)-10-(3-(4-METHYL-1-PIPERAZINYL)PROPYL)PHENOTHIAZINE DIMALEATE ☐ GS-95 ☐ NSC-130044 ☐ THIETHYLPERAZINE DIMALEATE ☐ TORECAN ☐ TORECAN BIMALEATE ☐ TORECAN DIMALEATE ☐ TORECAN MALEATE ☐ TORESTEN ☐ TRESTEN

TOXICITY DATA with REFERENCE:
orl-rat LD50:1260 mg/kg 27ZQAG -,51,72
ivn-rat LD50:90 mg/kg 27ZQAG -,51,72
orl-mus LD50:680 mg/kg 27ZQAG -,51,72
ipr-mus LD50:263 mg/kg 27ZQAG -,51,72
ivn-mus LD50:94 mg/kg 27ZQAG -,51,72
orl-rbt LD50:1050 mg/kg 27ZQAG -,51,72
ivn-rbt LD50:27 mg/kg 27ZQAG -,51,72

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. Used as an antiemetic. See also MERCAPTANS.

TEZ100 CAS: 2588-04-7 HR: 3
THIMET SULFONE
mf: $C_7H_{17}O_4PS_3$ mw: 292.39

SYNS: O,O-DIETHYL S-ETHSULFONYLMETHYL THIOTHION-OPHOSPHATE ☐ O,O-DIETHYL-S-ETHYLSULFONYL METHYL-PHOSPHORODITHIOATE ☐ O,O-DIETHYL S-ETHYLSUL-FONYLMETHYL THIONOPHOSPHATE ☐ METHANETHIOL, (ETHYLSULFONYL)-, S-ESTER WITH O,O-DIETHYL PHOSPHO-RODITHIOATE ☐ PHORATE SULFONE ☐ PHOSPHORODI-THIOIC ACID, O,O-DIETHYL S-((ETHYLSULFONYL)METHYL) ESTER

TOXICITY DATA with REFERENCE:
orl-rat LD50:1700 µg/kg 28ZEAL 4,164,69

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

TEZ200 CAS: 2588-03-6 HR: 3
THIMET SULFOXIDE
mf: $C_7H_{17}O_3PS_3$ mw: 276.39

SYNS: O,O-DIETHYL S-ETHTHIONYLMETHYL THIOTHION-OPHOSPHATE ☐ O,O-DIETHYL-S-ETHYLTHIONYLMETHYL-PHOSPHORODITHIOATE ☐ O,O-DIETHYL-S-ETHYLTHIONYL-METHYL THIONOPHOSPHATE ☐ PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-((ETHYLSULFINYL)METHYL) ESTER

TOXICITY DATA with REFERENCE:
orl-rat LD50:2 mg/kg 28ZEAL 4,165,69

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

TFA000 CAS: 62-55-5 HR: 3
THIOACETAMIDE
mf: C_2H_5NS mw: 75.14

PROP: Colorless leaflets or prisms from Et_2O; mercaptan odor. Mp: 113°. Very sol in alc; sol in water; mod sol in Et_2O, C_6H_6.

SYNS: ACETOTHIOAMIDE ☐ ETHANETHIOAMIDE ☐ RCRA WASTE NUMBER U218 ☐ TAA ☐ THIACETAMIDE ☐ USAF CB-21 ☐ USAF EK-1719

TOXICITY DATA with REFERENCE:
mmo-smc 19,900 µmol/L MGGEAE 174,39,79
otr-rat:emb 30 mg/L JJIND8 67,1303,81
orl-rat TDLo:7350 mg/kg/40W-C:CAR JJIND8 79,1047,87
orl-rat TD:5140 mg/kg/47W-C:ETA,TER JPBAA7 72,415,56
orl-rat LD50:301 mg/kg TXAPA9 27,380,74
ipr-mus LD50:300 mg/kg NTIS** AD277-689
scu-mus LDLo:2000 mg/kg AIPTAK 12,447,04

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 7,77,74. EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. Poison by ingestion and intraperitoneal routes. Moderately toxic by subcutaneous route. Human mutation data reported. An experimental teratogen. Experimental reproductive effects. Exposure has caused liver damage. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFIDES and MERCAPTANS.

TFA250 CAS: 637-53-6 HR: 3
THIOACETANILIDE
mf: C_8H_9NS mw: 151.24

PROP: Needles or crystals from water. Mp: 76−79°, bp: decomp. Insol in water, acid; sol in alkali.

SYNS: N-PHENYLTHIOACETAMIDE ☐ USAF EK-1902

TOXICITY DATA with REFERENCE:
orl-rat LD50:2635 mg/kg GISAAA 51(2),72,86
orl-mus LD50:2625 mg/kg GISAAA 51(2),72,86
ipr-mus LD50:300 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TFA350 CAS: 531-72-6 HR: 3
THIOACETARSAMIDE
mf: $C_{11}H_{12}AsNO_5S_2$ mw: 377.28

PROP: White, crystalline powder from water. Mp: 168−169°. Sol in cold H_2O, EtOH, MeOH; very sol in warm solvs.

SYNS: ACETIC ACID, 2,2'-(((4-(AMINOCARBONYL)PHENYL)-ARSINIDENE)BIS(THIO))BIS-(9CI) ☐ (((4-(AMINOCARBONYL)-PHENYL)ARSINIDINE)BIS(THIO))BIACETIC ACID ☐ ARSENAMIDE ☐ p-(BIS(CARBOXYMETHYLMERCAPTO)-ARSINO)BENZAMIDE ☐ BIS(CARBOXYMETHYLMERCAPTO)(p-CARBAMYLPHENYL)-ARSINE ☐ CAPARISIDE ☐ CAPARSOL-ATE ☐ 4-CARBAMYLPHENYL BIS(CARBOXYMETHYLTHIO)-ARSENITE ☐ DITHIOGLYCOLYL p-ARSENOBENZAMIDE ☐ THIACETARSAMIDE ☐ THIOARSENITE

TOXICITY DATA with REFERENCE:
dnr-esc 16 µg/well ENMUDM 3,429,81

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

ACGIH TLV: BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine
SAFETY PROFILE: Possibly a poison. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x, SO_x, and As.

TFA500 CAS: 507-09-5 HR: 3
THIOACETIC ACID
DOT: UN 2436
mf: C_2H_4OS mw: 76.12
PROP: Colorless liquid or yellow fuming liquid; pungent, disagreeable odor. Mp: <−17°, bp: 93°, d: 1.074 @ 10°/4°, flash p: <73.4°. Sol in water; misc in alc, ether.
SYNS: ACETYL MERCAPTAN □ ETHANETHIOIC ACID □ ETHANETHIOLIC ACID □ KYSELINA THIOOCTOVA □ METHANECARBOTHIOLIC ACID □ THIACETIC ACID □ THIOLACETIC ACID □ THIONOACETIC ACID □ USAF EK-P-737
TOXICITY DATA with REFERENCE:
ipr-mus LD50:75 mg/kg NTIS** AD691-490
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Poison by intraperitoneal route. A very dangerous fire hazard when exposed to heat or flame. When heated to decomposition it emits toxic fumes of SO_x. See also SULFIDES and MERCAPTANS.

TFC250 CAS: 100-68-5 HR: 3
THIOANISOLE
mf: C_7H_8S mw: 124.21
PROP: A liquid. Mp: −15°, bp: 194−196°, refr index: 1.5865, d: 1.058, flash p: 135°F.
SYN: (METHYLTHIO)BENZENE
TOXICITY DATA with REFERENCE:
orl-rat LD50:891 mg/kg PCBPBS 1,356,71
ivn-mus LD50:56 mg/kg CSLNX* NX#00184
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. A flammable liquid when exposed to heat, sparks, or flame. When heated to decomposition it emits toxic fumes of SO_x.

TFC500 CAS: 1401-63-4 HR: 3
THIOAURIN
mf: $C_{14}H_{12}N_4O_4S_4$ mw: 428.54
PROP: Isolated from *Streptomyces sp* (ANTCAO 3,382,53).
SYNS: ANTIBIOTIC HA-9 □ OROSOMYCIN
TOXICITY DATA with REFERENCE:
scu-mus LD50:20 mg/kg ANTCAO 3,385,53
ivn-mus LD50:15 mg/kg ANTCAO 3,385,53
ivn-dog LDLo:7800 µg/kg ANTCAO 3,385,53
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TFC550 CAS: 98-91-9 HR: 3
THIOBENZOIC ACID
mf: C_7H_6OS mw: 138.19
SYNS: ACIDO MERCAPTOBENZOICO □ BENZENECARBOTHIOIC ACID □ BENZOIC ACID, THIO- □ BENZOYL THIOL □ MONOTHIOBENZOIC ACID
TOXICITY DATA with REFERENCE:
ipr-rat LD50:350 mg/kg BCFAAI 112,53,73
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of SO_x.

TFC570 CAS: 10021-35-9 HR: 3
2-THIO-2H-1,3-BENZOXAZINE-2,4(3H)-DIONE
mf: $C_8H_5NO_2S$ mw: 179.20
SYNS: 2H-1,3-BENZOXAZINE-2,4(3H)-DIONE, 2-THIO- □ 2,3-DIHYDRO-1,3-BENZOXAZINE-4H-2-THIONE-4-ONE
TOXICITY DATA with REFERENCE:
orl-mus LD50:200 mg/kg USXXAM #3595959
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TFC600 CAS: 96-69-5 HR: 3
4,4′-THIOBIS(6-tert-BUTYL-m-CRESOL)
mf: $C_{22}H_{30}O_2S$ mw: 358.58
PROP: Light-gray to tan powder. Mp: 150°, d: 1.10.
SYNS: BIS(3-tert-BUTYL-4-HYDROXY-6-METHYLPHENYL) SULFIDE □ BIS(4-HYDROXY-5-tert-BUTYL-2-METHYLPHENYL) SULFIDE □ DISPERSE MB-61 □ SANTONOX □ SANTOWHITE CRYSTALS □ THIOALKOFEN BM 4 □ 4,4'-THIOBIS(2-tert-BUTYL-5-METHYLPHENOL) □ 4,4'-THIOBIS(6-tert-BUTYL-3-METHYLPHENOL) □ 4,4'-THIOBIS(3-METHYL-6-tert-BUTYLPHENOL) □ 1,1'-THIOBIS(2-METHYL-4-HYDROXY-5-tert-BUTYLBENZENE) □ USAF B-15 □ YOSHINOX S
TOXICITY DATA with REFERENCE:
orl-rat LD50:2345 mg/kg IPSTB3 3,93,76
ipr-mus LD50:50 mg/kg NTIS** AD277-689
orl-rbt LD50:3200 mg/kg IPSTB3 3,93,76
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 10 mg/m^3; Not Classifiable as a Human Carcinogen
NIOSH REL: (4,4'-Thiobis(6-t-butyl-m-cresol), Dust): TWA 10 mg/m^3; air: TWA 5 mg/m^3
SAFETY PROFILE: Poison by intraperitoneal route and probably by ingestion and inhalation. Mutation data reported. See also SULFIDES. When heated to decomposition it emits highly toxic fumes of SO_x.

TFD000 CAS: 96-66-2 HR: 1
4,4′-THIOBIS(6-tert-BUTYL-o-CRESOL)
mf: $C_{22}H_{30}O_2S$ mw: 358.58
PROP: Light gray to tan powder. Mp: 127°, d: 1.10, bp: 312° @ 40 mm.
SYNS: ANTIOXIDANT 736 □ E 736 □ ETHANOX 736 □ ETHYL 736 □ ETHYL ANTIOXIDANT 736 □ TB 2 □ THIOALKOFEN BM □ 4,4'-THIOBIS(2-(1,1-DIMETHYLETHYL))-6-METHYLPHENOL □ TIOALKOFEN BM
TOXICITY DATA with REFERENCE:

orl-mam LD50:6340 mg/kg RCTEA4 45,627,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x.

TFD250 CAS: 97-18-7 HR: 3
2,2'-THIOBIS(4,6-DICHLOROPHENOL)
mf: $C_{12}H_6Cl_4O_2S$ mw: 356.04
PROP: White crystalline powder; very faint phenolic odor. Mp: 187−188°, d: 1.61 @ 25°, vap press: 1.1×10^{-9} mm @ 37°. Sol in dil alkalies.
SYNS: ACTAMER ◻ BIDIPHEN ◻ BIS(2-HYDROXY-3,5-DICHLOROPHENYL) SULFIDE ◻ BITHIONOL ◻ BITHIONOL SULFIDE ◻ BITIN ◻ CP 3438 ◻ 2,2'-DIHYDROXY-3,3',5,5'-TETRACHLORODIPHENYLSULFIDE ◻ 2-HYDROXY-3,5-DICHLOROPHENYL SULPHIDE ◻ LOROTHIDOL ◻ NCI-C60628 ◻ NEOPELLIS ◻ TBP ◻ USAF B-22 ◻ VANCIDE BL ◻ XL 7
TOXICITY DATA with REFERENCE:
orl-rat LD50:7 mg/kg CLDND* 6,612,82
orl-mus LD50:760 mg/kg NIIRDN 6,612,82
ipr-mus LD50:100 mg/kg NTIS** AD277-689
ivn-mus LD50:18 mg/kg CSLNX* NX#01763
CONSENSUS REPORTS: Chlorophenol compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. Questionable carcinogen with experimental tumorigenic data. A food additive permitted in feed and drinking water of animals and for the treatment of food-producing animals. Also a food additive permitted in food for human consumption. When heated to decomposition it emits very toxic fumes of Cl^- and SO_x. See also CHLOROPHENOLS.

TFD500 CAS: 123-28-4 HR: 1
THIOBIS(DODECYL PROPIONATE)
mf: $C_{30}H_{58}O_4S$ mw: 514.94
PROP: White crystalline flakes; characteristic sweetish odor. Sol in org solvs; insol in water.
SYNS: ADVASTAB 800 ◻ ANTIOXIDANT AS ◻ ANTIOXIDANT LTDP ◻ BIS(DODECYLOXYCARBONYLETHYL) SULFIDE ◻ CARSTAB DLTDP ◻ CYANOX LTDP ◻ DIDODECYL 3,3'-THIODIPROPIONATE ◻ DILAURYLESTER KYSELINY β',β'-THIODIPROPIONOVE ◻ DILAURYL THIODIPROPIONATE ◻ DILAURYL β-THIODIPROPIONATE ◻ DILAURYL β',β'-THIODIPROPIONATE ◻ DILAURYL 3,3'-THIODIPROPIONATE ◻ DLT ◻ DLTDP ◻ DLTP ◻ DMPTP ◻ IPOGNOX 89 ◻ IRGANOX PS 800 ◻ LAURYL 3,3'-THIODIPROPIONATE ◻ LUSMIT ◻ MILBAN F ◻ NEGANOX DLTP ◻ PLASTANOX LTDP ◻ PLASTANOX LTDP ANTIOXIDANT ◻ PROPANOIC ACID, 3,3'-THIOBIS-, DIDODECYL ESTER ◻ STABILIZER DLT ◻ TYOX B
TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H MOD 28ZPAK -,174,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: An eye irritant. When heated to decomposition it emits toxic fumes of SO_x.

TFD750 CAS: 91-71-4 HR: 3
THIOCARBAMIZINE
mf: $C_{21}H_{17}AsN_2O_5S_2$ mw: 516.44
PROP: White crystal powder. Sltly sol in water, alc, and alkali; insol in acids.
SYNS: 2,2'-(((4-((AMINOCARBONYL)AMINO)PHENYL)ARSINIDENEBIS(THIO)) BIS) BENZOIC ACID ◻ p-(BIS(o-CARBOXYPHENYLMERCAPTO)-ARSINO)-PHENYLUREA ◻ p-CARBAMIDOPHENYL-BIS(2-CARBOXYPHENYLMERCAPTO)ARSINE ◻ 4-CARBAMIDOPHENYL BIS(o-CARBOXYPHENYLTHIO)ARSENITE ◻ p-CARBAMIDOPHENYL-DI(1'-CARBOXYPHENYL-2')THIOARSENITE ◻ S,S-DIESTER with DITHIO-p-UREIDOBENZENEARSONOUS ACID o-MERCAPTOBENZOIC ACID ◻ DIESTER with o-MERCAPTOBENZOIC ACID DITHIO-p-UREIDOBENZENEARSONOUS ACID ◻ o-MERCAPTOBENZOIC ACID, DIESTER with DITHIO-p-UREIDOBENZENEARSONOUS ACID ◻ THIOCARBAMISIN ◻ (p-UREIDOBENZENEARSYLENEDITHIO)DI-o-BENZOIC ACID ◻ (p-UREIDOPHENYLARSYLENEDITHIO)DI-o-BENZOIC ACID
TOXICITY DATA with REFERENCE:
orl-rat LD50:1220 mg/kg JPETAB 91,112,47
ipr-rat LD50:76 mg/kg JPETAB 91,112,47
ivn-rat LD50:70 mg/kg JPETAB 91,112,47
ipr-mus LD50:265 mg/kg JPETAB 91,112,47
ivn-mus LD50:120 mg/kg JPETAB 91,112,47
ivn-rbt LDLo:100 mg/kg JPETAB 91,112,47
CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.5 mg(As)/m^3
ACGIH TLV: BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of As, SO_x, and NO_x. See also MERCAPTANS and ARSENIC COMPOUNDS.

TFE250 CAS: 2231-57-4 HR: 3
THIOCARBOHYDRAZIDE
mf: CH_6N_4S mw: 106.17
PROP: Crystals from water. Mp: 164°.
SYNS: CARBONOTHIOIC DIHYDRAZIDE ◻ HYDRAZINECARBOHYDRAZONOTHIOIC ACID ◻ TCH ◻ THIOCARBAZIDE ◻ THIOCARBONIC DIHYDRAZIDE ◻ THIOCARBONOHYDRAZIDE ◻ USAF EK-7372
TOXICITY DATA with REFERENCE:
orl-rat LDLo:10 mg/kg NCNSA6 5,44,53
ipr-mus LDLo:5 mg/kg NTIS** AD277-689
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 very toxic fumes of NO_x and SO_x. See also SULFIDES.

TFE275 HR: 3
THIOCARBONYL AZIDE THIOCYANATE
mf: $C_2N_4S_2$ mw: 144.17
SAFETY PROFILE: An unstable explosive. Explosive reaction with ammonia gas; concentrated hydrazine solutions. When heated to decomposition it emits toxic

fumes of SO_x and NO_x. See also CARBONYLS, AZIDES, and THIOCYANATES.

TFE300 CAS: 41219-25-4 HR: 3
4-THIOCHROMANYL-o,o-DIMETHYL DITHIOPHOSPHATE
mf: $C_{11}H_{15}O_2PS_3$ mw: 306.41
SYNS: S-(3,4-DIHYDRO-2H-1-BENZOTHIOPYRAN-4-YL) o,o-DIMETHYL PHOSPHORODITHIOATE □ PHOSPHORODITHIOIC ACID, S-(3,4-DIHYDRO-2H-1-BENZOTHIOPYRAN-4-YL) o,o-DIMETHYL ESTER
TOXICITY DATA with REFERENCE:
orl-rat LD50:5 mg/kg USXXAM #3883552
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of PO_x and SO_x.

TFE325 CAS: 602-41-5 HR: 3
10-THIOCOLCHICOSIDE
mf: $C_{27}H_{33}NO_{10}S$ mw: 563.67
PROP: Yellow crystals. Mp: 220° (decomp).
SYN: THIOCOLCHICOSIDE
TOXICITY DATA with REFERENCE:
ivn-rat LD50:10 mg/kg AIPTAK 109,386,57
ims-rat LD50:27,500 µg/kg AIPTAK 109,386,57
ice-rat LDLo:1 µg/kg AIPTAK 109,386,57
par-rat LDLo:1 µg/kg FRPSAX 15,533,60
ipr-mus LD50:1 mg/kg FRPSAX 15,533,60
SAFETY PROFILE: Poison by intramuscular, intracerebral, parenteral, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

TFE500 HR: D
THIOCYANATES
SAFETY PROFILE: Variable toxicity. Thiocyanates are not normally dissociated into cyanide; they have a low acute toxicity. Prolonged absorption may produce various skin eruptions, running nose, and occasionally dizziness, cramps, nausea, vomiting, and mild or severe disturbances of the nervous system. Violent reactions have occurred when mixed with chlorates, nitrates, HNO_3, organic peroxides, peroxides, $KClO_3$, $NaClO_3$. Metal thiocyanates are oxidized explosively by chlorates, nitrates at 400° in intimate mixture, HNO_3, or spark or flame ignition. When heated to decomposition or on contact with acid or acid fumes they emit highly toxic fumes of CN^-.

TFF000 CAS: 5349-27-9 HR: 2
THIOCYANATOACETIC ACID CYCLOHEXYL ESTER
mf: $C_9H_{13}NO_2S$ mw: 199.29
SYNS: CYKLOHEXYLESTER KYSELINY THIOKYANOOCTOVE (CZECH) □ CYKLOHEXYLTHIOKYANOACETAT (CZECH)
TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H MLD 28ZPAK -,175,72
orl-rat LD50:1180 mg/kg 28ZPAK -,175,72
SAFETY PROFILE: Moderately toxic by ingestion. An eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also ESTERS and THIOCYANATES.

TFF100 CAS: 5349-28-0 HR: 3
THIOCYANATOACETIC ACID ETHYL ESTER
mf: $C_5H_7NO_2S$ mw: 145.19
SYNS: ETHYL THIOCYANATOACETATE □ ETHYL THIOCYANOACETATE □ REE □ THIOCYANO-ESSIGSAEURE-AETHYL-ESTER (GERMAN)
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:20 mg/kg ARZNAD 16,870,66
orl-mus LD50:52 mg/kg JJPAAZ 3,99,54
ipr-mus LD50:18,300 µg/kg JJPAAZ 3,99,54
scu-mus LD50:39,100 µg/kg JJPAAZ 3,99,54
ivn-mus LD50:6 mg/kg JJPAAZ 3,99,54
scu-rbt LD50:10 mg/kg JJPAAZ 3,99,54
ims-pgn LD50:20 mg/kg JJPAAZ 3,99,54
SAFETY PROFILE: Poison by ingestion, intramuscular, subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x, CN^-, and NO_x. See also ESTERS and THIOCYANATES.

TFF150 CAS: 5349-21-3 HR: 3
THIOCYANATOACETIC ACID PROPYL ESTER
mf: $C_6H_9NO_2S$ mw: 159.22
SYNS: ACETIC ACID, THIOCYANATO-, PROPYL ESTER □ PROPYL THIOCYANATOACETATE □ THIOCYANO-ESSIGSAEURE-N-PROPYL-ESTER
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:40 mg/kg ARZNAD 16,870,1966
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TFF200 CAS: 4617-17-8 HR: 2
THIOCYANIC ACID, DIESTER WITH DIETHYLENE GLYCOL
mf: $C_6H_8N_2OS_2$ mw: 188.28
SYNS: BIS(2-THIOCYANATOETHYL) ETHER □ THIOCYANIC ACID, OXYDI-2,1-ETHANEDIYL ESTER □ THIOCYANIC ACID, OXYDIETHYLENE ESTER
TOXICITY DATA with REFERENCE:
ipr-mus LD :>500 mg/kg CBCCT* 6,63,54
CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TFF250 CAS: 593-84-0 HR: 3
THIOCYANIC ACID compounded with GUANIDINE (1:1)
mf: CH_5N_3•CHNS mw: 118.18
SYNS: GUANIDINE THIOCYANATE □ GUANIDINIUM THIOCYANATE □ USAF EK-705
TOXICITY DATA with REFERENCE:
ipr-mus LD50:300 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x, CN^-, and SO_x. See also THIOCYANATES.

TFF500 CAS: 556-65-0 HR: 3
THIOCYANIC ACID, LITHIUM SALT (1:1)
mf: CNS•Li mw: 58.08
PROP: White deliq crystals. Very sol in water.
SYNS: LITHIUMRHODANID □ LITHIUM SULFOCYANATE □ LITHIUM THIOCYANATE
TOXICITY DATA with REFERENCE:
orl-mus LDLo:210 mg/kg AEPPAE 169,429,33
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion. Decomposes in air at 650°C to yield small amounts of cyanide. The presence of water or 1,3-dioxolane increase the amount of cyanide gas evolved. When heated to decomposition it emits very toxic fumes of CN^-, NO_x, SO_x, and Li_2O. See also LITHIUM COMPOUNDS and THIOCYANATES.

TFF600 CAS: 5285-87-0 HR: 3
THIOCYANIC ACID, PHENYL ESTER
mf: C_7H_5NS mw: 135.19
SYNS: PHENYLRHODANID □ PHENYL THIOCYANATE □ THIOCYANATOBENZENE
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:40 mg/kg ARZNAD 16,870,1966
orl-mus LD50:80 mg/kg JJPAAZ 3,99,1954
ipr-mus LD50:20 mg/kg JJPAAZ 3,99,1954
scu-mus LD50:80 mg/kg JJPAAZ 3,99,1954
ivn-mus LD50:6700 µg/kg JJPAAZ 3,99,1954
ivn-rbt LDLo:40 mg/kg AEPPAE 150,257,1930
SAFETY PROFILE: A poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TFF700 CAS: 20233-04-9 HR: 3
THIOCYANIC ACID, TRICHLOROMETHYL ESTER
mf: C_2Cl_3NS mw: 176.44
TOXICITY DATA with REFERENCE:
ivn-mus LD50:4500 µg/kg CBCCT* 6,142,54
par-mus LDLo:10 mg/kg CBCCT* 7,695,55
ivn-rbt LD50:3200 µg/kg CBCCT* 6,142,54
SAFETY PROFILE: A poison by intravenous and parenteral routes. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Cl^-.

TFH500 CAS: 7152-80-9 HR: 3
4-THIOCYANO-N,N-DIMETHYLANILINE
mf: $C_9H_{10}N_2S$ mw: 178.27
SYNS: DEFOLIANT 2929 RP □ 4-(DIMETHYLAMINO)PHENYL ESTER THIOCYANIC ACID □ p-(DIMETHYLAMINO)-PHENYLTHIOCYANATE □ DIMETHYLAMINORHODAN-BENZOL □ p-N,N-DIMETHYLAMINOTHIOCYANOBENZENE □ DIMETHYLAMINO-4-THIOCYANOBENZENE □ p-(DIMETHYLAMINO)THIOCYANOBENZENE □ 4-DIMETHYLAMINO-THIOCYANOBENZENE □ RP 2929 □ THIOCYANIC ACID-p-DIMETHYLAMINOPHENYL ESTER □ p-THIOCYANO-DIMETHYLANILINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:500 mg/kg TXAPA9 28,313,74
orl-mus LD50:150 mg/kg 28ZEAL 4,181,69
ipr-mus LD50:55 mg/kg JJPAAZ 3,99,54
scu-mus LD50:150 mg/kg JJPAAZ 3,99,54
ivn-mus LD50:56 mg/kg CSLNX* NX#02758
skn-rbt LD50:1260 mg/kg TXAPA9 28,313,74
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by skin contact. When heated to decomposition it emits very toxic fumes of NO_x, CN^-, and SO_x. See also ESTERS.

TFH600 CAS: 505-14-6 HR: 3
THIOCYANOGEN
mf: $C_2N_2S_2$ mw: 116.16
PROP: White crystals or orange liquid. Mp: 15−16°. Stable as 0.1 M soln over 8 D.
SAFETY PROFILE: Polymerizes explosively above its melting point −2°C. When heated to decomposition it emits toxic fumes of NO_x, CN^- and SO_x.

TFH750 CAS: 31895-22-4 HR: 3
THIOCYCLAM HYDROGEN OXALATE
mf: $C_5H_{11}NS_3$•$C_2H_2O_4$ mw: 271.39
PROP: Crystals. Mod sol in H_2O; spar sol in Me_2CO, Et_2O, EtOH and xylene.
SYNS: 5-DIMETHYLAMINO-1,2,3-TRITHIANE HYDROGENOXALATE □ N,N-DIMETHYL-1,2,3-TRITHIAN-5-AMINE, ETHANEDIOATE (1:1) □ N,N-DIMETHYL-1,2,3-TRITHIAN-5-AMINE HYDROGENOXALATE □ N,N-DIMETHYL-1,2,3-TRITHIAN-5-YLAMMONIUM HYDROGEN OXALATE □ EVISECT □ EVISEKT □ SAN 155 □ SAN 1551 □ SAN 155 I □ THIOCYCLAM (ETHANEDIOATE 1:1)
TOXICITY DATA with REFERENCE:
orl-rat LD50:195 mg/kg KSKZAN 16(2),59,78
skn-rat LD50:1000 mg/kg FMCHA2 -,C234,83
orl-mus LD50:273 mg/kg SPEADM 78-1,24,78
orl-dog LD50:1000 mg/kg SPEADM 78-1,24,78
SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. When heated to decomposition it emits very toxic fumes of NO_x, NH_3, and SO_x.

TFH800 CAS: 333-49-3 HR: 3
2-THIOCYTOSINE
mf: $C_4H_5N_3S$ mw: 127.18
SYNS: 2(1H)-PYRIMIDINETHIONE, 4-AMINO- □ THIOCYTOSINE
TOXICITY DATA with REFERENCE:
dni-hmn:lyms 100 mmol/L CYTBAI 5,97,72
oth-hmn:lyms 5 mmol/L CYTBAI 5,97,72
ipr-mus LD50:255 mg/kg ARZNAD 31,1713,81
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 NO_x and SO_x.

TFI000 CAS: 139-65-1 HR: 3
4,4′-THIODIANILINE
mf: $C_{12}H_{12}N_2S$ mw: 216.32
PROP: Needles from water. Mp: 108°. Sol in aq HCl; insol in H_2O.
SYNS: BIS(p-AMINOPHENYL)SULFIDE □ BIS(4-AMINO-PHENYL) SULFIDE □ BIS(p-AMINOPHENYL)SULPHIDE □ BIS(4-AMINOPHENYL) SULPHIDE □ p,p'-DIAMINODIPHENYL

SULFIDE □ 4,4'-DIAMINODIPHENYL SULFIDE □ p,p'-DIAMINODIPHENYL SULPHIDE □ DI(p-AMINOPHENYL) SULFIDE □ DI(p-AMINOPHENYL)SULPHIDE □ NCI-C01707 □ THIOANILINE □ 4,4'-THIOANILINE □ 4,4'-THIOBIS(ANILINE) □ 4,4'-THIOBISBENZENAMINE □ p,p-THIODIANILINE □ THIODI-p-PHENYLENEDIAMINE

TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate MUREAV 67,123,79
mma-sat 10 µg/plate MUREAV 67,123,79
orl-rat TDLo:3600 mg/kg/27D-I:CAR CNREA8 28,924,68
orl-rat LD50:1100 mg/kg MarJV# 29MAR77
orl-mus LD50:620 mg/kg 85GMAT -,43,82
ivn-mus LD50:180 mg/kg CSLNX* NX#01564

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Human Limited Evidence IMEMDT 27,147,82; Animal Sufficient Evidence IMEMDT 27,147,82; Animal Limited Evidence IMEMDT 16,343,78. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-47,78. Reported in EPA TSCA Inventory. Community Right-To-Know List.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Poison by intravenous route. Moderately toxic by ingestion. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also SULFIDES.

TFI100 CAS: 4275-28-9 HR: 3
2,2′-THIODIETHANOL DIACETATE

mf: $C_8H_{14}O_4S$ mw: 206.28

SYNS: ETHANOL, 2,2'-THIODI-, DIACETATE □ BIS(β-THIOETHYL ACETATE)

TOXICITY DATA with REFERENCE:
orl-rat LD50:8200 µL/kg JPETAB 93,26,48
orl-mus LD50:7200 µL/kg JPETAB 93,26,48
scu-mus LDLo:>850 mg/kg JPETAB 16,259,20

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

TFI500 CAS: 111-48-8 HR: 2
β-THIODIGLYCOL

mf: $C_4H_{10}O_2S$ mw: 122.20

PROP: Syrupy, colorless liquid; characteristic odor. Mp: −16°, bp: 164−166° @ 20 mm, flash p: 320°F (OC), d: 1.1847 @ 20/20°, vap d: 4.21. Misc in water; sol in chloroform.

SYNS: BIS(β-HYDROXYETHYL)SULFIDE □ BIS(2-HYDROXYETHYL)SULFIDE □ β,β'-DIHYDROXYDIETHYL SULFIDE □ β,β'-DIHYDROXYETHYL SULFIDE □ GLYECINE A □ β-HYDROXYETHYL SULFIDE □ KROMFAX SOLVENT □ 2,2'-THIODIETHANOL □ THIODIETHYLENE GLYCOL □ THIODIGLYCOL

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 11/3/71
eye-rbt 500 mg AJOPAA 29,1363,46
orl-rat LD50:6610 mg/kg JIDHAN 23,259,41
scu-rat LD50:4000 mg/kg JPETAB 93,1,48
scu-mus LD50:4000 mg/kg JPETAB 93,1,48
ivn-rbt LD50:3000 mg/kg JPETAB 93,1,48
orl-gpg LD50:3960 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, intravenous, and subcutaneous routes. A skin and eye irritant. Combustible when exposed to heat or flame. Reacts violently with acetone + sodium peroxide. Can react with oxidizing materials. To fight fire, use alcohol foam, CO_2, dry chemical. When heated to decomposition it emits highly toxic fumes of SO_x.

