

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 16,145,78.

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

BJF500 CAS: 100-22-1 HR: 3
p-BIS(DIMETHYLAMINO)BENZENE
 mf: C₁₀H₁₆N₂ mw: 164.28

PROP: Leaflets or crystals. Mp: 51°, bp: 260°. Sltly sol in cold water; more sol in hot water; freely sol in alc, chloroform, ether, and petroleum ether.

SYNS: 1,4-BIS(DIMETHYLAMINO)BENZENE □ TETRAMETHYL-p-PHENYLENEDIAMINE □ N,N,N',N'-TETRAMETHYL-p-PHENYLENEDIAMINE □ TL 85 □ TMPD □ WURSTER'S BLUE □ WURSTER'S REAGENT

TOXICITY DATA with REFERENCE:

mmo-sat 333 µg/plate EMMUEG 11(Suppl 12),1,88
 cyt-ham:lng 10 mg/L MUREAV 241,175,90
 orl-rat LDLo:500 mg/kg JPETAB 90,260,47
 ihl-mus LCLo:780 mg/m³/10M NDRC** NDCrc-132,Dec,42
 orl-qal LD50:42 mg/kg EESADV 6,149,82
 orl-bwd LD50:23,700 µg/kg AECTCV 12,355,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BJF600 CAS: 366-29-0 HR: D
4,4'-BIS(N,N-DIMETHYLAMINO)BIPHENYL
 mf: C₁₆H₂₀N₂ mw: 240.38

SYNS: BENZIDINE, N,N,N',N'-TETRAMETHYL- □ (1,1'-BIPHENYL)-4,4'-DIAMINE, N,N,N',N'-TETRAMETHYL- □ N,N,N',N'-TETRAMETHYLBENZIDINE □ N,N,N',N'-TETRAMETHYL-p,p'-BENZIDINE

TOXICITY DATA with REFERENCE:

mma-sat 10 nmol/plate EMMUEG 10,263,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BJG000 CAS: 39047-21-7 HR: 3
BIS(DIMETHYLAMINOBORANE)ALUMINUM TETRAHYDROBORATE
 mf: C₄H₂₂AlB₃N₂ mw: 157.66
 ((CH₃)₂NBH₃)₂AlBH₄

SAFETY PROFILE: Ignites on contact with air. Violent reaction on contact with water. When heated to decomposition it emits toxic fumes of NO_x. See also ALUMINUM COMPOUNDS, BORANES, and BORON COMPOUNDS.

BJG100 CAS: 17339-60-5 HR: 3
2,2'-BIS(DIMETHYLAMINO) DIETHYLSULFIDE DIHYDROCHLORIDE
 mf: C₈H₂₀N₂S₂•2ClH mw: 281.34

SYNS: ETHYLAMINE, 2,2'-DITHIOBIS(N,N-DIMETHYL), DIHYDROCHLORIDE □ 2,2'-DITHIOBIS(N,N-DIMETHYLETHYLAMINE) DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:310 mg/kg RPTOAN 33,127,70
 ivn-mus LD50:310 mg/kg RPTOAN 33,127,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BJG125 CAS: 993-74-8 HR: 3
BIS(DIMETHYLAMINO)DIMETHYLSTANNANE
 mf: C₆H₁₈N₂Sn mw: 236.93

((CH₃)₂N)₂Sn(CH₃)₂

PROP: Bp: 138°, d: 1.148 @ 20°/4°.

SAFETY PROFILE: Mixture with chloroform explodes when heated. When heated to decomposition it emits toxic fumes of NO_x. See also TIN COMPOUNDS.

BJG150 CAS: 1007-22-3 HR: 3
3,5-BIS-DIMETHYLAMINO-1,2,4-DITHIAZOLIUM CHLORIDE

mf: C₆H₁₂N₃S₂•Cl mw: 225.78

SYN: ORF 5513

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#07197
 orl-qal LD50:24 mg/kg JRPFAA 48,371,76

SAFETY PROFILE: Poison by ingestion and intravenous routes. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl⁻, SO_x and NO_x. See also CHLORIDES.

BJG250 CAS: 3065-46-1 HR: 2
BIS(2-DIMETHYLAMINOETHOXY)ETHANE
 mf: C₁₀H₂₄N₂O₂ mw: 204.36

TOXICITY DATA with REFERENCE:

orl-rat LD50:2830 mg/kg AIHAAP 30,470,69
 skn-rbt LD50:1200 mg/kg AIHAAP 30,470,69

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic fumes such as NO_x.

BJG500 CAS: 54593-27-0 HR: 3
3,6-BIS(2-(DIMETHYLAMINO)ETHOXY)-9H-XANTHEN-9-ONE DIHYDROCHLORIDE
 mf: C₂₁H₂₆N₂O₄•2ClH mw: 443.41

SYN: RMI 10874DA

TOXICITY DATA with REFERENCE:

orl-mus LD50:1780 mg/kg ALACBI 12,77,79
 scu-mus LD50:353 mg/kg ALACBI 12,77,79

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

BJG750 CAS: 52673-65-1 HR: 3
1,3-BIS(2-DIMETHYLAMINOETHYL)-ADAMANTANE DIHYDROCHLORIDE
 mf: C₁₈H₃₄N₂•2ClH mw: 351.46

SYN: 2,2'-(1,3-ADAMANTYLENE)N,N,N',N'-TETRAMETHYL-ETHYLAMINE DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1600 mg/kg JMCMAR 17,602,74

ipr-mus LD50:150 mg/kg JMCMAR 17,602,74

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

BJH000 CAS: 57647-53-7 HR: 2
1-(BIS(2-(DIMETHYLAMINO)ETHYL)AMINO)-5-METHYL-3-PHENYLINDOLE DIHYDROCHLORIDE

mf: C₂₃H₃₂N₄•2ClH mw: 437.3

TOXICITY DATA with REFERENCE:

orl-rat LD50:980 mg/kg ARZNAD 30,919,80

orl-mus LD50:650 mg/kg ARZNAD 30,919,80

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.

BJH500 CAS: 74758-19-3 HR: 2
1-(BIS(2-(DIMETHYLAMINO)ETHYL)AMINO)-3-PHENYLINDOLE DIHYDROCHLORIDE-HYDRATE

mf: C₂₂H₃₀N₄•2ClH•H₂O mw: 441.2

TOXICITY DATA with REFERENCE:

orl-rat LD50:1250 mg/kg ARZNAD 30,919,80

orl-mus LD50:810 mg/kg ARZNAD 30,919,80

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.

BJH750 CAS: 3033-62-3 HR: 3
BIS(2-DIMETHYLAMINOETHYL) ETHER
 mf: C₈H₂₀N₂O mw: 160.30
PROP: Bp: 180–182°.

SYN: DMAEE □ NIA X CATALYST AL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open SEV UCDS** 12/27/71

skn-rbt 100 mg/24H SEV JTOTDO 5,3,86

eye-rbt 1 mg SEV UCDS** 12/27/71

eye-rbt 250 µg/24H SEV 85JCAE -,721,86

orl-rat LD50:1070 mg/kg JTOTDO 5,3,86

skn-rbt LD50:280 µL/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 0.05 ppm; STEL 0.15 ppm (skin)

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

BJI000 CAS: 541-19-5 HR: 3
BIS(β-DIMETHYLAMINOETHYL)SUCCINATE BIS(METHYL IODIDE)

mf: C₁₄H₃₀N₂O₄•2I mw: 517.92

SYNS: ASCURON □ CELOCURINE □ CHOLINE IODIDE SUCCINATE (2:1) □ CURACIT □ DIACETYLCHOLINE DIIODIDE □ DITILIN IODIDE □ SUCCINIC ACID BIS(β-

DIMETHYL AMINOETHYL) ESTER BISMETHIODIDE □ SUCCINIC ACID, DIESTER with CHOLINE IODIDE □ SUCCINYLDICHO LINE IODIDE □ o,o-SUCCINYLDICHO LINE IODIDE □ SUXAMETHONIUM IODIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:5 mg/kg AEPPAE 228,371,56

ivn-mus LD50:550 µg/kg JPETAB 99,458,50

ivn-rbt LD50:15 mg/kg AIPTAK 88,1,51

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

BJI125 CAS: 21476-57-3 HR: 3
BIS(DIMETHYLAMINO)ISOPROPYLMETH-ACRYLATE

mf: C₁₁H₂₂N₂O₂ mw: 214.35

SYN: 2-METHYL-2-PROPENOIC ACID 2-(DIMETHYLAMINO)-1-((DIMETHYLAMINO)METHYL)ETHYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1605 mg/kg 85GMAT -,26,82

ihl-rat LC50:110 mg/m³/4H 85GMAT -,26,82

ihl-mus LC50:220 mg/m³/2H 85GMAT -,26,82

SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl⁻. See also ESTERS.

BJI250 CAS: 61-73-4 HR: 3
3,7-BIS(DIMETHYL AMINO)PHENAZATHONIUM CHLORIDE

mf: C₁₆H₁₈N₃S•Cl mw: 319.88

PROP: Dark bronze-green crystals with bronze luster. Sol in H₂O and EtOH.

SYNS: AIZEN METHYLENE BLUE BH □ BASIC BLUE 9 □ 3,7-BIS(DIMETHYLAMINO)PHENOTHIAZIN-5-IUM CHLORIDE □ CALCOZINE BLUE ZF □ CHROMOSMON □ C.I. 52015 (CZECH) □ C.I. BASIC BLUE 9 □ D&C BLUE NUMBER 1 □ EXTERNAL BLUE 1 □ HIDACO METHYLENE BLUE SALT FREE □ LEATHER PURE BLUE HB □ METHYLENE BLUE □ METHYLENE BLUE A □ METHYLENE BLUE BB □ METHYLENE BLUE BB ZINC FREE □ METHYLENE BLUE CHLORIDE □ METHYLENE BLUE CHLORIDE (biological stain) □ METHYLENE BLUE D □ METHYLENE BLUE (medicinal) □ METHYLENE BLUE I (medicinal) □ METHYLENE BLUE NF (medicinal) □ METHYLENE BLUE POLYCHROME □ METHYLENE BLUE USP (medicinal) □ METHYLENE BLUE USP XII (medicinal) □ METHYL-ENIUM CERULEUM □ METHYLTHIONINE CHLORIDE □ METHYLTHIONIUM CHLORIDE □ MITSUI METHYLENE BLUE □ MODR METHYLENOVA (CZECH) □ SANDOCRYL BLUE BRL □ SCHULTZ No. 1038 □ SWISS BLUE □ TETRAMETHYLTHIONINE CHLORIDE □ YAMAMOTO METHYLENE BLUE B

TOXICITY DATA with REFERENCE:

mma-sat 20 µg/plate ABCHA6 45,327,81

mno-sat 100 µmol/L AMACQ 9,77,76

dnr-sat 10 pph AGACBH 4,286,74

mno-esc 2 µmol/L MUREAV 137,1,84

mrc-smc 10 pph AGACBH 4,286,74

unr-inf TDLo:15 mg/kg:PUL,BLD 34ZIAG -,390,69

orl-rat LD50:1180 mg/kg MarJ V# 29MAR77

ipr-rat LD50:180 mg/kg AEPPAE 204,288,47

ivn-rat LD50:1250 mg/kg ARZNAD 18,678,68

orl-mus LD50:3500 mg/kg CKFRAY 12,94,63

ipr-mus LD50:150 mg/kg NTIS** AD691-490
 ivn-mus LD50:77 mg/kg CKFRAY 12,94,63
 orl-dog LDLo:500 mg/kg HBAMAK 4,1366,35
 ivn-dog LDLo:50 mg/kg HBAMAK 4,1366,35
 ivn-mky LDLo:10 mg/kg HBAMAK 4,1366,35

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

SAFETY PROFILE: Poison by ingestion, intraperitoneal, intravenous, and subcutaneous routes. Human systemic effects: cyanosis, blood changes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and Cl⁻.

BJI750 CAS: 52673-66-2 HR: 3
1,3-BIS(2-DIMETHYLAMINOPROPYL)
ADAMANTANE DIHYDROCHLORIDE

mf: C₂₀H₃₈N₂•2ClH mw: 379.52

TOXICITY DATA with REFERENCE:

orl-mus LD50:1200 mg/kg JMC MAR 17,602,74
 ipr-mus LD50:75 mg/kg JMC MAR 17,602,74

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

BJJ000 CAS: 62778-13-6 HR: 3
N,N'-BIS(3-DIMETHYLAMINOPROPYL)
DITHIOOXAMIDE

mf: C₁₂H₂₆N₄S₂ mw: 290.54

SYN: USAF MK-43

TOXICITY DATA with REFERENCE:

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BJJ125 CAS: 3768-60-3 HR: 3
BIS(DIMETHYLAMINO)SULFOXIDE

mf: C₄H₁₂N₂OS mw: 136.21
 (CH₃)₂NS(:O)N(CH₃)₂

SAFETY PROFILE: Violent reaction with sulfinyl chloride; becomes explosive above 90°C. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

BJJ200 CAS: 63382-64-9 HR: 3
BIS(DIMETHYLARSINYLDIAZOMETHYL)-
MERCURY

mf: C₆H₁₂As₂HgN₄ mw: 589.62
 ((CH₃)₂AsCN₂)₂Hg

PROP: IDLH 10 mg/m³ (as Hg).

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

SAFETY PROFILE: An explosive. When heated to decomposition it emits toxic fumes of As, Hg, and NO_x. See also MERCURY COMPOUNDS and ARSENIC COMPOUNDS.

BJJ250 CAS: 503-80-0 HR: 3
BIS-DIMETHYL ARSINYL OXIDE
 mf: C₄H₁₂As₂O mw: 225.9
 ((CH₃)₂As)₂O

PROP: Liquid. D: 1.486 @ 15 mm, mp: -25°, bp: 149–151°. Sol in EtOH, Et₂O. Sltly sol in H₂O.

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.

BJJ500 CAS: 591-10-6 HR: 3
BIS-DIMETHYL ARSINYL SULFIDE
 mf: C₄H₁₂As₂S mw: 242
 ((CH₃)₂As)₂S

PROP: Bp: 211–220°. Sol in EtOH, Et₂O; sltly sol in H₂O.

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 SO_x and As. See also ARSENIC COMPOUNDS and SULFIDES.

BJJ750 CAS: 69402-04-6 HR: 1
1,2-BIS(3,7-DIMETHYL-5-n-BUTOXY-1-AZA-5-
BORA-4,6-DIOXOCYCLOOCTYL)ETHANE

mf: C₂₆H₄₆B₂N₂O₆ mw: 504.36

SYN: 1,1'-ETHYLENEBIS(5-BUTOXY-3,7-DIMETHYL-1,5-AZABOROCINE-4,6-DIONE)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg IHFCAY 6,1,67
 eye-rbt 100 mg IHFCAY 6,1,67
 orl-rat LD50:5660 mg/kg IHFCAY 6,1,67

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

BJK000 CAS: 60605-72-3 HR: D
BIS(DIMETHYLCARBAMODITHIOATO)((1,2-
ETHANEDIYLBIS(CARBAMODITHIOATO))-
(2-)) DIZINC

mf: C₁₀H₁₈N₄S₈Zn₂ mw: 581.54

SYNS: BISDITHANE □ DIZINC BIS(DIMETHYLDITHIO CARBAMATE) ETHYLENEBIS(DITHIOCARBAMATE) □ POLYCARBAMATE

TOXICITY DATA with REFERENCE:

mmo-sat 50 µg/plate MUREAV 116,185,83
 mrc-bcs 4 µg/disc/24H MUREAV 40,19,76

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

SAFETY PROFILE: Mutation data reported. See also ZINC COMPOUNDS and CARBAMATES. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

BJK250 CAS: 15521-65-0 HR: 3
BIS(DIMETHYLDITHIOCARBAMATO)NICKEL
 mf: C₆H₁₂N₂S₄•Ni mw: 299.15

TOXICITY DATA with REFERENCE:

orl-rat LD50:17 g/kg RCTEA4 45(3),627,72
orl-mus LD50:5200 mg/kg JPIFAN (3),10,70

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

SAFETY PROFILE: Confirmed human carcinogen. Mildly toxic by ingestion. See also NICKEL COMPOUNDS and CARBAMATES. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

BJK500 CAS: 137-30-4 HR: 3
BIS(DIMETHYLDITHIOCARBAMATO)ZINC

mf: C₆H₁₂N₂S₄•Zn mw: 305.81

PROP: White powder. Mp: 248–250°, d: 1.65 @ 20°/20°.

SYNS: AAPROTECT □ AAVOLEX □ AAZIRA □ ACCELERATOR L □ ACETO ZDED □ ACETO ZDMD □ ALCOBAM ZM □ AMYL ZIMATE □ ANTENE □ BIS(DIMETHYLCARBAMODITHIOATO-S,S')ZINC □ BIS(DIMETHYLDITHIOCARBAMATE de ZINC) (FRENCH) □ BIS(N,N-DIMETHYLDITHIOCARBAMATO) DI ZINCO (ITALIAN) □ CARBAMIC ACID, DIMETHYLDITHIO-, ZINC SALT (2:1) □ CARBAZINC □ CIRAM □ CORONA COROZATE □ COROZATE □ CUMAN □ CUMAN L □ CYMATE □ DIMETHYL CARBAMODITHIOIC ACID, ZINC COMPLEX □ DIMETHYL CARBAMODITHIOIC ACID, ZINC SALT □ DIMETHYL DITHIOCARBAMATE ZINC SALT □ DIMETHYL DITHIO CARBAMIC ACID, ZINC SALT □ DRUPINA 90 □ ENT 988 □ EPTAC 1 □ FUCLASIN □ FUCLASIN ULTRA □ FUKLASIN □ FUNGOSTOP □ HERMAT ZDM □ HEXAZIR □ KARBAM WHITE □ METHASAN □ METHAZATE □ METHYL ZIMATE □ METHYL ZINEB □ METHYL ZIRAM □ MEXENE □ MEZENE □ MILBAM □ MILBAN □ MOLURAME □ MYCRONIL □ NCI-C50442 □ ORCHARD BRAND ZIRAM □ POMARSOL Z FORTE □ PROD ARAM □ RHODIACID □ SOXINAL PZ □ SOXINOL PZ □ TRICARBAMIX Z □ TSIMAT □ TSIRAM (RUSSIAN) □ USAF P-2 □ VANCIDE MZ-96 □ ZERLATE □ ZIMATE □ ZIMATE METHYL □ ZINC BIS(DIMETHYLDITHIOCARBAMATE) □ ZINC BIS(DIMETHYLDITHIOCARBAMOYL)DISULPHIDE □ ZINC DIMETHYLDITHIOCARBAMATE □ ZINC N,N-DIMETHYL DITHIOCARBAMATE □ ZINCIMATE □ ZINK-BIS(N,N-DIMETHYL-DITHIOCARBAMAT) (DUTCH) □ ZINK-BIS(N,N-DIMETHYL-DITHIOCARBAMAT) (GERMAN) □ ZINK CARBAMATE □ ZINK-(N,N-DIMETHYL-DITHIO CARBAMAT) (GERMAN) □ ZIRAM □ ZIRAMVIS □ ZIRASAN □ ZIRBERK □ ZIREX 90 □ ZIRIDE □ ZIRTHANE □ ZITOX

TOXICITY DATA with REFERENCE:

mno-sat 5 µg/plate MUREAV 68,313,79
cyt-hmn:lym 10 nmol/L TXCYAC 4,331,75
orl-rat LD50:267 mg/kg EPASR* 8EHQ-1090-1045
ihl-rat LC50:81 mg/m³/4H EPASR* 8EHQ-1090-1045
skn-rat LD50:>6 g/kg FMCHA2 -,C329,91
ipr-rat LD50:23 mg/kg JAPMA8 41,662,52
ivn-mus LD50:18 mg/kg CSLNX* NX#04886

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 12,259,76; NTP Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NTPTR* NTP-TR-238,83. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory. Zinc and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. Moderately toxic by inhalation. Questionable carcinogen with experimental carcinogenic and tumorigenic data. An experimental teratogen. Other experimental reproductive effects. Human mutation data reported. See also ZINC COMPOUNDS and CARBAMATES. Severe irritant to eyes, nose, and throat. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

BJK525 CAS: 68525-41-7 HR: 2
(R*,S*)-1,1'-(1,2-BIS(1,1-DIMETHYLETHYL)-1,2-ETHANEDIYL)BIS(4-CHLOROBENZENE)

mf: C₂₂H₂₈Cl₂ mw: 363.40

SYN: BENZENE, 1,1'-(1,2-BIS(1,1-DIMETHYLETHYL)-1,2-ETHANEDIYL)BIS(4-CHLORO-, (R*,S*)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:>500 mg/kg JAFCAU 26,954,1978

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

BJK550 CAS: 36443-68-2 HR: 2
3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXY-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER BENZENEPROPANOIC ACID

mf: C₃₄H₅₀O₈ mw: 586.84

SYN: TK 12627

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BJK600 CAS: 80387-97-9 HR: D
((3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXY PHENYL)METHYL)THIO)ACETIC ACID 2-ETHYL HEXYL ESTER

mf: C₂₅H₄₂O₃S mw: 422.73

SYN: ACETIC ACID, (((3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYPHENYL)METHYL)THIO)-, 2-ETHYLHEXYL ESTER

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x.

BJK580 CAS: 71712-04-4 HR: 2
2,4-BIS(1,1-DIMETHYLETHYL)-6-(1-(4-METHOXY PHENYL)ETHYL)PHENOL

mf: C₂₃H₃₂O₂ mw: 340.55

SYNS: PHENOL, 2,4-BIS(1,1-DIMETHYLETHYL)-6-(1-(4-METHOXYPHENYL)ETHYL)- □ 4,6-DI-T-BUTYL-2-(α-METHYL-4-METHOXYBENZYL)PHENOL

TOXICITY DATA with REFERENCE:

orl-mus LD50:3550 mg/kg USXXAM #4342777

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

BJK650 CAS: 63428-98-8 HR: 2

2,4-BIS(1,1-DIMETHYLETHYL)-6-(1-PHENYLETHYL)PHENOLmf: C₂₂H₃₀O mw: 310.52**SYNS:** A13-70736 □ PHENOL, 2,4-BIS(1,1-DIMETHYLETHYL)-6-(1-PHENYLETHYL)-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:2510 mg/kg JAFCAU 27,1007,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**BJK660 CAS: 51308-76-0 HR: 2
BIS((4-(1,1-DIMETHYLETHYL)PHENYL)-METHYL) 3-PYRIDINYLCARBONIMIDODITHIOATE**mf: C₂₈H₃₄N₂S₂ mw: 462.76**SYN:** CARBONIMIDODITHIOIC ACID, 3-PYRIDINYL-, BIS((4-(1,1-DIMETHYLETHYL)PHENYL)METHYL) ESTER**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>1 g/kg USXXAM #3899582

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**BJK670 CAS: 71108-02-6 HR: 3
BIS((5,5-DIMETHYL-2-ISOPROPYLIMINO-4-(O-(N-METHYLCARBAMOYL)OXIMINO)-1,3-DITHIOL ANE))SULFIDE**mf: C₂₀H₃₂N₆O₄S₅ mw: 580.88**SYN:** 1,3-DITHIOLAN-4-ONE, 5,5-DIMETHYL-2-((1-METHYLETHYL)IMINO)-, o, o'-(THIOBIS((METHYLIMINO)CARBONYL))DIOXIME**TOXICITY DATA with REFERENCE:**

orl-rat LD50:113 mg/kg USXXAM #4156731

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**BJK750 CAS: 4636-83-3 HR: 3
1,1'-BIS(3,5-DIMETHYLMORPHOLINOCARBONYLMETHYL)-4,4'-BIPYRIDINIUM DICHLORIDE**mf: C₂₆H₃₆N₄O₄•2Cl mw: 539.56**SYNS:** 1,1'-BIS(3,5-DIMETHYLMORPHOLINOCARBONYLMETHYL)-4,4'-BIPYRIDINIUM-DICHLORID (GERMAN) □ 1,1'-BIS(2-(3,5-DIMETHYL-4-MORPHOLINYL)-2-OXOETHYL)-4,4'-BIPYRIDINIUM DICHLORIDE □ CEROXONE □ MORFAMQUAT □ MORFOXONE □ MORPHANQUAT DICHLORIDE □ PP 745**TOXICITY DATA with REFERENCE:**

orl-rat LD50:345 mg/kg GUHAZ 6,367,73

orl-mus LD50:325 mg/kg 28ZEAL 5,158,76

orl-cat LD50:160 mg/kg 28ZEAL 5,158,76

orl-ckn LD50:367 mg/kg 31ZOAD 1,311,68

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.**BJK780 CAS: 32613-12-0 HR: 3
1,1'-BIS(DIMETHYLOCTOXY-SILYL)-****FERROCENE**mf: C₃₀H₅₄FeO₂Si₂ mw: 558.87**SYNS:** 1,1'-BIS(DIMETHYL(OCTYLOXY)SILYL)FERROCENE □ FERROCENE, 1,1'-BIS(DIMETHYL(OCTYLOXY)SILYL)-**TOXICITY DATA with REFERENCE:**

orl-rat LD :>15 g/kg STGNBT-,27,1999

ihl-rat LC :>2300 µg/m³ STGNBT-,27,1999

orl-mus LD :>15 g/kg STGNBT-,27,1999

SAFETY PROFILE: A poison by inhalation. Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**BJL000 CAS: 3081-14-9 HR: 2
N,N'-BIS(1,4-DIMETHYLPENTYL)-p-PHENYLENE DIAMINE**mf: C₂₀H₃₆N₂ mw: 304.58**SYNS:** N,N-DI(1,4-DIMETHYLPENTYL)-p-PHENYLDIAMINE □ EASTOZONE □ EASTOZONE 33 □ NCI-C56337 □ SANTOFLEX 77 □ TENAMENE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:750 mg/kg 85GMAT -,59,82

ipr-rat LDLo:800 mg/kg RCTEA4 45,627,72

orl-mus LD50:800 mg/kg IPSTB3 3,93,76

ipr-mus LDLo:400 mg/kg RCTEA4 45,627,72

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.**BJL100 CAS: 73289-27-7 HR: D
cis-BIS(3,5-DIMETHYLPYRIDINE)DICHLOROPLATINUM**mf: C₁₄H₁₈Cl₂N₂Pt mw: 480.33**PROP:** IDLH 4 mg/m³ (as Pt).**SYN:** PLATINUM, BIS(3,5-DIMETHYLPYRIDINE)DICHLORO-, cis-, (SP-4-1)-**TOXICITY DATA with REFERENCE:**

mic-sat 600 µLg/plate TECSDY 8,1,1984

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, Pt, and Cl⁻.**BJL250 HR: 3
BISDIMETHYL STIBINYL OXIDE**mf: C₄H₁₂OSb₂ mw: 319.6**CONSENSUS REPORTS:** Antimony and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Antimony compounds are generally highly toxic. Ignites spontaneously in air. When heated to decomposition it emits acrid smoke and fumes. See also ANTIMONY COMPOUNDS.**BJL500 HR: 3
BIS(DIMETHYL THALLIUM)ACETYLIDE**mf: C₆H₁₂Tl₂ mw: 492.90**PROP:** IDLH 15 mg/m³ (as Tl).**CONSENSUS REPORTS:** Thallium and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: An extremely heat- and friction-sensitive explosive. When heated to decomposition it

emits acrid smoke and fumes. See also THALLIUM COMPOUNDS and ACETYLIDES.

BJL600 CAS: 97-74-5 HR: 3
BIS(DIMETHYLTHIOCARBAMOYL)SULFIDE

mf: $C_6H_{12}N_2S_3$ mw: 208.38

PROP: Yellow crystals from EtOH. Mp: 104°. Very sol in EtOH, $CHCl_3$; sltly sol in cold Et_2O .

SYNS: ACETO TMTM □ BIS(DIMETHYLTHIOCARBAMYL) MONOSULFIDE □ CARBAMIC ACID, DIMETHYLDITHIO-, ANHYDROSULFIDE □ MONEX □ MONO-THIURAD □ MONOTHIURAM □ PENNAC MS □ TETRAMETHYL THIURAMMONIUM SULFIDE □ TETRAMETHYLTHIURAM MONOSULFIDE □ TETRAMETHYLTHIURAM SULFIDE □ TETRAMETHYLTRITHIO CARBAMIC ANHYDRIDE □ 1,1'-THIOBIS(N,N-DIMETHYLTHIO)FORMAMIDE □ THIONEX □ THIONEX RUBBER ACCELERATOR □ TMTM □ TMTMS □ UNADS □ USAF B-32 □ USAF EK-P-6255 □ VULKACIT THIURAM MS/C

TOXICITY DATA with REFERENCE:

mno-sat 100 µg/plate MUREAV 68,313,79
 sce-ham:ovr 100 nmol/L SWEHDO 9(Suppl 2),27,83
 ipr-rat LD50:383 mg/kg JNPAG 9,35,78
 orl-mus LD50:818 mg/kg ENVRAL 28(1),199,82
 ipr-mus LD50:300 mg/kg NTIS** AD277-689
 orl-dog LDLo:100 mg/kg RCTEA4 44,513,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. An experimental teratogen. When heated to decomposition it emits very toxic fumes of NO_x and SO_x . See also SULFIDES.

BJM250 CAS: 58451-85-7 HR: 2
2,6-BIS(DIPHENYLHYDROXYMETHYL)-PIPERIDINE

mf: $C_{31}H_{31}NO_2$ mw: 449.63

TOXICITY DATA with REFERENCE:

orl-mus LD50:5000 mg/kg PJPPAA 27,549,75
 ipr-mus LD50:2000 mg/kg PJPPAA 27,549,75

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

BJM500 CAS: 58451-82-4 HR: 2
2,6-BIS(DIPHENYLHYDROXYMETHYL)-PYRIDINE

mf: $C_{31}H_{25}NO_2$ mw: 443.57

TOXICITY DATA with REFERENCE:

orl-mus LD50:5000 mg/kg PJPPAA 27,549,75
 ipr-mus LD50:3000 mg/kg PJPPAA 27,549,75

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

BJM625 HR: 3
3-(BIS(3,3-DIPHENYLPROPYL)AMINO)PROPANE-1-OL

mf: $C_{33}H_{37}NO$ mw: 463.71

SYN: 3-(BIS(3,3-DIPHENYLPROPYL)AMINO)-1-PROPANOL

TOXICITY DATA with REFERENCE:

ipr-rat LD50:167 mg/kg ARZNAD 25,632,75
 ivn-rat LD50:40,300 µg/kg ARZNAD 25,632,75
 ipr-mus LD50:129 mg/kg ARZNAD 25,632,75
 ivn-mus LD50:30,200 µg/kg ARZNAD 25,632,75

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

BJM650 CAS: 63956-71-8 HR: 2
N,N'-BIS-(1,4-DITHIANE-2-o-(N-METHYL CARBAMOYL)OXIMINO)SULFIDE

mf: $C_{12}H_{18}N_4O_4S_5$ mw: 442.64

SYN: 1,4-DITHIAN-2-ONE, o, o'-(THIOBIS((METHYLIMINO)CARBONYL))DIOXIME

TOXICITY DATA with REFERENCE:

orl-rat LD50:>640 mg/kg USXXAM #4382957

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

BJM700 CAS: 38998-91-3 HR: 3
BIS(1,3-DITHIOCYANATO-1,1,3,3-TETRABUTYL DISTANNOXANE)

mf: $C_{36}H_{72}N_4O_2S_4Sn_4$ mw: 1196.12

SYNS: DISTANNOXANE, BIS(1,3-DITHIOCYANATO-1,1,3,3-TETRABUTYL)- □ DI-µ-(THIOCYANATODI-n-BUTYL STANNYLOXO)BIS(THIOCYANATODI-n-BUTYL TIN)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#03006

OSHA PEL: TWA 0.1 mg(Sn)/m³

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)

NIOSH REL: 10H TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BJM750 CAS: 10171-76-3 HR: 3
BIS(2,5-ENDOMETHYLENECYCLOHEXYL-METHYL)AMINE

mf: $C_{16}H_{27}N$ mw: 233.44

TOXICITY DATA with REFERENCE:

skn-rbt 100 µg/24H open AIHAAP 23,95,62
 orl-rat LD50:1410 mg/kg AIHAAP 23,95,62
 skn-rbt LD50:110 mg/kg AIHAAP 23,95,62

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

BJN000 CAS: 10580-77-5 HR: 3
BIS(3,4-EPOXYBUTYL) ETHER

mf: $C_8H_{14}O_3$ mw: 158.22

TOXICITY DATA with REFERENCE:

orl-rat LD50:1070 mg/kg AIHAAP 30,470,69
 skn-rbt LD50:250 mg/kg AIHAAP 30,470,69

SAFETY PROFILE: Poison by skin contact. Moderately toxic by ingestion. See also ETHERS. When heated to decomposition it emits acrid smoke and fumes.