TFJ000 CAS: 2664-63-3 HR: 2
4,4′-THIODIPHENOL

mf: $C_{12}H_{10}O_2S$ mw: 218.28

PROP: Crystals or leaflets from alc. Mp: 152°.

SYNS: BIS(4-HYDROXYPHENYL) SULFIDE □ 4,4'-DIHYDROXYDIPHENYL SULFIDE □ 4,4'-DIOXYDIPHENYLSULFIDE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD BIOFX* A408,71
eye-rbt 100 mg SEV BIOFX* A408,71
orl-rat LD50:3362 mg/kg BIOFX* A408,71
orl-mus LD50:5500 mg/kg TPKVAL 13,154,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TFJ100 CAS: 68-11-1 HR: 3
THIOGLYCOLIC ACID

DOT: UN 1940

mf: $C_2H_4O_2S$ mw: 92.12

PROP: Liquid, strong odor. Mp: −16.5°, bp: 108° @ 15 mm. Misc with water, alc, ether, chloroform, and benzene.

SYNS: ACIDE THIOGLYCOLIQUE (FRENCH) □ GLYCOLIC ACID, THIO- □ GLYCOLIC ACID, 2-THIO- □ KYSELINA MERKAPTOOCTOVA □ KYSELINA THIOGLYKOLOVA □ MERCAPTOACETATE □ MERCAPTOACETIC ACID □ α-MERCAPTOACETIC ACID □ 2-MERCAPTOACETIC ACID □ 2-THIOGLYCOLIC ACID □ THIOGLYCOLLIC ACID □ THIOVANIC ACID □ USAF CB-35

TOXICITY DATA with REFERENCE:
skn-hmn 3% INMEAF 15,669,46
orl-rat LD50:114 mg/kg ZHYGAM 20,575,74
ipr-rat LD50:70 mg/kg ZHYGAM 20,575,74
orl-mus LD50:242 mg/kg ZHYGAM 20,575,74
ipr-mus LD50:138 mg/kg ARZNAD 31,1713,81
skn-mus LD50:47 mg/kg SCIEAS 36(1-4),10,89
scu-mus LDLo:1000 mg/kg AIPTAK 12,447,04
ivn-mus LD50:145 mg/kg NYKZAU 60,278,64
orl-rbt LD50:119 mg/kg ZHYGAM 20,575,74
skn-rbt LDLo:300 mg/kg GTPZAB 13,48,69
ivn-rbt LD50:100 mg/kg BIJOAK 41,325,47
orl-gpg LD50:126 mg/kg 34ZIAG -,586,69
ipr-gpg LD50:157 mg/kg ZHYGAM 20,575,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 1 ppm (skin)

ACGIH TLV: TWA 1 ppm (skin)

DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: Poison by ingestion, skin contact, intraperitoneal, and intravenous routes. Moderately toxic by subcutaneous route. A corrosive irritant to skin, eyes, and mucous membranes. When heated to decomposition it emits toxic fumes of SO_x. See also MERCAPTANS and HYDROGEN SULFIDE.

TFJ200 CAS: 789-61-7 HR: 2
THIOGUANINE DEOXYRIBOSIDE
mf: $C_{10}H_{13}N_5O_3S$ mw: 283.34
SYNS: β-2'-DEOXYTHIOGUANOSINE □ 2'-DEOXYTHIOGUANOSINE □ GUANOSINE, 2'-DEOXY-6-THIO- □ NCI-C01581 □ TGDR □ 9H-PURINE-6(1H)-THIONE, 2-AMINO-9-(2-DEOXY-β-d-ERYTHRO-PENTOFURANOSYL)- □ β-THIOGUANINE DEOXYRIBOSIDE
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (ipr). clear evidence: rat, NCITR* NCI-TR-57,1978; NCI Carcinogenesis Bioassay (ipr). inadequate studies:mouse, NCITR* NCI-TR-57,1978
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TFJ250 CAS: 64039-27-6 HR: 3
β-THIOGUANINE DEOXYRIBOSIDE
mf: $C_{10}H_{13}N_5O_3S{\bullet}H_2O$ mw: 301.36
SYNS: 2-AMINO-9-(2-DEOXY-β-d-RIBOFURANOSYL)-9H-PURINE-6-THIOL HYDRATE □ β-DEOXYTHIOGUANOSINE □ β-2'-DEOXY-6-THIOGUANOSINE MONOHYDRATE □ NSC-71261 □ β-TGDR
TOXICITY DATA with REFERENCE:
orl-mus LD50:467 mg/kg NCICP* -,522,69
ipr-mus LD50:354 mg/kg NCICP* -,522,69
ivn-dog LDLo:142 mg/kg CCYPBY 4,41,73
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic and neoplastigenic data. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TFJ500 CAS: 85-31-4 HR: 3
6-THIOGUANOSINE
mf: $C_{10}H_{13}N_5O_4S$ mw: 299.34
PROP: Decomp: 224–227°.
SYNS: 2-AMINO-6-MERCAPTOPURINE RIBONUCLEOSIDE □ 2-AMINO-6-MERCAPTOPURINE RIBOSIDE □ 2-AMINO-6-MERCAPTO-9(β-d-RIBOFURANOSYL)PURINE □ 2-AMINO-9-(β-d-RIBOFURANOSYL)PURINE-6-THIOL □ 2-AMINO-9-β-d-RIBOFURANOSYL-9H-PURINE-6-THIOL □ 6-MERCAPTO-GUANOSINE □ NSC-29422 □ RIBOSYLTHIOGUANINE □ SK 18615 □ SRI 759 □ TGR □ TGS □ 6-THIODEOXYGUANOSINE □ 6-THIOGUANINE RIBONUCLEOSIDE □ THIOGUANINE RIBOSIDE □ THIOGUANOSINE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:200 mg/kg ADTEAS 3,181,68
ipr-mus LD50:156 mg/kg NCISP* JAN86
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS.

TFJ750 CAS: 503-87-7 HR: 3
2-THIOHYDANTOIN
mf: $C_3H_4N_2OS$ mw: 116.15
PROP: Needles from EtOH aq. Mp: 229–231° (decomp). Very sol in hot Et_2O, EtOH, alkalies; spar sol in H_2O.
SYN: USAF BE-25
TOXICITY DATA with REFERENCE:
orl-rat LD50:420 mg/kg BJPCAL 13,350,58
orl-mus LD50:417 mg/kg KHFZAN 24(4),32,90
ipr-mus LD50:100 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TFJ825 CAS: 574-25-4 HR: 2
THIOINOSINE
mf: $C_{10}H_{12}N_4O_4S$ mw: 284.32
PROP: Pale-yellow crystals or needles from AcOH aq. Mp: 210–211° (decomp).
SYN: 9-β-d-RIBOFURANOSYL-9H-PURINE-6-THIOL
TOXICITY DATA with REFERENCE:
mmo-sat 200 µg/plate TAKHAA 44,96,85
orl-rat LD50:900 mg/kg IYKEDH 4,467,73
ipr-rat LD50:1240 mg/kg IYKEDH 4,467,73
scu-rat LD50:1310 mg/kg IYKEDH 4,467,73
ivn-rat LD50:1000 mg/kg IYKEDH 4,467,73
ipr-mus LD50:1270 mg/kg IYKEDH 4,467,73
scu-mus LD50:1840 mg/kg IYKEDH 4,467,73
ivn-mus LD50:1250 mg/kg IYKEDH 4,467,73
SAFETY PROFILE: Moderately toxic by ingestion, intravenous, intraperitoneal and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

TFK000 CAS: 2196-13-6 HR: 3
THIOISONICOTINAMIDE
mf: $C_6H_6N_2S$ mw: 138.20
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 SULFIDES.

TFK250 CAS: 79-42-5 HR: 3
2-THIOLACTIC ACID
DOT: UN 2936
mf: $C_3H_6O_2S$ mw: 106.15
PROP: Oil. Mp: 10°, bp: 98–99° @ 14 mm. Misc in water, alc, ether.
SYNS: α-MERCAPTOPROPANOIC ACID □ α-MERCAPTOPROPIONIC ACID □ 2-MERCAPTOPROPIONIC ACID
TOXICITY DATA with REFERENCE:
ihl-rat LCLo:700 ppm KODAK* 21MAY71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Poison by ingestion. Moderately toxic by inhalation. When heated to decomposition it emits toxic fumes of SO_x. See also SULFIDES and MERCAPTANS.

TFK255 CAS: 66701-25-5 HR: D
THIOL PROTEASE INHIBITOR
mf: $C_{15}H_{27}N_5O_5$ mw: 357.47
SYNS: E 64 □ E 64 (PROTEINASE INHIBITOR) □ OXIRANE-CARBOXYLIC ACID, 3-(((1-(((4-((AMINOIMINOMETHYL)-AMINO)BUTYL)AMINO)CARBONYL)-3-METHYLBUTYL)-AMINO)CARBONYL)-, (2S-(2-α,3-β(R*)))- □ PROTEINASE INHIBITOR E 64
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

TFK260 CAS: 20223-84-1 HR: 3
THIOMERIN
mf: $C_{16}H_{25}HgNO_6S$•2H mw: 562.09
PROP: IDLH 10 mg/m^3 (as Hg).
SYNS: N-(γ-CARBOXYMETHYL-MERCAPTO-MERCURI-β METHOXY)PROPYL CAMPHORAMIC ACID □ MERCAPT-OMERIN □ MERCURY, (3-(3-CARBOXY-2,2,3-TRIMETHYL-CYCLOPENTANECARBOXAMIDO)-2-METHOXYPROPYL)(HYDROGEN MERCAPTOACETATO)-
TOXICITY DATA with REFERENCE:
cyt-mus-oth 20 mg/L MUREAV 17,93,1973
scu-rat LDLo:18,670 µg/kg PSEBAA 74,511,1950
ivn-rat LDLo:22,417 µg/kg PSEBAA 74,511,1950
ACGIH TLV: TWA 0.01. STEL 0.03 mg/m^3 (skin)
NIOSH REL: (MERCURY, ORGANO) TWA 0.01 mg/m^3. STEL 0.03 mg/m^3 (Sk)
SAFETY PROFILE: A poison by subcutaneous and intravenous routes. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Hg.

TFK270 CAS: 21259-76-7 HR: 3
THIOMERIN SODIUM
mf: $C_{16}H_{27}HgNO_6S$•2Na mw: 608.07
PROP: Powder. Freely sol in H_2O; practically insol in Et_2O, C_6H_6 and $CHCl_3$.
SYNS: N-(γ-CARBOXYMETHYLMERCAPTOMERCURI-β-METHOXY)PROPYLCAMPHORAMIC ACID DISODIUM SALT □ DISODIUM-N-(3-(CARBOXYMETHYLTHIOMERCURI)-2-METHOXYPROPYL)-α-CAMPHORAMATE □ DIUCARDYN SODIUM □ MERCAPTOMERIN SODIUM □ SODIUM MERCAPTOMERIN
TOXICITY DATA with REFERENCE:
scu-rat LDLo:14 mg/kg CLDND* 8,316,49
ivn-rat LDLo:250 mg/kg JPETAB 99,149,50
ivn-rbt LDLo:125 mg/kg JPETAB 99,149,50
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/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 subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of Hg, NO_x, Na_2O, and SO_x. See also MERCURY COMPOUNDS and MERCAPTANS.

TFK300 CAS: 2205-73-4 HR: 2
THIOMESTERONE
mf: $C_{24}H_{34}O_4S_2$ mw: 450.70
PROP: Crystals. Mp: 205−206°.
SYNS: ANDROST-4-EN-3-ONE, 17-β-HYDROXY-1-α-7-α-DIMERCAPTO-17-METHYL-, 1,7-DIACETATE □ EMBADOL □ EMDABOL □ EMDABOLIN □ PROTABOL □ ST A 307 □ THIOMESTRONE □ TIOMESTERONE
TOXICITY DATA with REFERENCE:
orl-mus LDLo:2150 mg/kg ARZNAD 14,330,64
SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x.

TFL000 CAS: 7719-09-7 HR: 3
THIONYL CHLORIDE
DOT: UN 1836
mf: Cl_2OS mw: 118.96
PROP: Colorless to yellow to red liquid; suffocating odor. Mp: −105°, bp: 78.8° @ 746 mm, d: 1.640 @ 15.5°/15.5°, vap press: 100 mm @ 21.4°. Misc with benzene, chloroform, carbon tetrachloride. Sol in $CHCl_3$, C_6H_6, and CCl_4.
SYNS: SULFINYL CHLORIDE □ SULFUR CHLORIDE OXIDE □ SULFUROUS DICHLORIDE □ SULFUROUS OXYCHLORIDE □ THIONYL DICHLORIDE
TOXICITY DATA with REFERENCE:
ihl-rat LC50:500 ppm/1H NTIS** AD-A148-952
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: CL 1 ppm
ACGIH TLV: CL 1 ppm
DOT CLASSIFICATION: 8; Label: Corrosive, Poison
SAFETY PROFILE: Moderately toxic by inhalation. The material itself is more toxic than sulfur dioxide. Has a pungent odor similar to that of sulfur dioxide; it fumes upon exposure to air. Violent reaction with water releases hydrogen chloride and sulfur dioxide. Both these decomposition products constitute serious toxicity hazards. A corrosive irritant that causes burns to the skin and eyes. A powerful chlorinating agent. Potentially explosive reaction with ammonia, bis(dimethyl-amino)sulfoxide (above 80°C), chloryl perchlorate, 1,2,3-cyclohexanetrione trioxime + sulfur dioxide, dimethyl sulfoxide, hexafluoroisopropy-lideneaminolithium. Violent reaction or ignition with 2,4-hexadiyn-1-6-diol, o-nitrobenzoyl acetic acid, o-nitrophen-yl-acetic acid, sodium (ignites at 300°C). Incompatible with ammonia, dimethyl formamide + trace iron or zinc, linseed oil + quinoline, toluene + ethanol + water. When heated to decomposition it emits toxic fumes of SO_x and Cl^-. See

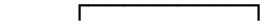
also HYDROGEN CHLORIDE and SULFUR DIOXIDE.

TFL250 CAS: 7783-42-8 HR: 2
THIONYL FLUORIDE
mf: F_2OS mw: 86.06
PROP: Colorless gas; suffocating odor; slowly hydrolyzes, less reactive than $SOCl_2$. Bp: −44°, mp: −130°, d (liq): 1.780 @ −100°, (solid): 2.095 @ −183°. Sol in ether, benzene.
SYNS: FLUORURE de THIONYLE (FRENCH) □ SULFUR DIFLUORIDE MONOXIDE □ SULFUR DIFLUORIDE OXIDE □ SULFUROUS OXYFLUORIDE □ THIONYL DIFLUORIDE
TOXICITY DATA with REFERENCE:
ihl-mus LCLo:260 ppm/1H AMPMAR 34(10-11), 581,73
ihl-rbt LCLo:1000 ppm/1H AMPMAR 34(10-11),581,73
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: (Inorganic Fluorides) TWA 2.5 mg(F)/m^3
SAFETY PROFILE: Moderately toxic by inhalation. A severe irritant to skin, eyes, and mucous membranes. When heated to decomposition or on contact with water or steam it emits highly toxic and corrosive fumes of SO_x and F^-. See also FLUORIDES.

TFL500 CAS: 2487-40-3 HR: 2
2-THIO-6-OXYPURINE
mf: $C_5H_4N_4OS$ mw: 168.19
SYN: 1,2,3,7-TETRAHYDRO-2-THIOXO-6H-PURIN-6-ONE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:625 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 very toxic fumes of NO_x and SO_x.

TFM100 CAS: 316-81-4 HR: 2
THIOPERAZINE
mf: $C_{22}H_{30}N_4O_2S_2$ mw: 446.68
PROP: Crystals. Mp: 140°.
SYNS: MAJEPTYL □ MAZEPTYL □ MEGEPTIL □ 7843 R.P. □ RP 7843 □ SKF 5883 □ SULFENAZIN □ THIOPROPERAZIN □ THIOPROPERAZINE □ (THIOPROPERAZINE)-2-DIMETHYL-SULFAMIDO-(10-(3-1-METHYLPIPERAZINYL-4)PROPYL)-PHENOTHIAZINE □ VONTIL
TOXICITY DATA with REFERENCE:
cyt-hmn:lym 5 mg/L CYGEDX 9(5),14,75
dlt-mus-ipr 5 mg/kg CYGEDX 9(5),14,75
orl-mus LD50:830 mg/kg DNEUD5 7,45,80
SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

TFM250 CAS: 110-02-1 HR: 3
THIOPHENE
DOT: UN 2414
mf: C_4H_4S mw: 84.14



PROP: Clear, colorless liquid; slt aromatic odor similar to that of benzene. D: 1.0573 @ 25°/4°, mp: −38.3°, bp: 84.4°, flash p: 21.2°F, vap press: 40 mm @ 12.5°, vap d: 2.9. Insol in water; misc with most org solvs. May be heated to 850° without decomposition.
SYNS: CP 34 □ DIVINYLENE SULFIDE □ HUILE H50 □ THIACYCLOPENTADIENE □ THIAPHENE □ THIOFURAM □ THIOFURAN □ THIOFURFURAN □ THIOLE □ THIOPHEN □ THIOTETROLE □ USAF EK-1860
TOXICITY DATA with REFERENCE:
orl-rat LD50:1400 mg/kg GTPZAB 10(2),57,66
orl-mus LD50:420 mg/kg GTPZAB 10(2),57,66
ihl-mus LC50:9500 mg/m^3/2H GTPZAB 10(2),57,66
ipr-mus LD50:100 mg/kg NTIS** AD277-689
scu-rbt LD50:830 mg/kg 85JCAE -,1089,86
ihl-rat TCLo:3 mg/m^3/24H/80D-C GISAAA 32(6),3,67
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mildly toxic by inhalation and subcutaneous routes. A very dangerous fire hazard when exposed to heat or flame. Explosive reaction with N-nitrosoacetanilide. Violent or explosive reaction with nitric acid. Incompatible with oxidizing materials. To fight fire, use foam, CO_2, dry chemical. When heated to decomposition it emits highly toxic fumes of SO_x.

TFM500 CAS: 98-03-3 HR: 3
2-THIOPHENECARBOXALDEHYDE
mf: C_5H_4OS mw: 112.15
PROP: Liquid. Bp: 93−94° @ 20 mm, d: 1.2, refr index: 1.5900, flash p: 172°.
SYNS: α-FORMYLTHIOPHENE □ 2-FORMYLTHIOPHENE □ 2-THIENYLALDEHYDE □ 2-THIENYLCARBOXALDEHYDE □ 2-THIOPHENEALDEHYDE □ α-THIOPHENECARBOXALDEHYDE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:16 mg/kg CBCCT* 2,191,50
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Combustible liquid. When heated to decomposition it emits toxic fumes of SO_x. See also ALDEHYDES.

TFM600 CAS: 527-72-0 HR: 2
2-THIOPHENECARBOXYLIC ACID
mf: $C_5H_4O_2S$ mw: 128.15
SYNS: 2-CARBOXYTHIOPHENE □ 2-THENOIC ACID □ α-THIOPHENECARBOXYLIC ACID □ 2-THIOPHENIC ACID
TOXICITY DATA with REFERENCE:
ivn-mus LD50:1670 mg/kg THERAP 26,831,71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic vapors of SO_x.

TFM625 CAS: 58344-24-4 HR: 2
2-THIOPHENECARBOXYLIC ACID, 3-(1,3-BENZODIOXOL-5-YL)-1-(1,1-DIMETHYL-ETHYL)-2-PROPENYL ESTER
mf: $C_{19}H_{20}O_4S$ mw: 344.45
SYNS: D 514 □ THIOPHENECARBOXYLATE de ((METHYL-ENEDIOXY-3,4 PHENYL)-1 DIMETHYL-4,4-PENTENE-1)YLE-3
TOXICITY DATA with REFERENCE:
ipr-mus LD50:2 g/kg FRXXBL #2553504
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of SO_x

TFN500 CAS: 463-71-8 HR: 3
THIOPHOSGENE
DOT: UN 2474
mf: CCl_2S mw: 114.97
PROP: Reddish, fuming, red liquid with acrid odor. Bp: 73.5°, d: 1.5085 @ 15°. Decomp in water and alc. Sltly sol in H_2O; sol in Et_2O. Slowly hydrolyzes by H_2O.
SYNS: CARBON CHLOROSULFIDE □ CARBONOTHIOIC DICHLORIDE (9CI) □ CARBONYL CHLORIDE, THIO- □ DICHLOROTHIOCARBONYL □ PHOSGENE, THIO- □ THIOCARBONIC DICHLORIDE □ THIOCARBONYL CHLORIDE □ THIOCARBONYL DICHLORIDE □ THIOFOSGEN (CZECH) □ THIOKARBONYLCHLORID (CZECH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD 28ZPAK -,13,72
eye-rbt 50 µg/24H SEV 28ZPAK -,13,72
orl-rat LD50:929 mg/kg 28ZPAK -,13,72
ivn-mus LD50:100 mg/kg CSLNX* NX#04557
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. A skin, mucous membrane, and severe eye irritant. When heated to decomposition it emits very toxic fumes of Cl^- and SO_x. See also PHOSGENE.

TFN600 CAS: 14129-98-7 HR: D
THIOPHOSPHORIC ACID TRIMORPHOLIDE
mf: $C_{12}H_{24}N_3O_3PS$ mw: 321.42
SYNS: MORPHOLINE, 4,4',4"-PHOSPHINOTHIOYLDYNETRIS- □ PHOSPHOROTHIOIC TRIMORPHOLIDE □ PHOSPHINE SULFIDE, TRIMORPHOLINO-
TOXICITY DATA with REFERENCE:
mor-ham-kdy 2500 µg/ BJCAAI 38,418,1978
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, SO_x and PO_x.

TFN750 CAS: 3931-89-3 HR: 2
THIOPHOSPHORYL BROMIDE
mf: Br_3PS mw: 302.76
PROP: Octahedral, yellow crystals from CS_2/pet ether. Fairly stable to water. Mp: 38°, bp: 212–215° decomp @ 175°, d: 2.85 @ 17°.
SYNS: PHOSPHORUS SULFOBROMIDE □ THIOPHOS-PHOROUS TRIBROMIDE
TOXICITY DATA with REFERENCE:
ihl-mus LC50:2600 mg/m^3 NDRC** -,17,42
SAFETY PROFILE: Moderately toxic by inhalation. Will react with water or steam to produce toxic and corrosive fumes. When heated to decomposition it emits highly toxic fumes of Br^-, SO_x, and PO_x. See also BROMIDES and THIOPHOSPHORYL CHLORIDE.

TFO000 CAS: 3982-91-0 HR: 3
THIOPHOSPHORYL CHLORIDE
DOT: UN 1837
mf: Cl_3PS mw: 169.38
PROP: Colorless, mobile liquid; pungent odor which fumes in air. Decomp slowly in water at room temp or below. Bp: 125°, fp: −40.8° (þ&□-form), fp: −36.2° (β-form), flash p: none, d: 1.63 @ 25°/4°, vap press: 22 mm @ 25°, vap d: 5.86.
SYNS: FOSFORTHIOCHLORID □ PHOSPHOROTHIOIC TRICHLORIDE □ PHOSPHOROTHIONIC TRICHLORIDE □ PHOSPHOROUS SULFOCHLORIDE □ PHOSPHOROUS THIOCHLORIDE □ PHOSPHOROUS TRICHLORIDE SULFIDE □ SULFIDOTRICHLORID FOSFORECNY □ THIOCHLORID FOSFORECNY □ THIOPHOSPHORIC TRICHLORIDE □ THIOPHOSPHORYL TRICHLORIDE □ TL 262 □ TRICHLOROPHOSPHINE SULFIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:660 mg/kg GTPZAB 31(12),53,87
ihl-rat LC50:20 ppm/4H 28ZPAK -,17,72
orl-mus LD50:700 mg/kg GTPZAB 31(12),53,87
ihl-mus LC50:630 mg/m^3 GTPZAB 31(12),53,87
orl-gpg LD50:520 mg/kg GTPZAB 31(12),53,87
ihl-gpg LC50:400 mg/m^3 GTPZAB 31(12),53,87
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion. A corrosive irritant to skin, eyes, and mucous membranes. Explosive reaction with methylmagnesium iodide. Explosive reaction with pentaerythritol + heat. Reacts with water or steam to produce toxic and corrosive fumes. When heated to decomposition it emits highly toxic fumes of PO_x, SO_x, and Cl^-.

TFO250 CAS: 13706-10-0 HR: 2
THIOPHOSPHORYL DIBROMIDEMONOFLUORIDE
mf: Br_2FPS mw: 241.85
PROP: Fuming liquid. D: 2.39 @ 0°, mp: −75°, bp: 125–125.5°.
SYNS: DIBROMOFLUOROPHOSPHINE SULFIDE □ THIOPHOSPHORYL BROMIDE FLUORIDE (8CI,9CI) □ THIOPHOSPHORYL FLUORODIBROMIDE □ TL 331
TOXICITY DATA with REFERENCE:
ihl-mus LCLo:3100 mg/m^3/10M NDRC** NDCrc-132,Sept,42
OSHA PEL: TWA 2.5 mg(F)/m^3
ACGIH TLV: TWA 2.5 mg(F)/m^3; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.
NIOSH REL: TWA 2.5 mg(F)/m^3
SAFETY PROFILE: Moderately toxic by inhalation. When heated to decomposition it emits very toxic fumes

of Br^-, F^-, PO_x, and SO_x. See also BROMIDES, FLUORIDES, and THIOPHOSPHORYL CHLORIDE.

TFO500 CAS: 13706-09-7 HR: 2
THIOPHOSPHORYL DIFLUORIDEMONO-BROMIDE
mf: BrF_2PS mw: 180.94
PROP: Colorless volatile liquid. D: 1.94 @ 0°, mp: −136.9°, bp: 35.5°.
SYNS: MONOBROMODIFLUOROPHOSPHINE SULFIDE □ THIOPHOSPHORYL MONOBROMODIFLUORIDE □ TL 263
TOXICITY DATA with REFERENCE:
ihl-mus LCLo:3000 mg/m^3/10M NDRC** NDCrc-132,June,42
OSHA PEL: TWA 2.5 mg(F)/m^3
ACGIH TLV: TWA 2.5 mg(F)/m^3; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.
NIOSH REL: TWA 2.5 mg(F)/m^3
SAFETY PROFILE: Moderately toxic by inhalation. When heated to decomposition it emits very toxic fumes of Br^-, F^-, PO_x, and SO_x. See also BROMIDES, FLUORIDES, and THIOPHOSPHORYL CHLORIDE.

TFO600 CAS: 2524-02-9 HR: 1
THIOPHOSPHORYL DIFLUORIDE MONOCHLORIDE
mf: ClF_2PS mw: 136.48
SYNS: PHOSPHINE SULFIDE, MONOCHLORODIFLUORO- □ THIOPHOSPHORYL CHLORODIFLUORIDE □ TL 152 □ THIOPHOSPHORYL DIFLUOROCHLORIDE □ THIOPHOSPHORYL MONOCHLORODIFLUORIDE
TOXICITY DATA with REFERENCE:
ihl-mus LCLo:2250 mg/m^3/10M NDRC** NDCrc-132,MAY1942
ACGIH TLV: TWA 2.5 mg(F)/m^3. Not Classifiable as a human carcinogen.
NIOSH REL: (FLUORIDES, INORGANIC) 10H TWA 2.5 mg(F)/m^3
SAFETY PROFILE: Low toxicity by inhalation. When heated to decomposition it emits toxic vapors of NO_x, SO_x, PO_x and Cl^-.

TFO750 CAS: 2404-52-6 HR: 3
THIOPHOSPHORYL FLUORIDE
mf: PSF_3 mw: 120.05
PROP: A gas. Mp: −148.8°, bp: −52.2°.
SAFETY PROFILE: Poison irritant to skin, eyes, and mucous membranes. Ignites or explodes on contact with air. Heated sodium ignites in the gas. When heated to decomposition or in reaction with water or steam it emits toxic and corrosive fumes of PO_x, SO_x, and F^-. See also FLUORIDES and THIOPHOSPHORYL CHLORIDE.

TFP000 CAS: 75-18-3 HR: 3
2-THIOPROPANE
DOT: UN 1164
mf: C_2H_6S mw: 62.14
PROP: Colorless liquid; disagreeable odor. Mp: −83.2°, lel: 2.2%, uel: 19.7%, flash p: <0°F, fp: −98.27°, bp: 37.5−38°, d: 0.8458 @ 21°/4°, vap d: 2.14, autoign temp: 403°F. Insol in water; sol in alc, ether.
SYNS: DIMETHYLSULFID (CZECH) □ DIMETHYL SULFIDE (DOT) □ DIMETHYL SULPHIDE (ACGIH) □ DMS □ EXACT-S □ METHYL SULFIDE (DOT) □ METHYL SULPHIDE □ METHYLTHIOMETHANE □ SULFURE de METHYLE (FRENCH) □ 2-THIAPROPANE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 17,365,79
eye-rbt 250 µg/24H SEV 28ZPAK -,169,72
orl-rat LD50:3300 mg/kg GISAAA 32(3),3,67
ihl-rat LC50:40,250 ppm LacHB# 09JUN78
orl-mus LD50:3700 mg/kg FCTXAV 17,365,79
ihl-mus LC50:31,620 µg/m^3 FCTXAV 17,365,79
ipr-mus LD50:8000 mg/kg IJRBA3 3,41,61
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
ACGIH TLV: (Proposed: 10 ppm)
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion. A skin and severe eye irritant. A very dangerous fire hazard when exposed to heat or flame. Explosive in the form of vapor when exposed to heat or flame. Can react vigorously with oxidizing materials. To fight fire, use CO_2, dry chemical. When heated to decomposition it emits highly toxic fumes of SO_x and may explode. See also SULFIDES.

TFP250 CAS: 146-28-1 HR: 3
THIOPROPAZATE DIHYDROCHLORIDE
mf: $C_{23}H_{28}ClN_3O_2S{\bullet}2ClH$ mw: 518.97
PROP: Crystals from EtOH (aq). Decomp @ 223−229°. Very sol in water; sol in alc, chloroform; nearly insol in ether.
SYNS: 1-(2-ACETOXYETHYL)-4-(3-(2-CHLORO-10-PHENOTHIAZINYL)PROPYL)PIPERAZIME DIHYDRO-CHLORIDE □ 2-CHLORO-10-(3-(4-(2-ACETOXYETHYL)PIPERA-ZINYL)PROPYL)PHENOTHIAZINE □ THIOPROPAZATE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:279 mg/kg 27ZQAG -,52,72
ipr-mus LD50:197 mg/kg 27ZQAG -,52,72
scu-mus LD50:1080 mg/kg 27ZQAG -,52,72
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of SO_x, NO_x, and Cl^-.

TFP300 CAS: 2637-34-5 HR: 3
2-THIOPYRIDINE
mf: C_5H_5NS mw: 111.17
SYNS: 2-MERCAPTOPYRIDINE □ 2-PYRIDINETHIOL □ 2(1H)-PYRIDINETHIONE □ THIOPYRIDONE-2
TOXICITY DATA with REFERENCE:
ipr-mus LD50:250 mg/kg NTIS** AD691-490
ivn-mus LD50:250 mg/kg AIPTAK 93,143,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TFQ000 CAS: 79-19-6 HR: 3
THIOSEMICARBAZIDE
mf: CH_5N_3S mw: 91.15
PROP: Needles from water. Mp: 182−184°. Sol in water, alc.
SYNS: N-AMINOTHIOUREA ◻ HYDRAZINECARBOTHIOAMIDE ◻ RCRA WASTE NUMBER P116 ◻ THIOCARBAMYLHYDRAZINE ◻ 3-THIOSEMICARBAZIDE ◻ TSC ◻ USAF EK-1275
TOXICITY DATA with REFERENCE:
dnd-hmn:hla 20 μmol/L BCPCA6 25,821,76
orl-rat TDLo:1024 mg/kg/78W-C:ETA JJIND8 67,75,81
orl-rat LD50:9160 μg/kg MarJV# 29MAR77
orl-mus LDLo:94 mg/kg AECTCV 14,111,85
ipr-mus LD50:1 mg/kg NTIS** AD277-689
scu-mus LD50:16,407 μg/kg ABMGAJ 21,635,68
ivn-mus LD50:13 mg/kg JPETAB 122,110,58
orl-dog LD50:10 mg/kg HBTXAC 5,155,59
orl-cat LD50:20 mg/kg PSEBAA 70,688,49
ipr-gpg LD50:24 mg/kg PSEBAA 70,688,49
orl-bwd LD50:9100 μg/kg TXAPA9 21,315,72
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. Questionable carcinogen with experimental tumorigenic data. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TFQ250 CAS: 1752-30-3 HR: 3
THIOSEMICARBAZONE ACETONE
mf: $C_4H_9N_3S$ mw: 131.22
PROP: Yellow crystals. Sol in Me_2CO.
TOXICITY DATA with REFERENCE:
orl-rat LDLo:10 mg/kg NCNSA6 5,43,53
ipr-mus LD50:23 mg/kg JPETAB 122,110,58
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 very toxic fumes of NO_x and SO_x.