BJN100 CAS: 3130-19-6 HR: 1
BIS((3,4-EPOXYCYCLOHEXYL)METHYL)-ADIPATE

mf: $C_{20}H_{30}O_6$ mw: 366.50

SYN: HEXANEDIOIC ACID, BIS(7-OXABICYCLO(4.1.0)HEPT-3-YLMETHYL) ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:4390 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BJN250 CAS: 2386-90-5 HR: 2
BIS(2,3-EPOXYCYCLOPENTYL) ETHER

mf: $C_{10}H_{14}O_3$ mw: 182.24

SYNS: EP-205 □ ERR 4205 □ 2,2'-OXYBIS-6-OXABICYCLO-(3.1.0)HEXANE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 12/13/63

mno-sat 5700 µg/plate CIHPDR 6,210,84

mma-sat 5700 µg/plate CIHPDR 6,210,84

sce-hmn:lym 50 mg/L CIHPDR 6,210,84

mnt-mus-orl 1 g/kg CIHPDR 6,210,84

skn-mus TD:312 g/kg/2Y-I:NEO,REP CNREA8 39,1718,79

orl-rat LDLo:2140 mg/kg AIHAAP 23,95,62

skn-mus LDLo:2000 mg/kg NTIS** ORNL-5375

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

SAFETY PROFILE: Moderately toxic by ingestion. A systemic irritant by skin contact and ingestion. Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic and neoplastigenic data. See also ETHERS. When heated to decomposition it emits acrid smoke and irritating fumes.

BJN500 CAS: 7487-28-7 HR: 2
BIS(2,3-EPOXY-2-METHYLPROPYL)ETHER

mf: $C_8H_{14}O_3$ mw: 158.22

SYN: BIS(2-METHYLGlyCIDYL) ETHER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 4/21/67

orl-rat LD50:1680 mg/kg AIHAAP 24,305,63

skn-rbt LD50:1250 mg/kg UCDS** 4/21/67

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

BJN750 CAS: 10043-09-1 HR: 2
2,3-BIS(2,3-EPOXYPROPOXY)-1,4-DIOXANE

mf: $C_{10}H_{16}O_6$ mw: 232.26

SYN: 2,3-BIS(GLYCIDYLOXY)-1,4-DIOXANE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1070 mg/kg AIHAAP 24,305,63

skn-rbt LD50:1590 mg/kg AIHAAP 23,95,62

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

BJN850 CAS: 63951-08-6 HR: 2
N,N-BIS(2-(2,3-EPOXYPROPOXY)ETHOXY)-ANILINE

mf: $C_{16}H_{23}NO_6$ mw: 325.40

SYNS: ANILINE, N,N-BIS(2-(2,3-EPOXYPROPOXY)ETHOXY)- □ DIGLYCIDYL ETHER of N,N-BIS(2-HYDROXYETHOXYETHYL)ANILINE

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

BJN875 CAS: 7329-29-5 HR: 2
N,N-BIS(2-(2,3-EPOXYPROPOXY)ETHYL)-ANILINE

mf: $C_{16}H_{23}NO_4$ mw: 293.40

SYNS: ANILINE, N,N-BIS(2-(2,3-EPOXYPROPOXY)ETHYL)- □ DIGLYCIDYL ETHER of PHENYLDIETHANOLAMINE

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

BJO000 CAS: 13561-08-5 HR: 2
BIS(2,6-(2,3-EPOXYPROPYL))PHENYL GLYCIDYL ETHER

mf: $C_{15}H_{18}O_4$ mw: 262.33

SYN: 2,6-BIS(2,3-EPOXYPROPYL)PHENYL-2,3-EPOXYPROPYLETHER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD SCCUR* -,2,61

orl-rat LD50:1620 µL/kg TXAPA9 28,313,74

skn-rbt LD50:2520 µL/kg TXAPA9 28,313,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BJO050 CAS: 36407-48-4 HR: 2
BIS(ETHANE-1,2-DIAMINE)COPPER(2+) DIPERCHLORATE

mf: $C_4H_{16}CuN_4 \cdot 2ClO_4$ mw: 382.68

SYNS: COPPER(2+), BIS(1,2-ETHANEDIAMINE-KAPPAN,KAPPAN)-, (SP-4-1)-, DIPERCHLORATE □ (SP-4-1)-BIS(1,2-ETHANEDIAMINE-KAPPAN,KAPPAN)COPPER(2+) □ BIS(ETHYLENEDIAMINE)COPPER(2+) DIPERCHLORATE □ COPPER(2+), BIS(1,2-ETHANEDIAMINE-N,N')-, (SP-4-1)-, DIPERCHLORATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:970 mg/kg STGNBT-,162,1999

ihl-rat LC50:345 mg/m³ STGNBT-,162,1999

orl-mus LD50:444 mg/kg STGNBT-,162,1999

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

BJO075 CAS: 25724-60-1 HR: 2
BIS(2-(2-ETHOXYBUTOXY)ETHYL) SUCCINIC ACID ESTER

mf: C₂₀H₃₈O₆ mw: 374.58**TOXICITY DATA with REFERENCE:**

orl-rat LD50:3300 mg/kg JIDHAN 30,63,48

skn-rbt LD50:7110 µL/kg AIHAAP 30,470,69

SAFETY PROFILE: Moderately toxic by ingestion.

Low toxicity by skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

**BJO125 CAS: 20539-85-9 HR: 3
BIS(ETHOXYCARBONYLDIAZOMETHYL)-
MERCURY**mf: C₈H₁₀HgN₄O₄ mw: 426.78
(CH₃CH₂CO•CN)₂Hg**PROP:** IDLH 10 mg/m³ (as Hg).**CONSENSUS REPORTS:** Mercury and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** An impact-sensitive explosive which decomposes at its mp: 104°C. When heated to decomposition it emits toxic fumes of NO_x and Hg. See also MERCURY COMPOUNDS.**BJO225 CAS: 109-44-4 HR: 2
BIS(2-ETHOXYETHYL) ADIPATE**mf: C₁₄H₂₆O₆ mw: 290.40**SYNS:** ADIPIC ACID, BIS(2-ETHOXYETHYL) ESTER □ DIETHOXY ETHYL ADIPATE □ HEXANOIC ACID, BIS(2-ETHOXYETHYL) ESTER**TOXICITY DATA with REFERENCE:**

skn-man 50 mg/24H MLD CTOIDG 94(8),41,79

skn-rat 100 mg/24H MLD CTOIDG 94(8),41,79

skn-rbt 100 mg/24H SEV CTOIDG 94(8),41,79

skn-gpg 100 mg/24H MLD CTOIDG 94(8),41,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A severe skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**BJO250 CAS: 67856-66-0 HR: 2
BIS(2-ETHOXYETHYL)NITROSOAMINE**mf: C₈H₁₈N₂O mw: 158.28**SYN:** N-NITROSOBIS(2-ETHOXYETHYL)AMINE**TOXICITY DATA with REFERENCE:**

mma-sat 50 µg/plate MUREAV 66,1,79

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported.When heated to decomposition it emits highly toxic fumes of NO_x. See also NITROSAMINES.**BJO500 CAS: 101-93-9 HR: 3
N,N'-BIS(p-ETHOXYPHENYL)ACETAMIDINE**mf: C₁₈H₂₂N₂O₂ mw: 298.42**PROP:** Solid. Mp: 117°.**SYNS:** N',N²-BIS(p-ETHOXYPHENYL)ACETAMIDINE □ N,N'-BIS(4-ETHOXYPHENYL)ETHANIMIDAMIDE □ FENACAINE □ HOLOCAINE □ PHENACAINE □ TANICAINE**TOXICITY DATA with REFERENCE:**

ivn-cat LDLo:10 mg/kg PHREA7 12,190,32

unr-rbt LDLo:5 mg/kg HBAMAK 4,1289,35

ipr-gpg LDLo:50 mg/kg PHREA7 12,190,32

scu-gpg LDLo:53 mg/kg PHREA7 12,190,32

ivn-gpg LDLo:15 mg/kg PHREA7 12,190,32

SAFETY PROFILE: Poison by subcutaneous and possibly other routes. When heated to decomposition it emits toxic fumes of NO_x.**BJP000 CAS: 122-34-9 HR: 3
2,4-BIS(ETHYLAMINO)-6-CHLORO-s-TRIAZINE**mf: C₇H₁₂ClN₃ mw: 201.69**PROP:** Crystals. Mp: 228–229°.**SYNS:** AKTINIT S □ AQUAZINE □ BATAZINA □ 2,4-BIS(AETHYLAMINO)-6-CHLOR-1,3,5-TRIAZIN (GERMAN) □ BITEMOL □ BITEMOL S 50 □ CAT (herbicide) □ CDT □ CEKUSAN □ CEKUZINA-S □ CET □ 1-CHLORO-3,5-BISETHYL-AMINO-2,4,6-TRIAZINE □ 2-CHLORO-4,6-BIS(ETHYLAMINO)-s-TRIAZINE □ 2-CHLORO-4,6-BIS(ETHYLAMINO)-1,3,5-TRIAZINE □ FRAMED □ GEIGY 27,692 □ GESARAN □ GESATOP □ HERBAZIN □ HERBEX □ HERBOXY □ HUNGAZIN DT □ PREMAZINE □ PRIMATOL S □ RADOCON □ RADOKOR □ SIMANEX □ SIMAZIN □ SIMAZINE (USDA) □ SIMAZINE 80W □ TAFAZINE □ TAPHAZINE □ ZEAPUR**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD CIGET* -,77

eye-rbt 80 mg MOD CIGET* -,77

sln-dmg-orl 2000 ppm JPFCD2 15,867,80

dlt-dmg-orl 6000 ppm JTEHD6 3,691,77

orl-rat LD50:971 mg/kg FAATDF 7,299,86

ihl-rat LC50:9800 mg/m³/1H FMCHA2 -,C261,89

orl-mus LDLo:5 g/kg GISAAA 27(8),22,62

ivn-mus LD50:100 mg/kg CSLNX* NX#04003

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. An experimental teratogen. Other experimental reproductive effects. A skin and eye irritant. Mutation data reported. May cause weight loss and reduced red blood cell count. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.**BJP250 CAS: 673-04-1 HR: 3
2,4-BIS(ETHYLAMINO)-6-METHOXY-s-TRIAZINE**mf: C₈H₁₅N₅O mw: 197.28**SYNS:** 4,6-BIS(ETHYLAMINO)-2-METHOXY-s-TRIAZINE □ GEIGY 30,044 □ GESADURAL □ 2-METHOXY-4,6-BIS(ETHYL-AMINO)-s-TRIAZINE □ METHOXY SIMAZINE □ PIMETON □ SIMETON □ SIMETONE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:180 mg/kg CSLNX* NX#03978

orl-rat LD50:535 mg/kg RREVAH 10,97,65

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.**BJP300 CAS: 53213-78-8 HR: 3
1,2-BIS(ETHYLAMMONIO)ETHANE
PERCHLORATE**mf: C₆H₁₈Cl₂N₂O₈ mw: 317.12**SAFETY PROFILE:** An impact-sensitive mild explosive. When heated to decomposition it emits toxic fumes of NO_x, Cl⁻, and NH₃. See also PERCHLORATES.

BJP325 CAS: 64693-33-0 HR: D
N,N'-BIS(ETHYLENE)-p-(1-ADAMANTYL)-
PHOSPHONIC DIAMIDE

mf: $C_{14}H_{23}N_2OP$ mw: 266.36

SYNS: P,P-BIS(1-AZIRIDINYL)-p-(1-ADAMANTYL)-PHOSPHINE
 OXIDE □ 1,1'-(TRICYCLO(3.3.2.2^{3,7}))DEC-1-
 YLPHOSPHINYLDENE)BIS-AZIRIDINE

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

BJP425 CAS: 29471-80-5 HR: 3
BIS(ETHYLENEDIAMINE)(MERCURICTETRA-
THIOCYANATO)COPPER

mf: $(C_4H_{16}CuN_4 \cdot C_4HgN_4S_4)_x$

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

SYNS: COPPER, BIS(ETHYLENEDIAMINE)(MERCURICTETRA-
 THIOCYANATO)- □ COPPER(2+), BIS(ETHYLENEDIAMINE)-,
 TETRAKIS(THIOCYANATO)MERCURATE(2-), POLYMERS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:26,100 $\mu g/kg$ IJEBA6 19,1187,81

ACGIH TLV: TWA 0.1 mg(Hg)/ m^3 (skin); BEI: 35 $\mu g/g$
 creatinine total inorganic mercury in urine preshift; 15
 $\mu g/g$ creatinine total inorganic mercury in blood at end of
 shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with
 Unknown Relevance to Humans

NIOSH REL: (Organomercury): TWA 0.01 mg/ m^3 ;
 STEL 0.03 mg/ m^3 (skin)

SAFETY PROFILE: Poison by intraperitoneal route.
 When heated to decomposition it emits toxic fumes of
 NO_x , SO_x , Hg, and Cl^- .

BJP450 CAS: 1192-75-2 HR: 3
BISETHYLENEUREA

mf: $C_5H_8N_2O$ mw: 112.15

SYNS: AZIRIDINE, 1,1'-CARBONYLBIS- □ BIS(1-AZIRIDINYL)
 KETONE □ CARBONYLBIS(AZIRIDINE) □ CARBONYLBIS(1-
 AZIRIDINE) □ DIETHYLENEUREA □ N,N'-DIETHYLENEUREA

TOXICITY DATA with REFERENCE:

ipr-rat LD50:5800 $\mu g/kg$ BJPCAL 25,223,65

ipr-mus LD50:8500 $\mu g/kg$ BJPCAL 25,223,65

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 .

BJP500 CAS: 6708-69-6 HR: 3
2,6-BIS(ETHYLEN-IMINO)-4-AMINO-s-TRIAZINE

mf: $C_7H_{10}N_6$ mw: 178.23

TOXICITY DATA with REFERENCE:

ipr-rat LD50:700 $\mu g/kg$ JPETAB 100,398,50

ipr-mus LD50:1800 $\mu g/kg$ JPETAB 100,398,50

ivn-dog LDLo:400 $\mu g/kg$ JPETAB 100,398,50

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

BJP899 CAS: 19218-16-7 HR: 2
1,3-BIS(ETHYLENIMINOSULFONYL)PROPANE

mf: $C_7H_{14}N_2O_4S_2$ mw: 254.35

SYNS: BEP □ ω,ω' -BIS-

(ETHYLENEIMINOSULFONYL)PROPANE □ 1,3-
 DI(ETHYLENESULPHAMOYL)PROPANE

TOXICITY DATA with REFERENCE:

oms-rat-ipr 4 mg/kg BJPCAL 6,357,51

cyt-rat-ipr 4 mg/kg BJPCAL 6,357,51

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

BJQ250 CAS: 2781-10-4 HR: 3
BIS(2-ETHYLHEXANOYLOXY)DIBUTYL
STANNANE

mf: $C_{24}H_{48}O_4Sn$ mw: 519.41

SYNS: DIBUTYLBIS((2-ETHYLHEXANOYL)OXY)-STANNANE

□ DIBUTYLBIS((2-ETHYL-1-OXOHEXYL)OXY)-STANNANE

(9CI) □ DIBUTYLTIN BIS(α -ETHYLHEXANOATE) □ DIBUTYL-

TIN BIS(2-ETHYLHEXANOATE) □ DIBUTYLTIN DI(2-ETHYL-

HEXANOATE) □ DI-n-BUTYLTIN DI-2-ETHYLHEXANOATE □

DIBUTYLTIN DI(2-ETHYLHEXOATE)

TOXICITY DATA with REFERENCE:

orl-rat LD50:200 mg/kg JPMSAE 56,240,67

orl-mus LD50:200 mg/kg JPMSAE 56,240,67

ivn-mus LD50:178 mg/kg CSLNX* NX#00178

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 ingestion and
 intravenous routes. See also TIN COMPOUNDS. When
 heated to decomposition it emits acrid smoke and
 irritating fumes.

ANALYTICAL METHOD: For occupational chemical
 analysis use NIOSH: Organotin Compounds 5504.

BJQ500 CAS: 103-24-2 HR: 2
BIS(2-ETHYLHEXYL) AZELATE

mf: $C_{25}H_{48}O_4$ mw: 412.73

SYNS: AZELAIC ACID DI(2-ETHYLHEXYL)ESTER □ DIOCTYL

AZELATE □ PLASTOLEIN 9058 □ PLASTOLEIN 9058 DOZ □

STAFLEX DOX □ TRUFLEX DOX

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:8720 mg/kg AIHAAP 23,95,62

ivn-rat LD50:1060 mg/kg MRLR** No. 256,54

skn-rbt LD50:20 g/kg AIHAAP 23,95,62

ivn-rbt LD50:640 mg/kg MRLR** No. 256,54

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

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

BJQ709 CAS: 3658-48-8 HR: 3
BIS(2-ETHYLHEXYL) HYDROGEN PHOSPHITE

mf: $C_{16}H_{35}O_3P$ mw: 306.42

PROP: Liquid. D: 0.93 @ 25°/25°, bp: 148–151° @ 1 mm.

TOXICITY DATA with REFERENCE:

eye-rbt 25 mg MLD AMIHAB 18,464,58
 orl-rat LD50:11,900 mg/kg ALBRW* #OPB-3,84
 ipr-rat LD50:1500 mg/kg AMIHAB 18,464,58
 ipr-mus LD50:620 mg/kg AMIHAB 18,464,58
 skn-rbt LD50:4500 mg/kg ALBRW* #OPB-3,84
 ivn-rbt LD50:100 mg/kg AMIHAB 18,464,58
 ipr-gpg LD50:700 mg/kg AMIHAB 18,464,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. An eye irritant. When heated to decomposition it emits toxic fumes of PO_x. See also ESTERS.

BJQ750 CAS: 137-89-3 HR: 1
BIS(2-ETHYLHEXYL) ISOPHTHALATE

mf: C₂₄H₃₈O₄ mw: 390.62

SYNS: DI-2-ETHYLHEXYL ISOPHTHALATE □ DIOCTYL ISOPHTHALATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 5/17/66
 orl-rat LD50:17,300 mg/kg AIHAAP 23,95,62
 skn-rbt LD50:7940 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BJR000 CAS: 142-16-5 HR: 1
BIS(2-ETHYLHEXYL) MALEATE

mf: C₂₀H₃₆O₄ mw: 340.56

PROP: Liquid. Mp: –60°, bp: 164° @ 10 mm, flash p: 365°F, d: 0.9436 @ 20°/20°, vap d: 11.7.

SYNS: DI-(2-ETHYLHEXYL)MALEATE □ "DIOCTYL"

MALEATE □ DOM □ RC COMONOMER DOM

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD JIHTAB 31,60,49
 eye-rbt 500 mg open JIHTAB 31,60,49
 orl-rat LD50:14 g/kg JIHTAB 31,60,49
 skn-rbt LD50:15 g/kg JIHTAB 31,60,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BJR250 CAS: 15546-12-0 HR: 3
BIS((2-(ETHYL)HEXYLOXY)MALEOXYLOXY) DI (n-BUTYL)STANNANE

mf: C₃₂H₅₆O₈Sn mw: 687.57

SYNS: BIS(HYDROGEN MALEATO)DIBUTYL-TIN BIS(2-ETHYLHEXYL) ESTER □ 2-ETHYLHEXYLMALEINAN DI-N-BUTYL CINICITY (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,230,72

eye-rbt 100 mg/24H SEV 28ZPAK -,230,72

orl-rat LD50:284 mg/kg 28ZPAK -,230,72

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Poison by ingestion. A skin and eye irritant. See also TIN COMPOUNDS. When heated to decomposition it emits acrid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BJR625 CAS: 16368-97-1 HR: 3
BIS(2-ETHYLHEXYL) PHENYL PHOSPHATE

mf: C₂₂H₃₉O₄P mw: 398.58

SYNS: DAFF □ DEPP □ DI(2-ETHYLHEXYL)PHENYL PHOSPHATE

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:18 mg/m³/4H 85GMAT -,52,82
 ipr-rat LD50:1178 mg/kg GTPZAB 15(8),30,71
 orl-mus LD50:9333 mg/kg GTPZAB 15(8),30,71
 ihl-mus LC50:5 g/m³ GTPZAB 15(8),30,71
 ipr-mus LD50:473 mg/kg GTPZAB 15(8),30,71

SAFETY PROFILE: Poison by inhalation. Moderately toxic by intraperitoneal route. Mildly toxic by and ingestion. When heated to decomposition it emits toxic fumes of PO_x. See also PHOSPHATES.

BJR750 CAS: 298-07-7 HR: 3
BIS(2-ETHYLHEXYL) PHOSPHATE

mf: C₁₆H₃₅O₄P mw: 322.48

PROP: Viscous liquid. D: 0.975 @ 25 mm, bp: 155° @ 0.015 mm. Sol in C₆H₆, hexane, and 4-methyl-2-pentanone; sltly sol in H₂O.

SYNS: BIS(2-ETHYLHEXYL)HYDROGEN PHOSPHATE □ BIS(2-ETHYLHEXYL)ORTHOPHOSPHORIC ACID □ BIS(2-ETHYLHEXYL)PHOSPHORIC ACID □ DEHPA EXTRACTANT □ DI(2-ETHYLHEXYL)PHOSPHATE □ DI-2(ETHYLHEXYL)PHOSPHORIC ACID □ DI-(2-ETHYLHEXYL)PHOSPHORIC ACID (DOT) □ 2-ETHYL-1-HEXANOL HYDROGEN PHOSPHATE □ HDEHP □ KYSELINA DI-(2-ETHYLHEXYL)FOSFORECNA

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MOD UCDS** 5/18/72
 skn-rbt 5 mg/24H SEV 85JCAE -,1130,86
 eye-rbt 5 mg MOD UCDS** 5/18/72
 eye-rbt 250 µg/24H SEV 85JCAE -,1130,86
 orl-rat LD50:4940 mg/kg UCDS** 5/18/42
 ipr-rat LD50:50 mg/kg HYDRDA 3,201,78
 ipr-mus LDLo:63 mg/kg CBCCT* 9,132,57
 skn-rbt LD50:1250 mg/kg UCDS** 5/18/72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. A corrosive material. A severe eye and skin irritant. When heated to decomposition it emits toxic fumes of PO_x.

BJS250 CAS: 122-62-3 HR: 2
BIS(2-ETHYLHEXYL) SEBACATE

mf: C₂₆H₅₀O₄ mw: 426.76

PROP: Light, clear liquid; mild odor. Mp: -48°, fp: -55°, bp: 256° @ 5 mm, flash p: 410°F, d: 0.914 @ 20°/4°, vap d: 14.7.

SYNS: BISOFLEX DOS □ DECANEDIOIC ACID, BIS(2-ETHYLHEXYL) ESTER □ DI(2-ETHYLHEXYL)SEBACATE □ DIOCTYL SEBACATE □ DOS □ 2-ETHYLHEXYL SEBACATE □ MONOPLEX DOS □ OCTOIL S □ OCTYL SEBACATE □ PX 438 □ STALFLEX DOS □ UNIFLEX DOS

TOXICITY DATA with REFERENCE:

ivn-rat LD50:900 mg/kg MRLR** No. 256,54

orl-mus LD50:9500 mg/kg 85GMAT -,62,82

ivn-rbt LD50:540 mg/kg MRLR** No. 256,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. See also ESTERS. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid and irritating fumes.

BJS300 CAS: 4654-26-6 HR: 2
BIS(2-ETHYLHEXYL) TEREPHTHALATE

mf: C₂₄H₃₈O₄ mw: 390.62

SYNS: 1,4-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER □ DI(2-ETHYLHEXYL) TEREPHTHALATE □ DIOCTYL TEREPHTHALATE □ EASTMAN DOTP PLASTICIZER □ TEREPHTHALIC ACID, DIOCTYL ESTER (6CI,7CI,8CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTOD7 33,971,95

ipr-rat LD :>3200 mg/kg FCTOD7 33,971,95

orl-mus LD50:>3200 mg/kg FCTOD7 33,971,95

ipr-mus LD :>3200 mg/kg FCTOD7 33,971,95

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

BJS500 CAS: 6422-86-2 HR: 1
BIS(2-ETHYLHEXYL) TEREPHTHALATE

mf: C₂₄H₃₈O₄ mw: 390.62

SYNS: 1,4-BENZENEDICARBOXYLIC ACID, BIS(2-ETHYLHEXYL)ESTER (9CI) □ KODAFLEX DOTP □ TEREPHTHALIC ACID, BIS(2-ETHYLHEXYL)ESTER

TOXICITY DATA with REFERENCE:

orl-mus LDLo:20 g/kg GISAAA 47(8),91,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BJS550 CAS: 10526-15-5 HR: 2
BIS(2-ETHYLHEXYL)THIODIPROPIONATE

mf: C₂₂H₄₂O₄S mw: 402.70

SYNS: BIS(2-ETHYLHEXYL) 3,3'-THIODIPROPIONATE □ PROPANOIC ACID, 3,3'-THIOBIS-, BIS(2-ETHYLHEXYL) ESTER □ PROPIONIC ACID, 3,3'-THIODI-, BIS(2-ETHYLHEXYL) ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/4H MLD IJTOFN 16(Suppl 2),6,1997

eye-rbt 100 µL/24H MLD IJTOFN 16(Suppl 2),6,1997

orl-rat LD50:>5 mL/kg IJTOFN 16(Suppl 2),6,1997

ipr-mus LD :>500 mg/kg CBCCT* 8,106,1956

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A mild skin and eye irritant. When heated to decomposition it emits toxic vapors of SO_x.

BJS600 CAS: 70132-29-5 HR: D
BIS(2-ETHYL-2-HYDROXYBUTANOATO(2-)-
(O¹,O²)-OXOCHROMATE(1-) SODIUM

mf: C₁₂H₂₀CrO₇Na mw: 351.31

SYN: CHROMATE(1-), BIS(2-ETHYL-2-HYDROXYBUTANOATO(2-)-(O¹,O²)-OXO-, SODIUM

TOXICITY DATA with REFERENCE:

mic-sat 500 nmol/plate CRNGDP 14,1875,1993

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

BJT250 CAS: 2440-45-1 HR: 3
BIS(ETHYLMERCURI) PHOSPHATE

mf: C₄H₁₁Hg₂O₄P mw: 555.30

PROP: Solid. IDLH 10 mg/m³ (as Hg).

SYNS: ETHYLMERCURIC PHOSPHATE □ ETHYLMERCURY PHOSPHATE □ LIGNASAN FUNGICIDE □ LIGNASAN-X □ NEW IMPROVED CERESAN □ NEW IMPROVED GRANOSAN

TOXICITY DATA with REFERENCE:

orl-rat LD50:30 mg/kg PCOC** -,516,66

unk-rat LD50:30 mg/kg 30ZDA* -,288,71

orl-mus LD50:56 mg/kg NYKZAU 58,235,62

scu-mus LD50:88 mg/kg KUMJAX 14,65,61

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

OSHA PEL: TWA 0.01 mg(Hg)/m³; STEL 0.03 mg/m³ (skin)

ACGIH TLV: TWA 0.01 mg(Hg)/m³; BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. See also MERCURY COMPOUNDS, ORGANIC. An experimental teratogen. When heated to decomposition it emits very toxic fumes of Hg and PO_x.

BJT500 CAS: 139-60-6 HR: 2
N,N'-BIS(1-ETHYL-3-METHYLPENTYL)-p-PHENYLENEDIAMINE

mf: C₂₂H₄₀N₂ mw: 332.64

SYNS: N,N'-BIS(5-METHYL-3-HEPTYL)-p-PHENYLENEDIAMINE □ N,N'-DI(1-ETHYL-3-METHYLPENTYL)-p-PHENYLENEDIAMINE □ EASTOZONE 31 □ ELASTOZONE 31 □ SANTOFLEX 17 □ TENAMENE 31 □ UOP 88

TOXICITY DATA with REFERENCE:

orl-rat LD50:2400 mg/kg RCTEA4 45(3),627,72

skn-rbt LD50:1800 mg/kg RCTEA4 45(3),627,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BJT750 CAS: 76-20-0 HR: 2**2,2-BIS(ETHYLSULFONYL)BUTANE**mf: C₈H₁₈O₄S₂ mw: 242.38**PROP:** Lustrous bitter-tasting leaflet. Mp: 74–76°.**SYNS:** DIETHYLSULFONMETHYLETHYLMETHANE □ ETHYLSULFONAL □ METHYLSULFONAL □ METHYL SULPHONAL □ SULFONETHYLMETHANE □ TIONAL □ TRIONAL**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of SO_x.**BJT800 CAS: 18771-38-5 HR: 3****BIS(ETHYLTHIO)METHYLENE
MALONONITRILE**mf: C₈H₁₀N₂S₂ mw: 198.32**SYNS:** CP 26890 □

(BIS(ETHYLTHIO)METHYLENE)PROPANEDINITRILE □ MALONONITRILE, CARBONYL-, DIETHYL MERCAPTOLE □ PROPANEDINITRILE, (BIS(ETHYLTHIO)METHYLENE)-

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL SEV NTIS** OTS0539975

orl-rat LD50:780 mg/kg NTIS** OTS0539975

skn-rbt LDLo:31,600 µg/kg NTIS** OTS0539975

SAFETY PROFILE: A poison by ingestion and skin contact. A severe eye irritant. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**BJU000 CAS: 502-55-6 HR: 3****BIS(ETHYLXANTHOGEN) DISULFIDE**mf: C₆H₁₀O₂S₄ mw: 242.40**PROP:** Yellow needles. Mp: 28–32°.**SYNS:** AULIGEN □ BEK □ BEXIDE □ BEXT □ BIETHYLXANTHOENTRISULFIDE □ BIS(ETHYLXANTHIC)DISULFIDE □ DEX □ DIETHYLDITHIO BIS(THIONOFORMATE) □ DIETHYL DIXANTHOGEN □ DIETHYL XANTHOGENATE □ DIETHYL XANTHOGEN DISULFIDE □ DITHIOBIS(THIOFORMIC ACID)-o,o-DIETHYL ESTER □ DIXANTHOGEN □ ETHYL XANTH OGEN DISULFIDE □ EXD □ K PREPARATION □ THIOPEROXY DICARBONIC ACID DIETHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:480 mg/kg RREVAH 10,97,65

skn-rat LDLo:2100 mg/kg PCOC** -,578,66

orl-mus LD50:1200 mg/kg FATOAO 28,230,65

orl-rbt LD50:620 mg/kg PCOC** -,578,66

ipr-rbt LD50:320 mg/kg APTOA6 8,329,52

orl-gpg LD50:400 mg/kg PCOC** -,578,66

unk-mam LD50:600 mg/kg 30ZDA9 -,180,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact and possibly other routes. See also ESTERS and SULFIDES. When heated to decomposition it emits highly toxic fumes of SO_x.**BJU250 CAS: 1851-71-4 HR: 3****BIS(ETHYLXANTHOGEN) TETRASULFIDE**mf: C₆H₁₀O₂S₆ mw: 306.52**SYN:** TETRASULFIDE, BIS(ETHOXYTHIOCARBONYL)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:275 mg/kg 28ZEAL 5,26,76

orl-mus LD50:275 mg/kg 28ZEAL 5,26,76

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes such as SO_x. See also SULFIDES.**BJU350 CAS: 73526-98-4 HR: 3****BIS(2-FLUORO-2,2-DINITROETHOXY)
DIMETHYLSILANE**mf: C₆H₁₀F₂N₄O₁₀Si mw: 364.25
(F(O₂N)₂CCH₂O)₂Si(CH₃)₂**SAFETY PROFILE:** An explosive plasticizer sensitive to shock. When heated to decomposition it emits toxic fumes of F⁻ and NO_x.**BJU500 CAS: 18139-03-2 HR: 3****BIS(2-FLUORO-2,2-DINITROETHYL)AMINE**mf: C₄H₅F₂N₅O₈ mw: 289.11
(FC(NO₂)₂CH₂)₂NH**SAFETY PROFILE:** An explosive. When heated to decomposition it emits toxic fumes of F⁻ and NO_x. See also EXPLOSIVES and AMINES.**BJV625 CAS: 72985-54-7 HR: 3****1,1-BIS(FLUOROOXY)HEXAFLUOROPROPANE**mf: C₃F₈O₂ mw: 220.02**SAFETY PROFILE:** Decomposes explosively. When heated to decomposition it emits toxic fumes of F⁻.**BJV630 CAS: 16329-93-4 HR: 3****2,2-BIS(FLUOROOXY)HEXAFLUOROPROPANE**mf: C₃F₈O₂ mw: 220.02**SAFETY PROFILE:** An unstable explosive. When heated to decomposition it emits toxic fumes of F⁻.**BJV635 CAS: 16329-92-3 HR: 3****1,1-BIS(FLUOROOXY)TETRAFLUROETHANE**mf: C₂F₆O₂ mw: 170.01**SAFETY PROFILE:** Potentially explosive at room temperature. Upon decomposition it emits toxic fumes of F⁻.**BJV750 CAS: 63698-38-4 HR: 3****trans-4-(4,4-BIS(p-FLUOROPHENYL)BUTYL)-
(2-(4'-PHENYLCYCLOHEXYLAMINO)ETHYL)-
PIPERAZINE TRIHYDROCHLORIDE**mf: C₃₄H₄₃F₂N₃•3ClH mw: 641.18**SYN:** M.G. 18001-3HCl**TOXICITY DATA with REFERENCE:**

orl-rat LD50:389 mg/kg FRPSAX 32,461,77

ipr-rat LD50:42 mg/kg FRPSAX 32,461,77

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of F⁻, HCl, and NO_x.**BJW000 CAS: 63698-37-3 HR: 3****trans-2-(4-(4,4-BIS(p-FLUOROPHENYL)BUTYL)
PIPERAZINYL)-N-(4'-PHENYLCYCLOHEXYL)
ACETAMIDE DIHYDROCHLORIDE**mf: C₃₄H₄₁F₂N₃O•2ClH mw: 618.70**SYN:** M.G. 8948-2HCl

TOXICITY DATA with REFERENCE:

orl-rat LD50:301 mg/kg FRPSAX 32,461,77
 ipr-rat LD50:108 mg/kg FRPSAX 32,461,77

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

BJW100 CAS: 67469-78-7 HR: 3
1-(2-(BIS(4-FLUOROPHENYL)METHOXY)-ETHYL)-4-(3-PHENYLPROPYL)PIPERAZINE DIHYDRO CHLORIDE

mf: C₂₈H₃₂F₂N₂O•2ClH mw: 523.49

SYNS: GBR-12909 □ PIPERAZINE, 1-(2-(BIS(4-FLUOROPHENYL) METHOXY)ETHYL)-4-(3-PHENYLPROPYL)-, DIHYDRO CHLORIDE

TOXICITY DATA with REFERENCE:

ivn-mky TDLo:0.1 mg/kg JPETAB 292,521,2000

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

BJW250 CAS: 20929-99-1 HR: 3
1,1-BIS(4-FLUOROPHENYL)-2-PROPYNYL-N-CYCLOHEPTYLCARBAMATE

mf: C₂₃H₂₃F₂N₂O mw: 383.47

SYN: CYCLOHEPTANECARBAMIC ACID-1,1-BIS(p-FLUOROPHENYL)-2-PROPYNYL ESTER

TOXICITY DATA with REFERENCE:

ipr-rat LD50:215 mg/kg HarPN# 21OCT74

orl-mus LD50:405 mg/kg HarPN# 21OCT74

ipr-mus LD50:318 mg/kg HarPN# 21OCT74

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Questionable carcinogen with experimental carcinogenic data. See also ESTERS. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x.

BJW500 CAS: 20930-00-1 HR: 2
1,1-BIS(4-FLUOROPHENYL)-2-PROPYNYL-N-CYCLOOCTYL CARBAMATE

mf: C₂₄H₂₅F₂N₂O mw: 397.50

SYN: CYCLOOCTANECARBAMIC ACID-1,1-BIS(p-FLUOROPHENYL)-2-PROPYNYL ESTER

TOXICITY DATA with REFERENCE:

ipr-rat LD50:617 mg/kg HarPN# 21OCT74

ipr-mus LD50:456 mg/kg HarPN# 21OCT74

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental carcinogenic data. See also ESTERS and CARBAMATES. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x.

BJW600 CAS: 76674-14-1 HR: D
α-α-BIS(4-FLUOROPHENYL)-1H-1,2,4-TRIAZOLE-1-ETHANOL

mf: C₁₆H₁₃F₂N₃O mw: 301.32

SYNS: 1,1-DI(4-FLUOROPHENYL)-2-(1,2,4-TRIAZOLE-1-YL)-ETHANOL □ ICI 151291 □ R 151885 □ 1H-1,2,4-TRIAZOLE-1-ETHANOL, α-α-BIS(4-FLUOROPHENYL)-

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

BJW750 CAS: 6784-25-4 HR: 3
BIS(N-FORMYL-p-AMINOPHENYL)SULFONE

mf: C₁₄H₁₂N₂O₄S mw: 304.34

SYN: N,N'-DIFORMYL-p,p'-DIAMINODIPHENYLSULFONE

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:450 mg/kg TXAPA9 18,469,71

ipr-mus LD50:760 mg/kg EXPAAA 20,88,67

ivn-dog LDLo:98 mg/kg IJLEAG 36,432,68

ivn-cat LDLo:255 mg/kg IJLEAG 36,432,68

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

BJW800 CAS: 4387-13-7 HR: 3
BIS(FORMYLMETHYL) MERCURY

mf: C₄H₆HgO₂ mw: 286.69

PROP: Crystals from EtOH. Mp: 92–94°. IDLH 10 mg/m³ (as Hg).

SYN: MERCURIDIACETALDEHYDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:18 mg/kg CSLNX* NX#05651

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.01 mg(Hg)/m³; BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Organomercury): TWA 0.01 mg/m³; STEL 0.03 mg/m³ (skin)

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

BJW810 CAS: 522-27-0 HR: 3
BIS(2-FURYL)GLYOXIME

mf: C₁₀H₈N₂O₄ mw: 220.20

SYNS: FURIL, DIOXIME □ DI-2-FURYLGLYOXIME □ ETHANEDIONE, DI-2-FURANYL-, DIOXIME □ α-FURIL DIOXIME

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#03759

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.

BJW825 CAS: 5188-42-1 HR: 3
BIS(GUANIDINIUM) CHROMATE

mf: C₂H₁₀N₆•CrH₂O₄ mw: 236.20

PROP: IDLH Ca [15 mg/m³ {as Cr(VI)}].

SYN: BIGUANIDINE, CHROMATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#02828

OSHA PEL: CL 0.1 mg(CrO₃)/m³

ACGIH TLV: TWA 0.05 mg(Cr)/m³; Confirmed Human Carcinogen

NIOSH REL: (Chromium(VI)) TWA 0.025 mg/m³; CL 0.05 mg/15M

SAFETY PROFILE: A confirmed carcinogen. Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and Cr.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Chromium Hexavalent 7024.

BJJ750 CAS: 19704-60-0 HR: 3
BIS(HEXANOYLOXY)DI-n-BUTYLSTANNANE

mf: $\text{C}_{20}\text{H}_{40}\text{O}_4\text{Sn}$ mw: 463.29

SYNS: BIS(HEXANOYLOXY)DI-n-BUTYL-TIN □ KAPRONAN DI-N-BUTYLCINICITY (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV 28ZPAK -,229,72

eye-rbt 20 mg/24H MOD 28ZPAK -,229,72

orl-rat LD50:94 mg/kg 28ZPAK -,229,72

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. A skin and eye irritant. See also TIN COMPOUNDS. When heated to decomposition it emits acrid smoke and fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BJX800 CAS: 63270-67-7 HR: 3
BIS(I-HISTIDINATO)MANGANESE TETRA-HYDRATE

mf: $\text{C}_{12}\text{H}_{16}\text{MnN}_6\text{O}_4 \cdot 4\text{H}_2\text{O}$ mw: 435.36

SYNS: MANGANESE, BIS(I-HISTIDINATO)-, TETRAHYDRATE □ MANGANESE, BIS(I-HISTIDINATO-N,O)-, TETRAHYDRATE

TOXICITY DATA with REFERENCE:

uns-mus LD50:160 mg/kg FRMBAZ 29,215,81

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

ACGIH TLV: TWA 5 mg(Mn)/ m^3

SAFETY PROFILE: Poison by an unspecified route. When heated to decomposition it emits toxic fumes of NO_x and Mn.

BJY000 CAS: 14873-10-0 HR: 3
BIS(I-HISTIDINE)COBALT

mf: $\text{C}_{12}\text{H}_{14}\text{N}_6\text{O}_5 \cdot \text{Co}$ mw: 365.25

SYNS: α -AMINOIMIDAZOLE-4-PROPIONIC ACID, COBALT(2+) SALT □ BIS(I-HISTIDINATO)COBALT □ COBALT-HISTIDINE □ KOBALT HISTIDIN (GERMAN)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:134 mg/kg AEPPAE 243,254,62

ivn-rat LD50:104 mg/kg AIPTAK 143,219,63

ivn-cat LD50:50 mg/kg AIPTAK 143,219,63

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

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

BJY125 CAS: 53532-37-9 HR: D
BIS-HM-A-TDA

mf: $\text{C}_4\text{H}_7\text{N}_3\text{O}_2\text{S}$ mw: 161.20

SYN: 2-N,N-BIS(HYDROXYMETHYL)AMINO-1,3,4-THIADIAZOLE

SAFETY PROFILE: An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x and NO_x .

BJY250 HR: 3
BISHYDRAZINE NICKEL(II)PERCHLORATE

mf: $\text{Cl}_2\text{H}_8\text{N}_4\text{NiO}_8$ mw: 323.7

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

SAFETY PROFILE: Confirmed human carcinogen. Exploded by heat and dilute aqueous suspension. Upon decomposition it emits toxic fumes of Cl^- and NO_x . See also NICKEL COMPOUNDS and PERCHLORATES.

BJY500 HR: 3
BISHYDRAZINE TIN(II)CHLORIDE

mf: $\text{Cl}_2\text{H}_8\text{N}_4\text{Sn}$ mw: 253.69

SAFETY PROFILE: Explodes on heating. Upon decomposition it emits toxic fumes of Cl^- . See also TIN COMPOUNDS and CHLORIDES.

BJJ750 HR: 3
BIS(1-HYDROPEROXY CYCLOHEXYL)PEROXIDE

mf: $\text{C}_{12}\text{H}_{22}\text{O}_6$ mw: 252.20

SAFETY PROFILE: Fire causes violent explosion. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES, ORGANIC.

BJY825 CAS: 2614-76-8 HR: 3
2,2-BIS(HYDROPEROXY)PROPANE

mf: $\text{C}_3\text{H}_8\text{O}_4$ mw: 108.09
 $(\text{CH}_3)_2\text{C}(\text{OOH})_2$

PROP: Liquid.

SAFETY PROFILE: Ignites or explodes when heated. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES.

BJY800 CAS: 6818-37-7 HR: D
BIS-HYDROXYAETHYLAMINOPROPYL-HYDROXYAETHYL-OCTADECYLAMIN-DIHYDROFLUORID

mf: $\text{C}_{27}\text{H}_{58}\text{N}_2\text{O}_3 \cdot 2\text{FH}$ mw: 498.89

SYNS: C-27-AMINE FLUORIDE □ ETHANOL, 2,2'-((3-(N-(2-HYDROXYETHYL)-N-OCTADECYLAMINO)PROPYL)IMINO)DI-, DIHYDROFLUORIDE □ ETHANOL, 2,2'-((2-HYDROXY-ETHYL) OCTADECYLAMINO)PROPYL)IMINO)BIS-, DIHYDRO-FLUORIDE □ GA 297 □ OLAFUR □ SKF 38095J2

TOXICITY DATA with REFERENCE:
mic-sat 100 nmol/plate MUREAV 90,91,1981

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

BJZ000 CAS: 66-76-2 HR: 3
BISHYDROXYCOUMARIN

mf: $\text{C}_{19}\text{H}_{12}\text{O}_6$ mw: 336.31

PROP: Very small crystals from cyclohexanone with a slight pleasant odor and bitter taste. Mp: 288–289°. Sol in alkali.

SYNS: ACADYL □ ACAVYL □ ANTITROMBOSIN □ BARACOU MIN □ BHC □ BIS(4-HYDROXYCOUMARIN-3-YL) METHANE □ CUMA □ CUMID □ DICOUMARIN □ DICOUM AROL □ DICUMAN □ DICUMARINE □ DI-(4-HYDROXY-3-COUMARINYL)METHANE □ DI-4-HYDROXY-3,3'-METHYLENE DICOUMARIN □ DUFALONE □ KUMORAN □ MELITOXIN □ 3,3'-METHYLENE-BIS(4-HYDROXY-CUMARINE) (DUTCH) □ 3,3'-METHYLENE-BIS(4-HYDROXY-CUMARIN) (GERMAN) □ 3,3'-METHYLENEBIS(4-HYDROXY-1,2-BENZOPYRONE) □ 3,3'-METHYLENEBIS(4-HYDROXYCOUMARIN) □ 3,3'-METHYLENE-BIS(4-HYDROXY COUMARINE) (FRENCH) □ 3,3'-METILEN-BIS(4-IDROSSI-CUMARINA) (ITALIAN) □ TEMPARIN □ TROMBOSAN

TOXICITY DATA with REFERENCE:

orl-rat LD50:250 mg/kg SMWOAS 83,471,53
ivn-rat LD50:52 mg/kg PSEBAA 50,228,42
orl-mus LD50:233 mg/kg PSEBAA 50,228,42
ipr-mus LD50:91 mg/kg DIPHAH 17,163,65
scu-mus LD50:50 mg/kg 85GDA2 8(1),360,82
ivn-mus LD50:42 mg/kg AEPPAE 222,107,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. An experimental teratogen. Human reproductive effects by ingestion and possibly other routes: fetal death, unspecified developmental abnormalities, stillbirth, and unspecified neonatal effects. An anticoagulant. Excessive doses can cause hemorrhages. When heated to decomposition it emits acrid smoke and fumes. See also WARFARIN.

BKA000 CAS: 548-00-5 HR: 3 BIS(4-HYDROXY-3-COUMARIN) ACETIC ACID ETHYL ESTER

mf: $C_{22}H_{16}O_8$ mw: 408.38

PROP: Amorphous or crystalline from Me_2CO . Mp: 151° (amorphous), mp: 173° (crystalline).

SYNS: BIS-3,3'-(4-HYDROXYCOUMARINYL)ACETIC ACID ETHYL ESTER □ BIS-(4-HYDROXY-3-COUMARINYL)ETHYL ACETATE □ BIS(4-HYDROXY-2-OXO-2H-1-BENZOPYRAN-3-YL)ACETIC ACID ETHYL ESTER □ BOEA □ B.O.E.A. □ 3,3'-(CARBOXYMETHYLENE)BIS(4-HYDROXYCOUMARIN) ETHYL ESTER □ DICUMACYL □ ETHYL BISCOUMACETATE □ ETHYL BIS(4-HYDROXYCOUMARINYL)ACETATE □ ETHYL BIS(4-HYDROXY-3-COUMARINYL)ACETATE □ ETHYLDICOU MAROL □ ETHYLDICOU MAROL ACETATE □ ETHYL-4,4'-DIHYDROXY DICOUMARINYL-3,3'-ACETATE □ NEODI-COUMARIN □ NEO DICOUMAROL □ NEODICUMARINUM □ PELENTAN □ STABILENE □ TROMBARIN □ TROMBIL □ TROMBOLYSAN □ TROMEXAN □ TROMEXAN ETHYL ACETATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:840 mg/kg FEPA7 10,303,51
ipr-rat LD50:260 mg/kg AIPTAK 87,402,51
orl-mus LD50:750 mg/kg AEPPAE 222,107,54
orl-mus LD50:750 mg/kg AEPPAE 222,107,54
scu-mus LD50:750 mg/kg LANCAO 2,611,51

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes.

An experimental teratogen. Human reproductive effects by ingestion: developmental abnormalities of the cardiovascular system, stillbirth, and unspecified neonatal effects. An anticoagulant. See also WARFARIN and ESTERS. When heated to decomposition it emits acrid and irritating fumes.

BKA250 HR: 3 BIS(1-HYDROXYCYCLOHEXYL)PEROXIDE

mf: $C_{22}H_{22}O_4$ mw: 230.3

SAFETY PROFILE: Explodes in vacuum. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES, ORGANIC.

BKB000 CAS: 21615-29-2 HR: 1 3'-(BIS(2-HYDROXYETHYL)AMINO)-p-ACETO PHENETIDIDE

mf: $C_{14}H_{22}N_2O_4$ mw: 282.38

SYNS: 2,2'-((5-ACETAMIDO-2-ETHOXYPHENYL)IMINO) DIETHANOL □ 2-BIS-HYDROXYETHYLAMINO-4-ACETAMINO FENETOL (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H MOD 28ZPAK -,100,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKB100 CAS: 2158-76-1 HR: D 2-(N,N-BIS(2-HYDROXYETHYL)AMINO)-1,4- BENZOQUINONE

mf: $C_{10}H_{13}NO_4$ mw: 211.24

SYNS: 1,4-BENZOQUINONE, 2-(N,N-BIS(2-HYDROXYETHYL) AMINO)- □ 2,5-CYCLOHEXADIENE-1,4-DIONE, 2-(BIS(2-HYDROXYETHYL)AMINO)- □ DI(2'-HYDROXYETHYL)AMINO-1,4-BENZOQUINONE

TOXICITY DATA with REFERENCE:

dnd-mus:lyms 2 mmol/L CNREA8 48,1727,88

dnd-mus:lyms 1 mmol/L CNREA8 44,78,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKB250 CAS: 63867-52-7 HR: 2 2-(BIS(β -HYDROXYETHYL)AMINO)-4,5- DIPHENYLOXAZOLE MONOHYDRATE

mf: $C_{19}H_{20}N_2O_3 \cdot H_2O$ mw: 342.43

SYNS: AGEROPLAS □ DIETHAMPHENAZOL MONO-HYDRATE □ 2,2'-DIHYDROXY-N-(4,5-DIPHENYLOXAZOLE-2-YL)DIETHYL AMINE MONOHYDRATE □ N-(4,5-DIPHENYL-OXAZOL-2-YL)DIETHANOLAMINE MONOHYDRATE □ 2,2'-((4,5-DIPHENYL-2-OXAZOLYL)IMINO)-DIETHANOL-MONOHYDRATE □ DITAZOL MONOHYDRATE □ S 222

TOXICITY DATA with REFERENCE:

orl-rat LD50:11,380 mg/kg ARZNAD 23,1283,73

ipr-rat LD50:7770 mg/kg ARZNAD 23,1283,73

orl-mus LD50:9621 mg/kg ARZNAD 23,1283,73

ipr-mus LD50:3390 mg/kg ARZNAD 23,1283,73

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. An anti-

inflammatory agent. When heated to decomposition it emits toxic fumes of NO_x.

BKB300 CAS: 70711-40-9 HR: 3
1,4-BIS((2-((2-HYDROXYETHYL)AMINO)ETHYL)AMINO)-9,10-ANTHRACENEDIONE DIACETATE

mf: C₂₂H₂₈N₄O₄•2C₂H₄O₂ mw: 532.66

SYNS: AMETANTRONE ACETATE □ 1,4-BIS((2-((HYDROXYETHYL)AMINO)ETHYL)AMINO)-9,10-ANTHRACENEDIONE DIACETATE (SALT) (9CI) □ CI 881 □ HAQ □ NSC-287513

TOXICITY DATA with REFERENCE:

oms-hmn:leu 400 µg/L CNREA8 39,2574,79
 cyt-hmn:leu 50 µg/L CNREA8 39,2574,79
 oms-ham:ovr 10 nmol/L CNREA8 39,2574,79
 orl-mus LD50:495 mg/kg NCISP* JAN86
 ipr-mus LD50:62,830 µg/kg NCISP* JAN86
 scu-mus LD50:297 mg/kg NCISP* JAN86

SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Moderately toxic by ingestion. An experimental teratogen. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

BKB325 CAS: 64862-96-0 HR: D
1,4-BIS((2-((2-HYDROXYETHYL)AMINO)ETHYL)AMINO)ANTHRAQUINONE

mf: C₂₂H₂₈N₄O₄ mw: 412.54

SYNS: 1,4-BIS(2-((2-HYDROXYETHYL)AMINO)ETHYLAMINO)-9,10-ANTHRACENEDIONE □ HAQ □ NSC-196473 □ NSC 287513

TOXICITY DATA with REFERENCE:

mma-sat 6500 µmol/L CNREA8 41,376,81
 dni-mus:oth 1 µmol/L CNREA8 43,1951,83
 cyt-ham:ovr 10 nmol/L CNREA8 41,376,81
 sce-ham:ovr 10 nmol/L CNREA8 41,376,81

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

BKB500 CAS: 27464-23-9 HR: 3
3-(BIS(2-HYDROXYETHYL)AMINO)-6-HYDRAZINOPYRIDAZINEDIHYDROCHLORIDE

mf: C₈H₁₅N₅O₂•2ClH mw: 286.20

PROP: Solid. Mp: 187.5–188.5°.

SYNS: 3-HYDRAZINO-6-(N,N-BIS(2-HYDROXYETHYL)AMINO)PYRIDAZINE DIHYDROCHLORIDE □ 2-IDRAZINO-6-(N,N-BIS(2-IDROSSIETIL)-AMINO)-PIRIDAZINA CLORIDRATO (ITALIAN) □ L 6150

TOXICITY DATA with REFERENCE:

ivn-hmn TDLo:29 µg/kg;CNS DRFUD4 2,172,77
 orl-rat LD50:1800 mg/kg BCFAAI 111,480,72
 ipr-rat LD50:335 mg/kg BCFAAI 111,480,72
 orl-mus LD50:1520 mg/kg BCFAAI 111,480,72
 ipr-mus LD50:263 mg/kg DRFUD4 2,172,77
 orl-dog LD50:1 g/kg ARZNAD 23,1591,73
 ivn-dog LD50:75 mg/kg ARZNAD 23,1591,73
 orl-rbt LD50:5 g/kg ARZNAD 23,1591,73
 orl-gpg LD50:188 mg/kg BCFAAI 111,480,72

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Human systemic effects by intravenous route: somnolence and unspecified pulmonary system effects. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

BKB750 CAS: 5055-20-9 HR: 2
4-BIS(2-HYDROXYETHYL)AMINO-2-(5-NITRO-2-FURYL)QUINAZOLINE

mf: C₁₆H₁₆N₄O₅ mw: 344.36

PROP: Solid. Mp: 167–168°.

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

BKC000 CAS: 52551-67-4 HR: D
2-(BIS(2-HYDROXYETHYL)AMINO)-5-NITROPHENOL

mf: C₁₀H₁₄N₂O₅ mw: 242.26

SYNS: HC YELLOW No. 4 □ NCI-C56019

TOXICITY DATA with REFERENCE:

mmo-sat 333 µg/plate ENMUDM 8(Suppl 7),1,86
 mma-sat 33 µg/plate ENMUDM 8(Suppl 7),1,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS. When heated to decomposition it emits toxic fumes of NO_x.

BKC250 CAS: 33372-39-3 HR: 2
4-BIS(2-HYDROXYETHYL)AMINO-2-(5-NITRO-2-THIENYL)QUINAZOLINE

mf: C₁₆H₁₆N₄O₄S mw: 360.42

TOXICITY DATA with REFERENCE:

mma-sat 1250 µg/plate CNREA8 35,3611,75

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

BKC500 CAS: 78109-79-2 HR: 3
N-(3-(BIS(2-HYDROXYETHYL)AMINO)PROPYL)BENZAMIDE HYDROCHLORIDE

mf: C₁₈H₃₀N₂O₄•ClH mw: 374.96

SYN: D-695

TOXICITY DATA with REFERENCE:

scu-mus LD50:800 mg/kg ARZNAD 10,743,60
 ivn-mus LD50:80 mg/kg ARZNAD 10,743,60

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

BKC750 CAS: 101651-88-1 HR: 3
10-(3-(BIS(2-HYDROXYETHYL)AMINO)-PROPYL)-7-CHLOROISALLOXAZINE SULFATE

mf: C₁₇H₂₀ClN₅O₄•H₂O₄S mw: 491.95

TOXICITY DATA with REFERENCE:

scu-mus LD50:80 mg/kg CMTRAG 2,96,61
 ivn-mus LD50:67 mg/kg CMTRAG 2,96,61

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. See also SULFATES. When heated to decomposition it emits very toxic fumes of SO_x, Cl⁻, and NO_x.

BKD000 CAS: 78128-69-5 HR: 3
N-(3-(BIS(2-HYDROXYETHYL)AMINO)PROPYL)-
o-PROPOXYBENZAMIDE HYDROCHLORIDE

mf: $C_{17}H_{28}N_2O_4 \cdot ClH$ mw: 360.93

SYN: D-701

TOXICITY DATA with REFERENCE:

ipr-mus LD50:330 mg/kg ARZNAD 10,743,60

scu-mus LD50:785 mg/kg ARZNAD 10,743,60

ivn-mus LD50:110 mg/kg ARZNAD 10,743,60

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

BKD250 CAS: 20182-56-3 HR: 1
4,4'-BIS((4-(2-HYDROXYETHYL)AMINO-6-(p-
SULFOANILINO)-s-TRIAZIN-2-YL)AMINO)-
2,2'-STILBENEDISULFONIC ACID
TETRASODIUM SALT

mf: $C_{36}H_{32}N_{12}O_{14}S_4 \cdot 4Na$ mw: 1077.00

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD MVCRB3 2,193,73

eye-rbt 100 mg MLD MVCRB3 2,193,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin and eye irritant. See also SULFONATES. When heated to decomposition it emits toxic fumes of NO_x , Na_2O and SO_x .

BKD500 CAS: 120-07-0 HR: 2
N,N-BIS(2-HYDROXYETHYL)ANILINE

mf: $C_{10}H_{15}NO_2$ mw: 181.26

SYNS: DIETHANOLAMINOBENZENE □ DIETHANOL-ANILINE □ N,N-DIETHANOLANILINE □ DIHYDROXYETHYL-ANILINE □ N,N-DI(β-HYDROXYETHYL)ANILINE □ N,N-DI(2-HYDROXY ETHYL)ANILINE □ N,N-DIOXYETHYLANILINE □ EMERY 5703 □ 2,2'-(PHENYLAMINO)DIETHANOL □ PHENYL DIETHANOL AMINE □ N-PHENYLDIETHANOLAMINE □ 2,2'-(PHENYL IMINO)DIETHANOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 6/13/60

eye-rbt 100 mg SEV UCDS** 6/13/60

orl-rat LD50:980 mg/kg JIDHAN 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKD600 CAS: 5185-70-6 HR: 3
N,N-BIS(2-HYDROXYETHYL)-p-ARSANILIC
ACID

mf: $C_{10}H_{16}AsNO_5$ mw: 305.19

SYN: p-ARSANILIC ACID, N,N-BIS(2-HYDROXYETHYL)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1053 mg/kg JMC MAR 9,221,66

OSHA PEL: TWA 0.5 mg(As)/m³

ACGIH TLV: BEI: 35 μ(As)/L inorganic arsenic and methylated metabolites in urine

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

BKD750 CAS: 64036-91-5 HR: 3
BIS(2-HYDROXYETHYL)-2-((2-CHLORO ETHYL
THIO)ETHYL SULFONIUM) CHLORIDE

mf: $C_8H_{18}ClO_2S_2 \cdot Cl$ mw: 281.28

SYNS: β-CHLOROETHYL-β-(BIS(β-HYDROXYETHYL)SULFONIUM)ETHYL SULFIDE CHLORIDE □ 2-(2-CHLOROETHYL)THIOETHYLBIS(2-HYDROXYETHYL)-CHLORIDE

TOXICITY DATA with REFERENCE:

skn-rat LD50:10 mg/kg JPETAB 93,1,48

skn-mus LD50:15 mg/kg JPETAB 93,1,48

scu-mus LDLo:25 mg/kg NTIS** PB158-507

ivn-dog LD50:6 mg/kg JPETAB 93,1,48

ivn-rbt LD50:4500 μg/kg JPETAB 93,1,48

SAFETY PROFILE: A poison by skin contact, subcutaneous, and intravenous routes. See also SULFONATES. When heated to decomposition it emits very toxic fumes of Cl^- and SO_x .

BKD800 CAS: 120-86-5 HR: 2
N,N'-BIS(2-HYDROXYETHYL)-DITHIOOXAMIDE

mf: $C_6H_{12}N_2O_2S_2$ mw: 208.32

SYNS: OXAMIDE, N,N'-BIS(2-HYDROXYETHYL)DITHIO- □ USAF MK-5

TOXICITY DATA with REFERENCE:

ipr-mus LD50:750 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKE500 CAS: 120-40-1 HR: 2
N,N-BIS(2-HYDROXYETHYL)DODECAN AMIDE

mf: $C_{16}H_{33}NO_3$ mw: 287.50

PROP: Solid. Mp: 36°

SYNS: BIS(2-HYDROXYETHYL)LAURAMIDE □ N,N-BIS(HYDROXYETHYL)LAURAMIDE □ N,N-BIS(β-HYDROXYETHYL)LAURAMIDE □ N,N-BIS(2-HYDROXYETHYL)LAURAMIDE □ CLINDROL 101CG □ CLINDROL SUPERAMIDE 100L □ COCO DIETHANOLAMIDE □ COCONUT OIL AMIDE of DIETHANOLAMINE □ COMPERLAN LD □ CONDENSATE PL □ CRILLON L.D.E. □ DIETHANOLLAURAMIDE □ N,N-DIETHANO LLAURAMIDE □ N,N-DIETHANOLLAURIC ACID AMIDE □ EMID 6511 □ EMID 6541 □ ETHYLAN MLD □ HETAMIDE ML □ LAURAMIDE DEA □ LAURIC ACID DIETHANOLAMIDE □ LAURIC DIETHANOLAMIDE □ LAUROYL DIETHANOLAMIDE □ LAURYL DIETHANOL-AMIDE □ LDA □ LDE □ MONAMID 150-LW □ NCI-C55323 □ NINOL AA62 □ NINOL AA-62 EXTRA □ NINOL 4821 □ ONYXOL 345 □ REWOMID DLMS □ RICHAMIDE 6310 □ ROLAMID CD □ STANDAMIDD LD □ STEINAMID DL 203 S □ SUPER AMIDE L-9A □ SYNOTOL L-60 □ UNAMIDE J-56 □ VARAMID ML 1

TOXICITY DATA with REFERENCE:

orl-rat LD50:2700 mg/kg JSCCA5 13,469,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x . See also AMIDES.

BKE750 CAS: 64058-26-0 HR: 3
1,1-BIS(β -HYDROXYETHYL)ETHYLENINONIUM CHLORIDE

mf: $\text{C}_6\text{H}_{14}\text{NO}_2\cdot\text{Cl}$ mw: 167.66

SYN: 1,1-BIS(2-HYDROXYETHYL)AZIRIDINIUM CHLORIDE

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:342 $\mu\text{g/kg}$:CNS NTIS** PB158-507

ipr-mus LD50:5 mg/kg NTIS** PB158-507

ivn-rbt LD50:20 mg/kg NTIS** PB158-507

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Human systemic effects by ingestion: nausea and vomiting. When heated to decomposition it emits very toxic fumes of NO_x and Cl^- .

BKF250 CAS: 2784-94-3 HR: 3
N',N'-BIS(2-HYDROXYETHYL)-N-METHYL-2-NITRO-p-PHENYLENEDIAMINE

mf: $\text{C}_{11}\text{H}_{17}\text{N}_3\text{O}_4$ mw: 255.31

SYNS: HC BLUE 1 \square NCI-C04159

TOXICITY DATA with REFERENCE:

mno-sat 333 $\mu\text{g/plate}$ NTPTR* NTP-TR-271,85

mno-sat 100 $\mu\text{g/plate}$ NTPTR* NTP-TR-271,85

dns-rat:lv 50 mg/L NTPTR* NTP-TR-271,85

msc-mus:lym 30 mg/L NTPTR* NTP-TR-271,85

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 57,129,93; Animal Sufficient Evidence IMEMDT 57,129,93; Human Inadequate Evidence IMEMDT 57,129,93. NTP Carcinogenesis Studies (feed); Some Evidence: rat NTPTR* NTP-TR-271,85; (feed); Clear Evidence: mouse NTPTR* NTP-TR-271,85. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic data. Mutation data reported. See also AMINES. When heated to decomposition it emits toxic fumes of NO_x .

BKF500 CAS: 56863-02-6 HR: 2
N,N-BIS(2-HYDROXYETHYL)-9,12-OCTADECADIENAMIDE

mf: $\text{C}_{22}\text{H}_{41}\text{NO}_3$ mw: 367.64

SYNS: CLINDROL LT 15-73-1 \square CYCLOMIDE DIN 295/S \square LINOLEIC DIETHANOLAMIDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV TXAPA9 19,276,71

eye-rbt 100 mg TXAPA9 19,276,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKF750 CAS: 63886-75-9 HR: 3
N,N-BIS(2-HYDROXYETHYL)-p-PHENYLENE DIAMINE SULFATE (1:1)

mf: $\text{C}_{10}\text{H}_{16}\text{N}_2\text{O}_2\cdot\text{H}_2\text{O}_4\text{S}$ mw: 294.36

SYN: N,N-BIS-2-HYDROXYETHYL-p-PHENYLENEDIAMINE STRAN (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MOD 28ZPAK -,110,72

orl-rat LD50:131 mg/kg 28ZPAK -,110,72

SAFETY PROFILE: Poison by ingestion. An eye irritant. See also SULFATES. When heated to decomposition it emits very toxic fumes of SO_x and NO_x .