TFQ275 CAS: 1393-48-2 HR: 3
THIOSTREPTON
mf: $C_{72}H_{85}N_{19}O_{18}S_5$ mw: 1665.06
PROP: Crystals from chloroform + methanol. Mp: decomp 246−256°. Sol in chloroform, dioxane, pyridine, glacial acetic acid, DMF; practically insol in water, the lower alcohols, nonpolar org solvs, dil aq acid or base. Dissolved by methanolic acid or base with decomp.
SYNS: A-8506 ◻ ANTIBIOTIC 6761-31 ◻ ANTIBIOTIC A 8506 ◻ ANTIBIOTIC X 146 ◻ BRYAMYCIN ◻ GARGON ◻ THIACTIN ◻ X 146
TOXICITY DATA with REFERENCE:
ipr-mus LD50:2000 mg/kg 85GDA2 4(1),396,80
ivn-mus LD50:41 mg/kg 85GDA2 4(1),396,80
ims-mus LD50:1000 mg/kg 85GDA2 4(1),397,80
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal and intramuscular routes. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

TFQ500 HR: 1
THIOSULFATES
SAFETY PROFILE: Up to 12 g of sodium thiosulfate can be taken daily by mouth with no ill effects except catharsis. Most of the thiosulfates are low in acute toxicity. When heated to decomposition they emit highly toxic fumes of SO_x.

TFQ600 CAS: 58513-59-0 HR: 3
THIOTHIXENE DIHYDROCHLORIDE
mf: $C_{23}H_{29}N_3O_2S_2$•2ClH mw: 516.59
TOXICITY DATA with REFERENCE:
orl-rat LD50:410 mg/kg KSRNAM 3,709,69
ipr-rat LD50:145 mg/kg KSRNAM 3,709,69
scu-rat LD50:1537 mg/kg KSRNAM 3,709,69
orl-mus LD50:160 mg/kg KSRNAM 3,709,69
ipr-mus LD50:112 mg/kg KSRNAM 3,709,69
scu-mus LD50:550 mg/kg KSRNAM 3,709,69
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl.

TFQ650 CAS: 636-26-0 HR: 3
2-THIOTHYMINE
mf: $C_5H_6N_2OS$ mw: 142.19
SYNS: 2,3-DIHYDRO-5-METHYL-2-THIOXO-4(1H)-PYRIMIDINONE ◻ 4(1H)-PYRIMIDINONE, 2,3-DIHYDRO-5-METHYL-2-THIOXO-(9CI) ◻ THIOTHYMINE ◻ THYMINE, 2-THIO-
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:1 g/kg JPETAB 97,478,49
unr-rbt LDLo:100 mg/kg JPETAB 97,478,49
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by unspecified route. Slightly toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TFQ750 CAS: 52-24-4 HR: 3
THIOTRIETHYLENEPHOSPHORAMIDE
mf: $C_6H_{12}N_3PS$ mw: 189.24
PROP: Crystals from pentane, Et_2O, or C_6H_6/pet ether. Mp: 52°. Very sol in EtOH; sol in C_6H_6, Et_2O, and $CHCl_3$.
SYNS: CBC 806495 ◻ GIROSTAN ◻ NCI-C01649 ◻ NSC-6396 ◻ ONCOTEPA ◻ ONCOTIOTEPA ◻ 1,1',1"-PHOSPHINOTHIOYLIDYNETRISAZIRIDINE ◻ PHOSPHOROTHIOIC ACID TRIETHYLENETRIAMIDE ◻ SK 6882 ◻ TESPAMINE ◻ THIOFOZIL ◻ THIOPHOSPHAMIDE ◻ THIO-TEP ◻ TIOFOSFAMID ◻ TIOFOZIL ◻ TRIAZIRIDINYLPHOSPHINE SULFIDE ◻ N,N',N"-TRI-1,2-ETHANEDIYLPHOSPHOROTHIOIC TRIAMIDE ◻ N,N',N"-TRI-1,2-ETHANEDIYLTHIOPHOSPHORAMIDE ◻ TRI(ETHYLENEIMINO)THIOPHOSPHORAMIDE ◻ N,N',N"-TRIETHYLENEPHOSPHOROTHIOIC TRIAMIDE ◻ N,N',N"-TRIETHYLENETHIOPHOSPHAMIDE ◻ N,N',N"-TRIETHYLENETHIOPHOSPHORAMIDE ◻ TRIETHYLENETHIOPHOSPHOROTRIAMIDE ◻ TRIS(1-AZIRIDINYL)PHOSPHINE SULFIDE ◻ TRIS(ETHYLENIMINO)THIOPHOSPHATE ◻ TSPA
TOXICITY DATA with REFERENCE:
mmo-sat 100 μg/plate TAKHAA 44,96,85

cyt-rbt-ivn 3 mg/kg BEXBAN 94,1118,82
ipr-rat TDLo:500 µg/kg (female 13D post):TER DANND6 (3),59,83
itt-ham TDLo:16 mg/kg (male 1D pre):REP CCPTAY 22,175,80
par-man TDLo:33 mg/kg/3Y-I:CAR,BLD CMAJAX 129,578,83
unr-wmn TDLo:17 mg/kg/56W-I:CAR,BLD LANCAO 2,775,70
ipr-rat TDLo:218 mg/kg/1Y-I:CAR NCITR* NCI-CG-TR-58,78
ivn-rat TDLo:52 mg/kg/1Y-I:CAR ARZNAD 20,1461,70
ipr-mus TD:47 mg/kg/8W-I:NEO CNREA8 33,3069,73
par-man TDLo:631 µg/kg:PNS,BLD CANCAR 38,1471,76
ipr-rat LD50:8 mg/kg CPCHAO 18,307,62
ivn-rat LD50:9400 µg/kg ARZNAD 8,1,58
orl-mus LD50:38 mg/kg 21ACAB -,129,68
ipr-mus LD50:11 mg/kg FAVUAI 22,36,90
scu-mus LD50:19,500 µg/kg NIIRDN 6,455,82
ivn-mus LD50:14,500 µg/kg NIIRDN 6,455,82
ivn-dog LDLo:760 µg/kg CCSUBJ 2,203,65
ivn-mky LDLo:2 mg/kg CCSUBJ 2,203,65

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 50,123,90; Animal Sufficient Evidence IMEMDT 9,85,75; Animal Sufficient Evidence IMEMDT 50,123,90; Human Sufficient Evidence IMEMDT 50,123,90; Human Inadequate Evidence IMEMDT 9,85,75. NCI Carcinogenesis Bioassay (ipr); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-58,78. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed human carcinogen producing leukemia. Poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. Experimental teratogenic data. Human systemic effects by parenteral route: paresthesia, bone marrow changes, and leukemia. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of PO_x, SO_x, and NO_x.

TFR000 CAS: 79796-40-0 HR: 3
THIOTRITHIAZYL NITRATE

mf: $N_4O_3S_4$ mw: 232.28

SAFETY PROFILE: Explodes on friction or impact. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also NITRATES.

TFR250 CAS: 141-90-2 HR: 2
2-THIOURACIL

mf: $C_4H_4N_2OS$ mw: 128.16

PROP: Small crystals or prisms from water or alc; bitter taste. Mp: 340° (decomp). Practically insol in water, alc, ether, and acids; sol in alkalies.

SYNS: ANTAGOTHYROID □ ANTAGOTHYROIL □ DERACIL □ 2,3-DIHYDRO-2-THIOXO-4(1H)-PYRIMIDINONE □ 6-HYDROXY-2-MERCAPTOPYRIMIDINE □ 4-HYDROXY-2(1H)-PYRIMIDINETHIONE □ 2-MERCAPTO-4-HYDROXYPYRIMIDINE □ 2-MERCAPTO-4-PYRIMIDINOL □ 2-MERCAPTO-4-PYRIMIDONE □ 2-MERCAPTOPYRIMID-4-ONE □ NOBILEN □ 2-THIO-6-OXYPYRIMIDINE □ 2-THIO-1,3-PYRIMIDIN-4-ONE □ THIOURACIL □ 6-THIOURACIL □ TIOURACYL (POLISH) □ TU □ 2-TU

TOXICITY DATA with REFERENCE:
pic-esc 100 mmol/L MDMIAZ 31,11,79
orl-mus LD50:3900 mg/kg JAPMA8 44,56,55
orl-rbt LDLo:3700 mg/kg MEIEDD 10,1342,83

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 7,85,74. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion. Human teratogenic effects by unspecified routes: developmental abnormalities of the central nervous system, craniofacial area, and endocrine system. Human reproductive effects by unspecified route: effects on newborn, including viability index changes. Experimental teratogenic effects. Other 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 SO_x. Used in the treatment of hyperthyroidism, angina pectoris, and congestive heart failure. See also MERCAPTANS and KETONES.

TFS250 CAS: 96-53-7 HR: 2
2-THIOZOLIDINETHIONE

SYNS: 2-MERCAPTOTHIAZOLINE □ 2-THIOTHIAZOLIDONE

TOXICITY DATA with REFERENCE:
ipr-mus LDLo:600 mg/kg AMRL** 21,24,56

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. See also MERCAPTANS.

TFS350 CAS: 137-26-8 HR: 3
THIRAM

mf: $C_6H_{12}N_2S_4$ mw: 240.44

PROP: Crystals from $CHCl_3$/EtOH. Mp: 156°, d: 1.30, bp: 129° @ 20 mm. Insol in water; sol in alc, ether, acetone, and chloroform. IDLH 100 mg/m^3.

SYNS: AATACK □ ACCELERATOR THIURAM □ ACETO TETD □ ARASAN □ AULES □ BIS((DIMETHYLAMINO)CARBONOTHIOYL) DISULPHIDE □ BIS(DIMETHYL-THIOCARBAMOYL)-DISULFID (GERMAN) □ BIS(DIMETHYLTHIOCARBAMOYL) DISULFIDE □ CHIPCO THIRAM 75 □ CYURAM DS □ DISOLFURO DI TETRAMETILTIOURAME (ITALIAN) □ DISULFURE de TETRAMETHYLTHIOURAME (FRENCH) □ α,α'-DITHIOBIS(DIMETHYLTHIO)FORMAMIDE □ 1,1'-DITHIOBIS(N,N-DIMETHYLTHIO)FORMAMIDE □ N,N'-(DITHIODICARBONOTHIOYL)BIS(N-METHYLMETHANAMINE) □ EKAGOM TB □ FALITIRAM □ FERMIDE □ FERNACOL □ FERNASAN □ FERNIDE □ FLO PRO T SEED PROTECTANT □ HERMAL □ HERMAT TMT □ HERYL □ HEXATHIR □ KREGASAN □ MERCURAM □ METHYL THIRAM □ METHYL THIURAMDISULFIDE □ METHYL TUADS □ NOBECUTAN □ NOMERSAN □ NORMERSAN □ PANORAM 75 □ POLYRAM ULTRA □ POMARSOL □ POMASOL □ PURALIN □ RCRA WASTE NUMBER U244 □ REZIFILM □ ROYAL TMTD □ SADOPLON □ SPOTRETE □ SQ 1489 □ TERSAN □ TETRAMETHYLDIURANE SULPHITE □ TETRAMETHYLENETHIURAM DISULPHIDE □

TETRAMETHYLTHIOCARBAMOYLDISULPHIDE □ TETRAMETHYLTHIORAMDISULFIDE (DUTCH) □ TETRAMETHYLTHIRAM DISULFID (GERMAN) □ TETRAMETHYLTHIURAM BISULFIDE □ TETRAMETHYLTHIURAM DISULFIDE □ N,N,N',N'-TETRAMETHYLTHIURAM DISULFIDE □ N,N-TETRAMETHYLTHIURAM DISULPHIDE □ TETRAMETHYL THIURANE DISULFIDE □ TETRAPOM □ TETRASIPTON □ TETRATHIURAM DISULFIDE □ TETRATHIURAM DISULPHIDE □ THILLATE □ THIMER □ THIOSAN □ THIOTEX □ THIOTOX □ THIRAMAD □ THIRAME (FRENCH) □ THIRASAN □ THIULIX □ THIURAD □ THIURAM □ THIURAMIN □ THIURAMYL □ THYLATE □ TIRAMPA □ TIURAM (POLISH) □ TIURAMYL □ TMTD □ TMTDS □ TRAMETAN □ TRIDIPAM □ TRIPOMOL □ TTD □ TUADS □ TUEX □ TULISAN □ USAF B-30 □ USAF EK-2089 □ USAF P-5 □ VANCIDA TM-95 □ VANCIDE TM □ VUAGT-I-4 □ VULCAFOR TMTD □ VULKACIT MTIC □ VULKACIT THIURAM □ VULKACIT THIURAM/C

TOXICITY DATA with REFERENCE:
pic-esc 1 ng/tube MUREAV 89,1,81
msc-ham:lng 5 mg/L FCTOD7 23,373,85
ihl-hmn TCLo:30 μg/m^3/5Y-I:PUL VRDEA5 (10),136,71
orl-rat LD50:560 mg/kg TXAPA9 11,546,67
ihl-rat LC50:500 mg/m^3/4H 85JCAE -,1027,86
ipr-rat LD50:138 mg/kg JNPHAG 9,35,78
unr-rat LD50:740 mg/kg KOKABN 26,358,77
orl-mus LD50:1350 mg/kg HYSAAV 29(7),37,64
ipr-mus LD50:70 mg/kg DRUGAY 6,566,82
scu-mus LD50:1150 mg/kg FATOAO 32,356,69
unr-mus LD50:1150 mg/kg KOKABN 26,358,77
orl-cat LDLo:230 mg/kg JPETAB 17,349,21
orl-rbt LD50:210 mg/kg KOKABN 26,358,77
skn-rbt LDLo:1 g/kg 85GMAT -,110,82
orl-brd LD50:300 mg/kg AECTCV 12,355,83

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Human Inadequate Evidence IMEMDT 12,225,76; Animal Inadequate Evidence IMEMDT 12,225,76. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 5 mg/m^3

ACGIH TLV: TWA 1 mg/m^3; Not Classifiable as a Human Carcinogen

DFG MAK: 5 mg/m^3

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic and teratogenic data. Other experimental reproductive effects. Mutation data reported. Affects human pulmonary system. A mild allergen and irritant. Acute poisoning in experimental animals produced liver, kidney, and brain damage. Dangerous in a fire; see NITROGEN MONOXIDE and SULFUR DIOXIDE.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Thiram, 5005.

TFS500 CAS: 504-90-5 HR: 3
THIURAM DISULFIDE
mf: $C_2H_4N_2S_4$ mw: 184.32

PROP: Plates from $Me_2CO/CHCl_3$. Sol in Me_2CO, hot EtOH; insol in H_2O, Et_2O and $CHCl_3$.

SYN: BIS(THIOCARBAMOYL)DISULFIDE

TOXICITY DATA with REFERENCE:
ihl-rat LD50:740 mg/kg EQSFAP 3,618,75
ipr-mus LD50:250 mg/kg APTOA6 8,329,52
ihl-rat LD50:740 mg/kg EQSFAP 3,618,75

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by inhalation. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also BIS(DIMETHYLTHIOCARBAMYL) DISULFIDE.

TFS750 CAS: 7440-29-1 HR: 3
THORIUM

DOT: UN 2975
af: Th aw: 232.00

PROP: Silvery-white, air-stable, soft, ductile metal. Attacked vigorously by aq HCl, slowly by H_2O, rapidly by steam. Reacts with H_2 (3°), N_2 (6°), halogens, sulfur, carbon, phosphorus on heating. Alloys with many metals. Props of metal considerably affected by presence of small amount of ThO_2. D: 11.72, mp: 1750 ± 30°. A radioactive material.

SYNS: THORIUM-232 □ THORIUM METAL, pyrophoric (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 7; Label: RADIOACTIVE, SPONT Combustible

SAFETY PROFILE: Suspected carcinogen. Taken internally as ThO_2, it has proven to be carcinogenic due to its radioactivity. On an acute basis it has caused dermatitis. Flammable in the form of dust when exposed to heat or flame, or by chemical reaction with oxidizers. The powder may ignite spontaneously in air. Potentially hazardous reactions with chlorine, fluorine, bromine, oxygen, phosphorus, silver, sulfur, air, nitryl fluoride, peroxyformic acid.

TFT000 CAS: 10026-08-1 HR: 3
THORIUM CHLORIDE
mf: Cl_4Th mw: 373.80

PROP: White, odorless crystals or deliquescent, white solid. D: 4.59, mp: 770°, bp: 928°. Sol in water (with hydrol) and alc.

SYNS: TETRACHLOROTHORIUM □ THORIUM TETRACHLORIDE

TOXICITY DATA with REFERENCE:
ivn-rat LDLo:15 mg/kg JPETAB 43,61,31
ipr-rat LD50:1900 mg/kg EQSSDX 1,1,75
ivn-rat LDLo:28 mg/kg EQSSDX 1,1,75
ipr-mus LD50:534 mg/kg COREAF 256,1043,63
scu-mus LD50:4 g/kg EQSSDX 1,1,75
ivn-rbt LDLo:50 mg/kg EQSSDX 1,1,75

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

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of Cl^-. See also THORIUM.

TFT100 CAS: 12674-40-7 HR: 3
THORIUM DICARBIDE
mf: C_2Th mw: 256.06

SAFETY PROFILE: Thorium is a radioactive material. Incandescent reaction with selenium, sulfur vapor, molten

potassium chlorate, potassium nitrate, potassium hydroxide. See also THORIUM.

TFT250 CAS: 15457-87-1 HR: 3
THORIUM HYDRIDE
mf: H_4Th mw: 236.07
PROP: Black, metallic crystals. D: 8.24, mp: decomp explosively @ red heat. Reacts with water.
SAFETY PROFILE: Suspected carcinogen. Explodes on heating in air. The powder ignites spontaneously in air. See also THORIUM and HYDRIDES.

TFT500 CAS: 13823-29-5 HR: 3
THORIUM(IV) NITRATE
DOT: UN 2976
mf: N_4O_{12}•Th mw: 480.04
PROP: White, crystalline mass or deliquescent, white plates. Mp: 55° (decomp). Very sol in water, alc.
SYNS: NITRIC ACID, THORIUM(4+) SALT □ THORIUM (4+) NITRATE □ THORIUM TETRANITRATE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:60 mg/kg EQSSDX 1,1,75
ivn-rat LD50:47,600 µg/kg EQSSDX 1,1,75
itr-rat LD50:85 mg/kg XEURAQ AECD-2283
orl-mus LD50:1760 mg/kg CNRMAW 26,303,48
ivn-mus LD50:45 mg/kg EQSSDX 1,1,75
ivn-dog LDLo:8400 µg/kg AJPHAP 18,426,07
ipr-rbt LDLo:500 mg/kg AJPHAP 18,426,07
ivn-rbt LDLo:57 mg/kg EQSSDX 1,1,75
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 7; Label: RADIOACTIVE, Oxidizer
SAFETY PROFILE: Poison by intraperitoneal, intravenous, and intratracheal routes. Moderately toxic by ingestion. Experimental reproductive effects. Radioactive. An oxidizing material; when in contact with readily combustible substances will cause violent combustion or ignition. When heated to decomposition it emits toxic fumes of NO_x. See also THORIUM and NITRATES.

TFT750 CAS: 1314-20-1 HR: 3
THORIUM OXIDE
mf: O_2Th mw: 264.00
PROP: Heavy, white crystalline powder or solid. D: 9.7, mp: 3390°, bp: 4400°. Insol in H_2O, dil acid or alkali; sol in hot H_2SO_4.
SYNS: THORIA □ THORIUM DIOXIDE □ THOROTRAST □ THORTRAST □ UMBRATHOR
TOXICITY DATA with REFERENCE:
par-wmn TDLo:1 g/kg:CAR,LIV ANYAA9 145,700,67
unr-hmn TDLo:2880 mg/kg:NEO,LIV AJRRAV 83,163,60
par-hmn TD:700 mg/kg:NEO,LIV,BLD ANYAA9 145,676,67
par-hmn TD:1260 mg/kg:NEO,LIV,BLD ANYAA9 145,676,67
par-wmn TD:2350 mg/kg:CAR,KID EUURAV 3,69,77
iat-man TD:1190 mg/kg:CAR,LIV,BLD APMIAL 53,147,61
iat-hmn TD:1302 mg/kg:CAR,LIV BJCAAI 41,446,80
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Confirmed human carcinogen producing angiosarcoma, liver and kidney tumors, lymphoma and other tumors of the blood system, and tumors at the application site. See also THORIUM.

TFU000 CAS: 12218-77-8 HR: 3
THORIUM OXIDE SULFIDE
mf: OSTh mw: 280.10
SAFETY PROFILE: Ignites on contact with air. When heated to decomposition it emits toxic fumes of SO_x. See also THORIUM and SULFIDES.

TFU500 CAS: 299-75-2 HR: 3
l-THREITOL-1,4-BISMETHANESULFONATE
mf: $C_6H_{14}O_6S_2$ mw: 246.32
SYNS: CB 2562 □ 1,4-DIMETHANESULFONATE THREITOL □ (2s,3s)-1,4-DIMETHANESULFONATE TREITOL □ NSC-39069 □ TREOSULFAN □ TRESULFAN
TOXICITY DATA with REFERENCE:
sln-dmg-unr 160 mmol/L ANYAA9 160,228,69
sln-dmg-par 160 mmol/L GENTAE 46,447,61
sce-hmn-unr 28 mg/kg/D EJCODS 18,979,82
sce-hmn:lym 4500 µg/L EJCODS 18,979,82
ivn-dog LDLo:222 mg/kg CCSUBJ 2,203,65
ivn-mky LDLo:222 mg/kg CCSUBJ 2,203,65
CONSENSUS REPORTS: IARC Cancer Review: Group 1 IMEMDT 7,363,87; Human Sufficient Evidence IMEMDT 26,341,81. EPA Genetic Toxicology Program.
SAFETY PROFILE: Confirmed carcinogen. Poison by intravenous route. Human mutation data reported. When heated to decomposition it emits toxic fumes of SO_x.

TFU750 CAS: 72-19-5 HR: 2
l-THREONINE
mf: $C_4H_9NO_3$ mw: 119.14
PROP: An essential amino acid. Colorless crystals or white crystalline powder from alc (aq); slt sweet taste. Mp: 255−257° with decomp. Sol in water; very sol in hot water; insol in alc, chloroform, ether.
SYNS: l-2-AMINO-3-HYDROXYBUTYRIC ACID □ THREONINE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:3098 mg/kg ABBIA4 58,253,55
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.

TFU800 CAS: 9002-04-4 HR: 3
THROMBIN
SYNS: E.C. 3.4.4.13 □ E.C. 3.4.21.5 □ FIBRINOGENASE □ THROMBASE □ THROMBIN-C □ THROMBOFORT □ TROPOTASIN
TOXICITY DATA with REFERENCE:
mor-mus:fbr 5 mg/L CRNGDP 13,1,92
dns-ckn:emb 10 mg/L PNASA6 72,131,75
skn-mus LD50:>3 g/kg YACHDS 1,272,73
ivn-mus LD50:7771 µg/kg YACHDS 16,669,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by intravenous route. Low toxicity by skin contact. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

TFU900 CAS: 1946-74-3 HR: 3
α-THUJAPLICIN
PROP: A minor component of Thujopsis dolabrata SIEB. et ZUCC. var. hondai MAKINO
mf: $C_{10}H_{12}O_2$ mw: 164.20
SYN: 2,4,6-CYCLOHEPTATRIEN-1-ONE, 2-HYDROXY-3-(1-METHYLETHYL)-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:256 mg/kg BIPBU* 24,607,2001
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

TFV750 CAS: 672-76-4 HR: 3
γ-THUJAPLICIN
mf: $C_{10}H_{12}O_2$ mw: 164.22
PROP: Needles from pet ether. Mp: 82°.
SYNS: 2,4,6-CYCLOHEPTATRIEN-1-ONE, 2-HYDROXY-5-ISOPROPYL-(8CI) □ 2-HYDROXY-5-ISOPROPYL-2,4,6-CYCLOHEPTATRIEN-1-ONE □ γ-THUJAPLICINE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:162 mg/kg JAPMA8 48,722,59
ivn-frg LDLo:100 mg/kg JAPMA8 48,722,59
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits acrid smoke and irritating fumes.

TFW000 CAS: 546-80-5 HR: 3
THUJONE
mf: $C_{10}H_{16}O$ mw: 152.26
PROP: A liquid. Bp: 78° @ 12 mm. A flavor constituent. A major component of wormwood oil, (*Artemisia absinthium L.*), which is the principal ingredient of absinthe, a liquor. Occurs as α, l, (−) or β, d, (+) called isothujone.
SYNS: (1S-1-α,4-α,5-α)-4-METHYL-1-(1-METHYLETHYL)-BICYCLO(3.1.0)HEXAN-3-ONE □ (1S,4R,5R)-(−)-3-THUJANONE □ THUJON □ (−)-THUJONE □ α-THUJONE □ l-THUJONE
TOXICITY DATA with REFERENCE:
orl-rat LD50:500 mg/kg FRXXBL #2448856
ipr-rat LDLo:120 mg/kg JPETAB 65,275,39
scu-mus LD50:2157 μg/kg JAPMA8 29,2,40
scu-rbt LD50:362 μg/kg JAPMA8 29,2,40
ivn-rbt LD50:31 μg/kg JAPMA8 29,2,40
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous, intraperitoneal, and subcutaneous routes. Moderately toxic by ingestion. Serious physiological consequences from abuse of absinthe (mainly in France) led to its abolition in 1915. Wormwood is still used in concentrations of less than 10 ppm in flavored wines. Thujone at 30 mg/kg causes convulsions associated with lesions of the cerebral cortex. Little is known of thujone metabolism. Both forms occur in wormwood oil, oak moss. The α form is major constituent of cedar leaf oil or oil of thuja, sage. The β form occurs in tansy, yarrow. When heated to decomposition it emits acrid smoke and irritating fumes.

TFW250 HR: 3
THULIUM
af: Tm aw: 168.934
PROP: A bright, silvery-gray, lustrous, soft, malleable, ductile metallic element. Mp: 1545°, bp: 1727°, d: 9.333.
SAFETY PROFILE: As a lanthanide it has probably at least a moderate degree of toxicity. Flammable in the form of dust when exposed to flame. Explosive in the form of dust when exposed to heat or flame. Violent reaction with air, halogens. See also POWDERED METALS and RARE EARTHS.

TFW500 CAS: 13537-18-3 HR: 3
THULIUM CHLORIDE
mf: Cl_3Tm mw: 275.28
PROP: Hygroscopic pale-yellow solid. Mp: 824°.
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD TXAPA9 5,427,63
eye-rbt 50 mg TXAPA9 5,427,63
orl-mus LD50:4294 mg/kg EQSSDX 1,1,75
ipr-mus LD50:332 mg/kg EQSSDX 1,1,75
ipr-gpg LD50:144 mg/kg AEHLAU 5,437,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Mildly toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits toxic fumes of Cl^-. See also THULIUM and RARE EARTHS.

TFX000 CAS: 63869-91-0 HR: 3
THULIUM EDETATE
mf: $C_{10}H_{12}N_2O_8Tm{\bullet}H$ mw: 458.18
TOXICITY DATA with REFERENCE:
ipr-gpg LD50:89 mg/kg AEHLAU 5,437,62
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x. See also THULIUM and RARE EARTHS.

TFX100 CAS: 14985-19-4 HR: 3
THULIUM NITRATE
mf: $N_3O_9{\bullet}Tm$ mw: 354.96
SYNS: NITRIC ACID, THULIUM(3+) SALT □ THULIUM(3+) NITRATE □ THULIUM TRINITRATE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:220 mg/kg EQSSDX 1,1,1975
ipr-mus LD50:199 mg/kg EQSSDX 1,1,1975
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and Tm.

TFX250 CAS: 35725-33-8 HR: 3
THULIUM(III) NITRATE, HEXAHYDRATE (1:3:6)

mf: N_3O_9•Tm•$6H_2O$ mw: 463.08
SYN: NITRIC ACID, THULIUM(3+) SALT, HEXAHYDRATE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:285 mg/kg TXAPA9 5,750,63
ipr-mus LD50:255 mg/kg TXAPA9 5,750,63
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x. See also THULIUM, NITRATES, and RARE EARTHS.

TFX500 CAS: 8007-46-3 HR: 2
THYME OIL
PROP: From distillation of flowering plant *Thymus vulgaris L.* (Fam. *Labiatae*). Colorless to reddish-brown liquid; pleasant odor, sharp taste. D: 0.930 @ 25°/25°, refr index: 1.495 @ 20°.
SYNS: OIL OF THYME ☐ THYMIAN OEL (GERMAN) ☐ THYM OIL
TOXICITY DATA with REFERENCE:
skn-mus 100% SEV FCTXAV 12,1003,74
skn-rbt 500 mg/24H SEV FCTXAV 12,1003,74
dnr-bcs 2 mg/disc TOFOD5 8,91,85
orl-rat LD50:2840 mg/kg PHARAT 14,435,59
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. A severe skin irritant. Mutation data reported. An allergen. Combustible when exposed to heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes.

TFX750 CAS: 8007-46-3 HR: 2
THYME OIL RED
PROP: Main constituents are thymol, carvacrol. Found in plants *Thymus vulgaris L.* and *Thymus zygis L.* (FCTXAV 12,807,74).
SYN: SPANISH THYME OIL
TOXICITY DATA with REFERENCE:
skn-mus 500 mg SEV FCTXAV 12,807,74
skn-rbt 500 mg/24H SEV FCTXAV 12,807,74
orl-rat LD50:4700 mg/kg FCTXAV 12,807,74
SAFETY PROFILE: Mildly toxic by ingestion. A severe skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TFX790 CAS: 50-89-5 HR: 2
THYMIDINE
mf: $C_{10}H_{14}N_2O_5$ mw: 242.26
PROP: Rosettes of needles. Mp: 186−187°. Sol in water, methanol, hot alc, hot acetone, hot ethyl acetate, pyridine, glacial acetic acid; sltly sol in hot chloroform.
SYNS: DEOXYTHYMIDINE ☐ 2'-DEOXYTHYMIDINE ☐ DT ☐ DTHYD ☐ 5-METHYLDEOXYURIDINE ☐ THYMIDIN ☐ THYMINEDEOXYRIBOSIDE ☐ THYMINE-2-DEOXYRIBOSIDE
TOXICITY DATA with REFERENCE:
dni-hmn:oth 1 mmol/L CNREA8 35,2872,75
msc-ham:ovr 200 µmol/L BICMBE 64,809,82
ipr-mus LD50:2512 mg/kg JPETAB 207,504,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately 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.

TFX795 CAS: 25086-81-1 HR: D
5′-THYMIDYLIC ACID, HOMOPOLYMER
mf: $(C_{10}H_{14}N_5O_6P)_n$
SYNS: POLYDEOXYRIBOTHYMIDYLIC ACID ☐ POLYDEOXYTHYMIDYLIC ACID ☐ POLY(DT) ☐ POLY(T) ☐ POLYTHYMIDINE ☐ POLYTHYMIDYLIC ACID ☐ THYMIDYLIC ACID POLYMER ☐ 5'-THYMIDYLIC ACID, POLYMERS
TOXICITY DATA with REFERENCE:
dns-hmn-hla 5 mg/L PNASA6 70,3904,1973
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and PO_x.

TFX800 CAS: 65-71-4 HR: 2
THYMINE
mf: $C_5H_6N_2O_2$ mw: 126.13
PROP: Star-shaped plates, needles, or crystals from water. Decomp @ 335−337°, mp: 326°. Sol in hot water; sltly sol in cold water, alc, ether; very sol in alkalies.
SYNS: 5-METHYLURACIL ☐ THYMIN (PURINE BASE)
TOXICITY DATA with REFERENCE:
pic-esc 1 g/L ZAPOAK 12,583,72
orl-mus LD50:3500 mg/kg JAPMA8 44,56,55
CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

TFX805 CAS: 85394-19-0 HR: D
THYMINE PROPENAL
mf: $C_8H_8N_2O_3$ mw: 180.16
SYN: 2-PROPENAL, 3-(5-METHYL-2,4-DIOXO-3,4-DIHYDRO-2H-PYRIMIDIN-1-YL)-
TOXICITY DATA with REFERENCE:
add-ctl-oth 0.5 mmol/L/24H CRTOEC 13,1235,2000
mic-sat 0.1 µmol/plate/48H CRTOEC 13,1235,2000
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

TFX810 CAS: 89-83-8 HR: 3
THYMOL
mf: $C_{10}H_{14}O$ mw: 150.24
PROP: Colorless, translucent crystals or plates from EtOAc or AcOH or Me_2CO; pungent, caustic taste with odor of thyme. Mp: 51°, bp: 233°, d: 0.972, vap press: 1 mm @ 64°. Sol in water, alkali; very sol in alc, ether, chloroform.
SYNS: p-CYMEN-3-OL ☐ 3-p-CYMENOL ☐ 3-HYDROXY-p-CYMENE ☐ 3-HYDROXY-1-METHYL-4-ISOPROPYLBENZENE ☐ ISOPROPYL CRESOL ☐ 6-ISOPROPYL-m-CRESOL ☐ 2-ISOPROPYL-5-METHYLPHENOL ☐ 1-METHYL-3-HYDROXY-4-ISOPROPYLBENZENE ☐ 5-METHYL-2-ISOPROPYL-1-PHENOL ☐ 5-METHYL-2-(1-METHYLETHYL)PHENOL ☐ THYME CAMPHOR ☐ THYMIC ACID ☐ m-THYMOL
TOXICITY DATA with REFERENCE:

cyt-smc 500 µmol/tube HEREAY 33,457,47
orl-rat LD50:980 mg/kg FCTXAV 2,327,64
scu-rat LDLo:1600 mg/kg HBTXAC 5,172,59
orl-mus LD50:640 mg/kg OSDIAF 5,111,56
scu-mus LDLo:800 mg/kg HBAMAK 4,1289,35
ivn-mus LD50:100 mg/kg JMCMAR 23,1350,80
ivn-dog LDLo:150 mg/kg THERAP 3,109,48
orl-cat LDLo:250 mg/kg HBTXAC 5,172,59
orl-rbt LDLo:750 mg/kg HBTXAC 5,172,59
ivn-rbt LDLo:60 mg/kg HBTXAC 5,172,59

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

SAFETY PROFILE: Poison by ingestion and intravenous routes. Moderately toxic by subcutaneous route. Experimental reproductive effects. Mutation data reported. An allergen. Incompatible with acetanilide. When heated to decomposition it emits acrid smoke and irritating fumes. An FDA over-the-counter drug used as an antibacterial and antifungal agent.