BKF800 CAS: 54381-16-7 HR: D
N,N-BIS(2-HYDROXYETHYL)-1,4-PHENYLENEDIAMINE SULFATE MONOHYDRATE

mf: $\text{C}_{10}\text{H}_{16}\text{N}_2\text{O}_2\cdot\text{H}_2\text{O}_4\text{S}\cdot\text{H}_2\text{O}$ mw: 312.38

SYNS: 2,2'-((4-AMINOPHENYL)IMINO)BISETHANOL SULFATE HYDRATE \square ETHANOL, 2,2'-((4-AMINOPHENYL)IMINO)BIS-, SULFATE (SALT), HYDRATE (1:1:1)

TOXICITY DATA with REFERENCE:

mno-sat 5 mg/plate MUREAV 238,1,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKF900 CAS: 1442-74-6 HR: 3
1,4-BIS(4-HYDROXYIMINOMETHYL-PYRIDINIUM-(1))BUTANEDIOL(2,3)-DIJODIDE

mf: $\text{C}_{16}\text{H}_{20}\text{N}_4\text{O}_4\cdot 2\text{I}$ mw: 586.20

SYN: PYRIDINIUM, 1,1'-(2,3-DIHYDROXYTETRAMETHYLENE) BIS(4-FORMYL-, DIJODIDE, DIOXIME

TOXICITY DATA with REFERENCE:

ipr-mus LD50:150 mg/kg ARZNAD 14,870,1964

ivn-mus LD50:110 mg/kg ARZNAD 14,870,1964

ims-mus LD50:185 mg/kg ARZNAD 14,870,1964

SAFETY PROFILE: A poison by intraperitoneal, intravenous, and intramuscular routes. When heated to decomposition it emits toxic vapors of NO_x and I^- .

BKG250 HR: 3
BISHYDROXYL AMINE ZINC(II)CHLORIDE

mf: $\text{Cl}_2\text{H}_6\text{N}_2\text{O}_2\text{Zn}$ mw: 202.33

CONSENSUS REPORTS: Zinc and its compounds

are on the Community Right-To-Know List. **SAFETY PROFILE:** Explodes at 170° . When heated to decomposition it emits toxic fumes of Cl^- , NO_x , and ZnO . See also ZINC COMPOUNDS and CHLORIDES.

BKG500 CAS: 73118-23-7 HR: 3
3,5-BIS(3-HYDROXYMERCURI-2-METHOXYPROPYL)BARBITURIC ACID SODIUM SALT

mf: $\text{C}_{12}\text{H}_{19}\text{Hg}_2\text{N}_2\text{O}_7\cdot 7\text{Na}$ mw: 865.44

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

SYN: (1,5-(2,4,6-TRIOXO-(1H,3H,5H)-PYRIMIDYLENE))BIS(2-METHOXYPROPYL)HYDROXYMERCURY SODIUM SALT

TOXICITY DATA with REFERENCE:

ipr-rat LD50:13,500 $\mu\text{g/kg}$ JAPMA8 39,297,50

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 $\mu\text{g/g}$ creatinine total inorganic mercury in urine preshift; 15 $\mu\text{g/g}$ creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intraperitoneal route. See also MERCURY COMPOUNDS. When heated to decomposition it emits very toxic fumes of Na₂O, Hg, and NO_x.

BKG750 CAS: 73118-24-8 HR: 3
5,5-BIS(3-HYDROXYMERCURI-2-METHOXY
PROPYL)BARBITURIC ACID SODIUM SALT

mf: C₁₂H₁₉Hg₂N₂O₇•xNa mw: 865.44

PROP: IDLH 10 mg/m³ (as Hg).

TOXICITY DATA with REFERENCE:

ipr-rat LD50:30,500 µg/kg JAPMA8 39,297,50

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intraperitoneal route. See also MERCURY COMPOUNDS. When heated to decomposition it emits very toxic fumes of Na₂O, Hg and NO_x.

BKH000 CAS: 63951-09-7 HR: 3
2,6-BIS(HYDROXYMERCURI)-4-NITROANILINE

mf: C₆H₆Hg₂N₂O₄ mw: 571.32

PROP: IDLH 10 mg/m³ (as Hg).

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:250 mg/kg NCNSA6 5,12,53

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

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

BKH125 CAS: 67536-44-1 HR: 3
1,2-BIS(HYDROXOMERCURIO)-1,1,2,2-BIS-
(OXYDIMERCURIO)ETHANE

mf: C₂H₂Hg₆O₄ mw: 1293.58

PROP: IDLH 10 mg/m³ (as Hg).

SYN: ETHANE HEXAMERCARBIDE

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

SAFETY PROFILE: Explodes violently when heated to 230°C. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

BKH200 CAS: 131-54-4 HR: D
BIS(2-HYDROXY-4-METHOXYPHENYL)
METHANONE

mf: C₁₅H₁₄O₅ mw: 274.29

SYNS: BENZOPHENONE-6 □ BENZOPHENONE, 2,2'-

DIHYDROXY-4,4'-DIMETHOXY- □ CYASORB UV 12 □

METHANONE, BIS(2-HYDROXY-4-METHOXYPHENYL)-(9CI) □ UVINUL D 49

TOXICITY DATA with REFERENCE:

mma-sat 10 µg/plate JACTDZ 2(5),35,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKH325 CAS: 105-08-8 HR: 2
1,4-BIS(HYDROXYMETHYL)CYCLOHEXANE

mf: C₈H₁₆O₂ mw: 144.24

SYNS: 1,4-CHIDM □ HEXAHYDRO-2-OXO-1,4-CYCLO
 HEXANEDIMETHANOL

TOXICITY DATA with REFERENCE:

orl-rat LDLo:3200 mg/kg KODAK* 21MAY71

ipr-rat LDLo:800 mg/kg 34ZIAG -,194,69

orl-mus LDLo:1600 mg/kg KODAK* 21MAY77

ipr-mus LDLo:1600 mg/kg 34ZIAG -,194,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKH400 CAS: 64011-53-6 HR: 2
4,4-BIS(HYDROXYMETHYL)-1-CYCLOHEXENE

mf: C₈H₁₄O₂ mw: 142.22

SYNS: 3-CYCLOHEXENE-1-METHANOL, α-HYDROXY-
 METHYL- □ 4,4-DIHYDROXYMETHYL-1-CYCLOHEXENE

TOXICITY DATA with REFERENCE:

skn-rbt 100 mg/24H MOD 85JCAE -,214,1986

eye-rbt 2 mg/24H SEV 85JCAE -,214,1986

orl-rat LD50:1070 mg/kg TXAPA9 28,313,1974

skn-rbt LD50:>5 g/kg TXAPA9 28,313,1974

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

BKH500 CAS: 794-93-4 HR: 3
BIS(HYDROXYMETHYL)FURATRIZINE

mf: C₁₁H₁₁N₅O₅ mw: 293.27

PROP: Yellow crystals. Mp: 161° (decomp).

SYNS: 3-BIS(HYDROXYMETHYL)AMINO-6-(5-NITRO-2-FURYLETHENYL)-1,2,4-TRIAZINE □ DHNT □ 3-DI(HYDROXYMETHYL)AMINO-6-(5-NITRO-2-FURYLETHENYL)-1,2,4-TRIAZINE □ 3-DI(HYDROXYMETHYL)AMINO-6-(2-(5-NITRO-2-FURYL) VINYL)-1,2,4-TRIAZINE □ DIHYDROXYMETHYL FURATRIZINE □ FURATONE □ FURATONE-S □ N-(6-(5-

NITROFURFURYL DENEMETHYL)-1,2,4-TRIAZIN-3-YL)-IMINODIMETHANOL □ 6-(5-NITRO-2-FURYL VINYL)-3-(DIHYDROXYDIMETHYLAMINO)-1,2,4-TRIAZINE □ N-(6-(2-(5-NITRO-2-FURYL) VINYL)-1,2,4-TRIAZIN-3-YL)IMINODIMETHANOL □ ((6-(2-(5-NITRO-2-FURYL) VINYL)-as-TRIAZIN-3-YL)IMINO)DIMETHANOL □ PANFURAN-S

TOXICITY DATA with REFERENCE:

mmo-esc 125 µg/L MUREAV 146,243,85

pic-esc 800 µg/L MUREAV 146,243,85

orl-mus LD50:2690 mg/kg PMDCAY 5,320,67

ipr-mus LD50:1296 mg/kg PMDCAY 5,320,67

scu-mus LD50:1602 mg/kg PMDCAY 5,320,67

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence

IMEMDT 24,77,80; Human No Adequate Data

IMEMDT 24,77,80.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data.

Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. Mutation data reported. An antibacterial agent. When heated to decomposition it emits toxic fumes of NO_x.

BKH625 CAS: 115-84-4 HR: 2
3,3-BIS(HYDROXYMETHYL)HEPTANE

mf: C₉H₂₀O₂ mw: 160.29

PROP: Solid. Mp: 40–42.5°, bp: 136–143° @ 8 mm.

SYNS: BEP □ 2-BUTYL-2-ETHYL-1,3-PROPANEDIOL □ 2-ETHYL-2-BUTYL-1,3-PROPANEDIOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:5040 mg/kg 34ZIAG -,731,69

skn-rbt LD50:3810 mg/kg 34ZIAG -,731,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKH650 CAS: 15534-95-9 HR: D
1,3-BIS(HYDROXYMETHYL)IMIDAZOLIDIN-2-THIONE

mf: C₅H₁₀N₂O₂S mw: 162.23

SYNS: DIMETHYLOLETHYLENETHIOUREA □ 2-IMIDAZOLIDINETHIONE, 1,3-BIS(HYDROXYMETHYL)-

TOXICITY DATA with REFERENCE:

mic-sat 12 µmol/plate MUREAV 90,91,1981

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKH750 HR: 3
BIS HYDROXYMETHYL PEROXIDE

mf: C₂H₆O₄ mw: 94.06

SAFETY PROFILE: Highly explosive. Sensitive to friction. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES, ORGANIC.

BKH800 CAS: 101564-54-9 HR: D
3,4-BIS(p-HYDROXYPHENYL)-2-HEXANONE

mf: C₁₈H₂₀O₃ mw: 284.38

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

BKI250 CAS: 620-92-8 HR: 1
BIS(p-HYDROXYPHENYL)METHANE

mf: C₁₃H₁₂O₂ mw: 200.25

PROP: Leaflets from H₂O. Mp: 160°.

SYNS: BIS(4-HYDROXYPHENYL)METHANE □ p,p'-BIS-(HYDROXYPHENYL)METHANE □ 4,4'-METHYLENEBIS PHENOL □ 4,4'-METHYLENE DIPHENOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:4950 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKI300 CAS: 2675-35-6 HR: 3
BIS(4-HYDROXYPHENYL)METHANONE (2,4-DINITROPHENYL)HYDRAZONE

mf: C₁₉H₁₄N₄O mw: 314.37

SYNS: A 007 □ BENZOPHENONE, 4,4'-DIHYDROXY-, (2,4-DINITROPHENYL)HYDRAZONE □ METHANONE, BIS(4-HYDROXYPHENYL)-, (2,4-DINITROPHENYL)HYDRAZONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4300 mg/kg IVIVE4 11,29,1997

ipr-rat LD50:576 mg/kg IVIVE4 11,29,1997

orl-mus LD50:2690 mg/kg IVIVE4 11,29,1997

ipr-mus LD50:260 mg/kg IVIVE4 11,29,1997

orl-mky LD50:>5 g/kg IVIVE4 11,29,1997

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

BKI500 CAS: 2971-36-0 HR: 2
2,2-BIS(p-HYDROXYPHENYL)-1,1,1-TRI-CHLORO ETHANE

mf: C₁₄H₁₁Cl₃O₂ mw: 317.60

SYN: 1,1,1-TRICHLORO-2,2-BIS(p-HYDROXYPHENYL)ETHANE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:2 g/kg JAPMA8 36,349,47

orl-mus LD50:3200 mg/kg THERAP 22,285,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes such as Cl⁻.

BKI750 CAS: 65-14-5 HR: 3
2,3-BIS(p-HYDROXYPHENYL)VALERONITRILE

mf: C₁₇H₁₇NO₂ mw: 267.35

SYN: SC-3402

TOXICITY DATA with REFERENCE:

ipr-rat LD50:70 mg/kg JPETAB 112,176,54

orl-mus LD50:2850 mg/kg JPETAB 112,176,54

ipr-mus LD50:93 mg/kg JPETAB 112,176,54

ivn-dog LDLo:100 mg/kg JPETAB 112,176,54

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

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Experimental reproductive effects. See also NITRILES. When heated to decomposition it emits toxic fumes of NO_x and CN^- .

BKJ250 CAS: 62374-53-2 HR: 3
BIS(3-HYDROXY-1-PROPYNYL)MERCURY

mf: $\text{C}_6\text{H}_6\text{HgO}_2$ mw: 310.71

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

SYN: 3,3'-MERCURIDI-2-PROPYN-1-OL

TOXICITY DATA with REFERENCE:

ivn-mus LD50:4500 $\mu\text{g}/\text{kg}$ CSLNX* NX#05895

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 $\mu\text{g}/\text{g}$ creatinine total inorganic mercury in urine preshift; 15 $\mu\text{g}/\text{g}$ 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: (Organomercury): TWA 0.01 mg/ m^3 ; STEL 0.03 mg/ m^3 (skin)

SAFETY PROFILE: Poison by intravenous route. See also MERCURY COMPOUNDS. When heated to decomposition it emits toxic vapors of Hg.

BKJ260 CAS: 15702-63-3 HR: 3
BIS(8-HYDROXYQUINOLINE-5-SULFONIC ACID) COBALT(II)

mf: $\text{C}_{18}\text{H}_{12}\text{N}_2\text{O}_8\text{S}_2\cdot\text{Co}$ mw: 507.37

SYNS: COBALT, BIS(5-SULFO-8-QUINOLINOLATO)- □ COBALT(II), BIS(5-SULFO-8-QUINOLINOLATO- N^1, O^8)-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#01221

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

BKJ275 CAS: 15702-65-5 HR: 3
BIS(8-HYDROXYQUINOLINE-5-SULFONIC ACID) MANGANESE(II)

mf: $\text{C}_{18}\text{H}_{12}\text{N}_2\text{O}_8\text{S}_2\cdot\text{Mn}$ mw: 503.38

SYNS: BIS(5-SULFO-8-QUINOLINOLATO- N^1, O^8)

MANGANESE(II) □ MANGANESE, BIS(5-SULFO-8-QUINOLINOLATO)-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#01222

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 NO_x , SO_x , and Mn.

BKJ300 CAS: 55720-09-7 HR: D
(BIS(8-HYDROXYQUINOLYL)AMINO)SALICYLIC ACID

mf: $\text{C}_7\text{H}_7\text{NO}_3\cdot 2\text{C}_9\text{H}_7\text{NO}$ mw: 443.49

SYNS: DI-8-OXYQUINOLINE-N-AMINOSALICYLIC ACID □ BENZOIC ACID, 4-AMINO-2-HYDROXY-, COMPD. WITH 8-

QUINOLINOL (1:2) □ SALICYLIC ACID, (BIS(8-HYDROXYQUINOLYL)AMINO)-

TOXICITY DATA with REFERENCE:

mic-bcs 10 mmol/L FAVUAI 6,118,1974

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

BKJ325 CAS: 3286-46-2 HR: 3
BISIBUTIAMINE

mf: $\text{C}_{32}\text{H}_{46}\text{N}_8\text{O}_6\text{S}_2$ mw: 702.98

SYN: o, o' -DIISOBUTYRYLTHIAMINE DISULFIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:660 mg/kg NIIRDN 6,606,82

scu-rat LD50:850 mg/kg NIIRDN 6,606,82

ivn-rat LD50:110 mg/kg NIIRDN 6,606,82

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by some other routes. When heated to decomposition it emits toxic fumes of SO_x and NO_x . See also ESTERS.

BKJ500 CAS: 73816-43-0 HR: 3
BIS(3-INDOLEMETHYLENEMORPHOLINIUM)-HEXACHLOROSTANNATE

mf: $\text{C}_{26}\text{H}_{30}\text{N}_4\text{O}_2\cdot\text{Cl}_6\text{Sn}$ mw: 761.99

SYN: MORPHOLINIUM, (3-INDOLYLMETHYLENE)-, HEXACHLOROSTANNATE(2-)(2:1)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#02753

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 NO_x , Sn, and Cl^- .

BKJ600 CAS: 29523-51-1 HR: 3
N,N-BIS(2-iodoethyl)ANILINE

mf: $\text{C}_{10}\text{H}_{13}\text{I}_2\text{N}$ mw: 401.04

SYN: ANILINE, N,N-BIS(2-iodoethyl)-

TOXICITY DATA with REFERENCE:

ipr-rat LD50:56 mg/kg JMCMAR 8,167,1965

ipr-mus LD50:140 mg/kg JMCMAR 8,167,1965

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

BKJ650 CAS: 1669-83-6 HR: 2
 N_4, N_4 -BIS(2-iodoethyl)SULFANILAMIDE

mf: $\text{C}_{10}\text{H}_{14}\text{I}_2\text{N}_2\text{O}_2\text{S}$ mw: 480.12

SYN: SULFANILAMIDE, N_4, N_4 -BIS(2-iodoethyl)-

TOXICITY DATA with REFERENCE:

ipr-rat LD50:>792 mg/kg JMCMAR 8,167,65

ipr-mus LD50:600 mg/kg JMCMAR 8,167,65

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x , SO_x , and I^- .

BKJ700 CAS: 15481-65-9 HR: 1
BIS(2-ISOCYANATOETHYL)-4-CYCLOHEXENE-1,2-DICARBOXYLATE

mf: $\text{C}_{14}\text{H}_{16}\text{N}_2\text{O}_6$ mw: 308.32

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BKL250 CAS: 7287-19-6 HR: 2
2,4-BIS(ISOPROPYLAMINO)-6-METHYLMERCAPTO-s-TRIAZINE

mf: C₁₀H₁₉N₅S mw: 241.40

PROP: Solid. Mp: 118–120°. Very sltly sol in H₂O.

SYNS: 4,6-BIS(ISOPROPYLAMINO)-2-METHYLMERCAPTO-s-TRIAZINE □ 2,4-BIS(ISOPROPYLAMINO)-6-METHYLTHIO-s-TRIAZINE □ 2,4-BIS(ISOPROPYLAMINO)-6-METHYLTHIO-1,3,5-TRIAZINE □ N,N'-BIS(1-METHYLETHYL)-6-METHYL-THIO-1,3,5-TRIAZINE-2,4-DIAMINE □ CAPAROL □ G 34161 □ GESAGARD □ MERKAZIN □ 2-METHYLMERCAPTO-4,6-BIS(ISOPROPYL AMINO)-s-TRIAZINE □ 2-METHYLTHIO-4,6-BIS(ISOPROPYL AMINO)-s-TRIAZINE □ POLISIN □ PRIMATOL Q □ PROMETREX □ PROMETRIN □ PROMETRYN □ PROMETRYNE (USDA) □ SELEKTIN □ SESAGARD

TOXICITY DATA with REFERENCE:

eye-rbt 80 mg MLD CIGET* -,77

MUT mrc-smc 500 µg/L CYGEDX 21(2),59,87

orl-rat LD50:2100 mg/kg GISAAA 34(3),94,69

orl-mus LD50:2138 mg/kg GISAAA 33(2),12,68

SAFETY PROFILE: Moderately toxic by ingestion.

Experimental reproductive effects. An eye irritant.

Mutation data reported. An herbicide. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS.

BKL500 HR: 2
2,4-BIS(ISOPROPYLAMINO)-6-(METHYLTHIO)-s-TRIAZINE mixed with METHANEARSONIC ACID MONOSODIUM SALT (1:4)

TOXICITY DATA with REFERENCE:

orl-rat LD50:2500 mg/kg CIGET* -,77

skn-rbt LD50:3700 mg/kg CIGET* -,77

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. See also ARSENIC COMPOUNDS. When heated to decomposition it emits very toxic fumes of SO_x, As, and NO_x.

BKL600 CAS: 38640-62-9 HR: 2
BIS(ISOPROPYL)NAPHTHALENE

mf: C₁₆H₂₀ mw: 212.36

SYNS: DIISOPROPYLNAPHTHALENE □ K 113 □ KMC 113 □ KMC-R 113 □ NAPHTHALENE, BIS(1-METHYLETHYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:3400 mg/kg SCIEAS 36(1-4),10,89

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKL750 CAS: 3006-93-7 HR: 3
1,3-BISMALEIMIDO BENZENE

mf: C₁₄H₈N₂O₄ mw: 268.24

SYNS: 1,3-DISMALEIMIDOBENZENE □ HVA 2 □ HVA-2 CURING AGENT □ M-PHDM □ N,N'-(m-PHENYLENE-)BISMALEIMIDE □ 1,1'-(m-PHENYLENE)BIS-1H-PYROLE-2,5-DIONE (9CI) □ N,N'-(m-PHENYLENE)DIBISMALEIMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1370 mg/kg GISAAA 40(11),109,75

ihl-rat LC50:55 mg/m³/4H EPASR* 8EHQ-0790-1023S

ipr-rat LDLo:50 mg/kg NCNSA6 5,22,53

orl-rat LD50:1370 mg/kg GISAAA 40(11),109,75

orl-mus LD50:250 mg/kg GISAAA 40(11),109,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKL800 CAS: 13676-54-5 HR: 3
BIS(4-MALEIMIDOPHENYL)METHANE

mf: C₂₁H₁₄N₂O₄ mw: 358.37

SYNS: 4,4'-BIPHENYLMETHANEBISMALEIMIDE □ BISMALEIMIDE S □ 4,4-BIS(MALEIMIDO)DIPHENYLMETHANE □ BIS(p-MALEIMIDOPHENYL)METHANE □ 4,4'-BIS(MALEIMIDOPHENYL)METHANE □ p,p'-DIMALEIMIDOPHENYLMETHANE □ 4,4'-DIMALEIMIDOPHENYLMETHANE □ DIPHENYLMETHANE BISMALEIMIDE □ 4,4'-DIPHENYLMETHANEBISMALEIMIDE □ 4,4'-DIPHENYLMETHANEDI-MALEIMIDE □ MALEIMIDE, N,N'-(METHYLENEDI-p-PHENYLENE)DI- □ MB-3000 □ 4,4'-METHYLENEBIS(PHENYLMAL-IDE) □ 1,1'-(METHYLENEDI-4,1-PHENYLENE)BIS-1H-PYRROLE-2,5-DIONE □ 1H-PYRROLE-2,5-DIONE, 1,1'-(METHYLENEDI-4,1-PHENYLENE)BIS-(9CI) □ XU 292A

TOXICITY DATA with REFERENCE:

cyt-ham:ovr 2500 µg/L EPASR* 8EHQ-0491-1069

orl-rat LD50:>5 g/kg GISAAA 40(11),109,75

ihl-rat LC50:350 mg/m³/4H EPASR* 8EHQ-0790-1023S

orl-mus LD50:>5 g/kg GISAAA 40(11),109,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by inhalation. Low toxicity by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

BKM000 CAS: 10193-95-0 HR: 3
BIS(MERCAPTOACETATE)-1,4-BUTANEDIOL

mf: C₈H₁₄O₄S₂ mw: 238.34

SYN: BUTYLENE GLYCOL BIS(MERCAPTOACETATE)

TOXICITY DATA with REFERENCE:

orl-rat LD50:405 mg/kg TRIPA7 -,1,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of SO_x. See also MERCAPTANS.

BKM100 CAS: 73085-26-4 HR: D
BIS(MESCALINIUM)TETRACHLORO-MANGANATE(II)

mf: C₄₄H₆₂Cl₄MnN₂O₁₂ mw: 1007.82

SYNS: BIS-3,4,5-TRIMETHOXY-β-PHENETHYLAMMONIUM TETRACHLOROMANGANATE(II) □ MANGANATE, TETRA CHLORO-, BIS(3,4,5-TRIMETHOXYPHENETHYLAMMONIUM)

TOXICITY DATA with REFERENCE:

OSHA PEL: CL 5 mg(Mn)/m³

ACGIH TLV: TWA 5 mg(Mn)/m³

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

BKM125 CAS: 4672-49-5 HR: 3
1,2-BIS(MESYLOXY)ETHANE

mf: C₄H₁₀O₆S₂ mw: 218.26

SYNS: 1,2-ETHANEDIOL DIMETHANESULFONATE (9CI) □ 1,2-ETHANEDIYL DIMETHANESULFONATE □ ETHYLENE BIS(METHANESULFONATE) □ ETHYLENE DIMETHANE SULFONATE □ ETHYLENE DIMETHANESULPHONATE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:150 mg/kg BJPCAL 24,24,65

SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x. See also SULFONATES.

BKM250 CAS: 97-90-5 HR: 2
1,2-BIS(METHACRYLOYLOXY)ETHANE

mf: C₁₀H₁₄O₄ mw: 198.1

SYNS: AGEFLEX EGDM □ DIGLYCOL DIMETHACRYLATE □ ETHANEDIOL DIMETHACRYLATE □ 1,2-ETHANEDIOL DIMETHACRYLATE □ ETHYLDIOL METACRYLATE □ ETHYLENE GLYCOL BIS(METHACRYLATE) □ ETHYLENE GLYCOL DIMETHACRYLATE □ ETHYLENE METHACRYLATE □ GLYCOL DIMETHACRYLATE □ SARTOMER SR 206 □ SR 206

TOXICITY DATA with REFERENCE:

msc-mus:lym 5820 µmol/L EMMUEG 17,264,91

orl-rat LD50:3300 mg/kg GTPZAB 24(4),58,80

ipr-rat LD50:2800 mg/kg AMPMAR 36,58,75

orl-mus LD50:2000 mg/kg GTPZAB 24(4),58,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKM500 CAS: 1187-00-4 HR: 3
BIS(METHANE SULFONYL)-d-MANNITOL

mf: C₈H₁₈O₁₀S₂ mw: 338.38

SYNS: 1,6-BIS-o-METHYLSULFONYL-d-MANNITOL □ CB 2511 □ 1,6-DIMESYL-d-MANNITOL □ 1,6-DIMETHANESULFONATE-d-MANNITOL □ 1,6-DIMETHANE-SULFONOXY-d-MANNITOL □ 1,6-DIMETHANESULPHONOXY-1,6-DIDEOXY-d-MANNITOL □ DMM □ d-MANNITOL BUSULFAN □ MANNITOL MYLERAN □ MANNOGRANOL □ MM □ NSC-37538

TOXICITY DATA with REFERENCE:

sln-dmg-unk 160 mmol/L ANYAA9 160,228,69

ipr-rat LD50:2000 mg/kg EJCAAH 4,617,68

orl-mus LD50:6000 mg/kg ARZNAD 17,145,67

ivn-dog LDLo:135 mg/kg CCSUBJ 2,203,65

ivn-mky LDLo:135 mg/kg CCSUBJ 2,203,65

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x.

BKM530 CAS: 16071-96-8 HR: 2
BIS(METHANETHIOLATO)TETRANITROSYLDI IRON

mf: C₂H₆Fe₂N₄O₄S₂ mw: 325.94

SYNS: IRON, BIS(MU-(METHANETHIOLATO))TETRANITROSYLDI-, (FE-FE) □ ROUSSIN RED METHYL ESTER □ ROUSSIN'S RED METHYL ESTER

TOXICITY DATA with REFERENCE:

mic-sat 1630 µg/plate JJIND8 66,33,81

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

BKM750 CAS: 7306-46-9 HR: 2
3,4-BIS(METHOXY)BENZYL CHLORIDE

mf: C₉H₁₁ClO₂ mw: 186.65

SYNS: 3,4-DIMETHOXYBENZYL CHLORIDE □ VERATRYL CHLORID (GERMAN) □ VERATRYL CHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4700 mg/kg GTPZAB 26(2),55,82

scu-rat LD50:3000 mg/kg ZEKBAI 74,241,70

orl-mus LD50:5g/kg GTPZAB 26(2),55,82

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Moderately toxic by subcutaneous route. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl⁻.

BKN000 CAS: 3965-55-7 HR: 2
3,5-BIS(METHOXYCARBONYL)BENZENE SULFONIC ACID, SODIUM SALT

mf: C₁₀H₉O₇S•Na mw: 296.24

SYN: 3,5-BIS-METHYLKARBOXY-BENZENSULFONAN SODNY (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H SEV 28ZPAK -,185,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A severe eye irritant. When heated to decomposition it emits toxic fumes of SO_x and Na₂O. See also SULFONATES.

BKN250 CAS: 58306-30-2 HR: 2
N-(2-(2,3-BIS(METHOXYCARBONYL)-GUANIDINO)-5-(PHENYLTHIO)-PHENYL)-2-METHOXYACETAMIDE

mf: C₂₀H₂₂N₄O₆S mw: 446.52

PROP: Solid. Mp: 129–130°.

SYN: FEBANTEL

TOXICITY DATA with REFERENCE:

orl-rat LD50:10,605 mg/kg ARZNAD 28,2193,78

orl-rbt LD50:1250 mg/kg ARZNAD 28,2193,78

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

BKN500 CAS: 60397-73-1 HR: 1
4,4'-BIS((4-(2-METHOXYETHOXY)-6-(N-METHYL-N-2-SULFOETHYL)AMINO-s-TRIAZIN-2-YL) AMINO)-2,2'-STILBENEDI-

SULFONIC ACIDmf: C₃₂H₄₂N₁₀O₁₆S₄ mw: 951.08**TOXICITY DATA with REFERENCE:**

eye-rbt 100 mg MOD MVCRB3 2,193,73

SAFETY PROFILE: An eye irritant. See also SULFONATES. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.**BKN750 CAS: 111-96-6 HR: 3****BIS(2-METHOXY ETHYL)ETHER**mf: C₆H₁₄O₃ mw: 134.48**PROP:** Liquid. Bp: 162°, d: 0.9451, mp: -68°, flash p: 158°F (70°C) (OC), n: (20/D) 1.4097. Misc with water, alc, ether, and hydrocarbon solvents.**SYNS:** DIETHYLENE GLYCOL DIMETHYL ETHER □ DIETHYL GLYCOL DIMETHYL ETHER □ DIGLYME**TOXICITY DATA with REFERENCE:**

sln-dmg-ihl 250 ppm/165M NTIS** PB83-138198

dlt-rat-ihl 1000 ppm/5D-C NTIS** PB83-138198

spm-mus-ihl 1000 ppm/5D-C NTIS** PB83-138198

DFG MAK: 5 ppm**SAFETY PROFILE:** An experimental teratogen. Other experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. Readily forms explosive peroxides upon exposure to air, light, or heat. Solution containing carbon dioxide may react with aluminum hydride to form an explosive product. Other metal hydrides may react similarly. See also ETHERS.**BKO000 CAS: 67856-65-9 HR: 2****BIS(2-METHOXYETHYL)NITROSOAMINE**mf: C₆H₁₄N₂O₃ mw: 162.22**SYN:** N-NITROSOBIS(2-METHOXYETHYL)AMINE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.**BKO100 CAS: 90293-56-4 HR: 3**
2,12-BIS(1-(METHOXYIMINO)ETHYL)-5,9-DIOXO-N,N,N',N',6,8-HEXAMETHYL-4,10-DIOXA-7-THIA-3,6,8,11-TETRAAZATRIDECA-2,11-DIENEDIAMIDEmf: C₁₈H₃₀N₈O₈S mw: 518.62**TOXICITY DATA with REFERENCE:**

orl-rat LD50:25,200 µg/kg USXXAM #4657904

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**BKO250 CAS: 15546-11-9 HR: 3**
BIS(METHOXYMALEOYLOXY)DIBUTYL STANNANEmf: C₁₈H₃₀O₈Sn mw: 491.15**SYNS:** DIBUTYLBIS((3-CARBOXYACRYLOYL)OXY)-STANNANE DIMETHYL ESTER (Z,Z) (8CI) □ DIBUTYLTIN BIS(METHYL MALEATE) □ DIBUTYLTIN BIS(MONOMETHYL MALEATE) □ DIBUTYLTIN METHYL MALEATE □ 6,6-DIBUTYL-4,8,11-TRIOXO-5,7,12-TRIOXA-6-STANNATRIDECA-

2,9-DIENOIC ACID METHYL ESTER □ DI-n-BUTYLZINN-DIMONOMETHYLMALINAT (GERMAN) □ STAN-GUARD 156

TOXICITY DATA with REFERENCE:

orl-rat LD50:62 mg/kg TRIPA7 -,1,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 0.1 mg(Sn)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2mg(Sn)/m³ (skin).**NIOSH REL:** (Organotin Compounds) TWA 0.1mg(Sn)/m³**SAFETY PROFILE:** Poison by ingestion. See also TIN COMPOUNDS. When heated to decomposition it emits acrid smoke and irritating fumes.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**BKO500 CAS: 60494-19-1 HR: 2**
BIS(METHOXYMALEOYLOXY)DIOCTYL STANNANEmf: C₂₆H₄₄O₈Sn mw: 603.39**SYN:** DI-n-OCTYLZINN-DIMONOMETHYLMALINAT (GERMAN)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1673 mg/kg TRIPA7 -,1,73

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2mg(Sn)/m³ (skin).**NIOSH REL:** (Organotin Compounds) TWA 0.1mg(Sn)/m³**SAFETY PROFILE:** Moderately toxic by ingestion. See also TIN COMPOUNDS. When heated to decomposition it emits acrid smoke and irritating fumes.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**BKO600 CAS: 101-70-2 HR: 2**
BIS(4-METHOXYPHENYL)AMINEmf: C₁₄H₁₅NO₂ mw: 229.30**SYNS:** BENZENAMINE, 4-METHOXY-N-(4-METHOXY-PHENYL)- □ 4-BIPHENYLAMINE, 4,4'-DIMETHOXY- □ BIS(p-ANISYL AMINE) □ BIS(p-METHOXYPHENYL)AMINE □ DI-p-ANISYL AMINE □ p,p'-DIMETHOXYDIPHENYLAMINE □ 4,4'-DIMETH OXYDIPHENYLAMINE □ DI-p-METHOXYPHENYL AMINE □ TERMOFLEKS A**TOXICITY DATA with REFERENCE:**

cyt-ham:lng 30 mg/L MUREAV 241,175,90

orl-rat LD50:2470 mg/kg KCRZAE 26(9),28,67

orl-mus LD50:2500 mg/kg KCRZAE 26(9),28,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**BKO750 CAS: 7342-13-4 HR: 2**
4,4'-BIS(4-METHOXY-6-PHENYLAMINO-2-s-TRIAZINYLAMINO)-2,2'-STILBENE-DISULFONIC ACIDmf: C₃₄H₃₀N₁₀O₈S₂ mw: 770.86**SYN:** RYLUX PRS (CZECH)

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H SEV 28ZPAK -,251,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A severe eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.**BKO770 CAS: 64005-84-1 HR: 3**
2,7-BIS(4-METHOXYPHENYL)BENZO(lmn)(3,8)-
PHENANTHROLINE-1,3,6,8(2H,7H)TETRONEmf: C₂₈H₁₈N₂O₆ mw: 478.46**TOXICITY DATA with REFERENCE:**

ipr-mus TDLo:0.23 mg/kg FRMCE8 55,319,2000

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.**BKO800 CAS: 56622-38-9 HR: D**
3,4-BIS(p-METHOXYPHENYL)-3-BUTEN-2-ONEmf: C₁₈H₁₈O₃ mw: 282.36**SYNS:** 3-BUTEN-2-ONE, 3,4-BIS(p-METHOXYPHENYL)- □ 3-BUTEN-2-ONE, 3,4-BIS(4-METHOXYPHENYL)-(9CI)**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.**BKO825 CAS: 33406-36-9 HR: D**
2-(p-(1,2-BIS(p-METHOXYPHENYL)-1-BUTENYL)PHENOXY)TRIETHYLAMINEmf: C₃₀H₃₇NO₃ mw: 459.68**SYNS:** 2-(4-(1,2-BIS(4-METHOXYPHENYL)-1-BUTENYL)PHENOXY)-N,N-DIETHYL-ETHANAMINE (9CI) □ H 774**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.**BKO835 CAS: 42920-39-8 HR: D**
2-(p-(1,2-BIS(p-METHOXYPHENYL)-1-BUTENYL)PHENOXY)TRIETHYLAMINE CITRATEmf: C₃₀H₃₇NO₃•C₆H₈O₇ mw: 651.82**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**BKO840 CAS: 35258-12-9 HR: D**
trans-2-(p-(1,2-BIS(p-METHOXYPHENYL)-1-BUTENYL)PHENOXY)TRIETHYLAMINE
HYDROCHLORIDEmf: C₃₀H₃₇NO₃•ClH mw: 496.14**SYNS:** trans-1,2-BIS(p-METHOXYPHENYL)-1-(p-(2-(N,N-DIETHYLAMINO)ETHOXY)PHENYL)BUT-1-ENE HCl □ H-1067**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.**BKP000 CAS: 69352-67-6 HR: 3**
1,5-BIS(o-METHOXYPHENYL)-3,7-DIAZA
ADMANTAN-9-ONEmf: C₂₂H₂₄N₂O₃ mw: 364.48**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:20 mg/kg JMCAS 5,1293,62

ivn-rbt LD50:66 mg/kg JMCAS 5,1293,62

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.**BKP200 CAS: 24407-55-4 HR: 3**
BIS-(B-o-METHOXYPHENYL-ISOPROPYL)-
AMINE LACTATEmf: C₂₀H₂₇NO₂•C₃H₆O₃ mw: 403.57**SYNS:** o,o'-DIMETHOXY-α-α'-DIMETHYLDIPHENETHYL-AMINE compounded with LACTIC ACID □ DIPHENETHYL-AMINE, o,o'-DIMETHOXY-α-α'-DIMETHYL-, compounded with LACTIC ACID □ U-0045**TOXICITY DATA with REFERENCE:**

skn-rbt 2500 ppm MLD AIPTAK 137,410,62

eye-rbt 1 pph AIPTAK 137,410,62

ipr-mus LD50:51,200 µg/kg AIPTAK 137,410,62

SAFETY PROFILE: Poison by intraperitoneal route. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x.**BKP300 CAS: 53-64-5 HR: D**
2,3-BIS(p-METHOXYPHENYL)-2-PENTENO
NITRILEmf: C₁₉H₁₉NO₂ mw: 293.39**SYNS:** 2,3-BIS(4-METHOXYPHENYL)PENT-2-ENENITRILE □ SC-3296**CONSENSUS REPORTS:** Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.**BKP325 CAS: 2041-74-9 HR: D**
2-(p-(1,2-BIS(p-METHOXYPHENYL)PROPENYL)
PHENOXY)TRIETHYLAMINE, CITRATE,
MONOHYDRATEmf: C₂₉H₃₄NO₃•C₆H₈O₇•H₂O mw: 655.81**SYN:** 2-(p-(1,2-BIS(p-METHOXYPHENYL)PROPENYL)PHENOXY)TRIETHYLAMINE CITRATE HYDRATE**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**BKP400 CAS: 63917-25-9 HR: 2**
BIS(2-METHYLALLYL) DIGLYCOLATE**SYN:** DIGLYCOLIC ACID, BIS(2-METHYLALLYL) ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:500 mg/kg NCNSA6 5,15,1953

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**BKP500 CAS: 2475-44-7 HR: 3**
1,4-BIS(METHYLAMINO)-9,10-ANTHRACENE-
DIONEmf: C₁₆H₁₄N₂O₂ mw: 266.32**SYNS:** ANTHRAQUINONE, 1,4-BIS(METHYLAMINO)- □ C.I. DISPERSE BLUE 78 □ C.I. SOLVENT BLUE 78 □ C.I. SOLVENT

BLUE 93 ☐ DIARESIN BLUE K ☐ DISPERSE BLUE 78 ☐
DISPERSE BLUE 110 ☐ MACROLEX BLUE FR ☐ SOLVENT
BLUE 78 ☐ SOLVENT BLUE 93

TOXICITY DATA with REFERENCE:

mma-sat 5 mg/plate EMMUEG 19(Suppl 20),8,92

ivn-mus LD50:180 mg/kg CSLNX* NX#01356

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKQ250 CAS: 65210-37-9 HR: 3
N,N'-(BIS(2-(2-METHYL-1,3-BENZODIOXOL-2-YL) ETHYL))ETHYLENEDIAMINE DIHYDRO CHLORIDE

mf: C₂₂H₂₈N₂O₄•2ClH mw: 457.44

TOXICITY DATA with REFERENCE:

ivn-rat LD50:20 mg/kg EJMAC5 12,413,77

ipr-mus LD50:90 mg/kg EJMAC5 12,413,77

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

BKQ500 CAS: 10024-74-5 HR: 2
BIS(α-METHYLBENZYL)AMINE

mf: C₁₆H₁₉N mw: 225.36

PROP: Liquid. Mp: -65°, bp: 188.5°, flash p: 175°F (OC), d: 0.9535, vap press: 0.5 mm @ 20°, vap d: 4.18.

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:2930 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Combustible when exposed to heat or flame. To fight fire, use alcohol foam, CO₂, dry chemical. Incompatible with oxidizers. When heated to decomposition it emits toxic fumes of NO_x.

BKQ750 CAS: 74927-02-9 HR: 3
2,6-BIS(1-METHYLBUTYL)PHENOL

mf: C₁₆H₂₆O mw: 234.2

TOXICITY DATA with REFERENCE:

ivn-mus LD50:160 mg/kg JMC MAR 23,1350,80

ivn-rbt LDLo:30 mg/kg JMC MAR 23,1350,80

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

BKQ780 CAS: 68789-89-9 HR: 3
N,N'-BIS-(2-(o-(N-METHYLCARBAMOYL)-OXIMINO)-1,4-DITHIANE)DISULFIDE

mf: C₁₂H₁₈N₄O₄S₆ mw: 474.70

SYNS: N,N'-BIS-(2-(o-(N-METHYLCARBAMOYL)OXIMINO)-1,4-DITHIANE)-DISULFID ☐ 1,4-DITHIAN-2-ONE, o, o'-(DITHIOBIS((METHYLIMINO)CARBONYL))DIOXIME

TOXICITY DATA with REFERENCE:

orl-rat LD50:160 mg/kg GWXXBX #2813281

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

BKR000 CAS: 63982-52-5 HR: 3
1,4-BIS(METHYLCARBAMOXY)-2-ISO-PROPYL-5-METHYLBENZENE

mf: C₁₄H₂₀N₂O₄ mw: 280.36

SYN: TL-1350

TOXICITY DATA with REFERENCE:

orl-rat LD50:60 mg/kg 85ALAU -,107,76

orl-mus LD50:40 mg/kg 85ALAU -,107,76

scu-mus LDLo:20 mg/kg NTIS** PB158-508

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

BKR100 CAS: 68555-34-0 HR: 1
BIS((6-METHYL-3-CYCLOHEXEN-1-YL)-METHYL)ESTER HEXANEDIOIC ACID

mf: C₂₂H₃₄O₄ mw: 362.56

SYNS: ADIPIC ACID, DIESTER with 6-METHYL-3-CYCLOHEXENE-1-METHANOL ☐ ADIPIC ACID, 6-METHYL-3-CYCLOHEXENYL-METHANOL DIESTER

TOXICITY DATA with REFERENCE:

skn-rbt LD50:>16 g/kg TXAPA9 28,313,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BKR250 CAS: 66903-23-9 HR: 2
BIS(3-METHYLCYCLOHEXYL PEROXIDE)

mf: C₁₄H₂₂O₄ mw: 254.36

SYN: 3-METHYLCYCLOHEXANONPEROXID (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV 28ZPAK -,142,72

eye-rbt 250 µg/24H SEV 28ZPAK -,142,72

orl-rat LD50:1500 mg/kg 28ZPAK -,142,72

SAFETY PROFILE: Moderately toxic by ingestion. A severe eye and skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES, ORGANIC.

BKR500 CAS: 64246-03-3 HR: 3
1,1-BIS((3,4-METHYLENEDIOXY)PHENOXY) METHYL-N,N-DIMETHYL-1-BUTANOL CITRATE

mf: C₂₂H₂₇NO₇•C₆H₈O₇ mw: 609.64

SYN: 1,3-BIS-(3,4-METILENEDIOSSIFENOSI)-2-(3-DIMETILAMINOPROPIL)PROPAN-2-OLO CITRATO (ITALIAN)

TOXICITY DATA with REFERENCE:

orl-mus LD50:780 mg/kg FRPSAX 32,502,77

ivn-mus LD50:94 mg/kg FRPSAX 32,502,77

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

BKR750 CAS: 64246-13-5 HR: 3
α,α-BIS((3,4-(METHYLENEDIOXY)PHENOXY) METHYL)-1-PIPERIDINEBUTANOLACETATE CITRATE

mf: C₂₇H₃₃NO₈•C₆H₈O₇ mw: 691.75

TOXICITY DATA with REFERENCE:

orl-mus LD50:700 mg/kg FRPSAX 32,502,77

ivn-mus LD50:32 mg/kg FRPSAX 32,502,77

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

BKS500 HR: 3
1-(1,3-BIS(3,4-(METHYLENEDIOXY)PHENOXY)-2-PROPYL)PYRROLIDINE CITRATE

mf: C₂₁H₂₃NO₆•C₆H₈O₇ mw: 577.59

SYN: 1,3-BIS-(3,4-METILENDIOSSIFENOSI)-2-PIRROLIDINO PROPANO CITRATO (ITALIAN)

TOXICITY DATA with REFERENCE:

orl-mus LD50:195 mg/kg FRPSAX 32,502,77

ivn-mus LD50:58 mg/kg FRPSAX 32,502,77

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

BKS600 CAS: 81897-50-9 HR: 2
2,3:4,5-BIS-o-(1-METHYLETHYLIDENE)-β-d-FRUCTOPYRANOSE, METHYL((2-(1-METHYLETHOXY)PHENOXY)CARBONYL)-AMIDOSULFITE

mf: C₂₃H₃₃NO₁₀S mw: 515.63**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>1 g/kg USXXAM #4315026

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

BKS610 CAS: 81862-13-7 HR: 2
1,2:4,5-BIS-o-(1-METHYLETHYLIDENE)-β-d-FRUCTOPYRANOSE, METHYL((3-METHYL-PHENOXY)CARBONYL) AMIDOSULFITE

mf: C₂₁H₂₉NO₉S mw: 471.57**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>1 g/kg USXXAM #4315026

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

BKS620 CAS: 81862-12-6 HR: 2
2,3:4,5-BIS-o-(1-METHYLETHYLIDENE)-β-d-FRUCTOPYRANOSE, METHYL((3-METHYL-PHENOXY)CARBONYL) AMIDOSULFITE

mf: C₂₁H₂₉NO₉S mw: 471.57**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>1 g/kg USXXAM #4315026

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

BKS630 CAS: 81862-22-8 HR: 2
1,2:4,5-BIS-o-(1-METHYLETHYLIDENE)-β-d-FRUCTOPYRANOSE, METHYL((1-NAPHTH-ALENYLOXY) CARBONYL)AMIDOSULFITE

mf: C₂₄H₂₉NO₉S mw: 507.60**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>1 g/kg USXXAM #4315026

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

BKS640 CAS: 81877-66-9 HR: 3
1,2:5,6-BIS-o-(1-METHYLETHYLIDENE)-α-d-GLUCOFURANOSE, (((2-(DIMETHYL-AMINO)-2-OXO-1-(METHYLTHIO)ETHYLIDENE)AMINO) OXY)CARBONYL)METHYL-AMIDOSULFITE

mf: C₁₉H₃₁N₃O₁₀S₂ mw: 525.65**TOXICITY DATA with REFERENCE:**

orl-mus LD50:25 mg/kg USXXAM #4315026

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

BKS750 CAS: 26087-47-8 HR: 3
O,O-BIS(1-METHYLETHYL)-S-(PHENYL-METHYL)PHOSPHOROTHIOATE

mf: C₁₃H₂₁O₃PS mw: 288.37**PROP:** Yellow oil. Bp: 126° @ 0.04.**SYNS:** O,O-DIISOPROPYL-S-BENZYL PHOSPHOROTHIOATE

□ O,O-DIISOPROPYL-S-BENZYL THIOPHOSPHATE □ IBP □ IPROBENFOS □ KITAZIN L □ KITAZIN P □ RICID II □ RICID P

TOXICITY DATA with REFERENCE:

orl-rat LD50:550 mg/kg GISAAA 50(11),75,85

ihl-rat LC50:2836 mg/m³ GISAAA 51(9),77,86

skn-rat LD50:3708 mg/kg GISAAA 51(9),77,86

ipr-rat LD50:220 mg/kg TOIZAG 29,51,82

scu-rat LD50:525 mg/kg TOIZAG 29,51,82

orl-mus LD50:435 mg/kg GISAAA 50(11),75,85

skn-mus LD50:4 g/kg PEMNDP 9,500,91

ipr-mus LD50:335 mg/kg TOIZAG 29,51,82

scu-mus LD50:1590 mg/kg TOIZAG 29,51,82

SAFETY PROFILE: Poison by intraperitoneal routes. Moderately toxic by ingestion, skin contact, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of SO_x and PO_x. See also ESTERS.

BKS770 CAS: 51308-75-9 HR: 2
BIS((4-(1-METHYLETHYL)PHENYL)METHYL) 3-PYRIDINYLCARBONIMIDODITHIOATE

mf: C₂₆H₃₀N₂S₂ mw: 434.70

SYN: CARBONIMIDODITHIOIC ACID, 3-PYRIDINYL-, BIS((4-(1-METHYLETHYL)PHENYL)METHYL) ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD50:>1 g/kg USXXAM #3899582

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

BKS780 CAS: 126426-74-2 HR: D
(T-4)-(o,o-BIS(1-METHYLETHYL)PHOSPHORO DITHIOATO-S,S')DIPHENYLANTIMONY

mf: C₁₈H₂₄O₂PS₂Sb mw: 489.26

SYN: ANTIMONY, (o,o-BIS(1-METHYLETHYL)PHOSPHORO DITHIOATO-S,S')DIPHENYL-, (T-4)-

TOXICITY DATA with REFERENCE:

mnt-unr-mus 20 mg/kg MBADEI 1,291,1994

cyt-unr-mus 10 mg/kg MBADEI 1,291,1994

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of PO_x, SO_x, and Sb.

BKS800 CAS: 78313-59-4 HR: 3
BIS(2-METHYL-3-HYDROXY-4-METHOXY
METHYL-5-METHYLPYRIDYL)DISULFIDE
DIHYDROCHLORIDE

mf: C₁₈H₂₄N₂O₄S₂•2ClH mw: 469.48

TOXICITY DATA with REFERENCE:

orl-mus LD50:1450 mg/kg PCJOAU 15,79,81

ipr-mus LD50:434 mg/kg PCJOAU 15,79,81

ivn-mus LD50:111 mg/kg PCJOAU 15,79,81

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

BKS810 CAS: 3810-81-9 HR: 3
BIS(METHYLMERCURIC)SULFATE

mf: C₂H₆Hg₂O₄S mw: 527.32

PROP: Platelets from water. Sltly sol in EtOH. Mp: 255° (decomp).

SYNS: ARETAN-NIEUW □ B 4992 □ BIS-(METHYLMERCURY)-SULFATE □ BIS-(METHYLMERKURI)SULFAT □ CERESAN UNIVERSAL-FEUCHTBEIZE □ CEREWET □ COMPOUND-4992

□ MERCURY, SULFATOBIS(METHYL- □ METHYLMERCURIC SULFATE □ SULFURIC ACID, BIS(METHYLMERCURY) SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:50 mg/kg FMCHA2 -,C63,89

OSHA PEL: TWA 0.01 mg(Hg)/m³; STEL 0.03 mg/m³ (skin)

ACGIH TLV: TWA 0.01 mg(Hg)/m³; BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

BKS812 CAS: 5806-00-8 HR: D
BIS(2-METHYL-3-NITROPHENYL)DIAZENE 1-
OXIDE

mf: C₁₄H₁₂N₄O₅ mw: 316.30

SYNS: o,o'-AZOXYTOLUENE, 3,3'-DINITRO- □ DIAZENE, BIS(2-METHYL-3-NITROPHENYL)-, 1-OXIDE □ 2,2'-DIMETHYL-3,3'-DINITROAZOXYBENZENE

TOXICITY DATA with REFERENCE:

mic-sat 1 µmol/plate MUREAV 420,27,1998

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

BKS813 CAS: 67151-57-9 HR: D
BIS(2-METHYL-5-NITROPHENYL)DIAZENE 1-
OXIDE

mf: C₁₄H₁₂N₄O₅ mw: 316.30

SYNS: DIAZENE, BIS(2-METHYL-5-NITROPHENYL)-, 1-OXIDE □ 2,2'-DIMETHYL-5,5'-DINITROAZOXYBENZENE □ 4,4'-DINITRO-2,2'-AZOXYTOLUENE

TOXICITY DATA with REFERENCE:

mic-sat 1 µmol/plate MUREAV 420,27,1998

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

BKS814 CAS: 5679-89-0 HR: D
BIS(4-METHYL-3-NITROPHENYL)DIAZENE 1-
OXIDE

mf: C₁₄H₁₂N₄O₅ mw: 316.30

SYNS: p,p'-AZOXYTOLUENE, 3,3'-DINITRO- □ DIAZENE, BIS(4-METHYL-3-NITROPHENYL)-, 1-OXIDE □ 4,4'-DIMETHYL-3,3'-DINITROAZOXYBENZENE

TOXICITY DATA with REFERENCE:

mic-sat 1 µmol/plate MUREAV 420,27,1998

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

BKS815 CAS: 989-74-2 HR: 3
2,7-BIS(4-METHYLPHENYL)BENZO(Imn)(3,8)-
PHENANTHROLINE-1,3,6,8(2H,7H)TETRONE

mf: C₂₈H₁₈N₂O₄ mw: 446.46

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:0.53 mg/kg FRMCE8 55,319,2000

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

BKS825 CAS: 13018-50-3 HR: 3
N,N'-BIS(1-METHYL-4-PHENYL-4-PIPERIDYL-
METHYL)SEBACAMIDE

mf: C₃₆H₅₄N₄O₂ mw: 574.94

SYNS: N,N'-BIS((1-METHYL-4-PHENYL-4-PIPERIDINYL) METHYL)-DECANEDIAMIDE (9CI) □ DIAMMIDE SEBACICA della 4-FENIL-4-AMMINOMETIL-N-METILPIPERIDINA (ITALIAN) □ 1665 I.S.

TOXICITY DATA with REFERENCE:

ipr-rat LD50:17,500 mg/kg FRPSAX 17,24,62

ivn-rat LD50:12 mg/kg FRPSAX 17,24,62

ipr-mus LD50:5 mg/kg FRPSAX 17,24,62

ivn-mus LD50:2820 µg/kg CSLNX* NX#12224

ipr-gpg LD50:40 mg/kg FRPSAX 17,24,62

ivn-gpg LD50:4 mg/kg FRPSAX 17,24,62

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

BKT250 HR: 3
BIS(2-METHYL PYRIDINE)SODIUM

mf: C₁₂H₁₄N₂Na mw: 209.25

SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of NO_x and Na₂O.

BKT300 CAS: 63942-42-7 HR: 3
N,N'-BIS(2-METHYLSULFONYL-2-METHYL
PROPIONALDEHYDE-o-(N-METHYLCARB
AMOYL)OXIME)SULFIDE

mf: C₁₄H₂₆N₄O₈S₃ mw: 474.62

SYN: PROPANAL, 2-METHYL-2-(METHYLSULFONYL)-o,o'-(THIOBIS((METHYLIMINO)CARBONYL))DIOXIME

TOXICITY DATA with REFERENCE:

orl-rat LD50:28,300 µg/kg USXXAM #4382957

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

BKU000 CAS: 73696-64-7 HR: 2
N,N'-BIS(3-METHYL-2-THIAZOLIDINYLDENE) UREA

mf: C₉H₁₄N₄S₂O mw: 258.39

TOXICITY DATA with REFERENCE:

orl-mus LD50:2000 mg/kg JMC MAR 23,773,80

ipr-mus LD50:1140 mg/kg JMC MAR 23,773,80

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

BKU100 CAS: 68789-90-2 HR: 3
N,N'-BIS-(1-METHYLTHIOACETALDEHYD-o-(N-METHYLCARBAMOYL)OXIME)-DISULFID

mf: C₁₀H₁₈N₄O₄S₄ mw: 386.56

SYNS: DIMETHYL N,N'-(DITHIOBIS((METHYLIMINO) CARBONYLOXY))BISETHANIMIDOTHIOATE □ N,N'-BIS-(1-METHYLTHIOACETALDEHYDE o-(N-METHYLCARBAMOYL) OXIME)DISULFIDE □ ETHANIMIDOTHIOIC ACID, N,N'-(DITHIOBIS((METHYLIMINO)CARBONYLOXY))BIS-, DIMETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:190 mg/kg GWXXBX #2813281

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

BKU120 CAS: 63942-44-9 HR: 3
N,N'-BIS(1-METHYLTHIO-1-(N,N-DIMETHYL-CARBONYL)FORMALDEHYDE-o-(N-METHYLCARBAMOYL)OXIME)SULFIDE

mf: C₁₄H₂₄N₆O₆S₃ mw: 468.62

SYN: ETHANIMIDOTHIOIC ACID, N,N'-(THIOBIS((METHYL-AMINO)CARBONYLOXY))BIS(2-(DIMETHYLAMINO)-2-OXO-, DIMETHYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:7070 µg/kg USXXAM #4382957

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

BKU150 CAS: 113698-50-3 HR: D
3,5-BIS(METHYLTHIO)-N-((5-NITRO-2-FURANYL)METHYLENE)-4H-1,2,4-TRIAZOL-4-AMINE

mf: C₉H₉N₅O₃S₂ mw: 299.35

SYN: 4H-1,2,4-TRIAZOL-4-AMINE, 3,5-BIS(METHYLTHIO)-N-((5-NITRO-2-FURANYL)METHYLENE)-

TOXICITY DATA with REFERENCE:

mic-sat 10 nmol/plate EMMUEG 26,86,1995

mic-sat 16 nmol/plate MUREAV 206,193,1988

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

BKU250 CAS: 14024-75-0 HR: 3
BIS(4-MORPHOLINECARBODITHIOATO) MERCURY

mf: C₁₀H₁₆HgN₂O₂S₄ mw: 525.11

PROP: IDLH 10 mg/m³ (as Hg).

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#02530

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous route. See also MERCURY COMPOUNDS. When heated to decomposition it emits very toxic fumes of SO_x and NO_x and Hg vapors.

BKU500 CAS: 103-34-4 HR: 3
N,N'-BISMORPHOLINE DISULFIDE

mf: C₈H₁₆N₂O₂S₂ mw: 236.38

PROP: Tan to gray powder or crystals. Mp: 124–125°, d: 1.36 @ 25°.

SYNS: ACCEL R □ BISMORPHOLINO DISULFIDE □ DIMORPHOLINE DISULFIDE □ DIMORPHOLINO DISULFIDE □ DITHIOBISMORPHOLINE □ 4,4'-DITHIOBIS(MORPHOLINE) □ N,N-DITHIODIMORPHOLINE □ 4,4'-DITHIODIMORPHOLINE □ 4,4'-DITHIOMORPHOLINE □ MORPHOLINE DISULFIDE □ MORPHOLINODISULFIDE □ SULFASAN □ SULFASAN R POWDER □ USAF B-17 □ USAF EK-T-6645

TOXICITY DATA with REFERENCE:

mma-sat 100 µg/plate PCBRD2 141,407,84

dnr-bcs 1 mg/disc SAIGBL 26,147,84

orl-rat LD50:4300 mg/kg GISAAA 51(12),67,86

orl-mus LD50:1660 mg/kg ARZNAD 11,797,61

ihl-mus LC50:1624 mg/m³ GISAAA 53(3),90,88

ipr-mus LD50:50 mg/kg NTIS** AD277-689

ivn-mus LD50:100 mg/kg CSLNX* NX#02252

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Mutation data reported. See also MORPHOLINE. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

BKU750 CAS: 7440-69-9 HR: 3
BISMUTH

af: Bi aw: 208.98

PROP: Hexagonal silver-white or reddish metallic crystals. Mp: 271.3°, bp: 1420–1560°, d: 9.80, vap press: 1 mm @ 1021°.

SYN: BISMUTH-209

TOXICITY DATA with REFERENCE:

unr-man LDLo:221 mg/kg 85DCAI 2,73,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poisonous to humans. See also BISMUTH COMPOUNDS. Flammable when exposed to

flame. Reaction with $[\text{Bi}(\text{OH})_3 + \text{Al}(\text{OH})_3]$, coprecipitated and H_2 reduced produces a spontaneously flammable product. Moderately dangerous, can react with acid or acid fumes to emit toxic fumes. Incompatible with Al , BrF_3 , acids, NOF , NH_4NO_3 , HClO_3 , Cl_2 , IF_5 , HNO_3 , HClO_4 .

BKV000**HR: 3****BISMUTH AMIDE OXIDE**mf: BiH_2NO mw: 241

SAFETY PROFILE: Stable in liquid NH_3 . Very unstable when free of NH_3 . Upon decomposition it emits toxic fumes of Bi and NO_x . See also BISMUTH COMPOUNDS.

BKV250**CAS: 12001-47-7****HR: 3****BISMUTH ARSPHENAMINE SULFONATE**mf: $\text{C}_{21}\text{H}_{24}\text{As}_3\text{Bi}_2\text{N}_3\text{O}_{12}\text{S}_3 \cdot 3\text{Na}$ mw: 1318.35**SYNS:** BISMARSEN □ SULFARSPHENAMINE BISMUTH**TOXICITY DATA with REFERENCE:**

ims-rat LDLo: 500 mg/kg ADSYAF 28,389,33

ipr-mus LDLo: 128 mg/kg CBCCT* 2,241,50

ims-rbt LDLo: 150 mg/kg ADSYAF 28,389,33

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: A poison by intraperitoneal and intramuscular routes. See also ARSENIC COMPOUNDS and BISMUTH COMPOUNDS. When heated to decomposition it emits very toxic fumes of Na_2O , NO_x , SO_x , As, and Bi.

BKV750**HR: 3****BISMUTH COMPOUNDS**

SAFETY PROFILE: Bismuth and its salts can cause kidney damage, although the degree of such damage is usually mild. Large doses can be fatal. Industrially it is considered one of the less toxic of the heavy metals, although intoxication has occurred from its use in medicine. The similarity between the pharmacologic and toxic behavior of lead and bismuth has been pointed out in the literature. Like lead, bismuth may be liberated from tissue deposits during periods of acidosis. Serious and sometimes fatal poisoning may occur from the injection of large doses into closed cavities and from extensive application to burns. Death of animals from bismuth nephritis following injections of soluble salts occurs within several hours to 24 days, the time being generally inversely proportional to the dose, and it appears to be in the order of 5–10 times higher than the dose by slow intravenous injection for rabbits. It is stated that the administration of bismuth should be stopped when gingivitis appears, for otherwise serious ulcerative stomatitis is likely to result. Other toxic results may develop, such as malaise, albuminuria, diarrhea, skin reactions, and sometimes serious exodermitis. Industrial bismuth poisoning has not been reported, although bismuth absorbed in industrial cases may complicate a diagnosis of plumbism, since the dark line in the gums, which is often present in lead poisoning, is also produced by bismuth. All bismuth compounds do not have equal toxicity. See also individual entries.

Treatment and Antidotes: Personnel showing some of the symptoms noted above, which might indicate that they were absorbing too much bismuth into the body, should be removed from exposure as soon as possible. Get medical advice. Personnel should be cautioned against careless handling of these materials.

BKW000**CAS: 21260-46-8****HR: 1****BISMUTH DIMETHYL DITHIOCARBAMATE**mf: $\text{C}_9\text{H}_{18}\text{N}_3\text{S}_6 \cdot \text{Bi}$ mw: 569.64**SYNS:** BISMATE □

TRIS(DIMETHYLDITHIOCARBAMATO)BISMUTH

TOXICITY DATA with REFERENCE:

orl-mus LD50: 20 g/kg RCTEA4 44,512,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion.

Questionable carcinogen with experimental tumorigenic data. See also BISMUTH COMPOUNDS and CARBAMATES. When heated to decomposition it emits very toxic fumes of SO_x and NO_x .

BKW100**CAS: 1304-85-4****HR: 1****BISMUTH HYDROXIDE NITRATE OXIDE**mf: $\text{Bi}_5\text{H}_9\text{N}_4\text{O}_{22}$ mw: 1462.03

SYNS: BASIC BISMUTH NITRATE □ BISMUTH MAGISTERY □ BISMUTH SUBNITRATE □ BISMUTH SUBNITRICUM □ BISMUTH WHITE □ BISMUTHYL NITRATE □ BLANC de FARD □ C.I. 77169 □ C.I. PIGMENT WHITE 17 □ COSMETIC WHITE □ FLAKE WHITE □ MAGISTERY OF BISMUTH □ NOVISMUTH □ PAINT WHITE □ SNOWCAL 5SW □ SPANISH WHITE □ VICALIN

TOXICITY DATA with REFERENCE:

orl-inf TDLo: 259 mg/kg:BLD JAMAAP 133,1280,47

orl-inf LDLo: 1 g/kg 34ZIAG -,134,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Human systemic effects by ingestion: methemoglobinemia and carboxyhemoglobin. When heated to decomposition it emits toxic vapors of NO_x and Bi.