TFX850 CAS: 76-61-9 HR: D
THYMOL, 6,6′-(3H-2,1-BENZOXATHIOL-3-YLIDENE)DI-, S,S-DIOXIDE

mf: $C_{27}H_{30}O_5S$ mw: 466.63

SYNS: PHENOL,4,4'-(3H-2,1-BENZOXATHIOL-3-YLIDENE)-BIS(5-METHYL-2-(1-METHYLETHYL))-, S,S-DIOXIDE ◻ THYMOL BLUE ◻ THYMOLSULFONEPHALEIN ◻ THYMOL-SULFONEPHTHALEIN ◻ THYMOLSULFOPHTHALEIN ◻ THYMOLSULPHONPHTHALEIN ◻ THYMOSULFO-NPHTHALEIN

TOXICITY DATA with REFERENCE:
dnd-esc 50 µmol/L MUREAV 89,95,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TFY000 CAS: 964-52-3 HR: 3
THYMOXAMINE HYDROCHLORIDE

mf: $C_{16}H_{25}NO_3$•ClH mw: 315.88

PROP: A solid. Mp: 208−210°.

SYNS: (2-(4-ACETOXY-2-ISOPROPYL-5-METHYLPHENOXY)-ETHYL)DIMETHYLAMINE HYDROCHLORIDE ◻ CARLYTENE ◻ CHLORHYDRATE de ACETOXY-THYMOXYETHYL-DIMETH-YLAMINE (FRENCH) ◻ 5-(2-(N,N-DIMETHYLAMINO)ETHO-XY)CARVACROL ACETATE HYDROCHLORIDE ◻ M-101 ◻ MOXISYLYTE HYDROCHLORIDE ◻ OPILON HYDROCHLOR-IDE ◻ WV 365

TOXICITY DATA with REFERENCE:
orl-rat LD50:740 mg/kg THERAP 26,775,71
ipr-rat LD50:96 mg/kg KSRNAM 16,1147,82
scu-rat LD50:190 mg/kg THERAP 26,775,71
ivn-rat LD50:32 mg/kg KSRNAM 16,1147,82
orl-mus LD50:255 mg/kg JPPMAB 32,209,80
ipr-mus LD50:81 mg/kg KSRNAM 16,1147,82
scu-mus LD50:152 mg/kg KSRNAM 16,1147,82
ivn-mus LD50:28 mg/kg KSRNAM 16,1147,82
orl-dog LDLo:700 mg/kg KSRNAM 16,1147,82
ivn-dog LD50:54,500 µg/kg KSRNAM 16,1147,82
orl-mky LDLo:1500 mg/kg KSRNAM 16,1147,82
ivn-mky LDLo:40 mg/kg KSRNAM 16,1147,82
orl-cat LDLo:375 mg/kg KSRNAM 16,1147,82
ivn-cat LDLo:30 mg/kg KSRNAM 16,1147,82
ivn-rbt LD50:58,600 µg/kg KSRNAM 16,1147,82

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous and intraperitoneal routes. Experimental reproductive effects. Used as an adrenergic blocker. When heated to decomposition it emits toxic fumes of NO_x and HCl.

TFY100 HR: 2
THYMUS KOTSCHYANUS, OIL EXTRACT

PROP: The main constituents of the ether oil are carvacrol (13.74%), thymol (10.07%), terpinen (7.6%), terpinden (6.72%), caryophilen (6.33%), terpineol (4.56%), α-pinen (3.36%), and β-pinen (3.2%) (DAZRA7 35(8),87,79).

TOXICITY DATA with REFERENCE:
ipr-mus LD50:869 mg/kg DAZRA7 35(8),87,79
scu-mus LD50:991 mg/kg DAZRA7 35(8),87,79
ipr-gpg LD50:1767 mg/kg DAZRA7 35(8),87,79
ims-gpg LD50:1892 mg/kg DAZRA7 35(8),87,79

SAFETY PROFILE: Moderately toxic by intraperitoneal, subcutaneous, and intramuscular routes. See also individual components.

TFZ000 CAS: 9007-12-9 HR: 2
THYROCALCITONIN

SYN: TCT

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data.

TFZ100 CAS: 50809-32-0 HR: 1
THYROID

SYNS: THYRADIN ◻ TIROIDINA

TOXICITY DATA with REFERENCE:
orl-wmn TDLo:48 g/kg/26W-I:CVS,PUL,SKN AIMDAP 148,1450,88

SAFETY PROFILE: An experimental teratogen. Human systemic effects by ingestion: cardiomyopathy, dyspnea, and sweating. When heated to decomposition it emits acrid smoke and irritating fumes.

TFZ275 CAS: 51-48-9 HR: 2
I-THYROXIN

mf: $C_{15}H_{11}I_4NO_4$ mw: 776.87

PROP: dl-Thyroxine: Needle-like crystals. Mp: 235°. Decomp @ 231−233°. Insol in water, alc, and the other usual org solvs, but in the presence of mineral acids or alkalies it dissolves in alc; sol in solns of the alkali hydroxides and in hot solns of the alkali carbonates. When alkali hydroxide solns of thyroxine are saturated with sodium chloride, the sodium salt of thyroxine separates. l-Thyroxine: Crystals, decomp @ 235−236°. d-Thyroxine, Debetrol: Crystals, decomp @ 237°.

SYNS: LEVOTHYROXINE ◻ l-T4 ◻ T4 (hormone) ◻ TETRAIODOTHYRONINE ◻ THX ◻ THYREOIDEUM ◻ THYROXIN ◻ THYROXINE ◻ (−)-THYROXINE ◻ l-THYROXINE

TOXICITY DATA with REFERENCE:
dns-rat-scu 6250 µg/kg/2D-C BEXBAN 72,942,71
orl-man TDLo:63 µg/kg JTCTDW 20,517,83
orl-wmn TDLo:400 µg/kg/2D-I ICMED9 13,33,87

SAFETY PROFILE: Human toxic effects at low oral doses. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of I^- and NO_x.

TFZ300 CAS: 7488-70-2 HR: 2
THYROXINE
mf: $C_{15}H_{11}I_4NO_4$ mw: 776.87
SYNS: 3-(4-(4-HYDROXY-3,5-DIIODOPHENOXY)-3,5-DIIODOPHENYL)ALANINE □ o-(4-HYDROXY-3,5-DIIODOPHENYL)-3,5-DIIODO-TYROSINE
TOXICITY DATA with REFERENCE:
dns-rat-scu 3125 µg/kg BEXBAN 72,942,71
cyt-mus-ipr 250 µg/kg/7D RRENAR 10,149,73
orl-man TDLo:30 µg/kg/3W-I:CVS BMJOAE 292,1185,86
orl-wmn TDLo:42 µg/kg/1W-I NEURAI 35,1792,85
SAFETY PROFILE: Human toxic effects at low oral doses. Human systemic effects by ingestion: EKG changes. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of I^- and NO_x.

TGA275 CAS: 67418-30-8 HR: 3
TIAPAMIL
mf: $C_{26}H_{37}NO_5S_2$•ClH mw: 544.22
SYN: RO 11-1781
TOXICITY DATA with REFERENCE:
orl-rat LD50:1803 mg/kg ARZNAD 31,1401,81
ipr-rat LD50:455 mg/kg ARZNAD 31,1401,81
scu-rat LD50:546 mg/kg ARZNAD 31,1401,81
ivn-rat LD50:84 mg/kg ARZNAD 31,1401,81
orl-mus LD50:581 mg/kg ARZNAD 31,1401,81
ipr-mus LD50:200 mg/kg ARZNAD 31,1401,81
scu-mus LD50:347 mg/kg ARZNAD 31,1401,81
ivn-mus LD50:40 mg/kg ARZNAD 31,1401,81
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl.

TGA375 CAS: 51012-33-0 HR: 3
TIAPRIDE HYDROCHLORIDE
mf: $C_{15}H_{24}N_2O_4S$•ClH mw: 364.93
SYNS: N-(2-(DIETHYLAMINO)ETHYL)-2-METHOXY-5-(METHYLSULFONYL)BENZAMIDE HYDROCHLORIDE □ N-(2-(DIETHYLAMINO)ETHYL)-5-(METHYLSULFONYL)-o-ANISAMIDE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:4840 mg/kg KSRNAM 19,1933,85
ipr-rat LD50:421 mg/kg KSRNAM 19,1933,85
scu-rat LD50:1130 mg/kg KSRNAM 19,1933,85
ivn-rat LD50:254 mg/kg KSRNAM 19,1933,85
orl-mus LD50:1340 mg/kg KSRNAM 19,1933,85
ipr-mus LD50:336 mg/kg KSRNAM 19,1933,85
scu-mus LD50:755 mg/kg KSRNAM 19,1933,85
ivn-mus LD50:189 mg/kg KSRNAM 19,1933,85
orl-dog LD50:240 mg/kg KSRNAM 19,1933,85
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by subcutaneous route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl.

TGA500 CAS: 74-55-5 HR: 3
TIBUTOL
mf: $C_{10}H_{24}N_2O_2$ mw: 204.36
PROP: A solid. Mp: 89–90°.
SYNS: d,N,N'-BIS(1-HYDROXYMETHYLPROPYL)ETHYLENEDIAMINE □ DADI-BUTOL □ EMB □ ETHAMBUTOL □ (R)-2,2'-(1,2-ETHANE-DIYLDIIMINO)BIS-1-BUTANOL □ (+)-2,2'-(ETHYLENE-DIIMINO)DI-1-BUTANOL
TOXICITY DATA with REFERENCE:
orl-wmn TDLo:900 mg/kg/60D-I:LIV BMJOAE 292,866,86
orl-man TDLo:600 mg/kg:PNS,CNS,KID BMJOAE 2,1105,76
orl-man TDLo:1200 mg/kg:SKN,IMM BMJOAE 2,1105,76
orl-mus LD50:8700 mg/kg DPHFAK 23,463,71
ipr-mus LD50:1075 mg/kg DPHFAK 23,463,71
ivn-mus LD50:240 mg/kg DPHFAK 23,463,71
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Human systemic effects by ingestion: nerve or sheath structural changes, motor activity changes, cholestatic jaundice, changes in urine composition, skin dermatitis and allergic anaphylaxis. When heated to decomposition it emits toxic fumes of NO_x.

TGA520 CAS: 4697-14-7 HR: 1
TICARCILLIN SODIUM
mf: $C_{15}H_{14}N_2O_6S_2$•2Na mw: 428.41
PROP: Cream hygroscopic powder.
TOXICITY DATA with REFERENCE:
orl-rat LD50:16 g/kg KSRNAM 12,556,78
ipr-rat LD50:7200 mg/kg KSRNAM 12,556,78
scu-rat LD50:10 g/kg KSRNAM 12,556,78
ivn-rat LD50:5350 mg/kg KSRNAM 12,556,78
ipr-mus LD50:7800 mg/kg KSRNAM 12,556,78
scu-mus LD50:10,700 mg/kg KSRNAM 12,556,78
ivn-mus LD50:5200 mg/kg KSRNAM 12,556,78
scu-dog LD50:7 g/kg KSRNAM 12,556,78
SAFETY PROFILE: Mildly toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and Na_2O.

TGA525 CAS: 53885-35-1 HR: 3
TICLODONE
mf: $C_{14}H_{14}ClNS$•ClH mw: 300.26
PROP: Crystals from EtOH. Mp: 189°.
SYNS: 4-C-32 □ 53-32C □ 5-(o-CHLOROBENZYL)-4,5,6,7-TETRAHYDROTHIENO(3,2-c)PYRIDINE HYDROCHLORIDE □ PANALDINE □ TICLID □ TICLODIX □ TICLOPIDINE HYDROCHLORIDE □ TIKLID
TOXICITY DATA with REFERENCE:
orl-rat LD50:1780 mg/kg MEPHDN 15,272,81
ivn-rat LD50:70 mg/kg IYKEDH 12,1204,81
orl-mus LD50:600 mg/kg MEPHDN 15,272,81
scu-mus LD50:2690 mg/kg MEPHDN 15,272,81
ivn-mus LD50:55 mg/kg USXXAM #4051141

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

TGA600 CAS: 40180-04-9 HR: 3
TIENILIC ACID
mf: $C_{13}H_8Cl_2O_4S$ mw: 331.17
PROP: Crystals from 50% ethanol. Mp: 148−149°; also reported as mp: 157°.
SYNS: ANP 3624 □ CE 3624 □ (2,3-DICHLORO-4-(2-THENOYL)PHENOXY)ACETIC ACID □ (2,3-DICHLORO-4-(2-THIENYLCARBONYL)PHENOXY)ACETIC ACID □ (2,3-DICHLORO-4-(2-THIOPHENECARBONYL)PHENOXY)ACETIC ACID □ DIFLUREX □ FR 3068 □ SELACRYN □ SKF 62698 □ THIENYLIC ACID □ 4-(2-THIENYLKETO)-2,3-DICHLORO-PHENOXYACETIC ACID □ TICREX □ TICRYNAFEN
TOXICITY DATA with REFERENCE:
mma-ham:lng 10 µmol/L MUREAV 157,1,85
msc-ham:lng 100 µmol/L MUREAV 157,1,85
orl-man TDLo:6666 µg/kg:KID NEJMAG 301,1180,79
orl-wmn TDLo:5 mg/kg:KID,LIV NEJMAG 301,1179,79
orl-mus LD50:1275 mg/kg EJMCA5 9,625,74
ivn-mus LD50:225 mg/kg USXXAM #3758506
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. Human systemic effects by ingestion: nausea or vomiting, kidney damage and decreased urine volume or anuria. Mutation data reported. Used as a diuretic, uricosuric and antihypertensive. When heated to decomposition it emits toxic fumes of Cl^- and SO_x.

TGA700 CAS: 80-59-1 HR: 2
TIGLIC ACID
mf: $C_5H_8O_2$ mw: 100.13
PROP: Triclinic plates or rods or crystals from water; spicy odor. D: 0.972, mp: 63.5−64°, bp: 198.5°. Sltly sol in cold water; sol in hot water, alc, and eth.
SYNS: 2-BUTENOIC ACID, 2-METHYL-, (E)-(9CI) □ CEVADIC ACID □ CROTONIC ACID, 2-METHYL-, (E)- □ (E)-2,3-DIMETHYLACRYLIC ACID □ trans-α-β-DIMETHYLACRYLIC ACID □ trans-2,3-DIMETHYLACRYLIC ACID □ trans-2-METHYL-2-BUTENOIC ACID □ (E)-2-METHYLCROTONIC ACID □ trans-2-METHYLCROTONIC ACID □ TIGLINIC ACID
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV FCTOD7 20,837,82
orl-rat LD50:>5 g/kg FCTOD7 20,837,82
skn-rbt LD50:>5 g/kg FCTOD7 20,837,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A severe skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TGA800 CAS: 5837-78-5 HR: 1
TIGLIC ACID, ETHYL ESTER (6CI,7CI)
mf: $C_7H_{12}O_2$ mw: 128.19
SYNS: 2-BUTENOIC ACID, 2-METHYL-, ETHYL ESTER, (E)- □ CROTONIC ACID, 2-METHYL-, ETHYL ESTER, (E)-(8CI) □ ETHYL (E)-2-METHYL-2-BUTENOATE □ ETHYL α-METHYLCROTONATE □ ETHYL (E)-2-METHYLCROTONATE □ ETHYL TIGLATE □ (E)-2-METHYL-2-BUTENOIC ACID ETHYL ESTER
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5 g/kg FCTOD7 26,321,88
skn-rbt LD50:>5 g/kg FCTOD7 26,321,88
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.

TGB000 CAS: 27591-69-1 HR: 3
TILORONE HYDROCHLORIDE
mf: $C_{25}H_{34}N_2O_3$•2ClH mw: 483.53
PROP: Crystals from butanone/MeOH. Mp: 235−237°.
SYNS: BIS-DEAE-FLUORENONE HYDROCHLORIDE □ 2,7-BIS(2-(DIETHYLAMINO)ETHOXY)-FLUOREN-9-ONE DIHYDROCHLORIDE □ 2,7-BIS(2-(DIETHYLAMINO)ETHOXY)-9H-FLUOREN-9-ONE DIHYDROCHLORIDE □ NSC-143969
TOXICITY DATA with REFERENCE:
dnd-esc 20 µmol/L MUREAV 89,95,81
dni-mus:leu 14,600 µg/L INNDDK 1,103,83
orl-hmn TDLo:4 mg/kg:CNS,GIT CCROBU 57,209,73
orl-rat LD50:852 mg/kg SCIEAS 169,1213,70
ipr-rat LD50:244 mg/kg SCIEAS 169,1213,70
orl-mus LD50:959 mg/kg SCIEAS 169,1213,70
ipr-mus LD50:145 mg/kg SCIEAS 169,1213,70
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Experimental reproductive effects. Human systemic effects by ingestion: somnolence, anorexia, hypermotility and diarrhea. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

TGB150 HR: 3
TIMBER RATTLESNAKE VENOM
SYNS: C. HORRIDUS HORRIDUS VENOM □ CROTALUS HORRIDUS HORRIDUS VENOM □ VENOM, SNAKE, CROTALUS HORRIDUS HORRIDUS
TOXICITY DATA with REFERENCE:
ipr-mus LD50:2844 µg/kg TOXIA6 9,131,71
scu-mus LD50:9150 µg/kg PAASAH 44,145,56
ivn-mus LD50:1644 µg/kg TOXIA6 9,131,71
ims-mus LD50:6 µg/kg JTASAG 55,96,80
ipr-mam LD50:2910 µg/kg CLPTAT 8,849,67
ivn-mam LD50:2630 µg/kg CLPTAT 8,849,67
SAFETY PROFILE: Poison by subcutaneous, intramuscular, intravenous, and intraperitoneal routes.

TGB160 CAS: 35035-05-3 HR: 3
TIMEPIDIUM BROMIDE
mf: $C_{17}H_{22}NOS_2$•Br mw: 400.43
PROP: Colorless crystals from acetone/ether. Mp: 70−71°.
SYNS: 1,1-DIMETHYL-5-METHOXY-3-(DITHIEN-2-YLMETHYLENE)PIPERIDINIUM BROMIDE □ N-METHYL-5-METHOXY-3-PIPERIDYLIDENEDITHIENYLMETHANE METHOBROMIDE □ SA 50 Y □ SA 504 □ SESDEN
TOXICITY DATA with REFERENCE:
orl-rat LD50:1213 mg/kg JJPAAZ 22,685,72
scu-rat LD50:252 mg/kg JJPAAZ 22,685,72

ipr-rat LD50:55 mg/kg JJPAAZ 22,685,72
ivn-rat LD50:7 mg/kg OYYAA2 23,461,82
orl-mus LD50:713 mg/kg JMCMAR 15,914,72
ipr-mus LD50:97 mg/kg JMCMAR 15,914,72
scu-mus LD50:145 mg/kg JJPAAZ 22,685,72
ivn-mus LD50:12 mg/kg JJPAAZ 22,685,72
ims-mus LD50:199 mg/kg NIIRDN 6,351,82
SAFETY PROFILE: Poison by intramuscular, subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x, SO_x, and Br^-.

TGB175 CAS: 57648-21-2 HR: 2
TIMIPERONE
mf: $C_{22}H_{24}FN_3OS$ mw: 397.55
PROP: Butyrophenone derivative with neuroleptic activity. Crystals from acetone. Mp: 201−203°. Sltly sol in water.
SYNS: 1-(1-(3-(p-FLUOROBENZOYL)PROPYL)-4-PIPERIDYL)-2-BENZIMIDAZOLINETHIONE ◻ 4'-FLUORO-4-(4-(2-THIOXO-BENZIMIDAZOL-1-YL)PIPERIDINO)-BUTYROPHENONE ◻ TOLOPELON
TOXICITY DATA with REFERENCE:
orl-mus LD50:500 mg/kg JMCMAR 21,1116,78
SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Used as a tranquilizer. When heated to decomposition it emits toxic fumes of F^-, SO_x, and NO_x.

TGB185 CAS: 26921-17-5 HR: 3
TIMOLOL MALEATE
mf: $C_{13}H_{24}N_4O_3S{\bullet}C_4H_4O_4$ mw: 432.55
PROP: A solid. Mp: 201.5−202.5°. Sol in H_2O, EtOH and MeOH.
SYNS: (−)-1-(tert-BUTYLAMINO)-3-((4-MORPHOLINO-1,2,5-THIADIAZOL-3-YL)OXY)-2-PROPANOL MALEATE ◻ MK 950 ◻ TIMACOR ◻ l-TIMOLOL MALEATE ◻ TIMOPTOL
TOXICITY DATA with REFERENCE:
ocu-man TDLo:39 mg/kg/87W-I:BAH,PUL AIMDAP 143,1627,83
orl-rat LD50:1028 mg/kg NIIRDN 6,464,82
ipr-rat LD50:381 mg/kg NIIRDN 6,464,82
scu-rat LD50:881 mg/kg NIIRDN 6,464,82
orl-mus LD50:1137 mg/kg IYKEDH 12,1204,81
ipr-mus LD50:300 mg/kg IYKEDH 12,1204,81
scu-mus LD50:805 mg/kg IYKEDH 12,1204,81
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. Human systemic effects: cardiac changes, convulsions, structural or functional change in trachea or bronchi. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

TGB250 CAS: 7440-31-5 HR: 2
TIN
af: Sn aw: 118.71
PROP: Cubic, gray, crystalline metallic element. Mp: 231.9°, stabilizes @ <18°, d: 7.31, vap press: 1 mm @ 1492°, bp: 2625°. IDLH 100 mg/m^3 (as Sn).
SYNS: SILVER MATT POWDER ◻ TIN (α) ◻ TIN FLAKE ◻ TIN POWDER ◻ ZINN (GERMAN)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: Organic Compounds: TWA 0.1 mg(Sn)/m^3 (skin); Inorganic Compounds (except oxides): TWA 2 mg/m^3
ACGIH TLV: TWA metal, oxide, and inorganic compounds (except SnH_4) as Sn 2 mg/m^3; organic compounds TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin)
DFG MAK: Inorganic 2 mg/m^3, organic 0.1 mg/m^3
NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: An inhalation hazard. Questionable carcinogen with experimental tumorigenic data by implant route. Combustible in the form of dust when exposed to heat or by spontaneous chemical reaction with Br_2, BrF_3, Cl_2, ClF_3, $Cu(NO_3)$, K_2O_2, S. See also POWDERED METALS and TIN COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-125G or NIOSH: Elements (ICP) 7300; METALS in Urine (ICP) 8310.

TGB475 CAS: 2398-96-1 HR: 1
TINACTIN
mf: $C_{19}H_{17}NOS$ mw: 307.43
PROP: Crystals from alc. Mp: 110.5−111.5°. Insol in water; sparingly sol in methanol, ethanol; sol in chloroform (1:1.5), acetone (1:7), CCl_4 (1:9).
SYNS: AFTATE ◻ CHINOFUNGIN ◻ DERMOXIN ◻ m,N-DIMETHYLTHIOCARBANILIC ACID-o-2 NAPHTHYL ESTER ◻ FOCUSAN ◻ FUNGISTOP ◻ HI-ALAZIN ◻ METHYL (3-METHYLPHENYL)CARBAMOTHIOIC ACID, o-2-NAPHTHALEN-YL ESTER ◻ NAPHTHIOMATE T ◻ o-2-NAPHTHYL m,N-DIMETHYLTHIOCARBANILATE ◻ 2-NAPHTHYL N-METHYL-N-(3-TOLYL)THIONOCARBAMATE ◻ PITREX ◻ SORGOA ◻ SPORILINE ◻ TIMOPED ◻ TINADERM ◻ TOLNAFTATE ◻ TOLNAPHTHATE ◻ TOLSANIL ◻ TONOFTAL
TOXICITY DATA with REFERENCE:
orl-mus LD50:10 g/kg NIIRDN 6,530,82
scu-mus LD50:6000 mg/kg NIIRDN 6,530,82
ivn-mus LD50:4800 mg/kg NIIRDN 6,530,82
CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of SO_x and NO_x. A fungicide used to control athlete's foot. See also ESTERS and CARBAMATES.

TGB500 HR: 3
TIN AZIDE TRICHLORIDE
mf: Cl_3N_3Sn mw: 267.07
SAFETY PROFILE: Explosive solid. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-. See also AZIDES and TIN COMPOUNDS.

TGB600 CAS: 16248-90-1 HR: 3
TIN BIS(DIETHYLDITHIOCARBAMATE)
mf: $C_{10}H_{20}N_2S_4{\bullet}Sn$ mw: 415.25
SYNS: BIS(DIETHYLDITHIOCARBAMATO)TIN ◻ BIS(N,N-DIETHYLDITHIOCARBAMATO)TIN ◻ CARBAMIC ACID,

DIETHYLDITHIO-, TIN(II) SALT □ TIN, BIS(DIETHYL-CARBAMODITHIOATO)- □ TIN, BIS(DIETHYLCARBAMO-DITHIOATO-S,S')-, (T-4)-

TOXICITY DATA with REFERENCE:
ipr-rat LDLo:250 mg/kg NCNSA6 5,43,1953

ACGIH TLV: TWA 2 mg(Sn)/m^3

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

TGB750 CAS: 7789-67-5 HR: 3
TIN(IV) BROMIDE (1:4)
mf: Br_4Sn mw: 438.33

PROP: White crystalline mass or hygroscopic crystals. Fumes in air; decomp in water. Mp: 31°, bp: 202°, d (liquid): 3.340 @ 35°, vap press: 10 mm @ 72.7°.

SYNS: STANNIC BROMIDE □ TIN PERBROMIDE □ TIN TETRABROMIDE

TOXICITY DATA with REFERENCE:
ivn-mus LD50:18 mg/kg CSLNX* NX#02222

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2 mg(Sn)/m^3

ACGIH TLV: TWA 2 mg(Sn)/m^3

SAFETY PROFILE: Poison by intravenous route. Violent reaction with NO_2Cl. When heated to decomposition it emits toxic fumes of Br^-. See also BROMIDES and TIN COMPOUNDS.

TGC000 CAS: 7772-99-8 HR: 3
TIN(II) CHLORIDE (1:2)
mf: Cl_2Sn mw: 189.59

PROP: Colorless or white crystals. D: 2.71, mp: 246°, bp: 623°. Sol in less than its own weight of water; very sol in hydrochloric acid (dilute or conc); sol in alc, ethyl acetate, glacial acetic acid, sodium hydroxide solution.

SYNS: C.I. 77864 □ NCI-C02722 □ STANNOUS CHLORIDE (FCC) □ TIN DICHLORIDE □ TIN PROTOCHLORIDE

TOXICITY DATA with REFERENCE:
sln-smc 6 mmol/L MUTAEX 1,21,86
dnd-hmn:leu 10 µmol/L CBINA8 46,189,83
orl-rat LD50:700 mg/kg FOREAE 7,313,42
orl-mus LD50:1200 mg/kg FOREAE 7,313,42
ipr-mus LD50:105 mg/kg COREAF 256,1043,63
ivn-mus LD50:17,800 µg/kg CSLNX* NX#02202
orl-dog LDLo:500 mg/kg HBAMAK 4,1420,35
scu-dog LDLo:159 mg/kg EQSSDX 1,1,75
ivn-dog LDLo:20 mg/kg HBAMAK 4,1420,35
orl-rbt LD50:10 g/kg FAONAU 48A,75,70
scu-gpg LDLo:400 mg/kg BMJOAE 2,217,13

CONSENSUS REPORTS: NTP Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NTPTR* NTP-TR-231,82. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: TWA 2 mg(Sn)/m^3

ACGIH TLV: TWA 2 mg(Sn)/m^3

SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. Experimental reproductive effects. Human mutation data reported. Potentially explosive reaction with metal nitrates. Violent reactions with hydrogen peroxide, ethylene oxide, hydrazine hydrate, nitrates, K, Na. Ignition on contact with bromine trifluoride. A vigorous reaction with calcium acetylide is initiated by flame. When heated to decomposition it emits toxic fumes of Cl^-. See also TIN COMPOUNDS.

TGC250 CAS: 7646-78-8 HR: 3
TIN(IV) CHLORIDE (1:4)

DOT: UN 1827

mf: Cl_4Sn mw: 260.49

PROP: Colorless, fuming caustic liquid or crystals. Mp: −33°, bp: 114.1°, d: 2.232, vap press: 10 mm @ 10°. Sol in H_2O, CCl_4, and C_6H_6.

SYNS: ETAIN (TETRACHLORURE d') (FRENCH) □ LIBAVIUS FUMING SPIRIT □ STAGNO (TETRACLORURO di) (ITALIAN) □ STANNIC CHLORIDE, anhydrous (DOT) □ TIN CHLORIDE, fuming (DOT) □ TIN PERCHLORIDE (DOT) □ TIN TETRACHLORIDE, anhydrous (DOT) □ TINTETRACHLORIDE (DUTCH) □ ZINNTETRACHLORID (GERMAN)

TOXICITY DATA with REFERENCE:
ihl-rat LC50:2300 mg/m^3/10M TOXID9 1,77,81
ipr-mus LD50:101 mg/kg COREAF 256,1043,63

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

OSHA PEL: TWA 2 mg(Sn)/m^3

ACGIH TLV: TWA 2 mg(Sn)/m^3

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by inhalation. A corrosive irritant to skin, eyes, and mucous membranes. Combustible by chemical reaction. Upon contact with moisture, considerable heat is generated. Violent reaction with K, Na, turpentine, ethylene oxide, alkyl nitrates. Dangerous; hydrochloric acid is liberated on contact with moisture or heat. When heated to decomposition it emits toxic fumes of Cl^-. See also HYDROCHLORIC ACID.

TGC275 CAS: 10025-69-1 HR: 3
TIN(II) CHLORIDE DIHYDRATE (1:2:2)
mf: $Cl_2Sn{\bullet}2H_2O$ mw: 225.63

PROP: Crystals; absorbs O_2 forming the oxychloride. Mp: 37.7°. Very sol in H_2O (aq) and HCl; sol in EtOAc, EtOH, HOAc and NaOH.

SYNS: STANNOCHLOR □ STANNOUS CHLORIDE DIHYDRATE

TOXICITY DATA with REFERENCE:
dnd-ham:ovr 50 µmol/L MUREAV 119,195,83
ivn-rat LD50:7830 µg/kg APYPAY 32,193,81
ivn-rat LD50:7830 µg/kg APYPAY 32,193,81
ivn-dog LDLo:20 mg/kg HBTXAC 1,282,55

OSHA PEL: TWA 2 mg(Sn)/m^3

ACGIH TLV: TWA 2 mg(Sn)/m^3

SAFETY PROFILE: Poison by intravenous route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^-. See also TIN COMPOUNDS.

TGC280 CAS: 13940-16-4 HR: 3
TIN CHLORIDE IODIDE
mf: Cl_2I_2Sn mw: 443.39

PROP: Red mobile liquid. D: 3.287 @ 15°, bp: 297°. Sol in C_6H_6, CS_2, $CHCl_3$, and cold H_2O; decomp in hot H_2O.

SYN: STANNIC DICHLORIDE DIIODIDE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56,200 µg/kg CSLNX* NX#02301
OSHA PEL: TWA 2 mg(Sn)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of Sn, I^-, and Cl^-.

TGC282 CAS: 10026-06-9 HR: 3
TIN(IV) CHLORIDE, PENTAHYDRATE (1:4:5)
DOT: UN 2440
mf: $Cl_4Sn•5H_2O$ mw: 350.59
SYNS: STANNIC CHLORIDE PENTAHYDRATE □ STANNIC CHLORIDE, pentahydrate (DOT) □ TETRACHLOROSTANNANE PENTAHYDRATE
TOXICITY DATA with REFERENCE:
cyt-hmn:lyms 2 mg/L MUREAV 282,61,92
sce-hmn:lyms 2 mg/L MUREAV 282,61,92
ipr-rat LD50:41 mg/kg APYPAY 32,719,81
ivn-mus LD50:32 mg/kg CSLNX* NX#02201
OSHA PEL: TWA 2 mg(Sn)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. Mutation data reported. A corrosive liquid. When heated to decomposition it emits toxic vapors of tin and Cl^-.