BKW250**CAS: 10361-44-1****HR: 3****BISMUTH NITRATE**mf: BiN_3O_9 mw: 395.01

PROP: Triclinic, colorless, sltly hygroscopic crystals. Bp: $-5\text{H}_2\text{O}$ @ 80° , d: 2.83, mp: 30° (decomp).

SYN: NITRIC ACID, BISMUTH(3+) SALT**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo: 2500 mg/kg APFRAD 34,173,76

ivn-mus LDLo: 21 mg/kg APFRAD 34,173,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Bi and NO_x . See also BISMUTH COMPOUNDS and NITRATES.

BKW500**CAS: 12232-97-2****HR: 3****BISMUTH NITRIDE**

mf: BiN mw: 222.99

SAFETY PROFILE: Very unstable; explodes when shaken, heated, or on contact with water and dilute acids. When heated to decomposition it emits toxic fumes of Bi and NO_x. See also BISMUTH COMPOUNDS and NITRIDES.

BKW600 CAS: 1304-76-3 HR: 1
BISMUTH OXIDE

mf: Bi₂O₃ mw: 465.96

SYNS: BISMUTHOUS OXIDE □ BISMUTH(3+) OXIDE □ BISMUTH SESQUIOXIDE □ BISMUTH TRIOXIDE □ BISMUTH YELLOW □ C.I. 77160 □ DIBISMUTH TRIOXIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 g/kg GTPZAB 30(6),16,86

orl-mus LD50:10 g/kg GTPZAB 30(6),16,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Slightly toxic by ingestion. When heated to decomposition it emits toxic vapors of Bi.

BKW750 CAS: 7787-62-4 HR: 3
BISMUTH PENTAFLUORIDE

mf: BiF₅ mw: 303.98

PROP: Crystals or long white needles. Very sensitive to moisture. Mp: 154°, bp: 230°. Sol in FSO₃H. Sublimes @ 550°.

SAFETY PROFILE: An irritant poison via ingestion and inhalation routes. Decomposes vigorously and sometimes ignites on contact with moisture to yield O₃ and bismuth trifluoride. Very dangerous. Reacts violently with water and petrolatum above 50°, and acids at room temperature, liberating much heat and ozone. When heated to decomposition it emits highly toxic fumes of F⁻. See also FLUORIDES and OZONE.

BKW850 CAS: 32707-10-1 HR: 3
BISMUTH PERCHLORATE

mf: BrClO₄ mw: 308.43

PROP: Red liquid. Mp: -78°.

SAFETY PROFILE: A shock-sensitive explosive. When heated to decomposition it emits toxic fumes of Bi and Cl⁻. See also BISMUTH COMPOUNDS and PERCHLORATES.

BKX000 HR: 3
BISMUTH PLUTONIDE

mf: BiPu mw: 451

SAFETY PROFILE: Ignites spontaneously in air. All plutonium compounds are extremely dangerous; when heated to decomposition it emits toxic fumes of Pu and Bi. See also BISMUTH COMPOUNDS and PLUTONIUM COMPOUNDS.

BKX250 CAS: 63732-98-9 HR: 3
BISMUTH POTASSIUM SODIUM TARTRATE (SOLUBLE)

SYNS: SODIUM POTASSIUM BISMUTH TARTRATE (SOLUBLE) □ SOLUBLE TARTRO-BISMUTHATE □ TREPOL (FRENCH)

TOXICITY DATA with REFERENCE:

ims-rbt LD50:55 mg/kg JPETAB 87,119,46

ims-mam LDLo:3000 mg/kg JPETAB 28,109,26

SAFETY PROFILE: Poison by intramuscular route. See also BISMUTH COMPOUNDS. When heated to decomposition it emits toxic fumes of oxides of Na₂O, K₂O, and Bi.

BKX500 CAS: 5806-84-8 HR: 3
BISMUTH SODIUM-p-AMINOPHENYL-ARSONATE

mf: C₆H₆AsNO₃•BiO•Na mw: 463.02

SYNS: p-ARSANILIC ACID, BISMUTH, SODIUM SALT □ ARSENO-BISMULAK

TOXICITY DATA with REFERENCE:

ivn-rat LD50:631 mg/kg UCLEAR 48,183,44

ims-rat LDLo:875 mg/kg UCLEAR 48,183,44

ivn-rbt LD50:312 mg/kg UCLEAR 48,183,44

ims-rbt LDLo:750 mg/kg UCLEAR 48,183,44

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

OSHA PEL: TWA 0.5 mg(As)/m³

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intramuscular route. See also BISMUTH COMPOUNDS and ARSENIC COMPOUNDS. When heated to decomposition it emits very toxic fumes of As, Bi, Na₂O and NO_x.

BKX750 CAS: 150-49-2 HR: 3
BISMUTH SODIUM THIOGLYCOLLATE

mf: C₆H₆BiNa₃O₆S₃ mw: 548.25

SYNS: BISTRIMATE □ MERCAPTOACETIC ACID, SODIUM-BISMUTH SALT □ SODIUM BISMUTH THIOGLYCOLATE □ SODIUM BISMUTH THIOGLYCOLLATE □ THIOBISMOL

TOXICITY DATA with REFERENCE:

orl-chd LD50:47,222 mg/kg/22W-I JAMAAP 198,187,66

ims-chd LDLo:2500 µg/kg JOPDAB 28,498,46

ims-chd TDLo:43 mg/kg:SYS JOPDAB 31,580,47

ims-chd TDLo:650 µg/kg AMDCA5 97,384,59

SAFETY PROFILE: Systemic toxic effects in children: somnolence, nausea or vomiting, kidney damage, and decreased urine volume. Poison by intramuscular route. See also BISMUTH COMPOUNDS. When heated to decomposition it emits very toxic fumes of SO_x and Na₂O.

BKX800 CAS: 57644-54-9 HR: 3
BISMUTH SUBCITRATE

mf: C₁₂H₈O₇•Bi•3K mw: 590.48

SYNS: DE-NOL □ DE-NOLTAB □ DUOSOL (ULCER TREATMENT) □ 1,2,3-PROPANETRICARBOXYLIC ACID, 2-HYDROXY-, BISMUTH(3+) POTASSIUM SALT (2:1:3) □ TRIPOTASSIUM DICITRATOBISMUTHATE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:1539 mg/kg TOLED5 109(Suppl 1),54,1999

orl-mus TDLo:320 mg/kg NETEEC 22,559,2001

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

BKY000 CAS: 1304-82-1 HR: 3
BISMUTH TELLURIDE

mf: Bi₂Te₃ mw: 800.76

PROP: Gray crystals or solid. D: 7.7.

SYNS: BISMUTH SESQUITELLURIDE □ BISMUTH TELLURIDE, UNDOPE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: Total Dust: TWA 0.1 mg(Te)/m³; Respirable Fraction: TWA 5 mg/m³; Se doped: 5 mg/m³

ACGIH TLV: TWA 10 mg/m³; Not Classifiable as a Human Carcinogen; Se doped: 5 mg/m³; Not Classifiable as a Human Carcinogen

SAFETY PROFILE: Moderate fire hazard by spontaneous chemical reaction with powerful oxidizers. Reacts with moisture to evolve a toxic gas. Slight explosion hazard by chemical reaction with powerful oxidizers; reacts with moisture. When heated to decomposition it emits toxic fumes of Te. See also BISMUTH COMPOUNDS and TELLURIUM COMPOUNDS.

BKY250 CAS: 12010-67-2 HR: 3
BISMUTH TIN OXIDE

mf: Bi₂O₃Sn₃•5H₂O mw: 1008.13

SYN: BISMUTH STANNATE PENTAHYDRATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:178 mg/kg CSLNX* NX#02286

OSHA PEL: TWA 2 mg(Sn)/m³

ACGIH TLV: TWA 2 mg(Sn)/m³

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Poison by intravenous route. See also TIN COMPOUNDS and BISMUTH COMPOUNDS. When heated to decomposition it emits acid smoke and irritating fumes.

BKY300 CAS: 12048-51-0 HR: 2
BISMUTH TITANIUM OXIDE

mf: Bi₂O₃Ti₂ mw: 625.76

SYN: BISMUTH TITANATE(IV)

TOXICITY DATA with REFERENCE:

orl-rat LD50:>12 g/kg IMSUAI 31,302,62

ipr-rat LD50:2200 mg/kg IMSUAI 31,302,62

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of Bi and Ti.

BKY500 CAS: 19025-95-7 HR: 3
BISMUTH TRISODIUM THIOGLYCOLLATE

mf: C₆H₆BiO₆S₃•3Na mw: 548.25

SYNS: THIOBISMOL □ TRIS(MERCAPTOACETATO(2-1))BISMUTHATE(3-) TRISODIUM

TOXICITY DATA with REFERENCE:

unr-chd TDLo:8163 µg/kg AJSGA3 21,674,37

ipr-rat LDLo:26 mg/kg ADSYAF 15,550,27

ivn-rat LDLo:23 mg/kg ADSYAF 15,550,27

ims-rat LDLo:29 mg/kg ADSYAF 15,550,27

ipr-gpg LDLo:26 mg/kg ADSYAF 15,550,27

SAFETY PROFILE: Poison by intraperitoneal, intravenous, and intramuscular routes. Human systemic effects by an unspecified route: convulsions and kidney damage. See also BISMUTH COMPOUNDS. When

heated to decomposition it emits toxic fumes of SO_x, Bi, and Na₂O.

BKY600 CAS: 7787-68-0 HR: 2
BISMUTH TRISULFATE

mf: Bi•3/2H₂O₄S mw: 356.12

SYNS: DIBISMUTH TRISULFATE □ BISMUTH SULFATE □ SULFURIC ACID, BISMUTH(3+) SALT (3:2)

TOXICITY DATA with REFERENCE:

orl-rat LD50:2500 mg/kg GISAAA 35(11),18,1970

orl-mus LD50:1600 mg/kg GISAAA 35(11),18,1970

orl-rbt LD50:5625 mg/kg GISAAA 35(11),18,1970

orl-gpg LD50:3750 mg/kg GISAAA 35(11),18,1970

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

BKZ000 HR: 3
2,5-BIS-(NITRATOMERCURIMETHYL)-1,4-DIOXANE

mf: C₆H₁₀Hg₂N₂O₈ mw: 639.36

PROP: IDLH 10 mg/m³ (as Hg).

SYN: 1,4-DIOXOLAN-2,5-DIYLDIMETHYLENEBIS(NITROMERCURY)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:18 mg/kg CSLNX* NX#06958

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous route. See also MERCURY COMPOUNDS and NITRATES. When heated to decomposition it emits very toxic fumes of NO_x and Hg vapors.

BLA000 CAS: 13826-66-9 HR: 2
BIS(NITRATO-O)OXOZIRCONIUM

mf: N₂O₇Zr mw: 231.24

PROP: IDLH 50 mg/m³ (as Zr).

SYN: ZIRCONYL NITRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2500 mg/kg AIHOAX 1,637,50

ipr-rat LD50:1250 mg/kg AIHOAX 1,637,50

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 5 mg(Zr)/m³; STEL 10 mg(Zr)/m³

ACGIH TLV: TWA 5 mg(Zr)/m³; STEL 10 mg(Zr)/m³

DFG MAK: 1 mg(Zr)/m³

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

BLA250 HR: 3

BIS-p-NITRO BENZENE DIAZO SULFIDEmf: C₁₂H₈N₆O₄S mw: 332.3

SAFETY PROFILE: Explosion Hazard: The dry material is extremely sensitive; avoid even light friction. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also SULFIDES and NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

**BLA500 CAS: 100-32-3 HR: D
BIS(p-NITROPHENYL)DISULFIDE**mf: C₁₂H₈N₂O₄S₂ mw: 308.34**PROP:** Needles from AcOH. Mp: 182°.

SYNS: BIS(4-NITROPHENYL)DISULFIDE □ p,p'-DINITRO DIPHENYL DISULFIDE □ 4,4'-DINITRODIPHENYL DISULFIDE □ DI-4-NITROPHENYL DISULFIDE

TOXICITY DATA with REFERENCE:

mmo-sat 50 µg/plate MUREAV 67,123,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**BLA600 CAS: 645-15-8 HR: 2
BIS(4-NITROPHENYL) PHOSPHATE**mf: C₁₂H₉N₂O₈P mw: 340.20

SYNS: BIS(p-NITROPHENYL) PHOSPHATE □ BNPP □ DI-p-NITROPHENYL PHOSPHATE □ PHENOL, p-NITRO-, HYDROGEN PHOSPHATE □ PHOSPHORIC ACID, BIS(p-NITROPHENYL) ESTER □ PHOSPHORSAEURE-BIS-(p-NITRO-PHENYLESTER)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:410 mg/kg HSZPAZ 348,609,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**BLA750 CAS: 1223-31-0 HR: 2
BIS(p-NITROPHENYL)SULFIDE**mf: C₁₂H₈N₂O₄S mw: 276.28**PROP:** Orange plates from AcOH. Mp: 156–157°.**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1490 mg/kg MarJV# 29MAR77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**BLA800 CAS: 860-39-9 HR: 3
BIS(2-NITRO-4-TRIFLUOROMETHYLPHENYL)
DISULFIDE**mf: C₁₄H₆F₆N₂O₄S₂ mw: 444.34

SYNS: DISULFIDE, BIS(2-NITRO-α-α-TRIFLUORO-p-TOLYL) □ USAF MA-9

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 NO_x, SO_x, and F⁻.

**BLB250 CAS: 4731-77-5 HR: 1
BIS(OCTANOYLOXY)DI-n-BUTYL STANNANE**mf: C₂₄H₄₈O₄Sn mw: 519.41

SYNS: BIS(OCTANOYLOXY)DI-n-BUTYL TIN □ DIBUTYLBIS(OCTANOYLOXY)STANNANE □ DIBUTYLBIS((1-OXOOCTYL)OXY)STANNANE □ DIBUTYLTIN DICAPRYLATE □ DIBUTYLTIN DIOCTANOATE □ DIBUTYLTIN DIOCTATE □ DIBUTYLTIN OCTANOATE □ KAPRYLAN DI-N-BUTYLCINICITY (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV 28ZPAK -,229,72

eye-rbt 20 mg/24H MOD 28ZPAK -,229,72

ipr-mus LD50:14 g/kg JPMSAE 55,158,66

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Low toxicity. A severe skin and eye irritant. See also TIN COMPOUNDS. When heated to decomposition it emits acrid and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

**BLB500 CAS: 19546-20-4 HR: 1
2,2-BIS(3'-tert-OCTYL)-4'-HYDROXYPHENYL
PROPANE**mf: C₃₁H₄₈O₂ mw: 452.79

SYNS: ANTIOXIDANT TOD (CZECH) □ 2,2-BIS-3'-terc.OKTYL-4'-HYDROXYFENYLPROPAN (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,58,72

eye-rbt 100 mg/24H SEV 28ZPAK -,58,72

orl-rat LD50:4920 mg/kg 28ZPAK -,58,72

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

**BLB750 CAS: 131-15-7 HR: 1
BIS(2-OCTYL)PHTHALATE**mf: C₂₄H₃₈O₄ mw: 390.62

SYNS: BIS(2-OCTYL)PHTHALATE □ BIS-(2-OKTYL)ESTER KYSELINY FTALOVE □ CAPRYL o-PHTHALATE □ DICAPRYL 1,2-BENZENEDICARBOXYLATE □ DICAPRYL PHTHALATE □ DIOCTANOL-2-PHTHALATE □ MONOPLEX DCP □ PHTHALIC ACID, BIS(2-OCTYL) ESTER □ PHTHALIC ACID, DICAPRYL ESTER □ PHTHALIC ACID, DI-2-OCTYL ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LD50:14 g/kg JPMSAE 55,158,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**BLC000 CAS: 868-18-8 HR: 2
BISODIUM TARTRATE**

mf: $C_4H_4O_6 \cdot 2Na$ mw: 194.06

PROP: Transparent crystals; colorless and odorless. Sol in water.

SYNS: 2,3-DIHYDROXY-(R-(R*,R*))-(R)-BUTANEDIOIC ACID DISODIUM SALT (9CI) □ DISODIUM TARTRATE □ DISODIUM L-(+)-TARTRATE □ SODIUM TARTRATE (FCC) □ SODIUM L-(+)-TARTRATE

TOXICITY DATA with REFERENCE:

orl-mus LDLo:3686 mg/kg JAPMA8 31,12,42

orl-rbt LDLo:5290 mg/kg FAONAU 53A,512,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BLC100 CAS: 154869-43-9 HR: D
(8S-(8R*,16R*))-(R)-8,16-BIS(2-OXOPROPYL)-1,9-DIOXACYCLOHEXADECANE-2,5,10-TRIONE

mf: $C_{20}H_{30}O_7$ mw: 382.50

SYN: 1,9-DIOXACYCLOHEXADECANE-2,5,10-TRIONE, 8,16-BIS(2-OXOPROPYL)-, (8S-(8R*,16R*))-

TOXICITY DATA with REFERENCE:

msc-ham-Ing 50 mg/L PHARAT 48,854,93

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

BLC250 CAS: 10380-28-6 HR: 3
BIS(8-OXYQUINOLINE)COPPER

mf: $C_{18}H_{12}CuN_2O_2$ mw: 351.86

PROP: Yellow-green powder or crystals. Insol in H_2O and common org solvs.

SYNS: BIOQUIN □ BIOQUIN 1 □ BIS(8-QUINOLINATO)COPPER □ BIS(8-QUINOLINOLATO)COPPER □ BIS(8-QUINOLINOLATO-N¹,O⁸)-COPPER □ CELLU-QUIN □ COPPER-8 □ COPPER HYDROXYQUINOLATE □ COPPER-8-HYDROXYQUINOLATE □ COPPER-8-HYDROXYQUINOLINATE □ COPPER-8-HYDROXYQUINOLINE □ COPPER OXINATE □ COPPER (2+) OXINATE □ COPPER OXINE □ COPPER OXYQUINOLATE □ COPPER OXYQUINOLINE □ COPPER QUINOLATE □ COPPER-8-QUINOLATE □ COPPER-8-QUINOLINOL □ COPPER QUINOLINOLATE □ COPPER-8-QUINOLINOLATE □ CUNILATE □ CUNILATE 2472 □ CUPRIC-8-HYDROXYQUINOLATE □ CUPRIC-8-QUINOLINOLATE □ DOKIRIN □ FRUITDO □ 8-HYDROXYQUINOLINE COPPER COMPLEX □ MILMER □ OXIME COPPER □ OXINE COPPER □ OXINE CUIVRE □ OXYQUINOLINOLEATE de CUIVRE (FRENCH) □ QUINONDO

TOXICITY DATA with REFERENCE:

mma-sat 5 µg/plate MUREAV 116,185,83

orl-rat LD50:9930 mg/kg GISAAA 51(1),85,86

ihl-rat LC50:820 mg/m³ NNGADV 16,563,91

ipr-rat LD50:22 mg/kg NNGADV 16,563,91

orl-mus LD50:3940 mg/kg GISAAA 51(1),85,86

ipr-mus LD50:67 mg/kg TXAPA9 5,599,63

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 15,103,77. Reported in EPA TSCA Inventory. Copper and its compounds are on the Community Right-To-Know List. EPA FIFRA 1988 pesticide subject to registration or re-registration.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and inhalation. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. See also COPPER COMPOUNDS. When heated to decomposition it emits toxic fumes of NO_x .

BLC500 CAS: 117-97-5 HR: 2
BIS(PENTACHLOROPHENOL), ZINC SALT

mf: $C_{12}Cl_{10}S_2Zn$ mw: 628.11

SYN: PENTACHLOROTHIOFENOLAT ZINECNATY (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV 28ZPAK -,11,72

eye-rbt 250 µg/24H SEV 28ZPAK -,11,72

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

SAFETY PROFILE: A severe eye and skin irritant. See also ZINC COMPOUNDS and CHLORINATED HYDROCARBONS, AROMATIC. When heated to decomposition it emits very toxic fumes of ZnO , Cl^- and SO_x .

BLC750 HR: 3
BIS(PENTA FLUORO PHENYL)ALUMINUM BROMIDE

mf: $C_{12}AlBrF_{10}$ mw: 441

SAFETY PROFILE: Ignites spontaneously in air. Hydrolysis causes explosion. When heated to decomposition it emits toxic fumes of F^- and Br^- . See also ALUMINUM COMPOUNDS.

BLD000 CAS: 42310-84-9 HR: 3
BISPENTAFLUOROSULFUR OXIDE

mf: $F_{10}OS_2$ mw: 270.12

PROP: Colorless liquid. Mp: -118° , bp: 31° .

SYN: SULFUR FLUORIDE OXIDE

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:20 ppm/6H BJIMAG 27,1,70

OSHA PEL: TWA 2.5 mg(F)/m³

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

NIOSH REL: TWA 2.5 mg(F)/m³

SAFETY PROFILE: Poison by inhalation. See also FLUORIDES. When heated to decomposition it emits very toxic fumes of F^- and SO_x .

BLD250 HR: 3
BIS(2,4-PENTANEDIONATO)CHROMIUM

mf: $C_{10}H_{14}CrO_4$ mw: 250.21

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

SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits acrid smoke and fumes. See also CHROMIUM COMPOUNDS.

BLD325 CAS: 93431-23-3 HR: 2
4,5-BIS(4-PENTENYLOXY)-2-IMIDAZOLIDINONE

mf: $C_{13}H_{22}N_2O_3$ mw: 254.37

SYN: SRC-16

TOXICITY DATA with REFERENCE:

orl-mus LD50:740 mg/kg CPBTAL 12,843,64

ipr-mus LD50:450 mg/kg CPBTAL 12,843,64

scu-mus LD50:621 mg/kg CPBTAL 12,843,64

SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.**BLD500****CAS: 80-05-7****HR: 3****BISPHENOL A**mf: C₁₅H₁₆O₂ mw: 228.31**PROP:** White flakes; mild phenolic odor. Mp: 156–157°, bp: 250–252° @ 13 mm. Insol in water; sol in alcohol and dilute alkalis; sltly sol in CCl₄.**SYNS:** BISFEROL A (GERMAN) □ 2,2-BIS-4'-HYDROXYFENYL-PROPAN (CZECH) □ BIS(4-HYDROXYPHENYL) DIMETHYLMETHANE □ BIS(4-HYDROXYPHENYL)PROPANE □ 2,2-BIS(p-HYDROXYPHENYL)PROPANE □ 2,2-BIS(4-HYDROXYPHENYL)PROPANE □ DIAN □ p,p'-DIHYDROXYDIPHENYLDIMETHYLMETHANE □ 4,4'-DIHYDROXYDIPHENYLDIMETHYLMETHANE □ p,p'-DIHYDROXYDIPHENYLPROPANE □ 2,2-(4,4'-DIHYDROXYDIPHENYL)PROPANE □ 4,4'-DIHYDROXY DIPHENYLPROPANE □ 4,4'-DIHYDROXYDIPHENYL-2,2-PROPANE □ 4,4'-DIHYDROXY-2,2-DIPHENYLPROPANE □ β-DI-p-HYDROXYPHENYLPROPANE □ 2,2-DI(4-HYDROXYPHENYL) PROPANE □ DIMETHYL BIS(p-HYDROXY-PHENYL)METHANE □ DIMETHYLMETHYLENE-p,p'-DIPHENOL □ 2,2-DI(4-PHENYLOL) PROPANE □ p,p'-ISO-PROPYLIDENEBISPENOL □ 4,4'-ISOPROPYLIDENE-BISPENOL □ p,p'-ISOPROPYLIDENE DIPHENOL □ NCI-C50635**TOXICITY DATA with REFERENCE:**

skn-rbt 250 mg open MLD UCDS** 7/14/65

eye-rbt 20 mg/24H SEV 28ZPAK -,58,72

orl-rat LD50:3250 mg/kg AIHAAP 28,301,67

orl-mus LD50:2500 mg/kg AIHAAP 28,301,67

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

orl-rbt LD50:2230 mg/kg AIHAAP 28,301,67

skn-rbt LD50:3000 mg/kg AMIHBC 4,119,51

CONSENSUS REPORTS: NTP Carcinogenesis Bioassay (feed); Inadequate Studies: mouse, rat NTPTR* NTP-TR-215,82. Community Right-To-Know List. Reported in EPA TSCA Inventory.**DFG MAK:** 5 ppm**SAFETY PROFILE:** Poison by intraperitoneal route. Moderately toxic by ingestion, inhalation, and skin contact. Experimental teratogenic and reproductive effects. A skin and eye irritant. When heated to decomposition it emits acrid and irritating fumes.**BLD750****CAS: 1675-54-3****HR: 3****BISPENOL A DIGLYCIDYL ETHER**mf: C₂₁H₂₄O₄ mw: 340.45**SYNS:** 2,2-BIS(4-(2,3-EPOXYPROPYLOXY)PHENYL)PROPANE □ BIS(4-GLYCIDYLOXYPHENYL)DIMETHYLMETHANE □ 2,2-BIS(p-GLYCIDYLOXYPHENYL)PROPANE □ BIS(4-HYDROXYPHENYL)DIMETHYLMETHANE DIGLYCIDYL ETHER □ 2,2-BIS(p-HYDROXYPHENYL)PROPANE, DIGLYCIDYL ETHER □ 2,2-BIS(4-HYDROXYPHENYL)PROPANE, DIGLYCIDYL ETHER □ D.E.R. 332 □ DIGLYCIDYL BISPENOL A ETHER □ DIGLYCIDYL ETHER of 2,2-BIS(p-HYDROXYPHENYL)-PROPANE □ DIGLYCIDYL ETHER of 2,2-BIS(4-HYDROXY-

PHENYL) PROPANE □ DIGLYCIDYL ETHER of BISPENOL A □ DIGLYCIDYL ETHER of 4,4'-ISOPROPYLIDENEDIPHENOL □ 4,4'-DIHYDROXYDIPHENYLDIMETHYLMETHANE DIGLYCIDYL ETHER □ p,p'-DIHYDROXYDIPHENYLDIMETHYLMETHANE DIGLYCIDYL ETHER □ EPI-REZ 508 □ EPI-REZ 510 □ EPON 828 □ EPOXIDE A □ ERL-2774 □ 4,4'-ISOPROPYLIDENEDIPHENOL DIGLYCIDYL ETHER □ 2,2'-((1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE))BISOXIRANE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 4/21/67

eye-rbt 2 mg/24H SEV 28ZPAK -,137,72

mmo-sat 50 µg/plate MUREAV 66,367,79

mma-sat 50 µg/plate MUREAV 66,367,79

skn-mus TD:312 g/kg/2Y-I:CAR,REP CNREA8 39,1718,79

orl-rat LD50:11,300 µL/kg UCDS** 4/21/67

ipr-rat LD50:2200 mg/kg 38MKAJ 2A,2219,81

orl-mus LD50:15,600 mg/kg 38MKAJ 2A,2219,81

ipr-mus LD50:4 g/kg 38MKAJ 2A,2219,81

orl-rbt LD50:1980 mg/kg 38MKAJ 2A,2219,81

skn-rbt LD50:20 mg/kg 38MKAJ 2A,2219,81

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**SAFETY PROFILE:** Suspected carcinogen. Poison by skin contact. Mildly toxic by ingestion. Mutation data reported. A skin and severe eye irritant. Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic and tumorigenic data. See also ETHERS. When heated to decomposition it emits acrid and irritating fumes.**BLD800****CAS: 2444-90-8****HR: 2****BISPENOL A DISODIUM SALT**mf: C₁₅H₁₆O₂•2Na mw: 274.29**SYNS:** BISPENOL A SODIUM SALT □ DIPHENYLOL-PROPANE DISODIUM SALT □ 4,4'-(1-METHYLETHYLIDENE)BISPENOL DISODIUM SALT □ PHENOL, 4,4'-ISOPROPYLENEDI-, DISODIUM SALT □ PHENOL, 4,4'-ISOPROPYLIDENEDI-, DISODIUM DERIV. □ PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, DISODIUM SALT □ SODIUM, (ISOPROPYLDENE)BIS(p-PHENYLENEOXY))DI-**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD NTIS** OTS0536776

eye-rbt 200 mg SEV NTIS** OTS0536776

orl-rat LD50:1 g/kg NTIS** OTS0536776

skn-rat LD50:>1 g/kg NTIS** OTS0536776

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A moderate skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**BLD810****CAS: 1565-94-2****HR: D****BISPENOL A GLYCIDYLMETHACRYLATE**mf: C₂₉H₃₆O₈ mw: 512.65**SYNS:** BIS-GMA □ NUPOL 1629 □ NUPOL 46-4005 □ 2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIYL)) ESTER**TOXICITY DATA with REFERENCE:**

mic-sat 800 µLg/plate TOLED5 31(Suppl),214,1986

dni-hmn-hla 80 µmol/L MUREAV 368,181,1996

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BLE000 **CAS: 17601-12-6** **HR: 2**
BIS(P-PHENOXYPHENYL)DIPHENYLTHIO ETHER, MODIFIED
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. See also BIS(PHENOXYPHENYL)DIPHENYLTHIO ETHER and ETHERS.

BLE250 **CAS: 17601-12-6** **HR: 3**
BIS(P-PHENOXYPHENYL)DIPHENYLTHIO ETHER
 mf: $C_{36}H_{28}O_2Sn$ mw: 611.33
SYN: BIS(P-PHENOXYPHENYL)DIPHENYLTHIO ETHER
TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#01351

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLE500 **CAS: 74-31-7** **HR: 3**
1,4-BIS(PHENYL AMINO)BENZENE
 mf: $C_{18}H_{16}N_2$ mw: 260.36
PROP: Gray crystals or solid. D: 1.20, mp: 147°, vap d: 9.0.

SYNS: AGERITE □ AGERITEDPPD □ N,N'-DIPHENYL-P-PHENYLENEDIAMINE (CZECH) □ DIPHENYL-P-PHENYLENE DIAMINE □ N,N'-DIPHENYL-P-PHENYLENEDIAMINE □ DPPD □ FLEXAMINE G □ JZF □ NONOX DPPD □ P-PHENYLAMINO DIPHENYLAMINE □ 4-PHENYLAMINO-DIPHENYLAMINE □ USAF GY-2

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H SEV 28ZPAK -,73,72

mma-sat 10 µg/plate PCBRD2 141,407,84

msc-ham:lng 30 mg/L SWEHDO 9(Suppl 2),27,83

orl-rat LD50:2370 mg/kg 28ZPAK -,73,72

orl-mus LD50:18 g/kg GTPZAB 10(3),49,66

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. A weak allergen. Experimental teratogenic and reproductive effects. An eye irritant. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Combustible when exposed to heat or flame; can react with oxidizing materials. When heated to decomposition it emits toxic fumes of NO_x.

BLE550 **CAS: 69657-89-2** **HR: D**
5,8-BIS((2-PHENYLETHYL)AMINO)-1,4-DIHYDROXY-9,10-ANTHRACENEDIONE

mf: $C_{30}H_{26}N_2O_4$ mw: 478.58

SYN: 9,10-ANTHRACENEDIONE, 5,8-BIS((2-PHENYLETHYL)AMINO)-1,4-DIHYDROXY-

TOXICITY DATA with REFERENCE:

mic-sat 500 µLg/plate MUREAV 66,9,1979

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

BLE600 **CAS: 222420-31-7** **HR: 3**
2,7-BIS(2-PHENYLETHYL)BENZO(Imn)(3,8)-HENANTHROLINE-1,3,6,8(2H,7H)-TETRONE
 mf: $C_{30}H_{22}N_2O_4$ mw: 474.52

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:0.61 mg/kg FRMCE8 55,319,2000

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

BLE650 **CAS: 106897-63-6** **HR: 3**
2,7-BIS(PHENYLMETHYL)BENZO(Imn)(3,8)-PHENANTHROLINE-1,3,6,8(2H,7H)TETRONE
 mf: $C_{28}H_{18}N_2O_4$ mw: 446.46

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:0.67 mg/kg FRMCE8 55,319,2000

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

BLF250 **CAS: 13754-23-9** **HR: 3**
BIS-N,N'-(3-PHENYLPROPYL-2)-PIPERAZINE DIHYDROCHLORIDE

mf: $C_{22}H_{30}N_2 \cdot 2ClH$ mw: 395.46

SYNS: N,N'-BIS(PHENYLISOPROPYL)PIPERAZINE DIHYDROCHLORIDE □ DIPHENAZINE DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:230 mg/kg ARZNAD 7,225,57

scu-mus LD50:193 mg/kg 27ZQAG -,223,72

ivn-mus LD50:25 mg/kg ARZNAD 7,225,57

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

BLF500 **CAS: 1666-13-3** **HR: 3**
BIS(PHENYLSELENIDE)
 mf: $C_{12}H_{10}Se_2$ mw: 312.14

PROP: Yellow needles from hexane. Mp: 63–65°.