TGC285 CAS: 59178-29-9 HR: 2
TIN(2+) CITRATE
mf: $C_6H_8O_7•3/2Sn$
SYNS: 1,2,3-PROPANETRICARBOXYLIC ACID, 2-HYDROXY-, TIN(2+) SALT (2:3) (9CI) □ STANNOUS CITRIC ACID □ TIN CITRATE (7CI)
TOXICITY DATA with REFERENCE:
ivn-rbt LDLo:500 mg/kg JLCMAK 28,1344,43
OSHA PEL: TWA 2 mg(Sn)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3
SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic fumes of Sn.

TGC300 HR: 3
TIN, COMPLEX with PYROCATECHOL
PROP: Aromatic complex salt containing 9.5% Sn(II) (AEPPAE 114,39,26).
SYN: HEYDEN 768
TOXICITY DATA with REFERENCE:
scu-mus LDLo:150 mg(Sn)/kg AEPPAE 114,39,26
scu-rbt LDLo:150 mg(Sn)/kg AEPPAE 114,39,26
scu-gpg LDLo:150 mg(Sn)/kg AEPPAE 114,39,26
OSHA PEL: TWA 2 mg(Sn)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3
SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS.

TGC500 HR: D
TIN COMPOUNDS
OSHA PEL: Organic Compounds: TWA 0.1 mg(Sn)/m^3 (skin); Inorganic Compounds (except oxides): TWA 2 mg/m^3
ACGIH TLV: TWA metal, oxide, and inorganic compounds (except SnH_4) as Sn 2 mg/m^3; organic compounds TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg(Sn)/m^3 (skin).
DFG MAK: Inorganic 2 mg/m^3, organic 0.1 mg/m^3
NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: Variable toxicity. Elemental tin and inorganic tin compounds have low toxicity and are poorly absorbed when ingested. Some inorganic tin salts are irritating or can liberate toxic fumes on decomposition. The latter is particularly true of tin halogens. Tin hydride is highly toxic with effects similar to those of arsenic hydride. Inhalation of tin dusts over a period of years may cause pneumoconiosis. Some of the organic tin compounds are strong poisons. Short-chain alkyl tin compounds (e.g., ethyl and methyl compounds) are particularly toxic. Generally alkyl tin compounds are more toxic than aryl compounds and short chain compounds are more toxic than long-chain compounds. The toxicity increases with the number of alkyl groups. Tetramethyl tin chloride and triethyl tin chloride are very toxic to the nervous system. They are lipid soluble and can be absorbed through the skin. Symptoms recede slowly. The concentration of tin in condensed milk from cans may reach 160 ppm and could become hazardous for babies. Some alkyl tin compounds have high ecotoxicity. They have been used in marine paints to prevent growth on boat hulls, but may have too much environmental effect for this purpose. See also TIN and specific compounds.

TGD000 CAS: 58-14-0 HR: 3
TINDURIN
mf: $C_{12}H_{13}ClN_4$ mw: 248.74
PROP: A solid. Mp: 233–234° (capillary), mp: 240–242° (Cu block).
SYNS: CD □ CHLORIDIN □ CHLORIDINE □ 5-(4'-CHLOROPHENYL)-2,4-DIAMINO-6-ETHYLPYRIMIDINE □ 5-(4-CHLOROPHENYL)-6-ETHYL-2,4-PYRIMIDINEDIAMINE □ DARACLOR □ DARAPRAM □ DARAPRIM □ DARAPRIME □ 2,4-DIAMINO-5-p-CHLOROPHENYL-6-ETHYLPYRIMIDINE □ 2,4-DIAMINO-5-(4-CHLOROPHENYL)-6-ETHYLPYRIMIDINE □ DIAMINOPYRITAMIN □ ERBAPRELINA □ KHLORIDIN □ MALACID □ MALOCID □ MALOCIDE □ MALOPRIM □ NCI-C01683 □ NSC-3061 □ PIRIMECIDAN □ PIRIMETAMINA (SPANISH) □ 4753 R.P. □ WR 2978
TOXICITY DATA with REFERENCE:
mmo-sat 10 µL/plate ANYAA9 76,475,58
cyt-mus-ipr 100 mg/kg GNKAA5 9,67,73
ipr-rat LD50:70 mg/kg 14XBAV -,367,64
orl-mus LD50:92 mg/kg BJPCAL 6,185,51
ipr-mus LD50:74 mg/kg EJMCA5 9,658,74
scu-mus LDLo:160 mg/kg JMCMAR 16,1399,73
orl-ham LDLo:250 mg/kg TJADAB 4,205,71
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 13,233,77. NCI Carcinogenesis Bioassay (feed); Inadequate Studies: mouse NCITR* NCI-CG-TR-77,78;

(feed); No Evidence: rat NCITR* NCI-CG-TR-77,78. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. Experimental teratogenic and reproductive effects. Questionable carcinogen. Human mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. Used as an antimalarial drug for humans and to treat toxoplasmosis in hogs.

TGD100 CAS: 7783-47-3 HR: 3
TIN FLUORIDE
mf: F_2Sn mw: 156.69
PROP: Monoclinic, lamellar plates or colorless hygroscopic prisms. Mp: 213°, d: (25°) 4.57, sublimes @ 7°. Sol in water (about 30%). Forms an oxyfluoride, $SnOF_2$, on exposure to air. Prac insol in MeOH, Et_2O, and $CHCl_3$.
SYNS: FLUORISTAN □ STANNOUS FLUORIDE □ TIN BIFLUORIDE □ TIN DIFLUORIDE
TOXICITY DATA with REFERENCE:
mma-sat 4 µmol/plate MUREAV 90,91,81
sln-dmg-orl 15 pph/24H FLUOA4 6,113,73
orl-rat LD50:377 mg/kg IARC** 27,237,82
orl-mus LD50:210 mg/kg IARC** 27,237,82
ipr-mus LD50:16,150 µg/kg DZZEA7 34,484,79
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,208,87. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 mg(Sn)/m^3; 2.5 mg(F)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3; TWA 2.5 mg(F)/m^3; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.
NIOSH REL: TWA 2.5 mg(F)/m^3
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Questionable carcinogen. Mutation data reported. When heated to decomposition it emits toxic fumes of F^-. See also TIN COMPOUNDS.

TGD125 CAS: 50802-21-6 HR: 3
TINGENONE
mf: $C_{28}H_{36}O_3$ mw: 420.64
PROP: Crystals. Mp: 203−204°.
SYNS: MAITENIN □ MAYTENIN □ TINGENIN A □ TINGENON
TOXICITY DATA with REFERENCE:
dni-omi 4700 nmol/L EXPEAM 41,646,85
oms-omi 19 µmol/L EXPEAM 41,646,85
ivn-mus LD50:15 mg/kg 85GDA2 8(1),91,82
SAFETY PROFILE: Poison by intravenous route. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

TGD250 CAS: 19387-91-8 HR: 2
TINIDAZOLE
mf: $C_8H_{13}N_3O_4S$ mw: 247.30
PROP: Colorless crystals from benzene. Mp: 127−128°. Sol in H_2O and C_6H_6.
SYNS: BIOSHIK □ CP 12574 □ ETHYL (2-(2-METHYL-5-NITRO-1-IMIDAZOLYL)ETHYL)SULFONE □ 1-(2-(ETHYLSULFONYL)-ETHYL)-2-METHYL-5-NITROIMIDAZOLE □ FASIGIN □ FASIGYN □ 1H-IMIDAZOLE, 1-(2-(ETHYLSULFONYL)ETHYL)-2-METHYL-5-NITRO- □ PLETIL □ SIMPLOTAN □ SORQUETAN □ TINIDAZOL □ TRICOLAM □ TRIMONASE
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate MUREAV 77,301,80
mnt-mus-ipr 50 mg/kg AIVMBU 15,311,84
orl-rat LD50:2710 mg/kg IYKEDH 11,811,80
ipr-rat LD50:2720 mg/kg IYKEDH 11,811,80
scu-rat LD50:3000 mg/kg IYKEDH 11,811,80
orl-mus LD50:3200 mg/kg JMCMAR 21,781,78
ipr-mus LD50:2730 mg/kg IYKEDH 11,811,80
scu-mus LD50:3940 mg/kg IYKEDH 11,811,80
SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

TGD500 CAS: 10294-70-9 HR: 3
TIN(II) IODIDE
mf: I_2Sn mw: 372.49
PROP: Powder or red needles. Mp: 320°, bp: 720°, d: 5.21. Sol in water.
SYN: STANNOUS IODIDE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:100 mg/kg CSLNX* NX#02455
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 mg(Sn)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of I^-. See also IODIDES and TIN COMPOUNDS.

TGD750 CAS: 7790-47-8 HR: 3
TIN(IV) IODIDE (1:4)
mf: I_4Sn mw: 626.29
PROP: Red cubic crystals. Hydrolyzes completely in H_2O. Mp: 144.5°, bp: 364°, d: 4.473 @ 0°. Sol in CCl_4, $CHCl_3$, C_6H_6, CS_2, EtOH, and Et_2O.
SYNS: STANNIC IODIDE □ TIN TETRAIODIDE
TOXICITY DATA with REFERENCE:
ivn-rat LDLo:200 mg/kg MEIEDD 11,1384,89
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 mg(Sn)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3
SAFETY PROFILE: Poison by intravenous route. Strong reaction with NO_2Cl, (K + S), (Na + S). When heated to decomposition it emits toxic fumes of I^-. See also TIN COMPOUNDS and IODIDES.

TGE000 HR: 3
TIN(II) NITRATE OXIDE
mf: $N_2O_7Sn_2$ mw: 377.39
SAFETY PROFILE: Self-explodes in contact with organic dust. When heated to decomposition it emits very toxic fumes of NO_x. See also TIN COMPOUNDS.

TGE100 CAS: 13863-31-5 HR: 1

TINOPAL 5BM
mf: $C_{38}H_{36}N_{12}O_8S_2$•2Na mw: 898.96
SYN: 2,2'-STILBENEDISULFONIC ACID, 4,4'-BIS((4-ANILINO-6-((2-HYDROXYETHYL)METHYLAMINO)-s-TRIAZIN- 2-YL)AMINO)-, DISODIUM SALT
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg MOD TXAPA9 27,494,74
eye-rbt 100 mg/2S RNS MLD TXAPA9 27,494,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Experimental reproductive effects. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

TGE150 CAS: 27344-41-8 HR: 2
TINOPAL CBS
mf: $C_{28}H_{20}O_6S_2$•2Na mw: 562.58
SYNS: 2,2'-((1,1'-BIPHENYL)-4,4'-DIYLDI-2,1-ETHENEDIYL)BIS-BENZENESULFONIC ACID DISODIUM SALT □ DISODIUM-4,4'-BIS(2-SULFOSTYRYL)BIPHENYL □ STILBENE 3 □ TINOPAL CBS-X
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD MVCRB3 2,193,73
eye-rbt 100 mg SEV TXAPA9 27,494,74
eye-rbt 100 mg/25 rns MLD TXAPA9 27,494,74
orl-rat LD50:5580 mg/kg MVCRB3 2,193,73
CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. A skin and severe eye irritant. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x and Na_2O.

TGE152 CAS: 41098-56-0 HR: 2
TINOPAL CH 3669
mf: $C_{40}H_{38}N_{12}O_{18}S_6$•6Na mw: 1305.20
SYN: 2,2'-STILBENEDISULFONIC ACID, 4,4'-BIS((4-(2,5-DISULFOANILINO)-6-(DIETHYLAMINO)-s-TRIAZIN-2-YL)AMINO)-, HEXASODIUM SALT
TOXICITY DATA with REFERENCE:
orl-rat LD50:11,320 mg/kg MVCRB3 2,193,1973
skn-rbt LD50:>2 g/kg MVCRB3 2,193,1973
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by skin contact. Low toxicity by ingestion. ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TGE155 CAS: 6416-68-8 HR: 1
TINOPAL RBS
mf: $C_{24}H_{16}N_3O_3S$•Na mw: 449.48
SYNS: C.I. 40645 □ C.I. FLUORESCENT BRIGHTENER 46 □ C.I. FLUORESCENT BRIGHTENING AGENT 46, SODIUM SALT □ FLUORESCENT BRIGHTENER 46 □ 4-(2H-NAPHTHO(1,2-d)TRIAZOL-2-YL)-2-STILBENESULFONIC ACID SODIUM SALT □ 2-(4-(2-PHENYLETHENYL)-3-SULFOPHENYL)-2H-NAPHTHO(1,2-d)TRIAZOLE SODIUM SALT □ SODIUM-2-(4-STYRYL-3-SULFOPHENYL)-2H-NAPHTHO-(1,2-d)-TRIAZOLE □ TINOPAL RBS 200
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD MVCRB3 2,193,73
eye-rbt 100 mg MOD TXAPA9 27,494,74
eye-rbt 100 mg/2S rns MLD TXAPA9 27,494,74
eye-rbt 100 mg MLD MVCRB3 2,193,73
ihl-rat LCLo:4500 mg/m^3/4H TXAPA9 27,494,74
CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by inhalation. A skin and eye irritant. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and Na_2O.

TGE165 CAS: 25913-34-2 HR: 2
TINORIDINE HYDROCHLORIDE
mf: $C_{17}H_{20}N_2O_2S$•ClH mw: 352.91
PROP: Yellow-white to yellow powder. Mp: 234−235° (decomp).
SYNS: 2-AMINO-3-ETHOXYCARBONYL-6-BENZYL-4,5,6,7-TETRAHYDROTHIENO(2,3-c)PYRIDINE HYDROCHLORIDE □ ETHYL 2-AMINO-6-BENZYL-4,5,6,7-TETRAHYDROTHIENO(2,3-c)PYRIDINE-3-CARBOXYLATE HYDROCHLORIDE □ NONFLAMIN □ Y-3642-HCl □ Y-3642 HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1200 mg/kg YKKZAJ 99,240,79
ipr-rat LD50:1350 mg/kg JMGZAI 8(8),7,71
orl-mus LD50:1601 mg/kg YACHDS 2,1028,74
ipr-mus LD50:510 mg/kg JMGZAI 8(8),7,71
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl.

TGE250 CAS: 814-94-8 HR: 2
TIN(II) OXALATE
mf: $C_2H_2O_4$•Sn mw: 208.73
PROP: Powder. Mp: 280° (decomp), d: 3.56. Insol in H_2O.
SYNS: ETHANEDIOIC ACID, TIN(2+) SALT (1:1) (9CI) □ OXALIC ACID, TIN(2+) SALT (1:1) (8CI) □ STANNOUS OXALATE □ STAVELAN CINATY (CZECH) □ TIN OXALATE □ TIN(2+) OXALATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:3620 mg/kg MarJV# 29MAR77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 mg(Sn)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3
DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS and OXALATES.

TGE300 CAS: 1332-29-2 HR: 2
TIN OXIDE
mf: O_2Sn mw: 150.69
SYNS: MESA □ STANNOXYL
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 mg/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3

SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS.

TGE500 CAS: 25324-56-5 HR: 3
TIN(IV) PHOSPHIDE
DOT: UN 1433
mf: PSn mw: 149.66
PROP: Silver-white crystals or solid with a dull metallic luster. D: 6.56.
SYN: STANNIC PHOSPHIDE (DOT)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 mg(Sn)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3
DOT CLASSIFICATION: 4.3; Label: Dangerous When Wet, Poison
SAFETY PROFILE: A flammable solid. Reacts with moisture or acid fumes to liberate highly toxic phosphine gas. When heated to decomposition it emits toxic fumes of PO_x. See also PHOSPHINE, PHOSPHIDES, and TIN COMPOUNDS.

TGE750 CAS: 73926-79-1 HR: 3
TIN POTASSIUM TARTRATE
SYN: STANNOUS POTASSIUM TARTRATE
TOXICITY DATA with REFERENCE:
scu-mus LDLo:70 mg(Sn)/kg AEPPAE 114,39,26
scu-rbt LDLo:70 mg(Sn)/kg AEPPAE 114,39,26
scu-gpg LDLo:70 mg(Sn)/kg AEPPAE 114,39,26
OSHA PEL: TWA 2 mg(Sn)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3
SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits toxic fumes of K_2O. See also TIN COMPOUNDS.

TGF000 CAS: 72378-89-3 HR: 3
TIN SODIUM TARTRATE
SYN: SODIUM STANNOUS TARTRATE
TOXICITY DATA with REFERENCE:
ivn-rat LDLo:52,400 µg/kg EQSSDX 1,1,75
ivn-cat LDLo:105 mg/kg EQSSDX 1,1,75
scu-rbt LDLo:65,500 µg/kg EQSSDX 1,1,75
OSHA PEL: TWA 2 mg(Sn)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3
SAFETY PROFILE: Poison by intravenous and subcutaneous routes. When heated to decomposition it emits toxic fumes of Na_2O. See also TIN COMPOUNDS.

TGF010 CAS: 7488-55-3 HR: 2
TIN(II) SULFATE
mf: O_4S•Sn mw: 214.75
SYNS: STANNOUS SULFATE □ SULFURIC ACID, TIN(2+) SALT (1:1) □ TIN(2+) SULFATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:2207 mg/kg GISAAA 51(6),82,86
orl-mus LD50:2152 mg/kg GISAAA 51(6),82,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 mg(Sn)/m^3
ACGIH TLV: TWA 2 mg(Sn)/m^3
SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of tin and SO_x.

TGF025 CAS: 102577-46-8 HR: 1
TINUVIN 1130
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg MLD EPASR* 8EHQ-0986-0627
SAFETY PROFILE: An eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

TGF030 CAS: 36756-79-3 HR: 2
TIOCARBAZIL
mf: $C_{16}H_{25}NOS$ mw: 279.48
SYNS: S-BENZYL N,N-DI-sec-BUTYL THIOCARBAMATE □ CARBAMIC ACID, DI-sec-BUTYLTHIO-, S-BENZYL ESTER □ N,N-DI-sec-BUTYL-S-BENZYLTHIOCARBAMATE □ DREPAMON □ M-3432
TOXICITY DATA with REFERENCE:
orl-rat LD50:10 g/kg 85ARAE 2,92,1977
skn-rat LD50:>4 g/kg FMCHA2-,C117,1991
orl-mus LD50:8 g/kg PEMNDP 9,824,1991
orl-rbt LD50:>10 g/kg PEMNDP 9,824,1991
skn-rbt LD50:>1200 mg/kg PEMNDP 9,824,1991
orl-gpg LD50:>10 g/kg PEMNDP 9,824,1991
orl-ckn LD50:>10 g/kg FMCHA2-,C117,1991
orl-qal LD50:>10 g/kg PEMNDP 9,824,1991
orl-brd LD50:>10 g/kg PEMNDP 9,824,1991
SAFETY PROFILE: Moderately toxic by skin contact. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TGF050 CAS: 65899-73-2 HR: 2
TIOCONAZOLE
mf: $C_{16}H_{13}Cl_3N_2OS$ mw: 387.72
SYN: (±)-1-(2,4-DICHLORO-β-((2-CHLORO-3-ETHENYL)OXY)PHENETHYL)IMIDAZOLE
TOXICITY DATA with REFERENCE:
orl-rat LD50:770 mg/kg YKYUA6 35,1623,84
ipr-rat LD50:730 mg/kg YKYUA6 35,1623,84
orl-mus LD50:1870 mg/kg YKYUA6 35,1623,84
ipr-mus LD50:508 mg/kg YKYUA6 35,1623,84
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^-, SO_x, and NO_x.

TGF060 CAS: 11043-90-6 HR: 1
TIPOL
TOXICITY DATA with REFERENCE:
orl-rat LD50:11,040 mg/kg GTPPAF 8,115,72
SAFETY PROFILE: Low toxicity by ingestion.

TGF075 CAS: 71731-58-3 HR: 3
TIQUIZIUM BROMIDE
mf: $C_{19}H_{24}NS_2$•Br mw: 410.47
PROP: Needles or prisms from methanol-acetone. Mp: 246−248° (decomp).
SYNS: HSR-902 □ THIATON □ 3-(DI(2-THIENYL)METHYLENE)-5-

METHYLDECAHYDROQUINOLIZANIUM BROMIDE □ 3-(DI-2-THIENYLMETHYLENE)-5-METHYL-trans-QUINOLIZIDINIUM BROMIDE

TOXICITY DATA with REFERENCE:
orl-rat LD50:1177 mg/kg OYYAA2 23,1,82
ipr-rat LD50:70,500 µg/kg OYYAA2 23,1,82
scu-rat LD50:169 mg/kg OYYAA2 23,1,82
ivn-rat LD50:11,400 µg/kg OYYAA2 23,1,82
orl-mus LD50:578 mg/kg OYYAA2 23,1,82
ipr-mus LD50:83,700 µg/kg OYYAA2 23,1,82
scu-mus LD50:82,100 µg/kg OYYAA2 23,1,82
ivn-mus LD50:10,300 µg/kg OYYAA2 23,1,82
orl-dog LD50:662 mg/kg OYYAA2 23,1,82
ipr-dog LD50:56,700 µg/kg OYYAA2 23,1,82
scu-dog LD50:129 mg/kg OYYAA2 23,1,82
ivn-dog LD50:14,200 µg/kg OYYAA2 23,1,82

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

TGF175 CAS: 55837-29-1 HR: 3
TIROPRAMIDE
mf: $C_{28}H_{41}N_3O_3$ mw: 467.72

PROP: Crystals from pet ether. Mp: 65−67°.

SYNS: dl-α-BENZAMIDO-p-(2-(DIETHYLAMINO)ETHOXY)-N,N-DIPROPYLHYDROCINNAMAMIDE □ (±)-α-(BENZOYLAMINO)-4-(2-(DIETHYLAMINO)ETHOXY)-N,N-DIPROPYLBENZENEPROPANAMIDE □ CR-605 □ o-(DIETHYLAMINOETHYL)-N-BENZOYL-dl-TYROSIL-DI-n-PROPYLAMIDE □ MAIORAD □ TIROPRAMIDA (SPANISH)

TOXICITY DATA with REFERENCE:
orl-rat LD50:800 mg/kg DRFUD4 7,413,82
ipr-rat LD50:140 mg/kg DRFUD4 7,413,82
scu-rat LD50:430 mg/kg DRFUD4 7,413,82
ivn-rat LD50:33,900 µg/kg USXXAM #4004008
orl-mus LD50:550 mg/kg DRFUD4 7,413,82
ipr-mus LD50:120 mg/kg DRFUD4 7,413,82
scu-mus LD50:245 mg/kg DRFUD4 7,413,82
ivn-mus LD50:40,500 µg/kg DRFUD4 7,413,82

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

TGF200 CAS: 25168-15-4 HR: D
2,4,5-T ISOOCTYL ESTER
mf: $C_{16}H_{21}Cl_3O_3$ mw: 367.72

SYNS: 2,4,5-TRICHLOROPHENOXY, ACETIC ACID, ISOOCTYL ESTER □ U 46T

TOXICITY DATA with REFERENCE:
orl-mus TDLo:1471 mg/kg (12-15D preg):TER AECTCV 6,33,77

SAFETY PROFILE: An experimental teratogen. When heated to decomposition it emits toxic fumes of Cl^-. See also 2,4,5-TRICHLOROPHENOXY ACETIC ACID.

TGF210 CAS: 93-78-7 HR: 2
2,4,5-T, ISOPROPYL ESTER
mf: $C_{11}H_{11}Cl_3O_3$ mw: 297.57

SYNS: (2,4,5,-TRICHLOROPHENOXY)ACETIC ACID, ISOPROPYL ESTER □ (2,4,5,-TRICHLOROPHENOXY)ACETIC ACID-1-METHYL ESTER (9CI)

TOXICITY DATA with REFERENCE:
orl-rat LD50:495 mg/kg AJVRAH 15,622,54
orl-mus LD50:551 mg/kg AJVRAH 15,622,54
orl-gpg LD50:449 mg/kg AJVRAH 15,622,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl^-. See also AGENT ORANGE and ESTERS.

TGF220 CAS: 27960-69-6 HR: D
TITANIC SULFATE
mf: $H_2O_4S{\bullet}xTi$ mw: 433.38

SYNS: SULFURIC ACID, TITANIUM(4+) SALT □ TITANIC SULPHATE

TOXICITY DATA with REFERENCE:
itt-rat TDLo:11,678 µg/kg (male 1D pre):REP JRPFA4 7,21,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

TGF250 CAS: 7440-32-6 HR: 3
TITANIUM
af: Ti aw: 47.90

PROP: Dark-gray amorphous powder or hard, lustrous white metal. Not attacked by alkalies or cold mineral acids (except HF). Resists corrosion (oxide layer). D: 4.5 @ 20°, autoign temp: 1200° for solid metal in air, 250° for powder, mp: 1667°, bp: 3285°.

SYNS: CONTIMET 30 □ C.P. TITANIUM □ IMI 115 □ NCI-C04251 □ OREMET □ T 40 □ TITANATE □ TITANIUM 50A □ TITANIUM ALLOY □ VT 1

TOXICITY DATA with REFERENCE:
ims-rat TDLo:114 mg/kg/77W-I:ETA NCIUS* PH 43-64-886,JUL,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Experimental reproductive effects. The dust may ignite spontaneously in air. Flammable when exposed to heat or flame or by chemical reaction. Titanium can burn in an atmosphere of carbon dioxide, nitrogen, or air. Also reacts violently with BrF_3, CuO, PbO, (Ni + $KClO_3$), metaloxy salts, halocarbons, halogens, CO_2, metal carbonates, Al, water, AgF, O_2, nitryl fluoride, HNO_3, O_2, $KClO_3$, KNO_3, $KMnO_4$, steam @ 704°, trichloroethylene, trichlorotrifluoroethane. Ordinary extinguishers are often ineffective against titanium fires. Such fires require special extinguishers designed for metal fires. In airtight enclosures, titanium fires can be controlled by the use of argon or helium. Titanium, in the absence of moisture, burns slowly, but evolves much heat. The application of water to burning titanium can cause an explosion. Finely divided titanium dust and powders, like most metal powders, are potential explosion hazards when exposed to sparks, open flame, or high-heat sources. See

also TITANIUM COMPOUNDS, POWDERED METALS, and MAGNESIUM.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Elements (ICP), 7300 or Tissue 8005 (ICP), 8310.

TGF500 CAS: 7440-32-6 HR: D
TITANIUM (wet powder)
SYN: TITANIUM METAL POWDER, WET (DOT)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: An experimental teratogen. See also TITANIUM COMPOUNDS and TITANIUM.

TGF750 HR: 3
TITANIUM AZIDE TRICHLORIDE
mf: Cl_3N_3Ti mw: 196.27
SAFETY PROFILE: Explosive solid. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also TITANIUM COMPOUNDS and AZIDES.

TGG000 CAS: 12070-08-5 HR: 3
TITANIUM CARBIDE
mf: CTi mw: 59.91
PROP: A solid. D: 4.930, mp: 3137°.
SAFETY PROFILE: The dust may explode if exposed to spark. Incompatible with air. See also TITANIUM COMPOUNDS.

TGG250 CAS: 7705-07-9 HR: 3
TITANIUM CHLORIDE
DOT: UN 2441/UN 2869
mf: Cl_3Ti mw: 154.25
PROP: Colorless to light-yellow liquid; fumes in moist air. þ&□ -form is a red-violet solid, β-form is a brown solid. The β or þ&□ transformation occurs at 250−300° or at 40° in an inert solv containing $TiCl_4$. Disproportionates to $TiCl_2$ and $TiCl_4$ above 4°. Readily oxidized in air. Mp: −30°, bp: 136.4°, d: 1.772 @ 25°/25°, vap press: 10 mm @ 21.3°.
SYNS: TAC 121 □ TAC 131 □ TITANIUM(III) CHLORIDE □ TITANIUM TRICHLORIDE MIXTURES (UN 2869) (DOT) □ TITANIUM TRICHLORIDE MIXTURES, pyrophoric (UN 2441) (DOT) □ TITANIUM TRICHLORIDE, pyrophoric (UN 2441) (DOT) □ TITANOUS CHLORIDE □ TRICHLOROTITANIUM
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive (UN 2869); DOT Class: 4.2; Label: Spontaneously Combustible, Corrosive (UN 2441)
SAFETY PROFILE: A corrosive irritant to skin, eyes, and mucous membranes. A severe corrosive because it liberates heat and hydrochloric acid upon contact with moisture. If spilled on skin, wipe off with dry cloth before applying water. May ignite spontaneously in air. Flammable when exposed to heat or flame. Reacts violently with K, HF. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^-. See also TITANIUM COMPOUNDS.

TGG500 HR: D
TITANIUM COMPOUNDS
SAFETY PROFILE: These compounds are generally considered to be physiologically inert. There are no reported cases in the literature where titanium as such has caused human intoxication. The dusts of titanium or most titanium compounds such as titanium oxide may be placed in the nuisance category. Titanium tetrachloride, however, is an irritant and corrosive material, because, when exposed to moisture, it hydrolyzes to hydrogen chloride. See also TITANIUM and specific compounds.

TGG600 CAS: 32006-07-8 HR: 3
TITANIUM DIAZIDE DIBROMIDE
mf: $TiBr_2N_6$ mw: 291.73
SAFETY PROFILE: A highly explosive solid. When heated to decomposition it emits toxic fumes of Br^- and NO_x. See also TITANIUM COMPOUNDS, AZIDES, and BROMIDES.

TGG625 CAS: 13783-04-5 HR: 3
TITANIUM DIBROMIDE
mf: $TiBr_2$ mw: 207.69
PROP: Black solid. Disproportionates to Ti and $TiBr_4$ above 4°. Mp: @ >500° (decomp).
SAFETY PROFILE: May ignite spontaneously in moist air. When heated to decomposition it emits toxic fumes of Br^-. See also TITANIUM COMPOUNDS and BROMIDES.

TGG750 CAS: 10049-06-6 HR: 3
TITANIUM DICHLORIDE
mf: Cl_2Ti mw: 118.81
PROP: Black crystals or red-brown solid. Mp: 1035°, d: 3.13. Decomp by water; sol in alc; almost insol in chloroform, ether, carbon disulfide.
SAFETY PROFILE: Ignites spontaneously in air. Violent reaction with water liberates explosive hydrogen gas. When heated to decomposition it emits toxic fumes of Cl^-. See also TITANIUM COMPOUNDS.

TGG760 CAS: 13463-67-7 HR: 1
TITANIUM DIOXIDE
mf: O_2Ti mw: 79.90
PROP: White amorphous powder or white solid with very high refractive index. Loses O_2 in air to form $TiO_{1.985}$ which melts at *ca.* 18°. Mp: 1860° (decomp), d: 4.26. Insol in water, hydrochloric acid, dil sulfuric acid, and alc; sol in hot concentrated H_2SO_4 and HF. IDLH 5000 mg/m^3.
SYNS: A-FIL CREAM □ ATLAS WHITE TITANIUM DIOXIDE □ AUSTIOX □ BAYERITIAN □ BAYERTITAN □ BAYTITAN □ CALCOTONE WHITE T □ C.I. 77891 □ C.I. PIGMENT WHITE 6 □ COSMETIC WHITE C47-5175 □ C-WEISS 7 (GERMAN) □ FLAMENCO □ HOMBITAN □ HORSE HEAD A-410 □ KH 360 □ KRONOS TITANIUM DIOXIDE □ LEVANOX WHITE RKB □ NCI-C04240 □ RAYOX □ RUNA RH20 □ RUTILE □ TIOFINE □ TIOXIDE □ TITANDIOXID (SWEDEN) □ TITANIUM OXIDE □ TRIOXIDE(S) □ TRONOX □ UNITANE O-110 □ 1700 WHITE □ ZOPAQUE
TOXICITY DATA with REFERENCE:
skn-hmn 300 µg/3D-I MLD 85DKA8 -,127,77

ihl-rat TCLo:250 mg/m^3/6H/2Y-I:CAR TXAPA9 79,179,85
ims-rat TDLo:360 mg/kg/2Y-I:NEO NCIUS* PH 43-64-886,JUL,68
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-97,79. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
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%); Not Classifiable as a Human Carcinogen
DFG MAK: 1.5 mg/m^3
SAFETY PROFILE: A nuisance dust. A human skin irritant. Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Violent or incandescent reaction with metals at high temperatures (e.g., aluminum, calcium, magnesium, potassium, sodium, zinc, lithium). See also TITANIUM COMPOUNDS.

TGG775 CAS: 7245-18-3 HR: 3
TITANIUM(III) METHOXIDE
mf: $C_3H_9O_3Ti$ mw: 140.98
$Ti(OCH_3)_3$
SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits acrid smoke and irritating fumes. See also TITANIUM COMPOUNDS.

TGH250 CAS: 13825-74-6 HR: 2
TITANIUM SULFATE
DOT: NA 1760
mf: H_2O_4S•1/2Ti
PROP: Colorless solid, decomp to TiO_2 + SO_3. Colorless crystals.
SYNS: SULFURIC ACID, TITANIUM(4+) SALT (2:1) □ TITANIUM DISULFATE □ TITANIUM SULFATE SOLUTION (DOT)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: A corrosive irritant to skin, eyes, and mucous membranes. When heated to decomposition it emits toxic fumes of SO_x. See also TITANIUM COMPOUNDS and SULFATES.

TGH252 CAS: 13693-11-3 HR: 2
TITANIUM SULFATE SOLUTION
DOT: NA 1760
mf: O_8S_2•Ti mw: 240.02
SYNS: SULFURIC ACID, TITANIUM(4+) SALT (2:1) □ TITANIUM DISULFATE
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: A corrosive to skin and eyes. When heated to decomposition it emits corrosive and toxic vapors of SO_x and Ti.

TGH350 CAS: 7550-45-0 HR: 3
TITANIUM TETRACHLORIDE
DOT: UN 1838
mf: Cl_4Ti mw: 189.70
PROP: Colorless, readily hydrolyzed liquid; penetrating acid odor. D: 1.726, mp: −24.1°, bp: 136.4°. Sol in cold water and alc; decomp in hot water.
SYNS: TETRACHLORURE de TITANE (FRENCH) □ TITAAN-TETRACHLORID (DUTCH) □ TITANE (TETRACHLORURE de) (FRENCH) □ TITANIO TETRACHLORURO di (ITALIAN) □ TITANIUM CHLORIDE □ TITANTETRACHLORID (GERMAN)
TOXICITY DATA with REFERENCE:
ihl-rat LC50:400 mg/m^3 85GMAT -,111,82
ihl-mus LC50:100 mg/m^3/2H 85GMAT -,111,82
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Community Right-To-Know List. Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive, Poison
SAFETY PROFILE: Poison by inhalation. A corrosive irritant to skin, eyes, and mucous membranes. When heated to decomposition it emits toxic fumes of Cl^-. See also TITANIUM COMPOUNDS.

TGH500 CAS: 1271-29-0 HR: 3
TITANOCENE
mf: $C_{10}H_{10}Ti$ mw: 178.10
PROP: A black solid.
SYN: DI-pi-CYCLOPENTADIENYLTITANIUM
TOXICITY DATA with REFERENCE:
ims-rat LDLo:50 mg/kg NCIUS* PH-43-64-886
ims-ham LDLo:83 mg/kg NCIUS* PH-43-64-886
SAFETY PROFILE: Poison by intramuscular route. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also TITANIUM COMPOUNDS.

TGH520 CAS: 39465-37-7 HR: 3
TITYUSTOXIN
SYN: TSTX
TOXICITY DATA with REFERENCE:
ivn-rat LDLo:1 mg/kg AGACBH 8,113,78
ipr-mus LD50:160 µg/kg TOLED5 71,97,94
SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

TGH600 CAS: 64461-82-1 HR: 3
TIZANIDINE HYDROCHLORIDE
mf: $C_9H_8ClN_5S$•ClH mw: 290.19
SYN: 5-CHLORO-4-(2-IMIDAZOLIN-2-YLAMINO)-2,1,3-BENZOTHIADIAZOLE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:414 mg/kg KSRNAM 19,5811,85
scu-rat LD50:282 g/kg KSRNAM 19,5811,85
ivn-rat LD50:35 mg/kg KSRNAM 19,5811,85
orl-mus LD50:235 mg/kg JKXXAF #81-02912
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl.

TGH650 CAS: 64049-85-0 HR: 3
TL-1185
mf: $C_{12}H_{19}N_2O_2$•CH_3O_4S mw: 334.43
SYNS: N-METHYLCARBAMIC ACID-2-METHYL-5-DIMETHYLAMINOPHENYL ESTER, METHOSULFATE □ METHYLCARBAMIC ACID-5-(TRIMETHYLAMMONIO)-o-TOLYL ESTER, METHYLSULFATE □ (3-(METHYLCARBAMOYLOXY)-p-TOLYL)TRIMETHYLAMMONIUM METHYLSULFATE
TOXICITY DATA with REFERENCE:
scu-rat LDLo:200 μg/kg NTIS** PB158-508
scu-mus LD50:110 μg/kg NDRC** No. 9-4-1-19,44
scu-dog LDLo:200 μg/kg NTIS** PB158-508
scu-cat LDLo:200 μg/kg NTIS** PB158-508
scu-rbt LDLo:200 μg/kg NTIS** PB158-508
scu-gpg LDLo:200 μg/kg NTIS** PB158-508
scu-dom LDLo:300 μg/kg NTIS** PB158-508
SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits toxic fumes of SO_x, NH_3, and NO_x. See also CARBAMATES.

TGH655 CAS: 64050-01-7 HR: 3
TL-1186
mf: $C_{12}H_{19}N_2O_2$•HO_4S mw: 320.40
SYNS: N-METHYLCARBAMIC ACID 2-METHYL-5-DIMETHYLAMINOPHENYL ESTER, METHOSULFURIC ACID □ METHYLCARBAMIC ACID 5-(TRIMETHYLAMMONIO)-o-TOLYL ESTER, BISULFATE □ (3-(METHYLCARBAMOYLOXY)-p-TOLYL)TRIMETHYLAMMONIUM BISULFATE
TOXICITY DATA with REFERENCE:
scu-rat LDLo:200 μg/kg NTIS** PB158-508
scu-mus LD50:103 μg/kg NTIS** PB158-508
scu-dog LDLo:200 μg/kg NTIS** PB158-508
scu-rbt LDLo:200 μg/kg NTIS** PB158-508
scu-gpg LDLo:100 μg/kg NTIS** PB158-508
SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits toxic fumes of SO_x, NH_3, and NO_x. See also CARBAMATES.

TGH660 CAS: 64046-38-4 HR: 3
TL-1188
mf: $C_{12}H_{19}N_2O_2$•CH_3O_4S mw: 334.43
SYNS: N-METHYLCARBAMIC ACID-4-METHYL-3-DIMETHYLAMINOPHENYL ESTER, METHOSULFATE □ METHYLCARBAMIC ACID-3-(TRIMETHYLAMMONIO)-p-TOLYL ESTER, METHYLSULFATE □ ((2-METHYL-5-METHYLCARBAMOYLOXY)-PHENYL)TRIMETHYLAMMONIUM METHYLSULFATE
TOXICITY DATA with REFERENCE:
scu-rat LDLo:200 μg/kg NTIS** PB158-508
scu-mus LD50:200 μg/kg NTIS** PB158-508
scu-dog LDLo:200 μg/kg NTIS** PB158-508
scu-rbt LDLo:200 μg/kg NTIS** PB158-508
scu-gpg LDLo:200 μg/kg NTIS** PB158-508
SAFETY PROFILE: A deadly poison by subcutaneous route. When heated to decomposition it emits toxic fumes of SO_x, NH_3, and NO_x. See also CARBAMATES and ESTERS.

TGH665 CAS: 64046-12-4 HR: 3
TL-1299
mf: $C_{13}H_{21}N_2O_2$•Cl mw: 272.81
SYNS: AR-16 □ N-METHYLCARBAMIC ACID-3-DIETHYLAMINOPHENYL ESTER, METHOCHLORIDE □ METHYLCARBAMIC ACID-m-(DIETHYLMETHYLAMMONIO)-PHENYL ESTER, CHLORIDE □ (3-(N-METHYLCARBAMOYLOXY)-PHENYL)-DIETHYLMETHYLAMMONIUM CHLORIDE □ T-1123
TOXICITY DATA with REFERENCE:
scu-mus LD50:90 μg/kg NTIS** PB158-508
ivn-mus LD80:100 μg/kg NTIS** PB158-508
scu-dog LDLo:100 μg/kg NTIS** PB158-508
imp-mky LDLo:100 μg/kg NTIS** PB158-508
imp-dom LDLo:300 μg/kg NTIS** PB158-508
SAFETY PROFILE: A deadly poison by subcutaneous, intravenous, and implant routes. When heated to decomposition it emits toxic fumes of NO_x, NH_3, and Cl^-. See also CARBAMATES and ESTERS.

TGH670 CAS: 64046-11-3 HR: 3
TL-1422
mf: $C_{14}H_{23}N_2O_2$•Cl mw: 286.84
SYNS: N,N-DIMETHYLCARBAMIC ACID-3-DIETHYLAMINOPHENYL ESTER, METOCHLORIDE □ DIMETHYLCARBAMIC ACID-m-(DIETHYLMETHYLAMMONIO)-PHENYL ESTER, CHLORIDE □ (3-(DIMETHYLCARBAMOYLOXY)PHENYL)DIETHYLMETHYLAMMONIUM CHLORIDE
TOXICITY DATA with REFERENCE:
scu-mus LD50:58 μg/kg NTIS** PB158-508
scu-dog LDLo:100 μg/kg NTIS** PB158-508
scu-rbt LDLo:100 μg/kg NTIS** PB158-508
SAFETY PROFILE: A deadly poison by subcutaneous route. When heated to decomposition it emits toxic fumes of Cl^-, NH_3, and NO_x. See also CARBAMATES and ESTERS.

TGH675 CAS: 64046-20-4 HR: 3
TL-1434
mf: $C_{13}H_{21}N_2O_2$•Br mw: 317.27
SYNS: N-METHYLCARBAMIC ACID-3-DIMETHYLAMINOPHENYL ESTER, PROPYL BROMIDE □ (3-(N-METHYLCARBAMOYLOXY)PHENYL)DIMETHYLPROPYLAMMONIUM BROMIDE
TOXICITY DATA with REFERENCE:
scu-rat LDLo:200 μg/kg NTIS** PB158-508
scu-mus LD50:100 μg/kg NTIS** PB158-508
scu-dog LDLo:50 μg/kg NTIS** PB158-508
scu-cat LDLo:50 μg/kg NTIS** PB158-508
scu-rbt LDLo:100 μg/kg NTIS** PB158-508
scu-gpg LDLo:100 μg/kg NTIS** PB158-508
SAFETY PROFILE: A deadly poison by subcutaneous route. When heated to decomposition it emits toxic fumes of Br^-, NH_3, and NO_x. See also CARBAMATES and ESTERS.

TGH680 CAS: 64046-07-7 HR: 3
TL-1435
mf: $C_{13}H_{19}N_2O_2$•Br mw: 315.25
SYNS: N-METHYLCARBAMIC ACID-3-DIMETHYLAMINOPHENYL ESTER, ALLYL BROMIDE □ (3-(N-METHYLCARBAMOYLOXY)PHENYL)ALLYLDIMETHYLAMMONIUM BROMIDE
TOXICITY DATA with REFERENCE:
scu-rat LDLo:200 μg/kg NTIS** PB158-508
scu-mus LD50:102 μg/kg NTIS** PB158-508
scu-dog LDLo:200 μg/kg NTIS** PB158-508
scu-rbt LDLo:200 μg/kg NTIS** PB158-508
scu-gpg LDLo:100 μg/kg NTIS** PB158-508

SAFETY PROFILE: A deadly poison by subcutaneous route. When heated to decomposition it emits toxic fumes of Br^-, NH_3, and NO_x. See also CARBAMATES and ESTERS.

TGH685 CAS: 64050-95-9 HR: 3
TL-1448
mf: $C_{14}H_{21}N_2O_2$•I mw: 276.27
SYNS: METHYLCARBAMIC ACID-(4-ALLYLDIMETHYL-AMMONIO)-m-TOLYL ESTER, IODIDE □ N-METHYL-CARBAMIC ACID-3-METHYL-4-DIMETHYLAMINOPHENYL ESTER, ALLYLIODIDE □ (4-METHYLCARBAMOYLOXY-o-TOLYL)ALLYLDIMETHYLAMMONIUM IODIDE
TOXICITY DATA with REFERENCE:
scu-rat LDLo:500 µg/kg NTIS** PB158-508
scu-mus LD50:240 µg/kg NTIS** PB158-508
scu-rbt LDLo:500 µg/kg NTIS** PB158-508
scu-gpg LDLo:300 µg/kg NTIS** PB158-508
SAFETY PROFILE: A deadly poison by subcutaneous route. When heated to decomposition it emits toxic fumes of I^-, NH_3, and NO_x. See also CARBAMATES and ESTERS.

TGH690 CAS: 52207-87-1 HR: 3
TM 3
mf: $C_{17}H_{24}N_4O_2$•ClH mw: 352.86
SYN: 2-PHENYL-4-DIMETHYLAMINOPROPYLAMINO-6-ETHOXY-3(2H)-PYRIDAZINONE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:200 mg/kg NYKZAU 68,442,72
orl-mus LD50:1320 mg/kg NYKZAU 68,442,72
ipr-mus LD50:380 mg/kg NYKZAU 68,442,72
scu-mus LD50:520 mg/kg NYKZAU 68,442,72
ivn-mus LD50:100 mg/kg NYKZAU 68,442,72
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 and HCl.

TGH725 HR: D
TOBACCO
SYNS: BURLEY TOBACCO □ NICOTIANA TABACUM □ TOBACCO LEAF, NICOTIANA TABACUM
TOXICITY DATA with REFERENCE:
mnt-mus-ipr 20 mg/kg CRNGDP 5,501,84
msc-ham:lng 10 mg/L CRNGDP 5,501,84
SAFETY PROFILE: An experimental teratogen. Mutation data reported. See also other tobacco entries, SMOKELESS TOBACCO, and NICOTINE.

TGH750 CAS: 8037-19-2 HR: 2
TOBACCO LEAF ABSOLUTE
PROP: An extract of the cured leaves of *Nicotiana affinis* with petroleum or benzene and then with alc (FCTXAV 16,637,78).
SYN: BURLEY TOBACCO
TOXICITY DATA with REFERENCE:
skn-gpg 500 mg/24H MLD FCTXAV 16,637,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also SMOKELESS TOBACCO, NICOTINE, and other tobacco entries.

TGH800 CAS: 84961-66-0 HR: 2
TOBACCO LEAF, AQUEOUS EXTRACT
CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data reported. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

TGI000 HR: 2
TOBACCO LEAF, NICOTIANA GLAUCA
SYN: NICOTIANA GLAUCA
SAFETY PROFILE: The smoke produced by burning tobacco contains the highly toxic alkaloid nicotine and tars, phenols, carbon monoxide, cyanides, nitrates, nitrites, carcinogenic, co-carcinogenic and perhaps 100 other chemicals, alpha-emitters, etc. An experimental teratogen. A nicotine-containing dried leaf of the tobacco plant. Habitual inhalation of tobacco smoke is considered a leading cause of lung cancer and circulatory problems, cardiac problems, etc. Combustible when exposed to heat or flame. See also other tobacco entries, SMOKELESS TOBACCO, and NICOTINE.

TGI100 HR: 3
TOBACCO PLANT
PROP: Large annual or perennial shrubs with leaves that are often broad, hairy, and sticky. The trumpet-shaped flowers are white, yellow, green-yellow, or red. The seed capsule holds many small seeds. *N. tabacum* is the principal commercial tobacco in the western countries. *N. rustica*, native to South America, is found sporadically across the United States and is the most widely cultivated tobacco in the Orient. *N. longiflora* is commonly cultivated as a garden ornamental. *N. attenuata* grows in the region bounded by Idaho, Baja California, and Texas. *N. glauca* is native to South America and now grows in the southwestern United States, Hawaii, Mexico, and the West Indies.
SYNS: NICOTIANA ATTENUATA □ NICOTIANA GLAUCA □ NICOTIANA LONGIFLORA □ NICOTIANA RUSTICA □ NICOTIANA TABACUM □ PAKA (HAWAII) □ TABAC (FRENCH) □ TABACO (SPANISH)
SAFETY PROFILE: Confirmed human carcinogen by several routes. The whole plant contains poisonous nicotine and other chemically related alkaloids. The primary alkaloid in *N. tabacum* is nicotine. The primary alkaloid in *N. glauca* is anabasine. Ingestion of any part of the plant can cause salivation, nausea, vomiting, distorted perceptions, convulsions, vasomotor collapse, and respiratory failure. Most serious poisonings result from ingestion of the leaves in salad, use of infusions as enemas, or skin absorption of alkaloids during commercial harvesting. See also SMOKELESS TOBACCO, NICOTINE, and other tobacco entries.

TGI250 CAS: 32986-56-4 HR: 3
TOBRAMYCIN

mf: $C_{18}H_{37}N_5O_9$ mw: 467.60
PROP: Crystals. Water-soluble substance. Tobramycin was isolated from a fermentation of *Streptomyces tenebrarius* (TXAPA9 25,398,73).
SYNS: DISTOBRAM □ GERNEBCIN □ NEBRAMYCIN FACTOR 6 □ NF 6 □ OBRAMYCIN □ TOBRADISTIN □ TOBREX
TOXICITY DATA with REFERENCE:
ipr-rat LD50:1030 mg/kg JIMRBV 2,100,74
scu-rat LD50:969 mg/kg TXAPA9 22,332,72
ivn-rat LD50:104 mg/kg JIMRBV 2,100,74
ims-rat LD50:913 mg/kg IYKEDH 8,107,77
ipr-mus LD50:445 mg/kg JIMRBV 2,100,74
scu-mus LD50:367 mg/kg TXAPA9 25,398,73
ivn-mus LD50:72,500 µg/kg ANTBAL 29,361,84
ims-mus LD50:440 mg/kg YKYUA6 27,1467,76
scu-pig LD50:676 mg/kg TXAPA9 25,398,73
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intravenous and subcutaneous routes. Moderately toxic by intramuscular and intraperitoneal routes. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x. Used as an antibacterial and antibiotic drug. See also TOBRAMYCIN SULPHATE.

TGI500 CAS: 49842-07-1 HR: 3
TOBRAMYCIN SULFATE
mf: $C_{18}H_{37}N_5O_9 \bullet xH_2O_4S$ mw: 1154.16
SYNS: NEBCIN □ OBRACINE □ TOBRA
TOXICITY DATA with REFERENCE:
ivn-wmn LDLo:15 mg/kg/5D-I:CNS JAMAAP 247,1319,82
scu-rat LD50:1680 mg/kg ANTBAL 24,67,79
ivn-rat LD50:126 mg/kg ANTBAL 24,67,79
ipr-mus LD50:262 mg/kg ANTBAL 24,67,79
scu-mus LD50:560 mg/kg ANTBAL 24,67,79
ivn-mus LD50:77 mg/kg ANTBAL 24,67,79
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by subcutaneous route. Human systemic effects by intravenous route: wakefulness and hallucinations and distorted perceptions. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also TOBRAMYCIN and SULFATES.

TGI699 CAS: 41708-72-9 HR: 3
TOCAINIDE
mf: $C_{11}H_{16}N_2O$ mw: 192.29
SYNS: ALANYL-2,6-XYLIDIDE □ 2-AMINO-2',6'-PROPIONOXYLIDIDE □ TONOCARD
TOXICITY DATA with REFERENCE:
orl-hmn TDLo:5714 µg/kg:CNS,GIT DRFUD4 2,141,77
orl-man TDLo:2606 mg/kg/11W-I:BLD NEJMAG 314,583,86
orl-man LDLo:229 mg/kg:CNS,CVS BMJOAE 288,760,84
orl-mus LD50:529 mg/kg DRFUD4 2,141,77
orl-mus LD50:94 mg/kg JMCMAR 24,1059,81
SAFETY PROFILE: Human and experimental poison by ingestion. Human systemic effects by ingestion: mental disturbances, coma, cardiac damage, nausea or vomiting, and aplastic anemia. When heated to decomposition it emits toxic fumes of NO_x.

TGI725 HR: 3
TOCHERGAMINE
mf: $C_{16}H_{24}N_2O$ mw: 260.42
SYNS: ACETAMIDE, N,N-DIETHYL-N'-(1,2,3,4-TETRAHYDRO-1-NAPHTHYL)- □ N,N-DIETHYL-N'-(1,2,3,4-TETRAHYDRO-1-NAPHTHYL)ACETAMIDE □ N,N-DIETHYL-N'-2-(TETRAHYDRO-1,2,3,4-NAPHTHYL)-GLYCINAMIDE □ N,N-DIETHYL-N'-2-(TETRALYL)-GLYCINAMIDE
TOXICITY DATA with REFERENCE:
ivn-rbt LD50:40 mg/kg AIPTAK 96,327,54
SAFETY PROFILE: Poison by intravenous route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

TGJ000 CAS: 50465-39-9 HR: 1
TOCOFIBRATE
mf: $C_{39}H_{59}ClO_4$ mw: 627.43
PROP: Light-yellow oil. D: 1.036 @ 20°/4°.
SYNS: 2-(4-CHLOROPHENOXY)-2-METHYLPROPANOIC ACID, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-TRIMETHYL-TRIDECYL)-2H-1-BENZOPYRAN-6-YL-ESTER, (2r(4r,8r)) □ TOCOFEROL-2-(p-CHLOROPHENOXY)-2-METHYLPROPION-ATE □ TOCOFIBRATO (SPANISH)
TOXICITY DATA with REFERENCE:
orl-rat LD50:15 g/kg DRFUD4 4,679,79
ipr-rat LD50:15 g/kg DRFUD4 4,679,79
orl-mus LD50:15 g/kg DRFUD4 4,679,79
ipr-mus LD50:15 g/kg DRFUD4 4,679,79
SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl^-.

TGJ050 CAS: 58-95-7 HR: D
d-α-TOCOPHERYL ACETATE
mf: $C_{31}H_{52}O_3$ mw: 472.83
PROP: From vacuum steam distillation and acetylation of edible vegetable oil products. (FCC III) Colorless to yellow oil; odorless. Mp: 26.5−27.5°, bp: 205° @ 0.02 mm (bath). Insol in water, sol in alc; misc with acetone, chloroform, ether, vegetable oil.
SYNS: ALFACOL □ COMBINAL E □ CONTOPHERON □ ECOFROL □ ECON □ E-FEROL □ ENDO E DOMPE □ EPHYNAL ACETATE □ EPSILAN-M □ EREVIT □ E-TOPLEX □ EVIPHEROL □ FERTILVIT □ GEVEX □ JUVELA □ TOCO-PHEREX □ (+)-α-TOCOPHEROL ACETATE □ α-TOCOPHEROL ACETATE □ d-α-TOCOPHEROL ACETATE □ (+)-α-TOCO-PHERYL ACETATE □ α-TOCOPHERYL ACETATE □ d-α-TOCOPHERYL ACETATE □ (R,R,R)-α-TOCOPHERYL ACETATE □ (2R,4'R,8'R)-α-TOCOPHERYL ACETATE □ TOCOPHRIN □ TOFAXIN □ TOKOFEROL ACETATE □ VITAMIN E ACETATE
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

TGJ055 CAS: 7695-91-2 HR: D
dl-α-TOCOPHERYL ACETATE
mf: $C_{31}H_{52}O_3$ mw: 472.83
PROP: From vacuum steam distillation and acetylation of edible vegetable oil products. (FCC III) Colorless to yellow oil; odorless. Insol in water; sol in alc; misc with acetone, chloroform, ether, vegetable oil.
SYNS: 2H-1-BENZOPYRAN-6-OL, 3,4-DIHYDRO-2,5,7,8-TETRAMETHYL-2-(4,8,12-TRIMETHYLTRIDECYL)-, ACETATE □ 6-CHROMANOL, 2,5,7,8-TETRAMETHYL-2-(4,8,12-TRIMETHYL-

TRIDECYL)-, ACETATE □ SYNTOPHEROL ACETATE □ (+-)-α-TOCOPHEROL ACETATE □ d,l-α-TOCOPHEROL ACETATE

TOXICITY DATA with REFERENCE:
dnd-rat-ipr 2500 µg/kg CALEDQ 25,163,84

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

TGJ060 CAS: 4345-03-3 HR: D
dl-α-TOCOPHERYL ACID SUCCINATE
mf: $C_{33}H_{54}O_5$ mw: 530.79

PROP: From vacuum steam distillation and succinylation of edible vegetable oil products. (FCC III) Colorless to white crystalline powder or needles from pet ether; odorless and tasteless. Mp: 76−77°. Insol in water; very sol in chloroform, sol in acetone, alc, ether, vegetable oil.

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

TGJ150 CAS: 3778-76-5 HR: 3
TODRALAZINE HYDROCHLORIDE HYDRATE
mf: $C_{11}H_{12}N_4O_2$•ClH•H_2O mw: 286.75

PROP: Crystals. Mp: 212° (decomp).

SYNS: APIRACHOL □ APIRACOHL □ BINAZIN □ BINAZINE □ 621-BT HYDROCHLORIDE HYDRATE □ ECARAZINE □ ECARAZINE HYDROCHLORIDE □ TODRALAZINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
mmo-sat 500 µg/plate RCOCB8 49,415,85
mma-sat 1 mg/plate RCOCB8 49,415,85
orl-rat LD50:598 mg/kg YIKUAO 18,29,69
ipr-rat LD50:200 mg/kg YIKUAO 18,29,69
scu-rat LD50:466 mg/kg YIKUAO 18,29,69
ivn-rat LD50:240 mg/kg YIKUAO 18,29,69
orl-mus LD50:516 mg/kg OYYAA2 3,97,69
ipr-mus LD50:501 mg/kg YIKUAO 18,29,69
scu-mus LD50:319 mg/kg OYYAA2 3,97,69
ivn-mus LD50:300 mg/kg OYYAA2 3,97,69
orl-rbt LD50:399 mg/kg YIKUAO 18,29,69
ipr-rbt LD50:450 mg/kg YIKUAO 18,29,69
ivn-rbt LD50:417 mg/kg YIKUAO 18,29,69

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

TGJ250 CAS: 10488-36-5 HR: 3
TOFENACINE HYDROCHLORIDE
mf: $C_{17}H_{21}NO$•ClH mw: 291.85

PROP: Off-white crystals or powder. Mp: 143−147°. Very sol in water, methanol, ethanol, chloroform; sltly sol in acetone; almost insol in ethyl ether.

SYNS: BS 7331 □ N-DEMETHYLORPHENADRINE HYDROCHLORIDE □ ELAMOL □ N-METHYLAMINOETHYL-2-METHYLBENZHYDRYL ETHER HYDROCHLORIDE □ N-METHYL-2-((o-METHYL-α-PHENYLBENZYL)OXY)ETHYLAMINE HYDROCHLORIDE □ N-METHYL-2-((2-METHYLPHENYL)PHENYLMETHOXY)ETHANAMINE HYDROCHLORIDE □ N-METHYL-2-(α-(2-TOLYLBENZYL)-OXY)ETHYLAMINE HYDROCHLORIDE □ (2-(PHENYL-o-TOLYLMETHOXY)ETHYL)METHYLAMINE HYDROCHLORIDE □ PHENYL-(o-TOLYLMETHYL) METHYLAMINOETHYL ETHER HYDROCHLORIDE □ TOFENACIN HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
orl-rat LD50:400 mg/kg 27ZQAG -,375,72
ipr-rat LD50:72 mg/kg AIPTAK 177,28,69
ivn-rat LD50:15 mg/kg 27ZQAG -,375,72
orl-mus LD50:182 mg/kg AIPTAK 177,28,69
ipr-mus LD50:55 mg/kg AIPTAK 177,28,69
scu-mus LD50:82 mg/kg AIPTAK 177,28,69
ivn-mus LD50:32 mg/kg 27ZQAG -,375,72
orl-dog LD50:90 mg/kg 27ZQAG -,375,72
scu-gpg LD50:92 mg/kg AIPTAK 177,28,69

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

TGJ350 CAS: 8064-38-8 HR: 2
TOGAL
mf: $C_{20}H_{24}N_2O_2$•$C_9H_8O_4$•$C_6H_5O_7$•2ClH•3Li mw: 786.47

SYN: CINCHONAN-9-OL, 6'-METHOXY-, DIHYDROCHLORIDE, (8-α-9R)-, mixt. with 2-(ACETYLOXY) BENZOIC ACID and 2-HYDROXY-1,2,3-PROPANETRICARBOXYLIC ACID, TRILITHIUM SALT

TOXICITY DATA with REFERENCE:
orl-mus LDLo:500 mg/kg ARZNAD 24,1305,74

SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x, Li, and HCl^-.

TGJ475 CAS: 4024-34-4 HR: 3
TOLADRYL
mf: $C_{18}H_{23}NO$•ClH mw: 305.88

SYNS: N,N-DIMETHYL-2-(α-(p-TOLYL)BENZYLOXY)ETHYL-AMINE HYDROCHLORIDE □ NEO-BENODINE

TOXICITY DATA with REFERENCE:
orl-mus LD50:350 mg/kg ARZNAD 14,964,64
ipr-mus LD50:150 mg/kg JPETAB 112,318,54
ivn-mus LD50:45 mg/kg ARZNAD 14,964,64

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

TGJ500 CAS: 1156-19-0 HR: 2
TOLAZAMIDE
mf: $C_{14}H_{21}N_3O_3S$ mw: 311.44

PROP: Crystals. Mp: 170−173°.

SYNS: N-(((HEXAHYDRO-1H-AZEPIN-1-YL)-AMINO)CARBON-YL)-4-METHYLBENZENESULFONAMIDE □ 1-(HEXAHYDRO-1-AZEPINYL)-3-p-TOLYLSULFONYLUREA □ 1-(HEXAHYDRO-1H-AZEPIN-1-YL)-3-(p-TOLYLSULFONYL)UREA □ NCI-C03327 □ NSC-70762 □ TOLINASE □ N-(p-TOLUENESULFONYL)-N'-HEXAMETHYLENIMINOUREA □ 4-(p-TOLYLSULFONYL)-1,1-HEXAMETHYLENESEMICARBAZIDE □ U-17835

TOXICITY DATA with REFERENCE:
orl-mus LD50:1000 mg/kg JMCMAR 24,1521,81
ipr-mus LD50:1000 mg/kg JMCMAR 24,1521,81

CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-51,78.

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

TGJ625 CAS: 33697-73-3 HR: 3
TOLCAINE HYCROCHLORIDE
mf: $C_{18}H_{29}NO_2$•ClH mw: 327.94
SYNS: (−)-LOTUCAINE HYDROCHLORIDE □ MY 33-7 □ (−)-2,2,5,5-TETRAMETHYL-α-((o-TOLYLOXY)METHYL)-1-PYRROLIDINEETHANOL HYDROCHLORIDE □ (−)-1-(o-TOLOSSI-3-(2,2,5,5-TETRAMETIL-PIRROLIDIN-1-IL))-PROPAN-2-OLO CLORIDRATO (ITALIAN)
TOXICITY DATA with REFERENCE:
orl-rat LD50:418 mg/kg BCFAAI 110,330,71
scu-rat LD50:795 mg/kg BCFAAI 110,330,71
ivn-rat LD50:32 mg/kg BCFAAI 110,330,71
orl-mus LD50:355 mg/kg BCFAAI 110,330,71
scu-mus LD50:729 mg/kg BCFAAI 110,330,71
ivn-mus LD50:22 mg/kg BCFAAI 110,330,71
ivn-cat LDLo:14 mg/kg ARZNAD 23,1596,73
SAFETY PROFILE: Poison by ingestion and intravenous routes. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x and HCl.

TGJ750 CAS: 119-93-7 HR: 3
o-TOLIDINE
mf: $C_{14}H_{16}N_2$ mw: 212.32
PROP: White to reddish crystals or leaflets. Mp: 129−131°. Very sltly sol in water; sol in alc, ether, acetic acid.
SYNS: BIANISIDINE □ 4,4'-BI-o-TOLUIDINE □ C.I. 37230 □ C.I. AZOIC DIAZO COMPONENT 113 □ (4,4'-DIAMINE)-3,3'-DIMETHYL(1,1'-BIPHENYL) □ 4,4'-DIAMINO-3,3'-DIMETHYL-BIPHENYL □ 4,4'-DIAMINO-3,3'-DIMETHYLDIPHENYL □ DIAMINODITOLYL □ 3,3'-DIMETHYLBENZIDIN □ 3,3'-DIMETHYLBENZIDINE □ 3,3'-DIMETHYL-4,4'-BIPHENYLDI-AMINE □ 3,3'-DIMETHYLBIPHENYL-4,4'-DIAMINE □ 3,3'-DIMETHYL-(1,1'-BIPHENYL)-4,4'-DIAMINE □ 3,3'-DIMETHYL-4,4'-DIPHENYLDIAMINE □ 3,3'-DIMETHYLDIPHENYL-4,4'-DIAMINE □ 4,4'-DI-o-TOLUIDINE □ FAST DARK BLUE BASE R □ RCRA WASTE NUMBER U095 □ o-TOLIDIN □ 2-TOLIDIN (GERMAN) □ 2-TOLIDINA (ITALIAN) □ TOLIDINE □ o,o'-TOLIDINE □ 2-TOLIDINE □ 3,3'-TOLIDINE
TOXICITY DATA with REFERENCE:
dns-hmn:hla 1 μmol/L CNREA8 38,2621,78
dns-rat:lvr 1 μmol/L MUREAV 136,255,84
orl-rat TDLo:4500 mg/kg/27D-I:CAR CNREA8 28,924,68
ipr-rat LDLo:125 mg/kg CBCCT* 6,64,54
ipr-mus LDLo:125 mg/kg CBCCT* 6,64,54
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 1,87,72. EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.
ACGIH TLV: Animal Carcinogen
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
NIOSH REL: (o-Toluidine) CL 0.02 mg/m^3/60M; avoid skin contact
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Poison by intraperitoneal route. Moderately toxic by ingestion. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-71 or NIOSH: Dyes, 5013.