SYN: PHENYL DISELENIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:28 mg/kg CSLNX* NX#05657

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

OSHA PEL: TWA 0.2 mg(Se)/m³

ACGIH TLV: TWA 0.2 mg(Se)/m³

DFG MAK: 0.1 mg(Se)/m³

SAFETY PROFILE: Poison by intravenous route. See also SELENIUM COMPOUNDS. When heated to decomposition it emits toxic fumes of Se.

BLF600 **CAS: 17058-53-6** **HR: 3**
2,5-BIS(PHENYLTHIO)BENZOQUINONE

mf: C₁₈H₁₂O₂S₂ mw: 324.42**SYNS:** p-BENZOQUINONE, 2,5-BIS(PHENYLTHIO)- □ 2,5-BIS(PHENYLTHIO)-p-BENZOQUINONE □ 2,5-

CYCLOHEXADIENE-1,4-DIONE, 2,5-BIS(PHENYLTHIO)- □ USAF PD-18

TOXICITY DATA with REFERENCE:

mor-rat-lvr 2 mg/L JNCIAM 55,375,1975

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

SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic vapors of SO_x.**BLF750 CAS: 4848-63-9 HR: 3
BIS(PHENYLTHIO)DIMETHYL TIN**mf: C₁₄H₁₆S₂Sn mw: 367.11**SYN:** DIMETHYLBIS(PHENYLTHIO)STANNANE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#01670

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).**NIOSH REL:** (Organotin Compounds) TWA 0.1 mg(Sn)/m³**SAFETY PROFILE:** Poison by intravenous route. See also TIN COMPOUNDS. When heated to decomposition it emits toxic fumes of SO_x.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**BLG000 CAS: 316.37 HR: 3
1,3-BIS((PHENYL)TRIAZENO)BENZENE**mf: C₁₈H₁₆N₆ mw: 316.37**SAFETY PROFILE:** Explodes on rapid heating. When heated to decomposition it emits toxic fumes of NO_x.**BLG100 CAS: 52237-03-3 HR: 1
4,4'-BIS(4-PHENYL-2H-1,2,3-TRIAZOL-2-YL)-
2,2'-STILBENEDISULFONIC ACID
DIPOTASSIUM SALT**mf: C₃₀H₂₀N₆O₆S₂•2K mw: 702.88 2**SYNS:** DIPOTASSIUM 4,4'-BIS(4-PHENYL-1,2,3-TRIAZOL-2-YL)STILBENE-2,2'-DISULFONATE □ DIPOTASSIUM 4,4'-BIS(4-PHENYL-1,2,3-TRIAZOL-2-YL)STILBENE-2,2'-SULFONATE □ 2,2'-STILBENEDISULFONIC ACID, 4,4'-BIS(4-PHENYL-2H-1,2,3-TRIAZOL-2-YL)-, DIPOTASSIUM SALT □ 2,2'-STILBENE DISULFONIC ACID, 4,4'-BIS(4-PHENYL-1,2,3-TRIAZOL-2-YL), DIPOTASSIUM SALT**TOXICITY DATA with REFERENCE:**

eye-rbt 100 mg MOD CTOXAO 13,171,78

SAFETY PROFILE: Experimental reproductive effects. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x and SO_x.**BLG250 CAS: 2439-99-8 HR: 2
N,N-BIS(PHOSPHONOMETHYL)GLYCINE**mf: C₄H₁₁NO₈P₂ mw: 263.10**PROP:** Crystals from EtOH (aq). Mp: 200° (decomp). Very sol in H₂O, sltly sol in EtOH, insol in C₆H₆.**SYNS:** GLYPHOSINE □ POLARIS**TOXICITY DATA with REFERENCE:**

orl-rat LD50:3925 mg/kg 85AREA 3,60,76/77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and PO_x.**BLG280 CAS: 1639-79-8 HR: 3
1,3-BIS(2-PIPERIDINOETHYL)-5-PHENYL-5-
PIPERIDINOBARBITURIC ACID CITRATE
(1:2)**mf: C₂₉H₄₃N₅O₃ mw: 509.77**SYNS:** BARBITURIC ACID, 1,3-BIS(2-PIPERIDINOETHYL)-5-PHENYL-5-PIPERIDINO- □ 5,5-PHENYLPIPERIDINO-1,3-BIS(β-PIPERIDINOAEHTYL)-BARBITURSACITRAT □ 2,4,6-(1H,3H,5H)-PYRIMIDINETRIONE, 5-PHENYL-5-(1-PIPERIDINYL)-1,3-BIS(2-(1-PIPERIDINYL)ETHYL)- □ WU 461**TOXICITY DATA with REFERENCE:**

scu-mus LD50:>1 g/kg PHARAT 14,357,1959

ivn-mus LD50:50 mg/kg PHARAT 19,762,1964

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x.**BLG325 CAS: 60012-89-7 HR: 2
3,8-BIS(1-PIPERIDINYL METHYL)-2,7-DIOXA-
SPIRO(4.4)NONANE-1,6-DIONE**mf: C₁₉H₃₀N₂O₄ mw: 350.51**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:1160 mg/kg PJPPAA 28,157,76

orl-mus LD50:6 g/kg PJPPAA 28,157,76

ipr-mus LD50:820 mg/kg PJPPAA 28,157,76

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.**BLG400 CAS: 7652-64-4 HR: 2
N,N'-BISPROPYLENEISOPHTHALAMIDE**mf: C₁₄H₁₆N₂O₂ mw: 244.32**SYNS:** AZIRIDINE, 1,1'-ISOPHTHALOYL BIS(2-METHYL)- □ AZIRIDINE, 1,1'-(1,3-PHENYLENEDICARBONYL) BIS(2-METHYL)-(9CI) □ HX 752 □ 1,1'-(1,3-PHENYLENE-DICARBONYL) BIS(2-METHYL)AZIRIDINE**TOXICITY DATA with REFERENCE:**

eye-rbt 500 mg SEV WHYHAQ 14(5),1,85

mmo-sat 1500 ng/plate WHYHAQ 14(5),1,85

mma-sat 1500 ng/plate WHYHAQ 14(5),1,85

mnt-mus-orl 240 mg/kg WHYHAQ 14(5),1,85

cyt-rat-orl 240 mg/kg WHYHAQ 14(5),1,85

orl-rat LD50:1230 mg/kg WHYHAQ 14(5),1,85

orl-mus LD50:593 mg/kg WHYHAQ 14(5),1,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A severe eye irritant. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**BLG500 CAS: 1113-14-0 HR: 3
trans-1,2-BIS(n-PROPYLSULFONYL)ETHYLENE**mf: C₈H₁₆O₄S₂ mw: 240.36**SYNS:** B-1843 □ C-272 □ CHEMAGRO B-1843 □ VANCIDE PA □ VANCIDE PA DISPERSION

TOXICITY DATA with REFERENCE:

orl-rat LD50:200 mg/kg FMCHA2 -,C49,83

ipr-rat LD50:11,500 µg/kg 34ZIAG -,161,69

ipr-mus LDLo:11,500 mg/kg 34ZIAG -,162,69

ipr-gpg LDLo:11,500 mg/kg 34ZIAG -,162,69

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

BLG600 CAS: 14915-37-8 HR: 2
BIS(2-PYRIDINETHIOL 1-OXIDE)COPPER

mf: C₁₀H₈CuN₂O₂S₂ mw: 315.86

SYNS: COPPER, BIS(1-(HYDROXY-KAPPAO)-2(1H)-PYRIDINE THIONATO-KAPPAS2)- □ COPPER, BIS(1-HYDROXY-2(1H)-PYRIDINETHIONATO)- □ COPPER, BIS(1-HYDROXY-2(1H)-PYRIDINETHIONATO-O,S)- □ OM 1562 □ OMADINE, CUPRIC □ 2-PYRIDINETHIOL, 1-OXIDE, CU DERIV.

TOXICITY DATA with REFERENCE:

orl-rat LD50:1075 mg/kg NTIS** OTS0554076

ihl-rat LC50:70 mg/m³/4H NTIS** OTS0554076

skn-rbt LD50:>2 g/kg NTIS** OTS0554076

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

BLH250 CAS: 14167-18-1 HR: 3
BIS(SALICYLALDEHYDE)ETHYLENEDIIMINE
COBALT(II)

mf: C₁₆H₁₄CoN₂O₂ mw: 325.25

PROP: Red crystals from DMF. Sol in C₆H₆, CHCl₃ and Py.

SYNS: N,N'-ETHYLENEBIS(SALICYLIDENEIMINATO)-COBALT(II) □ SALCOMIN □ SALCOMINE POWDER □ SALICYLALDEHYDE ETHYLENEDIIMINE COBALT

TOXICITY DATA with REFERENCE:

ihl-mus LCLo:390 mg/m³/5.5H AMRI** TR-74-78,74

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

SAFETY PROFILE: Poison by inhalation. See also COBALT COMPOUNDS and ALDEHYDES. When heated to decomposition it emits toxic fumes of NO_x.

BLH309 CAS: 28660-67-5 HR: 3
BIS(TETRADECANOYLOXY)DIBUTYL-
STANNANE

mf: C₃₆H₇₂O₄Sn mw: 687.77

SYNS: DI-n-BUTYL-TIN DI(TETRADECANOATE) □ MYRISTAN DI-n-BUTYLCHINICITY (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV 28ZPAK -,230,72

eye-rbt 5 mg/24H SEV 28ZPAK -,230,72

orl-rat LD50:138 mg/kg 28ZPAK -,230,72

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Poison by ingestion. A severe skin and eye irritant. See also TIN COMPOUNDS. When heated to decomposition it emits smoke and acrid fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLH315 CAS: 6667-75-0 HR: D
BIS(TETRAETHYLAMMONIUM) TETRACHLORO
COBALTATE(II)

mf: C₁₆H₄₀Cl₄CoN₂ mw: 461.31

SYNS: COBALTATE(2-), TETRACHLORO-, BIS(TETRAETHYL-AMMONIUM) □ ETHANAMINIUM, N,N,N-TRIETHYL-, TETRACHLOROCOBALTATE(2-) (2:1) □ TETRACHLORO-COBALTATE(2-) BIS(TETRAETHYLAMMONIUM)

TOXICITY DATA with REFERENCE:

mic-sat 600 µmol/plate MUREAV 172,97,1986

msc-mus-mmrl 1500 nmol/L MUREAV 261,131,1991

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

BLH325 CAS: 62987-05-7 HR: 3
1,3-BIS(TETRAHYDRO-2-FURYL)-5-FLUORO
URACIL

mf: C₁₂H₁₅FN₂O₄ mw: 270.29

SYNS: 1,3-BIS(TETRAHYDRO-2-FURANYL)-5-FLUORO-2,4-PYRIMIDINEDIONE □ FD-1 □ 5-FLUORO-1,3-BIS(TETRAHYDRO-2-FURANYL)-2,4(1H,3H)-PYRIMIDINEDIONE

TOXICITY DATA with REFERENCE:

cyt-ham:fbr 100 nmol/L MUREAV 88,241,81

orl-rat LD50:1730 mg/kg GANNA2 71,30,80

orl-mus LD50:2664 mg/kg JMCMA 21,738,78

orl-dog LD50:88,100 µg/kg OYAA2 16,303,78

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

BLH400 CAS: 62524-93-0 HR: D
7-(3,5-BIS((TETRAHYDRO-2H-PYRAN-2-YL)-
OXY)-2-(4-PHENOXY-3-((TETRAHYDRO-2H-
PYRAN-2-YL)OXY)-1-BUTENYL)-CYCLO-
PENTYL)-2-(PHENYLSELENO)-5-HEPTEN-
OIC ACID, METHYL ESTER

mf: C₄₄H₆₀O₉Se mw: 812.00

TOXICITY DATA with REFERENCE:

ACGIH TLV: TWA 0.2 mg(Se)/m³

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

BLI000 CAS: 68594-19-4 HR: 3
1,6-BIS(5-TETRAZOLYL)HEXAAZ-1,5-DIENE

mf: C₂H₄N₁₄ mw: 224.14

SAFETY PROFILE: An explosive extremely sensitive to pressure or heating to 90°C. Upon decomposition it emits toxic fumes of NO_x. See also EXPLOSIVES and AZIDES.

BLI250 CAS: 1656-16-2 HR: 3
3,4-BIS(1,2,3,4-THIATRIAZOL-5-YL THIO)
MALEIMIDE

mf: C₄H₇N₃O₂S₄ mw: 307.34

SAFETY PROFILE: Explodes on impact or when heated to its melting point. When heated to decomposition it emits toxic fumes of NO_x and SO_x. See also EXPLOSIVES.

BLI500 **CAS: 142-46-1** **HR: 3**
BIS(1,2,3,4-THIATRIAZOL-5-YL THIO)METHANE

mf: C₃H₂N₆S₄ mw: 250.33

SAFETY PROFILE: On impact or on heating to its melting point it explodes loudly with a flash. Upon decomposition it emits toxic fumes of SO_x and NO_x. See also EXPLOSIVES.

BLJ250 **CAS: 142-46-1** **HR: 3**
BIS(THIOUREA)

mf: C₂H₆N₄S₂ mw: 150.24

PROP: Needles from H₂O. Mp: 214–223° (decomp).

SYNS: BISTHIOCARBAMYL HYDRAZINE □ 2,5-DITHIOBIUREA □ 1,2-HYDRAZINEDICARBOTHIOAMIDE □ NCI-C03009 □ USAF B-44 □ USAF EK-P-6281

TOXICITY DATA with REFERENCE:

sce-ham:ovr 145 mg/L EMMUEG 10(Suppl 10),1,87

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

CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-132,79. Reported in EPA TSCA Inventory.

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

BLJ500 **CAS: 142-46-1** **HR: 3**
BISTOLUENE DIAZO OXIDE

mf: C₁₄H₁₄N₄O mw: 254.29

SAFETY PROFILE: Ignites spontaneously. Explosion Hazard: Very unstable. Shock and friction sensitive. Incompatible with toluene. Upon decomposition it emits toxic fumes of NO_x. See also AZIDES.

BLK000 **CAS: 128-80-3** **HR: 2**
1,4-BIS(p-TOLYLAMINO)ANTHRAQUINONE

mf: C₂₈H₂₂N₂O₂ mw: 418.52

PROP: Dark green crystals or powder. Sol in C₆H₆ or acids; sltly sol in Me₂CO; insol in H₂O and EtOH.

SYNS: ALIZARINE CYANINE GREEN BASE □ AMAPLAST GREEN OZ □ ARLOSOL GREEN B □ BIS-1,4-p-TOLYLAMINO ANTHRCHINON (CZECH) □ C-GREEN 10 □ C.I. 61565 □ C.I. SOLVENT GREEN 3 □ CYANINE GREEN G BASE □ D&C GREEN No. 6 □ 1,4-DI-p-TOLUIDINOANTHRAQUINONE □ FAT SOLUBLE GREEN ANTHRAQUINONE □ 11091 GREEN □ GREEN No. 2 □ MICRO-LEX GREEN 5B □ NITRO FAST GREEN GB □ ORGANOL FAST GREEN J □ QUINIZARINE GREEN BASE □ SUDAN GREEN 4B □ TOYO ORIENTAL OIL BLUE G □ WAXOLINE GREEN

TOXICITY DATA with REFERENCE:

eye-rbt 20 mg/24H MOD 28ZPAK -,124,72

orl-rat LD50:3660 mg/kg 28ZPAK -,124,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BLK250 **CAS: 63869-05-6** **HR: 3**
N-BIS(p-TOLYLSULFONYL)AMIDOMETHYL MERCURY

mf: C₁₅H₁₇HgNO₄S₂ mw: 540.04

PROP: IDLH 10 mg/m³ (as Hg).

SYNS: N-METHYLMERCURI-BIS-p-TOLUENSULFONAMID (CZECH) □ METHYL(4-METHYL-N-((4-METHYLPHENYL)SULFONYL)BENZENESULFONAMIDATO-N)-MERCURY

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,223,72

eye-rbt 50 µg/24H SEV 28ZPAK -,223,72

orl-rat LD50:98,900 µg/kg 85JCAE -,1211,86

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

OSHA PEL: TWA 0.01 mg(Hg)/m³; STEL 0.03 mg/m³ (skin)

ACGIH TLV: TWA 0.01 mg(Hg)/m³; BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by ingestion. A skin and severe eye irritant. See also MERCURY COMPOUNDS and SULFONATES. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and Hg.

BLK500 **CAS: 85681-49-8** **HR: D**
3,5-BIS(o-TOLYL)-s-TRIAZOLE

mf: C₁₆H₁₅N₃ mw: 249.34

SYN: s-TRIAZOLE, 3,5-BIS(o-TOLYL)-

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

BLK600 **CAS: 115566-02-4** **HR: 3**
BISTRAMIDE A

mf: C₄₀H₆₈N₂O₈ mw: 705.10

TOXICITY DATA with REFERENCE:

ice-rat LDLo:1 mg/kg TOXIA6 26,1129,1988

ipr-mus LD50:1500 µg/kg TOXIA6 26,1129,1988

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

BLK750 **CAS: 10347-38-3** **HR: 3**
BIS(TRIBENZYLSTANNYL)SULFIDE

mf: C₄₂H₄₂SSn₂ mw: 816.28

SYNS: BIS(TRIBENZYL-TIN) SULFIDE □ DISTANNATHIANE, HEXAKIS(PHENYLMETHYL)-(9CI) □ SIRNIK TRIBENZYL CINICTY (CZECH) □ THIOBIS(TRIBENZYL-TIN) (8CI)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,233,72

eye-rbt 500 mg/24H SEV 28ZPAK -,233,72

orl-rat LD50:314 mg/kg 28ZPAK -,233,72

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Poison by ingestion. A skin and eye irritant. See also TIN COMPOUNDS and SULFIDES. When heated to decomposition it emits toxic fumes of SO_x.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLL000 CAS: 30099-72-0 HR: 3

BIS(TRIBUTYL(SEBACOYLIDIOXY))TIN

mf: C₃₄H₇₀O₄Sn₂ mw: 780.42

SYN: SEBACOYLIDIOXYBIS(TRIBUTYLSTANNANE)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:18 mg/kg CSLNX* NX#03600

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLL250 CAS: 12291-11-1 HR: 3

BIS(TRI-n-BUTYLSTANNYL)CYCLOPENTADIENYL)IRON

mf: C₃₄H₆₂FeSn₂ mw: 764.19

SYN: 1,1'-BIS(TRIBUTYLSTANNYL)FERROCENE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#05870

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLL500 CAS: 25711-26-6 HR: 3

BIS(TRIBUTYL TIN) ITACONATE

mf: C₂₉H₅₈O₄Sn₂ mw: 708.25

SYN: METHYLENESUCCINYL OXYBIS(TRIBUTYLSTANNANE)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#03635

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLL750 CAS: 56-35-9 HR: 3

BIS(TRIBUTYL TIN)OXIDE

mf: C₂₄H₅₄OSn₂ mw: 596.16

PROP: Air-sensitive liquid. D: 1.17 @ 20°/4°, bp: 220–230° @ 10 mm.

SYNS: BIOMET TBTO □ BIS-(TRI-N-BUTYL)CIN)OXID (CZECH)

□ BIS(TRIBUTYLOXIDE) of TIN □ BIS(TRIBUTYLSTANNYL

)OXIDE □ BIS(TRI-N-BUTYLZINN)-OXYD (GERMAN) □ BTO □

BUTINOX □ C-Sn-9 □ ENT 24,979 □ HEXABUTYLDISTANNO

XANE □ HEXABUTYLDITIN □ KYSLICNIK TRI-N-BUTYL

CINICITY (CZECH) □ L.S. 3394 □ OTBE (FRENCH) □ OXYBIS

(TRIBUTYL TIN) □ OXYDE de TRIBUTYLETAIN □ TBOT □

TBTO □ TRI-n-BUTYL-STANNANE OXIDE □ TRIBUTYL TIN OXIDE

TOXICITY DATA with REFERENCE:

eye-rbt 50 µg/24H SEV 28ZPAK -,232,72

eye-rbt 460 µg BJIMAG 26,165,69

dni-omi 56,200 ppb AEMIDF 45,48,83

dni-omi 56,200 ppb AEMIDF 45,48,83

orl-rat LD50:87 mg/kg MarJV# 29MAR77

ipr-rat LD50:7210 µg/kg FCTXAV 7,47,69

scu-rat LD50:11,700 mg/kg TRIPA7 -,1,73

orl-mus LD50:55 mg/kg GISAAA 41(5),10,76

ipr-mus LD50:12,500 µg/kg RPTOAN 42,73,79

ivn-mus LD50:6 mg/kg EJTAX 9,31,76

orl-rbt LDLo:50 mg/kg SAIGBL 15,3,73

skn-rbt LD50:900 mg/kg EJTAX 9,31,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

DFG MAK: 0.0021 ppm (0.05 mg/m³)

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: A poison by ingestion, intraperitoneal, and intravenous routes. Moderately toxic by skin contact. An experimental teratogen. Other experimental reproductive effects. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. A severe eye irritant. See also TIN COMPOUNDS. When heated to decomposition it emits acrid and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLL825 CAS: 881-99-2 HR: 2

m-BIS(TRICHLORMETHYL)BENZENE

mf: C₈H₄Cl₆ mw: 312.82

SYNS: m-BIS(TRICHLOROMETHYL)BENZENE □ 1,3-

BIS(TRICHLOROMETHYL)BENZENE □ 1,3-DI(TRICHLORO

METHYL)BENZENE □ α,α'-HEXACHLORO-m-XYLENE □

α,α,α,α',α',α'-HEXACHLOROXYLENE □ α,α,α,α',α',α'-

HEXACHLORO-m-XYLENE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD 34ZIAG -,308,69

orl-rat LD50:2924 mg/kg GNAMAP 21,34,82

SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. A skin irritant. Violent reaction when heated with oxidants (e.g., potassium nitrate, selenium dioxide, and sodium chlorate). When heated to decomposition it emits toxic fumes of Cl^- . See CHLORINATED HYDROCARBONS, AROMATIC.

BLM000 CAS: 2629-78-9 HR: 3

BIS(TRICHLOROACETYL)PEROXIDE

mf: $\text{C}_4\text{Cl}_6\text{O}_4$ mw: 324.76
 $\text{Cl}_3\text{CCO}\cdot\text{OOCO}\cdot\text{CCl}_3$

PROP: Shock-sensitive crystals from CCl_3F .

SAFETY PROFILE: A very shock-sensitive explosive which may detonate at room temperature. Upon decomposition it emits toxic fumes of Cl^- . See also PEROXIDES.

BLM250 HR: 3

BIS-2,4,5-TRICHLORO BENZENE DIAZO OXIDE

mf: $\text{C}_{12}\text{H}_4\text{Cl}_6\text{N}_4\text{O}$ mw: 212.72

SAFETY PROFILE: Ignites spontaneously. Explodes on impact or on contact with benzene. Upon decomposition it emits toxic fumes of Cl^- and NO_x .

BLM500 CAS: 3064-70-8 HR: 3

BIS(TRICHLOROMETHYL)SULFONE

mf: $\text{C}_2\text{Cl}_6\text{O}_2\text{S}$ mw: 300.78

SYN: N-1386 BIOCID

TOXICITY DATA with REFERENCE:

orl-rat LD50:691 mg/kg TOXID9 4,16,84
 ivn-mus LD50:18 mg/kg CSLNX* NX#04617

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BLM750 CAS: 2532-50-5 HR: 3

BIS(TRICHLORO METHYL)TRISULFIDE

mf: $\text{C}_2\text{Cl}_6\text{S}_3$ mw: 332.90

SYNS: BISTRICHLOROMETHYLTRISULFID (CZECH) □ TRITHIOBIS(TRICHLOROMETHANE)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,170,72
 eye-rbt 100 mg/24H SEV 28ZPAK -,170,72
 orl-rat LD50:676 mg/kg 28ZPAK -,170,72
 ivn-mus LD50:56 mg/kg CSLNX* NX#04597

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. A skin and eye irritant. See also SULFIDES. When heated to decomposition it emits very toxic fumes of Cl^- and SO_x .

BLN000 CAS: 63885-02-9 HR: 2

BIS(2,3,5-TRICHLOROPHENYLTHIO)ZINC

mf: $\text{C}_{12}\text{H}_4\text{Cl}_6\text{S}_2\text{Zn}$ mw: 490.35

SYN: 2,3,5-TRICHLOROFENOLAT ZINECNATY (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,11,72
 eye-rbt 50 µg/24H SEV 28ZPAK -,11,72
 orl-rat LD50:4260 mg/kg 28ZPAK -,11,72

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

SAFETY PROFILE: Mildly toxic by ingestion. A severe eye and skin irritant. See also ZINC COMPOUNDS and CHLORINATED HYDROCARBONS, AROMATIC. When heated to decomposition it emits very toxic fumes of ZnO , Cl^- and SO_x .

BLN100 CAS: 80660-68-0 HR: 3
BIS(TRIETHYLENETETRAMINE)TUNGSTATO NICKEL

mf: $\text{C}_{12}\text{H}_{36}\text{N}_8\text{O}_4\text{W}\cdot\text{Ni}$ mw: 599.12

SYNS: NICKEL(2+), BIS(N,N'-BIS(2-AMINOETHYL)-1,2-ETHANE DIAMINE-N,N',N''), (T-4)-TETRAOXOTUNGSTATE(2-)(1:1) □ NICKEL, BIS(TRIETHYLENETETRAMINE)TUNGSTATO-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:82,500 µg/kg IJBA6 19,1187,81

CONSENSUS REPORTS: NTP 10th Report on Carcinogens.

OSHA PEL: TWA 1 mg(Ni)/m³

ACGIH TLV: TWA 5 mg(W)/m³; STEL 10 mg(W)/m³

SAFETY PROFILE: Confirmed human carcinogen.

Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x , Ni, and W.

BLN200 CAS: 63919-19-7 HR: 3
BIS(TRIETHYLLEAD)SILICONHEXAFLUORIDE

mf: $\text{C}_6\text{H}_{15}\text{Pb}\cdot 1/2\text{F}_6\text{Si}$ mw: 365.44

SYNS: PLUMBUM, TRIETHYL-, HEXAFLUOROSILICATE (2-)(2:1) □ TL 1125

TOXICITY DATA with REFERENCE:

ihl-mus LCLo:640 mg/m³/10M NDRC** No.9-4-1-19,43

SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits toxic vapors of Pb.

BLN250 HR: 3

BIS(TRIETHYL TIN)ACETYLENE

mf: $\text{C}_{14}\text{H}_{30}\text{Sn}_2$ mw: 435.77

SAFETY PROFILE: A sensitive, powerful explosive. Incompatible with stannic chloride. When heated to decomposition it emits acrid smoke and fumes. See also TIN COMPOUNDS and ACETYLENE COMPOUNDS.

BLN500 CAS: 57-52-3 HR: 3

BIS(TRIETHYL TIN) SULFATE

mf: $\text{C}_{12}\text{H}_{30}\text{O}_4\text{SSn}_2$ mw: 507.86

SYNS: TRIAETHYLZINNUSULFAT (GERMAN) □ TRIETHYL HYDROXY-STANNANE SULFATE (2:1) (8CI) □ TRIETHYL HYDROXYTIN SULFATE □ TRIETHYL TIN SULPHATE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:10 mg/kg BJPCAL 10,16,55
 ipr-rat LD50:5700 µg/kg BJPCAL 10,16,55
 scu-rat LDLo:25 mg/kg BJPCAL 10,16,55
 ivn-rat LD50:9050 µg/kg AEPPAE 242,370,61
 par-rat LD50:6 mg/kg BIJOAK 61,406,55
 orl-rbt LDLo:10 mg/kg BJPCAL 10,16,55
 ivn-rbt LDLo:3 mg/kg BJPCAL 10,16,55
 ipr-gpg LD50:3 mg/kg BJMAG 23,222,66
 ivn-brd LDLo:3 mg/kg BJPCAL 10,16,55

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, intravenous, and parenteral routes. See also TIN COMPOUNDS and SULFATES. When heated to decomposition it emits toxic fumes of SO_x.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLN750 CAS: 52112-09-1 HR: 3
BIS(TRIFLUOROACETOXY)DIBUTYL TIN

mf: C₁₂H₁₈F₆O₄Sn mw: 458.99

SYNS: DIBUTYL TIN BIS(TRIFLUOROACETATE) □ DIBUTYLBIS(TRIFLUOROACETOXY)STANNANE □ DTBT □ STANNOUS DIBUTYLDITRIFLUOROACETATE □ TIN DIBUTYLDITRIFLUOROACETATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:55 mg/kg GISA 46(7),18,81

skn-rat LD50:1 g/kg GISA 46(7),18,81

orl-mus LD50:53,600 µg/kg GISA 41(5),10,76

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. See also TIN COMPOUNDS and FLUORIDES. When heated to decomposition it emits toxic fumes of F⁻.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLO000 CAS: 383-73-3 HR: 3
BIS(TRIFLUOROACETYL)PEROXIDE

mf: C₄F₆O₄ mw: 226.03

PROP: Crystals.

SAFETY PROFILE: A poison. May explode spontaneously at room temperature. Upon decomposition it emits toxic fumes of F⁻. See also PEROXIDES.

BLO250 CAS: 328-74-5 HR: 3
3,5-BIS(TRIFLUOROMETHYL)ANILINE

mf: C₈H₅F₆N mw: 229.14

SYN: α,α,α,α,α-HEXAFLUORO-3,5-XYLIDINE

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:31 mg/kg CBCCT* 4,323,52

ivn-mus LD50:25 mg/kg CBCCT* 6,143,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. See also FLUORIDES. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x.

BLO270 CAS: 402-31-3 HR: 3
1,3-BIS(TRIFLUOROMETHYL)BENZENE

mf: C₈H₄F₆ mw: 214.11

PROP: Liquid. D: 1.378, bp: 116–116.3°.

SAFETY PROFILE: When heated to 90°C a mixture with nitric and sulfuric acids emits spark-sensitive explosive vapors. When heated to decomposition it emits toxic fumes of F⁻.

BLO280 CAS: 650-52-2 HR: 3
BIS(TRIFLUOROMETHYL)CHLOROPHOSPHINE

mf: C₂ClF₆P mw: 204.44

PROP: Liquid. Bp: 21–21.5°.

SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of F⁻, Cl⁻, and PO_x. See also PHOSPHINE.

BLO300 CAS: 431-97-0 HR: 3
BIS(TRIFLUOROMETHYL)CYANOPHOSPHINE

mf: C₃F₆NP mw: 195.00

PROP: Liquid. Bp: 48°.

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

SAFETY PROFILE: Ignites spontaneously on contact with air. When heated to decomposition it emits toxic fumes of F⁻, PO_x, CN⁻, and NO_x. See also CYANIDE and PHOSPHINE.

BLO325 CAS: 372-64-5 HR: 3
BIS(TRIFLUOROMETHYL)DISULFIDE

mf: C₂F₆S₂ mw: 202.13

PROP: Liquid. Bp: 34.6°.

SAFETY PROFILE: Mixtures of the solid with chlorine mono- or tri- fluorides are explosive. Dilute with halogenated solvents. When heated to decomposition it emits toxic fumes of F⁻ and SO_x. See also SULFIDES.