TGJ850 CAS: 26171-23-3 HR: 3
TOLMETINE
mf: $C_{15}H_{15}NO_3$ mw: 257.31
PROP: Crystals from acetonitrile. Mp: 155−157° (decomp).
SYNS: ACIDO-1-METIL-5-(p-TOLNIL)-PIRROL-2-ACETICO (SPANISH) □ MCN 2559 □ 1-METHYL-5-(4-METHYLBENZOYL)-PYRROLE-2-ACETIC ACID □ 1-METHYL-5-p-TOLUOYL-PYRROLE-2-ACETIC ACID □ PYROGENS □ TOLMETIN
TOXICITY DATA with REFERENCE:
orl-rat LD50:293 mg/kg ARZNAD 25,1527,76
rec-rat LD50:744 mg/kg AFTOD7 5,257,79
orl-mus LD50:914 mg/kg FRPSAX 38,90,83
ipr-mus LD50:600 mg/kg FRPSAX 38,90,83
SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal and rectal routes. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x. See also SODIUM TOLMETIN.

TGJ875 CAS: 50454-68-7 HR: 2
TOLNIDAMIDE
mf: $C_{16}H_{13}ClN_2O_2$ mw: 300.76
PROP: A solid. Mp: 220° (decomp).
SYNS: 1-(4-CHLORO-2-METHYLBENZYL)-1H-INDAZOLE-3-CARBOXYLIC ACID □ 1-((2-METHYL-4-CHLOROPHENYL)-METHYL)-1H-INDAZOLE-3-CARBOXYLIC ACID □ 1-((2-METHYL-4-CHLOROPHENYL)METHYL)-INDAZOLE-3-CARBOXYLIC ACID
TOXICITY DATA with REFERENCE:
orl-rat LD50:4 g/kg CHTHBK 27,91,81
ipr-rat LD50:1120 mg/kg CHTHBK 27,91,81
orl-mus LD50:1250 mg/kg CHTHBK 27,91,81
ipr-mus LD50:575 mg/kg CHTHBK 27,91,81
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

TGJ885 CAS: 57524-15-9 HR: 3
TOLONIDINE NITRATE
mf: $C_{10}H_{12}ClN_3$•HNO_3 mw: 272.72
SYNS: CERM 10,137 □ 2-(2-CHLORO-p-TOLUIDINO)-2-IMIDAZOLINE NITRATE □ 4,5-DIHYDRO-N-(2-CHLORO-4-METHYLPHENYL)-1H-IMIDAZOL-2-AMINE MONONITRATE □ EUCTAN
TOXICITY DATA with REFERENCE:
orl-rat LD50:420 mg/kg ARZNAD 25,1926,75
ivn-rat LD50:42 mg/kg ARZNAD 25,1926,75
orl-mus LD50:160 mg/kg ARZNAD 25,1926,75
ivn-mus LD50:18,500 μg/kg ARZNAD 25,1926,75
SAFETY PROFILE: Poison by ingestion and intravenous routes. Used as an antihypertensive agent. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also NITRATES.

TGK200 CAS: 728-88-1 HR: 3
TOLPERISONE
mf: $C_{16}H_{23}NO$ mw: 245.40
PROP: Crystals from methyl ethyl ketone. Mp: 176−177°.
SYNS: 2,4'-DIMETHYL-3-PIPERIDINOPROPIOPHENONE □ 2-METHYL-3-PIPERIDINO-1-p-TOLYLPROPAN-1-ONE □ MYDETON □ MYDOCALM □ 1-PIPERIDINO-2-METHYL-3-(p-TOLYL)-3-PROPANONE □ PMP
TOXICITY DATA with REFERENCE:
orl-rat LD50:1450 mg/kg OYYAA2 5,421,71
ipr-rat LD50:170 mg/kg OYYAA2 5,421,71
scu-rat LD50:645 mg/kg OYYAA2 5,421,71
orl-mus LD50:1350 mg/kg OYYAA2 5,421,71
scu-mus LD50:620 mg/kg ARZNAD 11,257,61
ivn-mus LD50:34 mg/kg OYYAA2 5,421,71
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.

TGK225 CAS: 6775-25-3 HR: 3
TOLPRONINE HYDROCHLORIDE
mf: $C_{15}H_{21}NO_2$•ClH mw: 283.83
PROP: Bitter taste, crystals. Mp: Decomp 136−137.5°. Sol in water.
SYNS: 3,6-DIHYDRO-α-((2-METHYLPHENOXY)METHYL)-1(2H)-PYRIDINEETHANOL HYDROCHLORIDE □ 1-Δ-3-PIPERIDINO-3-o-TOLOXYPROPAN-2-OL HYDROCHLORIDE □ PROPONESIN HYDROCHLORIDE □ 1-(1,2,3,6-TETRAHYDROPYRIDINO)-3-o-TOLYLOXYPROPAN-2-OL HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:340 mg/kg JPPMAB 10,60,58
scu-rat LD50:1030 mg/kg JPPMAB 10,60,58
orl-mus LD50:330 mg/kg JPPMAB 10,60,58
ipr-mus LD50:146 mg/kg MEIEDD 10,1363,83
scu-mus LD50:390 mg/kg JPPMAB 10,60,58 JPPMAB 10,60,58
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

TGK250 CAS: 1334-78-7 HR: 2
TOLUALDEHYDE
mf: C_8H_8O mw: 120.16
PROP: Mixture of o-, m-, and p-methylbenzaldehyde (FCTXSV 14,659,76).
SYNS: TOLUENECARBOXALDEHYDE □ TOLYL ALDEHYDE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 14,659,76
orl-rat LD50:2250 mg/kg FCTXAV 14,659,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

TGK500 CAS: 73987-51-6 HR: 2
TOLUALDEHYDE GLYCERYL ACETAL
mf: $C_{11}H_{12}O_2$ mw: 176.23
SYNS: 2-(METHYLPHENYL)-1,3-DIOXAN-5-OL (mixed isomers) □ TOLYLALDEHYDE GLYCERYL ACETAL
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 14,887,76
orl-rat LD50:3400 mg/kg FCTXAV 14,887,76
SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

TGK750 CAS: 108-88-3 HR: 3
TOLUENE
DOT: UN 1294
mf: C_7H_8 mw: 92.15
PROP: Colorless liquid; benzol-like odor. Mp: −95 to −94.5°, fp: −95°, bp: 110.4°, flash p: 40°F (CC), ULC: 75−80, lel: 1.27%, uel: 7%, d: 0.866 @ 20°/4°, autoign temp: 996°F, vap press: 36.7 mm @ 30°, vap d: 3.14. Insol in water; sol in acetone; misc in abs alc, ether, chloroform. IDLH 500 ppm.
SYNS: ANTISAL 1a □ BENZENE, METHYL- □ METHACIDE □ METHANE, PHENYL- □ METHYLBENZENE □ METHYL-BENZOL □ NCI-C07272 □ PHENYLMETHANE □ RCRA WASTE NUMBER U220 □ TOLUEEN (DUTCH) □ TOLUEN (CZECH) □ TOLUOL (DOT) □ TOLUOLO (ITALIAN) □ TOLU-SOL
TOXICITY DATA with REFERENCE:
eye-hmn 300 ppm JIHTAB 25,282,43
skn-rbt 435 mg MLD UCDS** 7/23/70
skn-rbt 500 MOD FCTOD7 20,563,82
eye-rbt 870 µg MLD UCDS** 7/23/70
eye-rbt 2 mg/24H SEV 28ZPAK -,23,72
eye-rbt 100 mg/30S rns MLD FCTOD7 20,573,82
oms-grh-ihl 562 mg/L MUREAV 113,467,83
cyt-rat-scu 12 g/kg/12D-I GTPZAB 17(3),24,73
orl-hmn LDLo:50 mg/kg YAKUD5 22,883,80
ihl-hmn TCLo:200 ppm:BRN,CNS,BLD JAMAAP 123,1106,43
ihl-man TCLo:100 ppm:CNS WEHRBJ 9,131,72
orl-rat LD50:5000 mg/kg AMIHAB 19,403,59
ihl-rat LCLo:4000 ppm/4H AIHAAP 30,470,69
ipr-rat LD50:1332 mg/kg ENVRAL 40,411,86
ivn-rat LD50:1960 mg/kg MELAAD 54,486,63
unr-rat LD50:6900 mg/kg GISAAA 45(12),64,80
ihl-mus LC50:400 ppm/24H NRTXDN 2,567,81
ipr-mus LD50:59 mg/kg NRTXDN 2,567,81
scu-mus LD50:2250 mg/kg NRTXDN 8,237,87
unr-mus LD50:2 g/kg GISAAA 45(12),64,80
ipr-mus LD50:640 mg/kg ANYAA9 243,104,75
ihl-rbt LCLo:55,000 ppm/40M JIDHAN 26,69,44
skn-rbt LD50:12,124 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 100 ppm; STEL 150 ppm
ACGIH TLV: TWA 50 ppm (skin); Not Classifiable as a Human Carcinogen; BEI: 1.6 g/g creatinine of hippuric acid in urine at end of shift; 0.05 mg/L toluene in venous blood prior to last shift of workweek; BEI: BEI: 0.05 mg/L toluene in venous blood prior to last shift of work ek; 0.5 mg/L o-cresol in urine at end of shift
DFG MAK: 50 ppm (190 mg/m^3); BAT: 340 µg/dL in blood at end of shift

NIOSH REL: (Toluene) TWA 100 ppm; CL 200 ppm/10M
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by intravenous and subcutaneous routes. Mildly toxic by inhalation. An experimental teratogen. Human systemic effects by inhalation: CNS recording changes, hallucinations or distorted perceptions, motor activity changes, antipsychotic, psychophysiological test changes, and bone marrow changes. Experimental reproductive effects. Mutation data reported. A human eye irritant. An experimental skin and severe eye irritant.

Toluene is derived from coal tar, and commercial grades usually contain small amounts of benzene as an impurity. Inhalation of 200 ppm of toluene for 8 hours may cause impairment of coordination and reaction time; with higher concentrations (up to 800 ppm) these effects are increased and are observed in a shorter time. In the few cases of acute toluene poisoning reported, the effect has been that of a narcotic, the workman passing through a stage of intoxication into one of coma. Recovery following removal from exposure has been the rule. An occasional report of chronic poisoning describes an anemia and leukopenia, with biopsy showing a bone marrow hypoplasia. These effects, however, are less common in people working with toluene, and they are not as severe. At 200−500 ppm, headache, nausea, eye irritation, loss of appetite, a bad taste, lassitude, impairment of coordination and reaction time are reported, but are not usually accompanied by any laboratory or physical findings of significance. With higher concentrations, the above complaints are increased and in addition, anemia, leukopenia, and enlarged liver may be found in rare cases. A common air contaminant, emitted from modern building materials (CENEAR 69,22,91). Used in production of drugs of abuse.

Flammable liquid. A very dangerous fire hazard when exposed to heat, flame, or oxidizers. Explosive in the form of vapor when exposed to heat or flame. Explosive reaction with 1,3-dichloro-5,5-dimethyl-2,4-imidazolididione, dinitrogen tetraoxide, concentrated nitric acid, H_2SO_4 + HNO_3, N_2O_4, $AgClO_4$, BrF_3, UF_6, sulfur dichloride. Forms an explosive mixture with tetranitromethane. Can react vigorously with oxidizing materials. To fight fire, use foam, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Hydrocarbons, Aromatic, 1501; Hydrocarbons, Bp: 36−126°C, 1500.

TGL500 CAS: 25376-45-8 HR: 3
TOLUENEDIAMINE

mf: $C_7H_{10}N_2$ mw: 122.19
SYNS: BENZENEDIAMINE, ar-METHYL- ◻ DIAMINOTOLUENE ◻ METHYLPHENYLENEDIAMINE ◻ RCRA WASTE NUMBER U221
TOXICITY DATA with REFERENCE:
orl-rat LD50:270 mg/kg ZHYGAM 29,395,83
skn-rat LD50:1200 mg/kg ZHYGAM 29,395,83
ipr-rat LD50:230 mg/kg ZHYGAM 29,395,83
ivn-rat LD50:350 mg/kg ZHYGAM 29,395,83
orl-mus LD50:350 mg/kg ZHYGAM 29,395,83
ipr-mus LD50:240 mg/kg ZHYGAM 29,395,83
ivn-mus LD50:90 mg/kg ZHYGAM 29,395,83
CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. See also other toluene diamine entries and AROMATIC AMINES.

TGL750 CAS: 95-80-7 HR: 3
TOLUENE-2,4-DIAMINE

DOT: UN 1709
mf: $C_7H_{10}N_2$ mw: 122.19
PROP: Needles from water or prisms from alc. Mp: 99°, bp: 292°, bp: 148−150° @ 8 mm, vap press: 1 mm @ 106.5°.
SYNS: 3-AMINO-p-TOLUIDINE ◻ 5-AMINO-o-TOLUIDINE ◻ AZOGEN DEVELOPER H ◻ BENZOFUR MT ◻ C.I. 76035 ◻ C.I. OXIDATION BASE ◻ C.I. OXIDATION BASE 20 ◻ C.I. OXIDATION BASE 35 ◻ C.I. OXIDATION BASE 200 ◻ DEVELOPER 14 ◻ DEVELOPER B ◻ DEVELOPER DB ◻ DEVELOPER DBJ ◻ DEVELOPER H ◻ DEVELOPER MC ◻ DEVELOPER MT ◻ DEVELOPER MT-CF ◻ DEVELOPER MTD ◻ DEVELOPER T ◻ 1,3-DIAMINO-4-METHYLBENZENE ◻ 2,4-DIAMINO-1-METHYLBENZENE ◻ 2,4-DIAMINOTOLUEN (CZECH) ◻ DIAMINOTOLUENE ◻ 2,4-DIAMINOTOLUENE ◻ 2,4-DIAMINO-1-TOLUENE ◻ 2,4-DIAMINOTOLUOL ◻ EUCANINE GB ◻ FOURAMINE ◻ FOURAMINE J ◻ FOURRINE 94 ◻ FOURRINE M ◻ META TOLUYLENE DIAMINE ◻ 4-METHYL-1,3-BENZENEDIAMINE ◻ 4-METHYL-m-PHENYL-ENEDIAMINE ◻ MTD ◻ NAKO TMT ◻ NCI-C02302 ◻ PELAGOL GREY J ◻ PELAGOL J ◻ PONTAMINE DEVELOPER TN ◻ RCRA WASTE NUMBER U221 ◻ RENAL MD ◻ TDA ◻ TERTRAL G ◻ 2,4-TOLAMINE ◻ m-TOLUENEDIAMINE ◻ 2,4-TOLUENEDIAMINE ◻ 2,4-TOLUENEDIAMINE (DOT) ◻ m-TOLUYLENDIAMIN (CZECH) ◻ m-TOLUYLENEDIAMINE ◻ 2,4-TOLUYLENEDIAMINE ◻ 2,4-TOLUYLENEDIAMINE (DOT) ◻ m-TOLYENEDIAMINE ◻ m-TOLYLENEDIAMINE ◻ 2,4-TOLYLENEDIAMINE ◻ 4-m-TOLYLENEDIAMINE ◻ ZOBA GKE ◻ ZOGEN DEVELOPER H
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK -,69,72
eye-rbt 100 mg/24H MOD 28ZPAK -,69,72
mma-sat 50 µg/plate ENMUDM 7,535,85
dnd-hmn:fbr 100 µmol/L MUREAV 127,107,84
ipr-rat LD50:325 mg/kg JEPTDQ 3(1-2),149,79
scu-rat LDLo:50 mg/kg ZEPTAT 17,59,15
ipr-mus LD50:480 mg/kg JEPTDQ 3(1-2),149,80
scu-dog LDLo:200 mg/kg XPHBAO 271,56,41
scu-rbt LDLo:400 mg/kg ZEPTAT 17,59,15
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 16,83,78. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-162,79. Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Poison by intraperitoneal and subcutaneous routes. Experimental reproductive effects. Human mutation data reported. A skin and eye irritant. This material has a marked toxic action upon the liver and can cause fatty degeneration of that organ. When heated to decomposition it emits toxic fumes of NO_x. See also other toluenediamine entries and AROMATIC AMINES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-65 or NIOSH: 2,4-Toluenediamine 5516.

TGM000 CAS: 95-70-5 HR: 3
TOLUENE-2,5-DIAMINE
mf: $C_7H_{10}N_2$ mw: 122.19

PROP: Colorless, crystalline tablets or plates from C_6H_6. Mp: 64°, bp: 274°.

SYNS: 4-AMINO-2-METHYLANILINE ◻ C.I. 76042 ◻ 2,5-DIAMINOTOLUENE ◻ 2-METHYL-1,4-BENZENEDIAMINE ◻ 2-METHYL-p-PHENYLENEDIAMINE ◻ p-TOLUENEDIAMINE ◻ p-TOLUYLENDIAMINE ◻ TOLUYLENE-2,5-DIAMINE ◻ p,m-TOLYLENEDIAMINE

TOXICITY DATA with REFERENCE:
skn-rbt 12,500 µg/24H MLD FCTXAV 15,607,77
mma-sat 100 µg/plate PNASA6 72,2423,75
dns-rat:lvr 10 µmol/L MUREAV 136,255,84
dni-mus-ipr 40 mg/kg MRLEDH 91,75,81
dns-ham:lvr 10 µmol/L MUREAV 136,255,84
orl-rat LD50:102 mg/kg FCTXAV 15,607,77
scu-rat LDLo:50 mg/kg ZEPTAT 17,59,15
scu-rbt LDLo:100 mg/kg ZEPTAT 17,59,15
orl-mam LDLo:3600 mg/kg JIDHAN 13,87,31

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 16,97,78. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. A skin irritant. Mutation data reported. Questionable carcinogen. Has a toxic action upon the liver and can cause fatty degeneration of that organ. Its total effect upon the body seems to take place three different ways. It is toxic to the central nervous system, producing jaundice by action on the liver and spleen, and anemia by destruction of the red blood cells. This action is quite similar to that of aniline, although by no means identical with it. Its high boiling point and the fact that the material is solid at room temperature make it somewhat less hazardous than aniline, particularly at ordinary working temperatures. The literature contains a reference to a permanent injury to an eye due to the use of this material as an eyelash dye. It is considered to be an irritating dye material. When heated to decomposition it emits toxic fumes of NO_x. See also other toluene diamine entries and AROMATIC AMINES.

TGM100 CAS: 823-40-5 HR: 3
TOLUENE-2,6-DIAMINE
mf: $C_7H_{10}N_2$ mw: 122.19

PROP: Prisms from H_2O. Mp: 105°.

SYNS: 2,6-DIAMINOTOLUENE ◻ 2-METHYL-1,2-BENZENE-DIAMINE ◻ 2,6-TOLUYLENEDIAMINE ◻ 2,6-TOLYLENE-DIAMINE

TOXICITY DATA with REFERENCE:
mma-sat 1500 nmol/plate TXCYAC 18,219,80
dns-hmn:lvr 1 mmol/L PAACA3 24,69,83
dni-mus-ipr 30 mg/kg MRLEDH 91,75,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Probably a poison. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also other toluene diamine entries and AROMATIC AMINES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-65 or NIOSH: 2,6-Toluenediamine 5516.

TGM250 CAS: 496-72-0 HR: 2
TOLUENE-3,4-DIAMINE
mf: $C_7H_{10}N_2$ mw: 122.19

PROP: Plates from pet ether. Mp: 89−90°, bp: 265°. Sol in H_2O and acids.

SYNS: 3,4-DIAMINOTOLUENE ◻ 4-METHYL-1,2-BENZENEDIAMINE ◻ 3,4-TOLUYLENEDIAMINE ◻ 3,4-TOLYLENEDIAMINE

TOXICITY DATA with REFERENCE:
mnt-mus-ipr 488 mg/kg ARTODN 43,249,80
dni-mus-ipr 200 mg/kg MRLEDH 91,75,81
scu-rat LDLo:500 mg/kg ZEPTAT 17,59,15
scu-rbt LDLo:1800 mg/kg ZEPTAT 17,59,15

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by subcutaneous route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also other toluene diamine entries and AROMATIC AMINES.

TGM400 CAS: 6369-59-1 HR: 2
p-TOLUENEDIAMINE SULFATE
mf: $C_7H_{10}N_2 \bullet 7H_2O_4S$ mw: 808.75

SYNS: C.I. 76043 ◻ C.I. OXIDATION BASE 4 ◻ FOURAMINE STD ◻ 2-METHYL-1,4-BENZENEDIAMINE ◻ NCI-C01832 ◻ 2,5-TDS ◻ 2,5-TOULENEDIAMINE SULFATE

TOXICITY DATA with REFERENCE:
mma-sat 33,300 ng/plate ENMUDM 7(Suppl 5),1,85

CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 16,97,78. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also AROMATIC AMINES and SULFATES.

TGM425 CAS: 54514-12-4 HR: 2
2-TOLUENEDIAZONIUM BROMIDE
mf: $C_7H_7BrN_2$ mw: 199.05
$(CH_3)C_6H_4N_2^+Br^-$

SAFETY PROFILE: Reaction with copper results in violent nitrogen evolution. When heated to decomposition it emits toxic fumes of Br^- and NO_x. See also BROMIDES and other toluenediazonium compounds.

TGM450 CAS: 459-44-9 HR: D
p-TOLUENEDIAZONIUM FLUOROBORATE
mf: $C_7H_7N_2 \bullet BF_4$ mw: 205.97
SYNS: BENZENEDIAZONIUM, 4-METHYL-, TETRAFLUOROBORATE (1⁻) (9CI) □ 4-METHYLBENZENEDIAZONIUM TETRAFLUOROBORATE (1⁻) □ p-METHYLPHENYLDIAZONIUM FLUOROBORATE □ p-TOLUENEDIAZONIUM, TETRAFLUOROBORATE (1⁻) □ p-TOLUENEDIAZONIUM TETRAFLUOROBORATE (7CI)
TOXICITY DATA with REFERENCE:
mmo-sat 20 µg/plate FCTOD7 25,669,87
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, boron, and Fl^-.

TGM500 CAS: 32066-79-8 HR: 2
p-TOLUENEDIAZONIUM HYDROGEN SULFATE
mf: $C_7H_7N_2 \bullet HO_4S$ mw: 216.23
SYNS: BENZENEDIAZONIUM, 4-METHYL-, SULFATE (1:1) (9CI) □ 4-METHYLBENZENEDIAZONIUM SULFATE □ p-METHYLBENZENEDIAZONIUM SULPHATE □ p-TOLUENEDIAZONIUM, SULFATE (1:1)
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TGM525 HR: 3
2-TOLUENEDIAZONIUM PERCHLORATE
mf: $C_7H_7ClN_2O_4$ mw: 218.60
$(CH_3)C_6H_4N_2^+ClO_4^-$
SYN: o-TOLUENEDIAZONIUM PERCHLORATE
SAFETY PROFILE: An explosive. It is sensitive even when wet. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also PERCHLORATES and other toluenediazonium compounds.

TGM550 CAS: 17333-74-3 HR: 2
2-TOLUENEDIAZONIUM SALTS
mf: $C_7H_7N_2^+Z^-$
SAFETY PROFILE: Reaction with ammonium sulfide or hydrogen sulfide forms explosive products. When heated to decomposition they emit toxic fumes of NO_x. See also other toluenediazonium compounds.

TGM575 CAS: 14604-29-6 HR: 2
3-TOLUENEDIAZONIUM SALTS
mf: $C_7H_7N_2^+Z^-$
SAFETY PROFILE: Reaction with ammonium sulfide or hydrogen sulfide forms explosive products. Potentially explosive reaction with potassium o-ethyl dithiocarbonate. Vigorous reaction with potassium iodide. When heated to decomposition they emit toxic fumes of NO_x. See also other toluenediazonium compounds.

TGM580 CAS: 14597-45-6 HR: 3
4-TOLUENEDIAZONIUM SALTS
mf: $C_7H_7N_2^+Z^-$
SAFETY PROFILE: Reaction with ammonium sulfide or hydrogen sulfide forms explosive products. When heated to decomposition they emit toxic fumes of NO_x. See also other toluenediazonium compounds.

TGM590 CAS: 68596-94-1 HR: 3
4-TOLUENEDIAZONIUM TRIIODIDE
mf: $C_7H_7I_3N_2$ mw: 499.86
$CH_3C_6H_4N_2^+I_3^-$
SAFETY PROFILE: Unstable, probably explosive. When heated to decomposition it emits toxic fumes of NO_x and I^-. See also other toluenediazonium compounds and IODIDES.

TGM740 CAS: 26471-62-5 HR: 3
TOLUENE-1,3-DIISOCYANATE
DOT: UN 2078
mf: $C_9H_6N_2O_2$ mw: 174.17
SYNS: BENZENE-, 1,3-DIISOCYANATOMETHYL- □ DESMODUR T100 □ DIISOCYANATOMETHYLBENZENE □ DIISOCYANATOTOLUENE □ HYLENE-T □ ISOCYANIC ACID, METHYLPHENYLENE ESTER □ METHYL-m-PHENYLENE DIISOCYANATE □ METHYLPHENYLENE ISOCYANATE □ MONDUR-TD □ MONDUR-TD-80 □ NACCONATE-100 □ NIAX ISOCYANATE TDI □ RCRA WASTE NUMBER U223 □ RUBINATE TDI □ RUBINATE TDI 80/20 □ T 100 □ TDI □ TDI-80 □ TDI 80-20 □ TOLUENE DIISOCYANATE □ TOLYLENE DIISOCYANATE □ TOLYLENE ISOCYANATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV UCDS** 7/11/67
mma-sat 100 µg/plate ENMUDM 9(Suppl 9),1,87
cyt-hmn:lyms 92 mg/L TOLED5 36,37,87
orl-rat LD50:4130 mg/kg AIHAAP 43,89,82
orl-mus LD50:1950 mg/kg TAKHAA 39,202,80
ihl-mus LC50:9700 ppb/4H AIHAAP 23,447,62
ihl-rbt LC50:11 ppm/4H AIHAAP 23,447,62
ihl-gpg LC50:12,700 ppb/4H AIHAAP 23,447,62
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87, Animal Sufficient Evidence IMEMDT 39,287,86; Human Inadequate Evidence IMEMDT 39,287,86. NTP Carcinogenesis Studies (gavage); Clear Evidence: mouse, rat NTPTR* NTP-TR-251,86. Reported in EPA TSCA Inventory.
NIOSH REL: (TDI) 10H TWA 0.005 ppm; CL 0.02 ppm/10M
DOT CLASSIFICATION: 6.1; Label: Poison; DOT Class: 6.1; Label: Poison, Flammable Liquid; DOT Class: 3; Label: Flammable Liquid, Poison
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and neoplastigenic data. Poison by inhalation. Moderately toxic by ingestion. Severe skin irritant. Human mutation data reported. Capable of producing severe dermatitis and bronchial spasm. A common air contaminant. A flammable liquid when exposed to heat or flame. Explosive in the form of vapor when exposed to heat or flame. To fight fire, use dry chemical, CO_2. Potentially violent polymerization reaction

with bases or acyl chlorides. Reaction with water releases carbon dioxide. Storage in polyethylene containers is hazardous due to absorption of water through the plastic. When heated to decomposition it emits highly toxic fumes of NO_x. See also ISOCYANATES.

TGM750 CAS: 584-84-9 HR: 3
TOLUENE-2,4-DIISOCYANATE
DOT: UN 2206/UN 2207/UN 2478/UN 3080
mf: $C_9H_6N_2O_2$ mw: 174.17
PROP: Clear, faintly yellow liquid; sharp, pungent odor. Mp: 19.5−21.5°, d: (liquid) 1.2244 @ 20°/4°, bp: 124−126° @ 18 mm, flash p: 270°F (OC), vap d: 6.0, lel: 0.9%, uel: 9.5%. Misc with alc (decomp), ether, acetone, carbon tetrachloride, benzene, chlorobenzene, kerosene, olive oil. IDLH 2.5 ppm.
SYNS: CRESORCINOL DIISOCYANATE ◻ DESMODUR T80 ◻ DI-ISOCYANATE de TOLUYLENE ◻ DI-ISO-CYANATOLUENE ◻ 2,4-DIISOCYANATO-1-METHYLBENZENE (9CI) ◻ 2,4-DIISOCYANATOTOLUENE ◻ DIISOCYANAT-TOLUOL ◻ HYLENE T ◻ HYLENE TCPA ◻ HYLENE TLC ◻ HYLENE TM ◻ HYLENE TM-65 ◻ HYLENE TRF ◻ ISOCYANIC ACID, METHYLPHENYLENE ESTER ◻ ISOCYANIC ACID, 4-METHYL-m-PHENYLENE ESTER ◻ 4-METHYL-PHENYLENE DIISOCYANATE ◻ 4-METHYL-PHENYLENE ISOCYANATE ◻ MONDUR TD ◻ MONDUR TD-80 ◻ MONDUR TDS ◻ NACCONATE 100 ◻ NCI-C50533 ◻ NIAX TDI ◻ NIAX TDI-P ◻ RCRA WASTE NUMBER U223 ◻ RUBINATE TDI 80/20 ◻ TDI (OSHA) ◻ 2,4-TDI ◻ TDI-80 ◻ TOLUEEN-DIISOCYANAAT ◻ TOLUEN-DISOCIANATO ◻ TOLUENE DIISOCYANATE ◻ 2,4-TOLUENEDIISOCYANATE ◻ TOLUILENODWUIZOCYJANIAN ◻ TULUYLENDIISOCYANAT ◻ TOLUYLENE-2,4-DIISOCYAN-ATE ◻ m-TOLYLENE DIISOCYANATE ◻ TOLYLENE-2,4-DIISOCYANATE ◻ 2,4-TOLYLENEDIISOCYANATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV UCDS** 3/8/73
skn-rbt 500 mg/24H MOD EJTXAZ 9,41,76
eye-rbt 100 mg SEV EJTXAZ 9,41,76
mma-sat 100 µg/plate ENMUDM 9(Suppl 9),1,87
ihl-wmn TCLO:300 ppt/8H/5D:PUL LANCAO 1,756,80
ihl-hmn TCLo:20 ppb/2Y:PUL PRSMA4 63,372,70
ihl-hmn TCLo:500 ppb:NOSE,PUL JOCMA7 1,448,59
ihl-hmn TCLo:80 ppb:NOSE,PUL,EYE ATXKA8 19,364,62
orl-rat LD50:5800 mg/kg AMIHAB 15,324,57
ihl-rat LC50:14 ppm/4H AIHAAP 23,447,62
ihl-mus LC50:10 ppm/4H AIHAAP 23,447,62
ihl-rbt LC50:11 ppm/4H AIHAAP 23,447,62
CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Human Inadequate Evidence IMEMDT 39,287,86; Animal Sufficient Evidence IMEMDT 39,287,86. Community Right-To-Know List. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.005 ppm; STEL 0.02 ppm
ACGIH TLV: TWA 0.005 ppm; STEL 0.02 ppm; Not Classifiable as a Human Carcinogen; (Proposed: TWA 0.005 ppm; STEL 0.02 ppm (sensitizer); Not Classifiable as a Human Carcinogen)
DFG MAK: 0.01 ppm (0.072 mg/m^3)
NIOSH REL: (Diisocyanates) TWA 0.005 ppm; CL 0.02 ppm/10M
DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD (UN 2207)
SAFETY PROFILE: Confirmed carcinogen. Poison by ingestion, inhalation, and intravenous routes. Human systemic effects by inhalation: unspecified changes to the eyes and sense of smell, respiratory obstruction, cough, sputum, and other pulmonary and gastrointestinal changes. Mutation data reported. A severe skin and eye irritant. Capable of producing severe dermatitis and bronchial spasm. A common air contaminant. Combustible when exposed to heat or flame. Explosive in the form of vapor when exposed to heat or flame. To fight fire, use dry chemical, CO_2. Potentially violent polymerization reaction with bases or acyl chlorides. Reaction with water releases carbon dioxide. Storage in polyethylene containers is hazardous due to absorption of water through the plastic. When heated to decomposition it emits highly toxic fumes of NO_x. See also ISOCYANATES.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #18, superseded by #42 or NIOSH: Toluene-2,4-diisocyanate, 2535.

TGM800 CAS: 91-08-7 HR: 3
TOLUENE-2,6-DIISOCYANATE
DOT: UN 2207
mf: $C_9H_6N_2O_2$ mw: 174.17
PROP: A liquid. Bp: 129−133° @ 18 mm.
SYNS: 2,6-DIISOCYANATO-1-METHYLBENZENE ◻ 2,6-DIISOCYANATOTOLUENE ◻ HYLENE TM ◻ 2-METHYL-m-PHENYLENE ESTER, ISOCYANIC ACID ◻ 2-METHYL-m-PHENYLENE ISOCYANATE ◻ NIAX TDI ◻ 2,6-TDI ◻ 2,6-TOLUENE DIISOCYANATE ◻ m-TOLYLENE DIISOCYANATE ◻ TOLYLENE-2,6-DIISOCYANATE
TOXICITY DATA with REFERENCE:
ihl-hmn TCLo:50 ppb:NOSE,EYE,PUL ATXKA8 19,364,62
orl-bwd LD50:100 mg/kg AECTCV 12,355,83
CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Human Inadequate Evidence IMEMDT 39,287,86; Animal Sufficient Evidence IMEMDT 39,287,86. Reported in EPA TSCA Inventory. Community Right-To-Know List. EPA Hazardous Substances List. EPA Extremely Hazardous Substances List.
ACGIH TLV: TWA 0.005 ppm; STEL 0.02 ppm; Not Classifiable as a Human Carcinogen; (Proposed: TWA 0.005 ppm; STEL 0.02 ppm (sensitizer); Not Classifiable as a Human Carcinogen)
DFG MAK: 0.01 ppm (0.072 mg/m^3)
NIOSH REL: (Diisocyanates) TWA 0.005 ppm; CL 0.02 ppm/10M
DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD (UN 2207); DOT Class: 6.1; Label: Poison (UN 2206); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3080); DOT Class: 3; Label: Flammable Liquid, Poison (UN 2478)
SAFETY PROFILE: Confirmed carcinogen. Poison by ingestion and inhalation. Human systemic effects by inhalation: olfactory, eye, and pulmonary changes. Flammable liquid. When heated to decomposition it emits toxic fumes of NO_x. See also CYANATES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #42.

TGN000 CAS: 496-74-2 HR: 3
TOLUENE-3,4-DITHIOL
mf: $C_7H_8S_2$ mw: 156.27
PROP: Crystals. Mp: 31°, bp: 185−187°. Sol in alkalies, $CHCl_3$ and pentyl acetate.
SYNS: 1,2-DIMERCAPTO-4-METHYLBENZENE ☐ 4-METHYL-1,2-DIMERCAPTOBENZENE ☐ o-TOLUENESULFONYLAMIDE ☐ o-TOLUENSULFAMID (CZECH) ☐ USAF B-59
TOXICITY DATA with REFERENCE:
ipr-mus LD50:50 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x. See also SULFIDES and MERCAPTANS.

TGN100 CAS: 40560-76-7 HR: 3
4-TOLUENESULFINYL AZIDE
mf: $C_7H_7N_3OS$ mw: 181.21
$CH_3C_6H_4S(O)N_3$
SAFETY PROFILE: Explodes at 8°C. It is thermally unstable, the pure material or concentrated solutions can explode when warmed. Upon decomposition it emits toxic fumes of SO_x and NO_x. See also AZIDES.

TGN250 CAS: 88-19-7 HR: 3
o-TOLUENESULFONAMIDE
mf: $C_7H_9NO_2S$ mw: 171.23
PROP: Tetragonal prisms. Mp: 156°. Sol in water, alc.
SYNS: o-METHYLBENZENESULFONAMIDE ☐ 2-METHYLBENZENESULFONAMIDE ☐ ONCO-CARBIDE ☐ ORTHO-TOLUOL-SULFONAMID (GERMAN) ☐ OTS ☐ OXYUREA ☐ TOLUENE-2-SULFONAMIDE
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg/24H MOD 28ZPAK -,199,72
mma-sat 70 µmol/plate 45OHAA -,170,80
sln-dmg-par 5 mmol/L MUREAV 56,163,77
sln-dmg-orl 2500 µmol/L 45OHAA -,170,80
orl-rat LD50:4870 mg/kg 28ZPAK -,199,72
CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,334,87; Animal Limited Evidence IMEMDT 22,111,80. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Suspected carcinogen with experimental tumorigenic data. Mildly toxic by ingestion. Experimental reproductive effects. Mutation data reported. An eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. Used as a chemical intermediate in the production of saccharin.

TGN500 CAS: 70-55-3 HR: 3
p-TOLUENESULFONAMIDE
mf: $C_7H_9NO_2S$ mw: 171.23
PROP: Monoclinic leaflets from EtOH, plates + $2H_2O$ from H_2O. Mp: 138° (anhyd), mp: 105° (hydrate). Sol in water, alc.
SYNS: p-METHYLBENZENESULFONAMIDE ☐ 4-METHYL-BENZENESULFONAMIDE ☐ p-TOLUENESULFANAMIDE ☐ 4-TOLUENESULFANAMIDE ☐ TOLUENE-4-SULFONAMIDE ☐ p-TOLUENESULFONYLAMIDE ☐ TOLUENE-p-SULPHONAMIDE ☐ TOLYLSULFONAMIDE ☐ p-TOLYLSULFONAMIDE ☐ TOSYLAMIDE ☐ p-TOSYLAMIDE
TOXICITY DATA with REFERENCE:
mma-sat 40 µmol/plate 45OHAA -,170,80
sln-dmg-orl 2500 µmol/plate 45OHAA -,170,80
ipr-mus LD50:250 mg/kg NTIS** AD691-490
orl-bwd LD50:75 mg/kg TXAPA9 21,315,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mutation data reported. Used as a fungicide. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also AMIDES.

TGN600 CAS: 68-34-8 HR: 3
p-TOLUENESULFONANILIDE
mf: $C_{13}H_{13}NO_2S$ mw: 247.33
SYNS: BENZENESULFONAMIDE, 4-METHYL-N-PHENYL-(9CI) ☐ 4-METHYL-N-PHENYLBENZENESULFONAMIDE ☐ N-PHENYL-p-TOLUENESULFONAMIDE ☐ p-TOLUENESULF-ANILIDE ☐ p-TOLUENESULFONYLANILIDE ☐ N-TOSYLANILINE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:44 mg/kg CPBTAL 12,1451,64
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

TGO000 CAS: 104-15-4 HR: 2
p-TOLUENESULFONIC ACID
mf: $C_7H_8O_3S$ mw: 172.21
PROP: Colorless leaflets and hygroscopic plates. Mp: 107°, bp: 140° @ 20 mm. Sol in alc, ether, water.
SYNS: KYSELINA p-TOLUENESULFONOVA (CZECH) ☐ MANRO PTSA 65 E ☐ MANRO PTSA 65 H ☐ MANRO PTSA 65 LS ☐ p-METHYLBENZENESULFONIC ACID ☐ 4-METHYLBEN-ZENESULFONIC ACID ☐ p-METHYLPHENYLSULFONIC ACID ☐ TOLUENESULFONIC ACID ☐ 4-TOLUENESULFONIC ACID ☐ p-TOLUENESULPHONIC ACID ☐ p-TOLYLSULFONIC ACID ☐ TOSIC ACID ☐ TSA-HP ☐ TSA-MH
TOXICITY DATA with REFERENCE:
orl-rat LD50:2480 mg/kg MarJV# 29MAR77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Highly irritating to skin and mucous membranes. Potentially explosive reaction with acetic anhydride + water. When heated to decomposition it emits toxic fumes of SO_x.

TGO250 CAS: 98-59-9 HR: 1
p-TOLUENESULFONYL CHLORIDE
mf: $C_7H_7ClO_2S$ mw: 190.64
PROP: Colorless to light yellow or highly reactive, hygroscopic crystals; pungent odor. Plates from Et_2O. Slowly hydrolyzes to HCl + p-toluene sulfonic acid. Decomp @ >220°, mp: 69−71°, bp: 152° @ 20 mm, vap

press: 1 mm Hg @ 88°, flash p: 230°F (COC), d: 1.33. Insol in H_2O; very sol in alc, benzene, ether.
SYNS: p-METHYL BENZENE SULFONYL CHLORIDE □ 4-METHYL BENZENE SYLFONYL CHLORIDE □ p-TOLUENE SULFONIC ACID CHLORIDE □ TOSYL CHLORIDE
SAFETY PROFILE: Mildly toxic by ingestion and skin contact. Most common hazards of handling p-toluene sulfonyl chloride are irritation of skin, eyes, and mucous membranes. Probably due to hydrolysis to HCl and toluene sulfonic acid. Considered a vesicant. Can do irreversible damage to eyes. Although its vapor pressure is low, handling the material may give rise to solid and liquid aerosols which can be inhaled or can expose skin and eyes. The 15 minute TWA is 5 mg/m^3 (AIHA-WEEL). Combustible when exposed to heat or flame. When heated to decomposition it emits very toxic fumes of SO_x and Cl^-.

TGO300 CAS: 329-98-6 HR: 3
α-TOLUENESULFONYL FLUORIDE
mf: $C_7H_7FO_2S$ mw: 174.20
SYNS: BENZENEMETHANESULFONYL FLUORIDE □ BENZYLSULFONYL FLUORIDE □ BENZYLSULPHONYL FLUORIDE □ PHENYLMETHANESULFONYL FLUORIDE □ PHENYLMETHYLSULFONYL FLUORIDE □ PMSF
TOXICITY DATA with REFERENCE:
ipr-rat LD50:150 mg/kg NATUAS 173,33,54
ipr-mus LD50:215 mg/kg LIFSAK 31,1193,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of SO_x and F^-.

TGO500 CAS: 455-16-3 HR: 3
p-TOLUENESULFONYL FLUORIDE
mf: $C_7H_7FO_2S$ mw: 174.20
PROP: Needles from pet ether. Mp: 41−42°, bp: 112°/16 mm, flash p: 222° F.
SYNS: BENZENESULFONYL FLUORIDE, 4-METHYL-(9CI) □ p-METHYLBENZENESULFONYL FLUORIDE □ 4-METHYLBENZENESULFONYL FLUORIDE □ p-METHYLPHENYLSULFONYL FLUORIDE □ TOLUENE-4-SULFONYL FLUORIDE □ TOLUENE-p-SULPHONYL FLUORIDE □ TOSYL FLUORIDE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:500 mg/kg NCNSA6 5,1,53
ipr-rat LD50:200 mg/kg NATUAS 173,33,54
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. A corrosive. Combustible. When heated to decomposition it emits very toxic fumes of F^- and SO_x. See also FLUORIDES.

TGO550 CAS: 877-66-7 HR: 1
4-TOLUENESULFONYL HYDRAZIDE
mf: $C_7H_{10}N_2O_2S$ mw: 186.23
$CH_3C_6H_4SO_2NHNH_2$
PROP: Crystals. Mp: 109−110°
SAFETY PROFILE: Decomposes exothermically when heated above 60°C. Used as a blowing agent. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

TGO575 CAS: 52913-14-1 HR: 3
o-4-TOLUENE SULFONYL HYDROXYLAMINE
mf: $C_7H_9NO_3S$ mw: 187.21
$CH_3C_6H_4SO_2ONH_2$
SAFETY PROFILE: The dry material ignites spontaneously at room temperature. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

TGO750 CAS: 100-53-8 HR: 3
α-TOLUENETHIOL
DOT: UN 1228/UN 3071
mf: C_7H_8S mw: 124.21
PROP: A water-white, mobile liquid; strong odor. Bp: 194.8°, d: 1.058 @ 20°, vap d: 4.28.
SYNS: BENZYLHYDROSULFIDE □ BENZYL MERCAPTAN □ BENZYLTHIOL □ (MERCAPTOMETHYL)BENZENE □ α-MERCAPTOTOLUENE □ METHANETHIOL, PHENYL- □ PHENYLMETHANETHIOL □ PHENYLMETHYL MERCAPTAN □ THIOBENZYL ALCOHOL □ α-TOLYL MERCAPTAN □ USAF EK-1509
TOXICITY DATA with REFERENCE:
eye-rbt 106 mg AIHAAP 19,171,58
orl-rat LD50:493 mg/kg AIHAAP 19,171,58
ipr-rat LD50:373 mg/kg AIHAAP 19,171,58
ihl-mus LC50:178 ppm/4H AIHAAP 19,171,58
ipr-mus LD50:100 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison (UN 1228); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3071)
SAFETY PROFILE: Poison by inhalation and intraperitoneal routes. Moderately toxic by ingestion. An eye irritant. Questionable carcinogen with experimental tumorigenic data. Flammable when exposed to heat or flame. Can react vigorously with oxidizing materials. To fight fire, use foam, CO_2, dry chemical, water spray, mist, fog. When heated to decomposition and on contact with acid or acid fumes it emits highly toxic fumes of SO_x. See also SULFIDES and MERCAPTANS.

TGO800 CAS: 108-40-7 HR: 3
m-TOLUENETHIOL
mf: C_7H_8S mw: 124.21
SYNS: BENZENETHIOL, 3-METHYL-(9CI) □ m-MERCAPTOTOLUENE □ m-METHYLBENZENETHIOL □ 3-METHYLBENZENETHIOL □ m-METHYLTHIOPHENOL □ 3-METHYLTHIOPHENOL □ m-THIOCRESOL □ 3-THIOCRESOL □ m-TOLYLMERCAPTAN □ USAF EK-2680
TOXICITY DATA with REFERENCE:
ipr-mus LD50:50 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of SO_x.

TGP000 CAS: 137-06-4 HR: 3
o-TOLUENETHIOL
DOT: UN 1228/UN 3071
mf: C_7H_8S mw: 124.21
PROP: Leaves or liquid. Mp: 15°, bp: 106° @ 50 mm. Insol in H_2O; sol in common org solvs.
SYNS: o-MERCAPTOTOLUENE □ o-METHYLBENZENETHIOL □ 2-METHYLBENZENETHIOL □ o-METHYLTHIOPHENOL □ 2-METHYLTHIOPHENOL □ o-THIOCRESOL □ 2-TOLUENE-THIOL □ o-TOLYL MERCAPTAN □ USAF EK-2676
TOXICITY DATA with REFERENCE:
ipr-mus LD50:100 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison (UN 1228); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3071)
SAFETY PROFILE: Poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic fumes of SO_x. See also α-TOLUENETHIOL and MERCAPTANS.

TGP250 CAS: 106-45-6 HR: 3
p-TOLUENETHIOL
DOT: UN 1228/UN 3071
mf: C_7H_8S mw: 124.21
PROP: Leaflets from EtOH (aq). Mp: 43−44°, bp: 195°. Sol in AcOH.
SYNS: p-MERCAPTOTOLUENE □ p-METHYLBENZENETHIOL □ 4-METHYLBENZENETHIOL □ p-METHYLPHENYL--MERCAPTAN □ 4-METHYLPHENYLMERCAPTAN □ p-METHYLTHIOPHENOL □ 4-METHYLTHIOPHENOL □ p-THIOCRESOL □ 4-THIOCRESOL □ 4-TOLUENETHIOL □ p-TOLYL MERCAPTAN □ p-TOLYLTHIOL □ USAF EK-510
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, Poison (UN 1228); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3071)
SAFETY PROFILE: Poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic fumes of SO_x. See also α-TOLUENETHIOL and MERCAPTANS.

TGO800 CAS: 88-02-8 HR: D
TOLUENE-2,4,6-TRIAMINE
mf: $C_7H_{11}N_3$ mw: 137.18
SYNS: 1,3,5-BENZENETRIAMINE, 2-METHYL- □ TRIAMINOTOLUENE
TOXICITY DATA with REFERENCE:
slt-ham-ovr 0.5 ppm/5H JJATDK 20,441,2000
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

TGP750 CAS: 99-04-7 HR: 2
m-TOLUIC ACID
mf: $C_8H_8O_2$ mw: 136.16
PROP: Prisms from MeOH or H_2O. D: 1.054 @ 112/4°, mp: 110−111°, bp: 273°. Sol in hot water; very sol in alc, ether.
SYNS: m-METHYLBENZOIC ACID □ 3-METHYLBENZOIC ACID □ m-TOLUYLIC ACID
TOXICITY DATA with REFERENCE:
orl-mus LD50:1630 mg/kg GTPZAB 18(7),57,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

TGQ000 CAS: 118-90-1 HR: 3
o-TOLUIC ACID
mf: $C_8H_8O_2$ mw: 136.16
PROP: Crystals or prisms from water. D: 1.062 @ 115/4°, mp: 104−105°, bp: 259° @ 751 mm. Sol in hot water, chloroform; very sol in alc.
SYNS: o-METHYLBENZOIC ACID □ 2-METHYLBENZOIC ACID □ ORTHOTOLUIC ACID □ o-TOLUYLIC ACID
TOXICITY DATA with REFERENCE:
orl-rat LD50:400 mg/kg 14CYAT 2,1838,63
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

TGQ250 CAS: 99-94-5 HR: 2
p-TOLUIC ACID
mf: $C_8H_8O_2$ mw: 136.16
PROP: Crystals from water. Mp: 179−180°, bp: 274−275°. Sol in water; very sol in alc, ether.
SYN: p-TOLUYLIC ACID
TOXICITY DATA with REFERENCE:
ipr-rat LD50:874 mg/kg KSRNAM 12,1893,78
orl-mus LD50:2340 mg/kg KSRNAM 12,1893,78
ipr-mus LD50:916 mg/kg KSRNAM 12,1893,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes.

TGQ500 CAS: 108-44-1 HR: 3
m-TOLUIDINE
DOT: UN 1708
mf: C_7H_9N mw: 107.17
PROP: Colorless liquid. Mp: −43.6°, bp: 203.3°, d: 0.989 @ 20°/4°, vap press: 1 mm @ 41°, vap d: 3.90. Sltly sol in water; sol in alc, ether.
SYNS: 3-AMINO-1-METHYLBENZENE □ 3-AMINOPHENYL-METHANE □ 3-AMINOTOLUEN (CZECH) □ m-AMINOTOLU-ENE □ 3-AMINOTOLUENE □ m-METHYLANILINE □ 3-METHYLANILINE □ m-METHYLBENZENAMINE □ 3-METHYLBENZENAMINE □ m-TOLUIDIN (CZECH) □ 3-TOLUIDINE □ m-TOLYLAMINE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK -,66,72
eye-rbt 20 mg/24H MOD 28ZPAK -,66,72

orl-rat LD50:450 mg/kg JPETAB 90,260,47
orl-mus LD50:740 mg/kg GTPZAB 25(8),50,81
ipr-mus LD50:116 mg/kg AISFAR 1,284,51
orl-bwd LD50:242 mg/kg AECTCV 12,355,83
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 ppm (skin)
ACGIH TLV: TWA 2 ppm (skin); Not Classifiable as a Human Carcinogen
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. A skin and eye irritant. Flammable when exposed to heat or flame. Can react vigorously on contact with oxidizing materials. To fight fire, use foam, CO_2, dry chemical. When heated to decomposition it emits highly toxic fumes of NO_x. See also ANILINE and o-TOLUIDINE.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-73.

TGQ750 CAS: 95-53-4 HR: 3
o-TOLUIDINE
DOT: UN 1708
mf: C_7H_9N mw: 107.17
PROP: Colorless liquid. Mp: −16.3° (dimorph), bp: 200−202°, ULC: 20−25, flash p: 185° (CC), d: 1.004 @ 20°/4°, autoign temp: 900°F, vap press: 1 mm @ 44°, vap d: 3.69. Sltly sol in water, dil acid; sol in alc and ether.
SYNS: 1-AMINO-2-METHYLBENZENE ◻ 2-AMINO-1-METHYLBENZENE ◻ o-AMINOTOLUENE ◻ 2-AMINOTOLUENE ◻ C.I. 37077 ◻ 1-METHYL-2-AMINOBENZENE ◻ 2-METHYL-1-AMINOBENZENE ◻ o-METHYLANILINE ◻ 2-METHYLANILINE ◻ o-METHYLBENZENAMINE ◻ 2-METHYLBENZENAMINE ◻ o-TOLUIDIN (CZECH) ◻ 2-TOLUIDINE ◻ o-TOLUIDYNA (POLISH) ◻ o-TOLYLAMINE
TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62
skn-rbt 500 mg/24H MLD 28ZPAK -,65,72
eye-rbt 750 µg/24H SEV 85JCAE -,460,86
slt-dmg-orl 1 mmol/L PMRSDJ 5,313,85
dns-hmn:hla 50 µL/L PMRSDJ 5,347,85
msc-mus:lym 10 mg/L PMRSDJ 5,587,85
orl-rat TDLo:109 g/kg/2Y-C:NEO FCTOD7 25,619,87
scu-mus TDLo:320 mg/kg (15-21D preg):NEO,TER BEXBAN 78,1402,74
scu-rbt TDLo:840 mg/kg/14W-I:ETA IMEMDT 27,155,82
ihl-man TCLo:25 mg/m^3:KID,BLD GTPZAB 14(8),7,70
orl-rat LD50:670 mg/kg IARC** 27,155,82
orl-mus LD50:520 mg/kg IARC** 27,155,82
ipr-mus LD50:150 mg/kg NTIS** AD691-490
orl-cat LDLo:150 mg/kg XPHBAO 271,49,41
orl-rbt LD50:840 mg/kg IARC** 27,155,82
skn-rbt LD50:3250 mg/kg AIHAAP 23,95,62
orl-frg LDLo:151 mg/kg XPHBAO 271,49,41
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,362,87; Human Inadequate Evidence IMEMDT 16,349,78; Human Limited Evidence IMEMDT 27,155,82; Animal Inadequate Evidence IMEMDT 16,349,78. EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 5 ppm (skin)
ACGIH TLV: TWA 2 ppm (skin); Animal Carcinogen
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Confirmed carcinogen with experimental neoplastigenic and tumorigenic data. Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. Human systemic effects by inhalation: urine volume increase, hematuria, and blood methemoglobinemia-carboxyhemoglobinemia. An experimental teratogen. Human mutation data reported. A skin and severe eye irritant. Human mucous membrane effects. Can produce severe systemic disturbances. The main portal of entry into the body is the respiratory tract, particularly in cases of industrial exposure. The symptoms produced are headache, weakness, difficulty in breathing, air hunger, psychic disturbances, and marked irritation of the kidneys and bladder. The literature does not yield any good data for comparing the toxicity of the o-, m-, and p-isomers. Their behavior is generally comparable to that of aniline. It has been determined experimentally that a concentration of about 100 ppm is the maximum endurable for 1 hour without serious consequences and that 6−23 ppm is endurable for several hours without serious disturbances.

Flammable when exposed to heat or flame. Hypergolic reaction with red fuming nitric acid. Can react with oxidizing materials. To fight fire, use foam, CO_2, dry chemical. When heated to decomposition it emits highly toxic fumes of NO_x. See also ANILINE.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-73 or NIOSH: Amines, Aromatic, 2002.

TGR000 CAS: 106-49-0 HR: 3
p-TOLUIDINE
DOT: UN 1708
mf: C_7H_9N mw: 107.17
PROP: Colorless leaflets. Mp: 44.5° (anhyd), mp: 42°, bp: 82.2° @ 10 mm, flash p: 188°F (CC), d: 1.046 @ 20°/4°, autoign temp: 900°F, vap press: 1 mm @ 42°, vap d: 3.90. Sol in water, dil acid, CS_2; very sol in alc, ether.
SYNS: 4-AMINO-1-METHYLBENZENE ◻ 4-AMINOTOLUEN (CZECH) ◻ p-AMINOTOLUENE ◻ 4-AMINOTOLUENE ◻ C.I. 37107 ◻ C.I. AZOIC COUPLING COMPONENT 107 ◻ p-METHYLANILINE ◻ 4-METHYLANILINE ◻ p-METHYLBENZENAMINE ◻ 4-METHYLBENZENAMINE ◻ NAPHTOL AS-KG ◻ NAPHTOL AS-KGLL ◻ p-TOLUIDIN (CZECH) ◻ 4-TOLUIDINE ◻ TOLYLAMINE ◻ p-TOLYLAMINE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV BIOFX* 31-4/73
skn-rbt 500 mg/24H MLD 28ZPAK -,66,72
eye-rbt 100 mg SEV BIOFX* 31-4/73
eye-rbt 20 mg/24H MOD 28ZPAK -,66,72
dns-rat:lvr 100 µmol/L ENMUDM 5,803,83
dnd-mus-ipr 35 mg/kg ATSUDG (5),355,82
dni-mus-orl 200 mg/kg MUREAV 46,305,77
orl-rat LD50:656 mg/kg BIOFX* 31-4/73
orl-mus LD50:330 mg/kg GTPZAB 25(8),50,81
ipr-mus LD50:50 mg/kg NTIS** AD691-490
orl-qal LD50:237 mg/kg AECTCV 12,355,83

orl-bwd LD50:42 mg/kg TXAPA9 21,315,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 2 ppm (skin)
ACGIH TLV: TWA 2 ppm (skin); Animal Carcinogen
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Confirmed carcinogen. Poison by ingestion and intraperitoneal routes. Mutation data reported. A severe skin and eye irritant. Flammable when exposed to heat, flame, or oxidizers. Can react vigorously on contact with oxidizing materials. To fight fire, use foam, CO_2, dry chemical. When heated to decomposition it emits highly toxic fumes of NO_x. See also o-TOLUIDINE and ANILINE.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-73.

TGR250 CAS: 64011-34-3 HR: 3
m-TOLUIDINE ANTIMONYL TARTRATE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:28,700 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: TWA 0.5 mg/m^3
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of Sb and NO_x. See also ANTIMONY COMPOUNDS.

TGR500 CAS: 64011-35-4 HR: 3
o-TOLUIDINE ANTIMONYL TARTRATE
SYN: 2-METHYLBENZENAMINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:19,600 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: TWA 0.5 mg/m^3
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and Sb. See also ANTIMONY COMPOUNDS.

TGR750 CAS: 64011-36-5 HR: 3
p-TOLUIDINE ANTIMONYL TARTRATE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:22,100 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: TWA 0.5 mg/m^3
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x and Sb. See also ANTIMONY COMPOUNDS.

TGS000 CAS: 3209-30-1 HR: 3
TOLUIDINE BLUE
mf: $C_{28}H_{22}N_2O_{10}S_2$•2Na mw: 656.62
SYNS: C.I. 63340 ☐ 6,6'-((4,8-DIHYDROXY-1,5-ANTHRAQUINONYLENE)DIIMINO) DI-m-TOLUENE SULFONIC ACID DISODIUM SALT
TOXICITY DATA with REFERENCE:
sln-dmg-unr 500 ppm 14ZYA8 -,115,65
ivn-rat LD50:29 mg/kg FEPRA7 10,337,51
ivn-mus LD50:28 mg/kg FEPRA7 10,337,51
ivn-rbt LD50:13 mg/kg FEPRA7 10,337,51
SAFETY PROFILE: Poison by intravenous route. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, Na_2O, and SO_x.

TGS250 CAS: 638-03-9 HR: 2
m-TOLUIDINE HYDROCHLORIDE
mf: C_7H_9N•ClH mw: 143.63
PROP: Leaves from water. Mp: 228°, bp: 250°. Sol in water and alc.
TOXICITY DATA with REFERENCE:
ipr-rat LD50:660 mg/kg JEPTDQ 2,325,78
ipr-mus LD50:650 mg/kg NCIBR* NIH-NCI-E-68-1311,10,73
scu-frg LDLo:574 mg/kg AEPPAE 130,250,28
SAFETY PROFILE: Moderately toxic by subcutaneous and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also m-TOLUIDINE.

TGS500 CAS: 636-21-5 HR: 3
o-TOLUIDINE HYDROCHLORIDE
mf: C_7H_9N•ClH mw: 143.63
PROP: Monoclinic prisms. Mp: 218–220°, bp: 242°. Sol in water; sltly sol in alc.
SYNS: 1-AMINO-2-METHYLBENZENE HYDROCHLORIDE ☐ 2-AMINO-1-METHYLBENZENE HYDROCHLORIDE ☐ o-AMINOTOLUENE HYDROCHLORIDE ☐ 2-AMINOTOLUENE HYDROCHLORIDE ☐ 1-METHYL-2-AMINOBENZENE HYDROCHLORIDE ☐ 2-METHYL-1-AMINOBENZENE HYDROCHLORIDE ☐ o-METHYLANILINE HYDROCHLORIDE ☐ 2-METHYLANILINE HYDROCHLORIDE ☐ o-METHYL-BENZENAMINE HYDROCHLORIDE ☐ 2-METHYLBENZEN-AMINE HYDROCHLORIDE ☐ NCI-C02335 ☐ RCRA WASTE NUMBER U222 ☐ 2-TOLUIDINE HYDROCHLORIDE ☐ o-TOLYLAMINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
mma-sat 50 µg/plate PMRSDJ 1,351,81
dnr-esc 500 mg/L PMRSDJ 1,195,81
dnd-bcs 20 µL/disc PMRSDJ 1,175,81
sln-smc 50 mg/L PMRSDJ 1,468,81
orl-rat TDLo:117 g/kg/101W-C:CAR NCITR* NCI-CG-TR-153,79
orl-mus TDLo:146 g/kg/2Y-C:CAR NCITR* NCI-CG-TR-153,79
orl-rat LD50:2951 mg/kg JPETAB 167,223,69
ipr-rat LD50:150 mg/kg NCIBR* NCI-E-68-1311,73
orl-mus LD50:1100 mg/kg GTPZAB 25(8),50,81
ipr-mus LD50:113 mg/kg NCIBR* NCI-E-68-1311,73
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Sufficient Evidence IMEMDT 27,155,82. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NCITR* NCI-

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CG-TR-153,79. EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also o-TOLUIDINE.

TGS750 CAS: 540-23-8 HR: 3
p-TOLUIDINE HYDROCHLORIDE
mf: C_7H_9N•ClH mw: 143.63

PROP: Needles or crystals from acetic ether. Mp: 243°, bp: 257.5°. Sol in water, alc; insol in ether, benzene.

SYNS: 4-AMINOTOLUENE HYDROCHLORIDE ◻ 4-METHYLANILINE HYDROCHLORIDE ◻ 4-METHYL-BENZENAMINE HYDROCHLORIDE ◻ p-TOLUIDINIUM CHLORIDE

TOXICITY DATA with REFERENCE:
orl-rat LD50:1285 mg/kg JPETAB 167,223,69
ipr-rat LD50:265 mg/kg NCIBR* NCI-E-68-1311,73
ipr-mus LD50:399 mg/kg NCIBR* NCI-E-68-1311,73

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

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also p-TOLUIDINE.

TGT000 CAS: 136-80-1 HR: 2
2-o-TOLUIDINOETHANOL
mf: $C_9H_{13}NO$ mw: 151.23

PROP: Liquid. Mp: −25°, bp: 297.1°, flash p: 290°F (OC), d: 1.0723 @ 20/20°.

SYNS: EMERY 5711 ◻ N-β-HYDROXYETHYL-o-TOLUIDINO ◻ o-TOLYL ETHANOLAMINE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 85JCAE -,693,86
eye-rbt 750 µg/24H SEV 85JCAE -,693,86
orl-rat LD50:2200 mg/kg JIDHAN 31,60,49
skn-rbt LD50:1 g/kg JIDHAN 31,60,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and severe eye irritant. Combustible when exposed to heat or flame. Can react with oxidizing materials. To fight fire, use foam, CO_2, dry chemical. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES and ALCOHOLS.

TGT250 CAS: 620-22-4 HR: 2
m-TOLUNITRILE
mf: C_8H_7N mw: 117.16

PROP: A liquid. D: 1.032 @ 20°, mp: −23.5°, bp: 210−212°.

SYNS: BENZONITRILE, 3-METHYL-(9CI) ◻ m-CYANO-TOLUENE ◻ 3-CYANOTOLUENE ◻ m-METHYLBENZO-NITRILE ◻ 3-METHYLBENZONITRILE ◻ MTN ◻ NITRIL KYSELINY m-TOLUYLOVE (CZECH) ◻ m-TOLUENENITRILE ◻ 3-TOLUENKARBONITRIL ◻ 3-TOLUNITRILE ◻ m-TOLUONITRILE ◻ m-TOLYNITRILE

TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H SEV 28ZPAK -,158,72
orl-rat LD50:3 g/kg ZAARAM 19,225,69

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

SAFETY PROFILE: Moderately toxic by ingestion. A severe eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and CN^-. See also NITRILES.

TGT500 CAS: 529-19-1 HR: 2
o-TOLUNITRILE
mf: C_8H_7N mw: 117.16

PROP: Colorless liquid. D: 0.998 @ 15/15°, mp: −13°, bp: 205.2°. Insol in water; misc in alc, ether.

SYNS: 2-CYANOTOLUENE ◻ o-CYANOTOLUENE ◻ 2-METHYLBENZENECARBONITRILE ◻ o-METHYLBENZO-NITRILE ◻ 2-METHYLBENZONITRILE ◻ o-TOLUIC NITRILE ◻ o-TOLUONITRILE ◻ o-TOLYLNITRILE

TOXICITY DATA with REFERENCE:
orl-rat LD50:3200 mg/kg ZAARAM 19,225,69
ipr-mus LD50:700 mg/kg ZAARAM 19,225,69
scu-rbt LDLo:600 mg/kg AIPTAK 5,161,1899
scu-frg LDLo:1000 mg/kg AIPTAK 5,161,1899

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

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x and CN^-. See also NITRILES.

TGT750 CAS: 104-85-8 HR: 2
p-TOLUNITRILE
mf: C_8H_7N mw: 117.16

PROP: Needles from ethyl alc. D: 0.981 @ 20/30°, mp: 29.5°, bp: 217.6°. Insol in water; very sol in alc, ether.

SYNS: p-CYANOTOLUENE ◻ 4-CYANOTOLUENE ◻ 4-METHYLBENZONITRILE ◻ p-METHYLBENZONITRILE ◻ 4-METHYLCYANOBENZENE ◻ NITRIL KYSELINY p-TOLUYLOVE (CZECH) ◻ p-TOLUENENITRILE ◻ p-TOLUIC NITRILE ◻ p-TOLUNITRIL (CZECH) ◻ 4-TOLUNITRILE ◻ p-TOLUONITRILE ◻ p-TOLYLNITRILE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD 28ZPAK -,159,72
eye-rbt 500 mg/24H SEV 28ZPAK -,159,72
orl-rat LD50:4060 mg/kg 28ZPAK -,159,72
ipr-mus LDLo:512 mg/kg CBCCT* 3,129,51
scu-rbt LDLo:1080 mg/kg AIPTAK 5,161,1899

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

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. A skin and severe eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and CN^-. See also NITRILES.

TGU010 CAS: 1711-06-4 HR: 2
m-TOLUOYL CHLORIDE
mf: C_8H_7ClO mw: 154.60