BLO390 CAS: 141206-73-7 HR: 2
1,3-BIS(TRIFLUOROMETHYL)-5-ISOCYANO BENZENE

mf: C₉H₃F₆N mw: 239.13

SYN: BENZENE, 1,3-BIS(TRIFLUOROMETHYL)-5-ISOCYANO-

TOXICITY DATA with REFERENCE:

orl-mus LD :>5 g/kg USXXAM #3422190

scu-mus LD :>1 g/kg USXXAM #3422190

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

BLP250 CAS: 30184-88-4 HR: 3
2,2-BIS(TRIFLUOROMETHYL)-4-METHYL-5-PHENYLOXAZOLIDINE HYDRATE

mf: C₁₂H₁₁F₆NO•H₂O mw: 317.26

TOXICITY DATA with REFERENCE:

orl-mus LD50:200 mg/kg JMCAR 13,1215,70

ipr-mus LD50:300 mg/kg JMCAR 13,1215,70

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

BLP300 CAS: 2154-71-4 HR: 3
BIS(TRIFLUOROMETHYL)NITROXIDE

mf: C₂F₆NO mw: 168.02**PROP:** Purple gas, deep violet liquid or yellow crystals. Mp: -70°, bp: -25°.**SAFETY PROFILE:** Explodes violently at room temperature. Upon decomposition it emits toxic fumes of F⁻ and NO_x.**BLP325 CAS: 24095-80-5 HR: 3**
2-(3,5-BIS(TRIFLUOROMETHYL)PHENYL)-N-METHYL-HYDRAZINECARBOTHIOAMIDE (9CI)mf: C₁₀H₅F₆N₃S mw: 317.28**SYNS:** 1-(3,5-BIS-TRIFLUOROMETHYL)PHENYL)-4-METHYL-THIOSEMICARBAZIDE □ CIBA 2696GO □ 1-(α,α,α,α',α',α'-HEXAFLUORO-3,5-XYLYL)-4-METHYL-3-THIO-SEMICARBAZIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:414 mg/kg ARZNAD 23,797,73

ipr-rat LD50:212 mg/kg ARZNAD 23,797,73

orl-mus LD50:269 mg/kg ARZNAD 23,797,73

orl-dog LDLo:1500 mg/kg ARZNAD 23,797,73

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of F⁻, SO_x, and NO_x.**BLP500 HR: 3**
BIS(TRIFLUOROMETHYL)PHOSPHORUS(III) AZIDEmf: C₂F₆N₃P mw: 211.01**SAFETY PROFILE:** Explosive, very unstable even at -196°. Upon decomposition it emits toxic fumes of F⁻, PO_x, and NO_x. See also AZIDES.**BLQ250 CAS: 30192-67-7 HR: 3**
α,α-BIS(TRIFLUOROMETHYL)-1-PIPERIDINE METHANOL HYDRATEmf: C₈H₁₁F₆NO•H₂O mw: 269.22**TOXICITY DATA with REFERENCE:**

orl-mus LD50:300 mg/kg JMCMA 13,1215,70

ipr-mus LD50:300 mg/kg JMCMA 13,1215,70

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x.**BLQ325 CAS: 371-78-8 HR: 3**
BIS(TRIFLUOROMETHYL)SULFIDEmf: C₂F₆S mw: 170.07**PROP:** Gas. Mp: -63.5°, bp: -22.2°.**SAFETY PROFILE:** Mixtures of the solid with chlorine mono- or tri- fluorides are explosive. Dilute with halogenated solvents. When heated to decomposition it emits toxic fumes of F⁻ and SO_x. See also SULFIDES.**BLQ500 CAS: 28399-14-6 HR: 3**
2,2-BIS(TRIFLUOROMETHYL)THIAZOLIDINE HYDRATEmf: C₅H₅F₆NS•H₂O mw: 243.19**TOXICITY DATA with REFERENCE:**

orl-mus LD50:300 mg/kg JMCMA 13,1215,70

ipr-mus LD50:300 mg/kg JMCMA 13,1215,70

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of F⁻, NO_x, and SO_x.**BLQ525 CAS: 21259-75-6 HR: 3**
BIS(TRIFLUOROMETHYLTHIO)MERCURYmf: C₂F₆HgS₂ mw: 402.73**SYN:** MERCURY, BIS(TRIFLUOROMETHYLTHIO)-**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:7500 µg/kg CSLNX* NX#08848

ACGIH TLV: TWA 0.01. STEL 0.03 mg/m³ (skin)**NIOSH REL:** (MERCURY, ORGANO) TWA 0.01 mg/m³. STEL 0.03 mg/m³ (Sk)**SAFETY PROFILE:** A poison by intravenous route. When heated to decomposition it emits toxic vapors of SO_x and Hg.**BLQ550 CAS: 122185-09-5 HR: 2**
1,10-BIS-TRIMETHOXY-SILYLDECANEmf: C₁₆H₃₈O₆Si₂ mw: 382.72**SYNS:** 2,15-DIOXA-3,14-DISILAHEXADECANE, 3,3,14,14-TETRAMETHOXY- □ 3,3,14,14-TETRAMETHOXY-2,15-DIOXA-3,14-DISILAHEXADECANE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2200 mg/kg EPASR* 8EHQ-0291-0837S

orl-rbt LD50:2600 mg/kg EPASR* 8EHQ-0291-0837S

skn-rbt LD50:3730 mg/kg EPASR* 8EHQ-0291-0837S

SAFETY PROFILE: Moderately toxic by ingestion and skin contact routes. When heated to decomposition it emits acrid smoke and irritating vapors.**BLQ600 HR: 2**
2,3-BISTRIMETHYLACETOXYMETHYL-1-METHYLPYRROLEmf: C₁₇H₂₇NO₄ mw: 309.45**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.**BLQ750 CAS: 64011-39-8 HR: 3**
BIS(TRIMETHYLHEXYL)TIN DICHLORIDEmf: C₁₈H₃₈Cl₂Sn mw: 444.15**SYNS:** DICHLORODIISONONYL STANNANE □ DIISONONYL TIN DICHLORIDE**TOXICITY DATA with REFERENCE:**

ivn-rat LDLo:10 mg/kg BJMAG 15,15,58

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).**NIOSH REL:** (Organotin Compounds) TWA 0.1 mg(Sn)/m³**SAFETY PROFILE:** Poison by intravenous route. See also TIN COMPOUNDS. When heated to decomposition it emits toxic fumes of Cl⁻.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**BLQ850 CAS: 73452-31-0 HR: 3**
N,N'-BIS(TRIMETHYLSILYL)AMINOBORANE
mf: C₆H₂₀BNSi₂ mw: 173.21
(CH₃)₃Si)₂NBH₂

SAFETY PROFILE: Ignites on contact with air. When heated to decomposition it emits toxic fumes of NO_x . See also BORANES and BORON COMPOUNDS.

BLQ900 CAS: 86045-52-5 HR: 3
cis-BIS(TRIMETHYLSILYLAMINO)TELLURIUM TETRAFLUORIDE

mf: $\text{C}_6\text{H}_{20}\text{F}_4\text{N}_2\text{Si}_2\text{Te}$ mw: 380.00
 $((\text{CH}_3)_3\text{SiNH})_2\text{TeF}_4$

SAFETY PROFILE: Explodes when heated to 100°C . During storage it converts to an explosive solid. When heated to decomposition it emits toxic fumes of F^- , SO_x , NO_x , and Te. See also TELLURIUM COMPOUNDS.

BLQ950 CAS: 1000-70-0 HR: 2
BIS(TRIMETHYLSILYL)CARBODIIMIDE

mf: $\text{C}_7\text{H}_{18}\text{N}_2\text{Si}_2$ mw: 186.45
SYNS: SILANAMINE, N,N'-METHANE TETRAYLBIS(1,1,1-TRIMETHYL)- □ CARBODIIMIDE, BIS(TRIMETHYLSILYL)-(7Cl,8Cl) □ N,N'-METHANE TETRAYLBIS(1,1,1-TRIMETHYLSILANAMINE)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1728 mg/kg GISAAA 55(6),86,90

orl-rbt LD50:1728 mg/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 toxic vapors of NO_x .

BLR000 CAS: 1746-09-4 HR: 3
BIS(TRIMETHYLSILYL)CHROMATE

mf: $\text{C}_6\text{H}_{18}\text{CrO}_4\text{Si}_2$ mw: 262.57
 $((\text{CH}_3)_3\text{SiO})_2\text{CrO}_2$

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

SAFETY PROFILE: May explode if heated above 75°C . When heated to decomposition it emits acrid smoke and fumes. See also CHROMIUM COMPOUNDS.

BLR125 CAS: 692-56-8 HR: 3
1,2-BIS(TRIMETHYLSILYL)HYDRAZINE

mf: $\text{C}_6\text{H}_{20}\text{N}_2\text{Si}_2$ mw: 176.41
 $(\text{CH}_3)_3\text{SiNHNHSi}(\text{CH}_3)_3$

PROP: Bp: 149° .

SAFETY PROFILE: Hypergolic reaction with strong oxidants (e.g., fluorine or fuming nitric acid). When heated to decomposition it emits toxic fumes of NO_x . See also HYDRAZINE.

BLR140 CAS: 4656-04-6 HR: 3
BIS(TRIMETHYLSILYL)MERCURY

mf: $\text{C}_6\text{H}_{18}\text{HgSi}_2$ mw: 346.97
 $((\text{CH}_3)_3\text{Si})_2\text{Hg}$

PROP: Very light-sensitive yellow crystals. Mp: $102\text{--}104^\circ$ (decomp). Sol in Et_2O , THF, C_6H_6 , hexane, and CS_2 . IDLH 10 mg/m^3 (as Hg).

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

SAFETY PROFILE: May ignite spontaneously in air. When heated to decomposition it emits toxic fumes of Hg. See also MERCURY COMPOUNDS.

BLR250 HR: 3
BISTRIMETHYL SILYL OXIDE

mf: $\text{C}_6\text{H}_{18}\text{OSi}_2$ mw: 162.44

PROP: Flash p: -1°C .

SAFETY PROFILE: A very dangerous fire hazard. When heated to decomposition it emits acrid smoke and fumes.

BLR500 CAS: 23115-33-5 HR: 3
BIS(TRIMETHYLSILYL)PEROXOMONO-SULFATE

mf: $\text{C}_6\text{H}_{18}\text{O}_5\text{SSi}_2$ mw: 258.61
 $(\text{CH}_3)_3\text{SiOSO}_2\text{OOSi}(\text{CH}_3)_3$

PROP: Liquid.

SAFETY PROFILE: May decompose violently at room temperature and evolve toxic sulfur trioxide. See also PEROXIDES, ORGANIC; and SULFATES.

BLR625 CAS: 918-99-0 HR: 3
N,N'-BIS(2,2,2-TRINITROETHYL)UREA

mf: $\text{C}_5\text{H}_6\text{N}_8\text{O}_{13}$ mw: 386.15
 $((\text{O}_2\text{N})_3\text{CCH}_2\text{NH})_2\text{CO}$

SAFETY PROFILE: Mixtures with sodium hydroxide are storage hazards due to the formation of unstable reaction products. When heated to decomposition it emits toxic fumes of NO_x .

BLR750 CAS: 28930-30-5 HR: 2
BIS(TRINITROPHENYL)SULFIDE

mf: $\text{C}_{12}\text{H}_4\text{N}_6\text{O}_{12}\text{S}$ mw: 456.28

SYNS: HEXANITRODIPHENYLSULFIDE □ PICRYL SULFIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1200 mg/kg TNICS* 13,132,73

orl-mus LD50:470 mg/kg TNICS* 13,132,73

SAFETY PROFILE: Moderately toxic by ingestion. See also SULFIDES and NITRO COMPOUNDS of AROMATIC HYDROCARBONS. See NITRATES for fire and explosion hazard. This material is a powerful explosive and has an added military advantage in that its explosive gases contain irritating and very toxic SO_x . See also EXPLOSIVES, HIGH.

BLS000 HR: 3
BISTRIPERCHLORATO SILICON OXIDE

mf: $\text{Cl}_6\text{O}_2\text{Si}_2$ mw: 508.88

SAFETY PROFILE: Heating to decomposition may form an explosive product. When heated to decomposition it emits toxic fumes of Cl^- . See also PERCHLORATES.

BLS250 CAS: 14264-16-5 HR: 3
BIS(TRIPHENYLPHOSPHINE)DICHLORO-NICKEL

mf: $\text{C}_{24}\text{H}_{54}\text{P}_2\text{Cl}_2\text{Ni}$ mw: 534.33

SYNS: BIS(TRI-N-BUTYLPHOSPHINE)DICHLORONICKEL □
TRIBUTYL-PHOSPHINE compounded with NICKELCHLORIDE
(2:1)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#03119

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

OSHA PEL: TWA 0.1 mg (Ni)/m³

ACGIH TLV: TWA 0.2 mg(Ni)/m³; Human Carcinogen)

SAFETY PROFILE: Confirmed human carcinogen. Poison by intravenous route. See also NICKEL COMPOUNDS. When heated to decomposition it emits very toxic fumes of Cl⁻ and PO_x.

BLS500 CAS: 15709-62-3 HR: 3
BIS(TRIPHENYL PHOSPHINE)NICKEL DITHIOCYANATE

mf: C₃₈H₃₀N₂NiP₂S₂ mw: 699.47

SYN: NICKEL BISTRIPHENYLPHOSPHINE DITHIOCYANATE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#01983

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

SAFETY PROFILE: Confirmed human carcinogen. Poison by intravenous route. See also NICKEL COMPOUNDS and THIOCYANATES. When heated to decomposition it emits very toxic fumes of SO_x, PO_x, NO_x, and CN⁻.

BLS750 CAS: 1624-02-8 HR: 2
BIS(TRIPHENYL SILYL)CHROMATE

mf: C₃₆H₃₀CrO₄Si₂ mw: 634.84

PROP: IDLH Ca [15 mg/m³ {as Cr(VI)}].

SYN: CHROMIC ACID, BIS(TRIPHENYLSILYL) ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:3360 mg/kg TXAPA9 28,313,74

skn-rbt LD50:710 mg/kg TXAPA9 28,313,74

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

OSHA PEL: CL 0.1 mg(CrO₃)/m³

ACGIH TLV: TWA 0.05 mg(CrO₃)/m³

NIOSH REL: (Chromium(VI)): TWA 0.025 mg(Cr(VI))/m³; CL 0.05/15M

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. See also CHROMIUM COMPOUNDS and ESTERS. When heated to decomposition it emits toxic fumes of CrO₃ particulates.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Chromium Hexavalent 7024.

BLS900 CAS: 73940-87-1 HR: 3
BIS(TRIPHENYL TIN)ACETYLENEDICARBOXY-LATE

mf: C₄₀H₃₀O₄Sn₂ mw: 812.08

SYNS:

ETHYNYLENEBIS(CARBONYLOXY)BIS(TRIPHENYLSTANNAN E) □ STANNANE, ETHYNYLENEBIS(CARBONYLOXY)BIS (TRIPHENYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:18 mg/kg CSLNX* NX#05963

OSHA PEL: TWA 0.1 mg(Sn)/m³

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)

NIOSH REL: (Organotin compound): 10H TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLT000 CAS: 3021-41-8 HR: 3
BIS(TRIPHENYL TIN)SULFATE

mf: C₃₆H₃₀Sn₂O₄S mw: 796.10

SYN: TRIPHENYLSTANNANE SULFATE (2:1)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:5700 µg/kg 85JCAE -,1253,86

ivn-mus LD50:18 mg/kg CSLNX* NX#04819

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. See also TIN COMPOUNDS and SULFATES. When heated to decomposition it emits toxic fumes of SO_x.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLT250 CAS: 77-80-5 HR: 3
BIS(TRIPHENYL TIN)SULFIDE

mf: C₃₆H₃₀SSn₂ mw: 732.10

PROP: Colorless crystals. Mp: 144°. Sol in org solvs.

SYN: 1,1,1,3,3,3-HEXAPHENYLDISTANNTHIANE

TOXICITY DATA with REFERENCE:

orl-mus LD50:710 mg/kg AECTCV 14,111,85

ivn-mus LD50:180 mg/kg CSLNX* NX#05814

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: A poison via intravenous route. Moderately toxic by ingestion. See also TIN COMPOUNDS and SULFIDES. When heated to decomposition it emits toxic fumes of SO_x.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLT300 CAS: 1067-29-4 HR: 3
BIS(TRIPROPYL TIN)OXIDE

mf: C₁₈H₄₂OSn₂ mw: 511.98

PROP: Air-sensitive liquid. Bp: 154.5° @ 3.5 mm.

SYNS: DISTANNOXANE, 1,1,1,3,3,3-HEXAPROPYL- □
1,1,1,3,3,3-HEXAPROPYLDISTANNOXANE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:5600 µg/kg CSLNX* NX#03791

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 mg(Sn)/m³

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)

NIOSH REL: (Organotin Compound): 10H TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLT500 CAS: 74039-78-4 HR: 3
BIS(TRIS(p-CHLOROPHENYL)PHOSPHINE)-
MERCURIC CHLORIDE COMPLEX

mf: C₃₆H₂₄Cl₆P₂•Cl₂Hg mw: 1002.73

SYN: TRIS(p-CHLOROPHENYL)PHOSPHINE COMPLEX with MERCURIC CHLORIDE (2:1)

PROP: IDLH 10 mg/m³ (as Hg).

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#02647

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous route. See also MERCURY COMPOUNDS and CHLORIDES.

When heated to decomposition it emits very toxic fumes of Cl⁻, PO_x and Hg.

BLT750 CAS: 74039-79-5 HR: 3
BIS(TRIS(p-DIMETHYLAMINOPHENYL)-
PHOSPHINE)MERCURIC CHLORIDE
COMPLEX

mf: C₄₈H₆₀N₆P₂•Cl₂Hg mw: 1054.57

PROP: IDLH 10 mg/m³ (as Hg).

SYN: TRIS(p-DIMETHYLAMINOPHENYL) PHOSPHINE COMPLEX with MERCURIC CHLORIDE (2:1)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#02644

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous route. See also MERCURY COMPOUNDS and CHLORIDES.

When heated to decomposition it emits very toxic fumes of NO_x, PO_x, Cl⁻, and Hg.

BLT775 CAS: 38402-95-8 HR: 3
BIS(TRIS(p-DIMETHYLAMINOPHENYL)-
PHOSPHINE OXIDE)STANNIC CHLORIDE
COMPLEX

mf: C₄₈H₆₀N₆O₂P₂•Cl₄Sn mw: 1075.57

SYN: PHOSPHINE OXIDE, TRIS(p-DIMETHYLAMINO-PHENYL)-, compounded with STANNIC CHLORIDE (2:1)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#02651

OSHA PEL: TWA 2 mg(Sn)/m³

ACGIH TLV: TWA 2 mg(Sn)/m³

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x, PO_x, Sn, and Cl⁻.

BLU000 CAS: 13356-08-6 HR: 2
BIS(TRIS(β,β-DIMETHYLPHENETHYL)TIN)-
OXIDE

mf: C₆₀H₇₈OSn₂ mw: 1052.76

PROP: Crystals or powder. Sol in CHCl₃, C₆H₆. Sltly sol in Me₂CO; insol in H₂O.

SYNS: BENDEX □ BIS(TRIS(2-METHYL-2-PHENYLPROPYL)

TIN)OXIDE □ DI(TRI-(2,2-DIMETHYL-2-PHENYLETHYL)

TIN)OXIDE □ ENT 27,738 □ FENBUTATIN OXIDE □

HEXAKIS(β,β-DIMETHYLPHENETHYL)DISTANNOXANE □

HEXAKIS(2-METHYL-2-PHENYLPROPYL)DISTANNOXANE □

SD 14114 □ SHELL SD-14114 □ TORQUE □ VENDEX

TOXICITY DATA with REFERENCE:

orl-rat LD50:2630 mg/kg 85ARAE 1,17,77

skn-rat LD50:1000 mg/kg TIUSAD 110,6,76

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BLU250 CAS: 74039-80-8 HR: 3
BIS(TRIS(p-METHOXYPHENYL)PHOSPHINE)
MERCURIC CHLORIDE COMPLEX

mf: C₄₂H₄₂O₆P₂•Cl₂Hg mw: 976.27

PROP: IDLH 10 mg/m³ (as Hg).

SYN: TRIS(p-METHOXYPHENYL) PHOSPHINE COMPLEX with MERCURIC CHLORIDE (2:1)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#02645

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous route. See also MERCURY COMPOUNDS and CHLORIDES.

When heated to decomposition it emits very toxic vapors of PO_x, Cl⁻, and Hg.

BLU500 CAS: 74039-81-9 HR: 3
BIS(TRIS(*p*-METHYLTHIOPHENYL)PHOSPHINE) MERCURIC CHLORIDE COMPLEX

mf: C₄₂H₄₂P₂S₆•Cl₂Hg mw: 1072.63

PROP: IDLH 10 mg/m³ (as Hg).

SYN: TRIS(*p*-METHYLTHIOPHENYL) PHOSPHINE COMPLEX with MERCURIC CHLORIDE (2:1)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#02646

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

OSHA PEL: CL 0.1 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Poison by intravenous route. See also MERCURY COMPOUNDS and CHLORIDES.

When heated to decomposition it emits very toxic fumes of PO_x, SO_x, Cl⁻, and Hg.

BLU600 CAS: 17351-75-6 HR: 2
1,4-BIS((VINILOXY)METHYL)CYCLOHEXANE

mf: C₁₂H₂₀O₂ mw: 196.32

SYNS: 1,4-CYCLOHEXANEMETHANOL, DIVINYL ESTER □ 1,4-DIMETHANOLCYCLOHEXANE DIVINYL ETHER □ RAPICURE CHVE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg JACTDZ 1,33,90

skn-rbt LD50:>2 g/kg JACTDZ 1,33,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BLV000 CAS: 5169-78-8 HR: 3
BITIODIN

mf: C₁₅H₁₇NS₂ mw: 275.45

PROP: Yellow crystals. Mp: 64–65°, bp: 178–184° @ 4–5 mm.

SYNS: AT 327 □ CR/662 □ 3-(DI-2-THIENYLMETHYLENE)-1-METHYLPYPERIDINE □ 1-METHYL-3-PIPERIDYLIDENEDI(2-THIENYL)METHANE □ TИPEDINE □ TIPEPIDINE

TOXICITY DATA with REFERENCE:

orl-mus LD50:867 mg/kg MEIEDD 11,1490,89

ipr-mus LD50:294 mg/kg MEIEDD 11,1490,89

scu-mus LD50:222 mg/kg CPBTAL 7,372,59

ivn-mus LD50:55 mg/kg PCJOAU 10,1482,76

ims-mus LD50:308 mg/kg MEIEDD 11,1490,89

ivn-dog LD50:44 mg/kg CPBTAL 7,372,59

SAFETY PROFILE: A poison via subcutaneous, intraperitoneal, intravenous, and intramuscular routes. Moderately toxic by ingestion. An antitussive. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

BLV075 HR: 3
BITIS ARIETANS VENOM

SYNS: B. ARIETANS VENOM □ SNAKE VENOM BITIS ARIETANS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:560 µg/kg TOXIA6 18,384,80

scu-mus LD50:600 µg/kg TOXIA6 20,509,82

ivn-mus LD50:1055 µg/kg TOXIA6 2,5,64

ims-mus LD50:2 mg/kg TOXIA6 6,175,69

ivn-rbt LDLo:660 µg/kg TOXIA6 2,5,64

ipr-mam LD50:3680 µg/kg CLPTAT 8,849,67

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

BLV080 HR: 3
BITIS GABONICA VENOM

SYNS: B. GABONICA VENOM □ SNAKE VENOM BITIS GABONICA

TOXICITY DATA with REFERENCE:

ipr-mus LD50:960 µg/kg TOXIA6 18,384,80

scu-mus LD50:5 mg/kg JOIMA3 67,299,51

ivn-mus LD50:550 µg/kg TOXIA6 14,146,76

ims-mus LD50:5200 µg/kg TOXIA6 6,175,69

ivn-rbt LDLo:1065 µg/kg SCIEAS 117,47,53

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

BLV125 CAS: 30392-41-7 HR: 3
BITOLTEROL MESILATE

mf: C₂₉H₃₁NO₅•CH₄O₃S mw: 557.71

PROP: Solid. Mp: 170–172°.

SYNS: BITOLTEROL MESYLATE □ 4-(2-(tert-BUTYLAMINO)-1-HYDROXYETHYL)-o-PHENYLENE DI-p-TOLUATE MESILATE □ WIN 32784

TOXICITY DATA with REFERENCE:

ivn-rat LD50:44 mg/kg NIIRDN 6,620,82

orl-mus LD50:4116 mg/kg IYKEDH 10,884,79

ivn-mus LD50:31,400 µg/kg IYKEDH 10,884,79

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

BLV200 CAS: 4388-07-2 HR: 3
5,5'-BI-p-TOLUQUINONE

mf: C₁₄H₁₀O₄ mw: 242.24

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:125 mg/kg CBCCT* 6,217,54

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

BLV250 CAS: 13394-86-0 HR: 3
(m,o'-BITOLYL)-4-AMINE

mf: C₁₄H₁₅N mw: 197.30

PROP: Oil. Bp: 201° @ 15 mm.

SYNS: 2',3-DIMETHYL-4-AMINOBIPHENYL □ 3,2'-DIMETHYL-4-AMINOBIPHENYL □ 3,2'-DIMETHYL-4-AMINODIPHENYL □ 3,2'-DIMETHYL-4-BIPHENYLAMINE □ 3,2'-DMAB

TOXICITY DATA with REFERENCE:

mma-sat 10 µg/plate PNASA6 72,5135,75
 dns-rat:ivr 10 µmol/L CALEDQ 4,69,78
 cyt-mus-orl 50 mg/kg JJIND8 71,133,83
 otr-ham:emb 100 µg/L NCIMAV 58,243,81
 scu-ham TDLo:2300 mg/kg/37W-I:CAR,REP JNCIAM 48,1733,72
 ipr-mus LD50:1130 mg/kg JJIND8 62,911,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Moderately toxic by intraperitoneal route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AROMATIC AMINES.

BLV500 CAS: 8013-76-1 HR: 3
BITTER ALMOND OIL

PROP: Volatile oil from dried ripe kernels of bitter almonds or from other kernels containing amygdalin, such as apricots, cherries, plums, and especially peaches. Colorless liquid; strong almond odor. Bp: 179°, d: 1.045–1.070 @ 15°. Sltly sol in water; sol in fixed oils and propylene glycol; insol in glycerin.

SYNS: ALMOND OIL BITTER, FFPA (FCC) □ OIL, BITTER ALMOND

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,705,79
 orl-hmn LDLo:107 mg/kg FCTXAV 17,705,79
 orl-rat LD50:960 mg/kg FCTXAV 17,705,79
 skn-rbt LD50:1220 mg/kg FCTXAV 17,705,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A human poison by ingestion. Moderately toxic by skin contact. A skin irritant. When heated to decomposition it emits toxic fumes of CN⁻.

BLV750 CAS: 68916-04-1 HR: 1
BITTER ORANGE OIL

PROP: Main constituent is d-limonene (FCTXAV 12,703,74). Pale yellow liquid, bitter taste. D: 0.842–0.848 @ 25°/25°. Very sltly sol in water; misc with abs alc; sol in 4 vols alc, in 1 vol glacial acetic acid. Keep well closed, cool, and protected from light.

TOXICITY DATA with REFERENCE:

skn-mus 100% MLD FCTXAV 12,703,74
 skn-rbt 500 mg/24H MOD FCTXAV 17,509,74

SAFETY PROFILE: A skin irritant. See also d-LIMONENE. When heated to decomposition it emits acrid smoke and irritating fumes.

BLW250 CAS: 8006-82-4 HR: 1
BLACK PEPPER OIL

PROP: From steam distillation of dried fruit of *Piper nigrum* L. (Fam. *Piperaceae*). Main constituents include α- and β-pinene, β-caryophyllene, l-limonene, d-hydrocarveol,

piperidine, and piperine (FCTXAV 16,637,78). A colorless to greenish liquid; odor and taste of pepper. Sol in fixed oils, mineral oil, propylene glycol; sltly sol in glycerin.

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,637,78
 dnr-bcs 20 mg/disc TOFOD5 8,91,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BLW500 HR: 3
BLACK WIDOW SPIDER VENOM

SYN: LATRODECTUS M. MACTANS VENOM

TOXICITY DATA with REFERENCE:

scu-mus LDLo:10 mg/kg SCNEBK 110,355,76
 ivn-mus LDLo:5500 µg/kg SCNEBK 110,355,76

SAFETY PROFILE: Poison by subcutaneous and intravenous routes.

BLW750 CAS: 21725-46-2 HR: 3
BLADEX

mf: C₉H₁₃ClN₆ mw: 240.73

PROP: A white, crystalline material. Mp: 167°.

SYNS: BLADEX 80WP □ 2-CHLORO-4-(1-CYANO-1-METHYL-ETHYLAMINO)-6-ETHYLAMINO-1,3,5-TRIAZINE □ 2-CHLORO-4-ETHYLAMINO-6-(1-CYANO-1-METHYL)ETHYL AMINO-s-TRIAZINE □ 2-(4-CHLORO-6-ETHYLAMINO-s-TRIAZINE-2-YLAMINO)-2-METHYL-PROPIONITRILE □ 2-(4-CHLORO-6-ETHYLAMINO-1,3,5-TRIAZINE-2-YLAMINO)-2-METHYL-PROPIONITRILE □ 2-((4-CHLORO-6-(ETHYLAMINO)-1,3,5-TRIAZIN-2-YL)AMINO)-2-METHYL-PROPANENITRILE □ 2-((4-CHLORO-6-(ETHYLAMINO)-s-TRIAZIN-2-YL)AMINO)-2-METHYLPROPIONITRILE □ CYANAZINE □ DW3418 □ FORTROL □ PAYZE □ SD 15418 □ WL 19805

TOXICITY DATA with REFERENCE:

mma-sat 5170 µmol/L MUREAV 136,233,84
 dlt-dmg-par 332 µmol/L JTEHD6 3,691,77
 dlt-dmg-orl 100 ppm JTEHD6 3,691,77
 sln-nsc 250 mg/L EVHPAZ 31,75,79
 orl-rat LD50:149 mg/kg 85ARAE 2,132,77
 skn-rat LD50:1200 mg/kg 28ZEAL 5,62,76
 ipr-rat LD50:112 mg/kg NNGADV 11,127,86
 scu-rat LD50:1738 mg/kg NNGADV 11,127,86
 orl-mus LD50:380 mg/kg 28ZEAL 5,62,76
 ihl-mus LC50:2470 mg/m³/4H NNGADV 11,127,86
 orl-rbt LD50:141 mg/kg 85DPAN -,71/76
 orl-qal LD50:400 mg/kg PEMNDP 8,198,87
 orl-dck LD50:750 mg/kg PSSCBG 5,153,74

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

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. An experimental teratogen. Mutation data reported. See also NITRILES. An herbicide. When heated to decomposition it emits very toxic fumes of Cl⁻, NO_x, and CN⁻.

BLX000 CAS: 9084-06-4 HR: 3

BLANCOLmf: $(C_{10}H_8O_3S \cdot CH_2O)_x \cdot xNa$

SYNS: ATLOX 4862 □ BARRA SUPER □ BEVALOID 35 □ BLANCOL DISPERSANT □ DARVAN 1 □ DARVAN No. 1 □ DAXAD 11 □ DAXAD 15 □ DAXAD 18 □ DAXAD No. 11 □ DISPERGATOR NF □ DISPERSER NF □ DISPERSING AGENT NF □ DISPERSOL ACA □ FLUBE □ HUMIFEN NBL 85 □ LEUKANOL NF □ LISSATAN AC □ LOMAR D □ LOMAR LS □ LOMAR PW □ Na-CEMMIX □ NAPHTHALENESULFONIC ACID, POLYMER with FORMALDEHYDE, SODIUM SALT (9CI) □ NF □ NF (dispersant) □ NF-A □ POZZOLITH 400N □ QR 819 □ SODIUM SALT of SULFONATED NAPHTHALENEFORM-ALDEHYDE CONDENSATE □ SURFACTANT NF □ TAMOL L □ TAMOL SN

TOXICITY DATA with REFERENCE:

orl-rat LD50:3800 mg/kg FMCHA2 -,D44,80
 ipr-rat LD50: 460 mg/kg GISAAA 55(11),70,90
 ivn-rat LD50: 435 mg/kg GISAAA 55(11),70,90
 orl-mus LD50: 3400 mg/kg GISAAA 55(11),70,90
 ipr-mus LD50: 315 mg/kg GISAAA 55(11),70,90
 scu-mus LD50: 1275 mg/kg GISAAA 55(11),70,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. See also ALDEHYDES and SULFONATES. When heated to decomposition it emits very toxic fumes of SO_x and Na_2O .

BLX250 CAS: 63732-07-0 HR: 3
BLASTICIDEN-S-LAURYL SULFONATE
TOXICITY DATA with REFERENCE:

orl-rat LD50:39,500 µg/kg GUCHAZ 6,48,73
 scu-rat LD50:220 mg/kg GUCHAZ 6,48,73
 orl-rbt LD50:48,500 µg/kg GUCHAZ 6,48,73
 orl-mam LD50:32 mg/kg GUCHAZ 6,48,73

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. See also SULFONATES. When heated to decomposition it emits toxic fumes of SO_x .

BLX500 CAS: 2079-00-7 HR: 3
BLASTICIDIN S
mf: $C_{17}H_{26}N_8O_5$ mw: 422.51

PROP: Needles from H_2O . Mp: 235°. From *Streptomyces griseochromogenes* (JANTAJ 11,1,58).

SYNS: BABS □ BLA-S □ BLASTICIDIN □ CYTOVIRIN □ TOA BLA-S

TOXICITY DATA with REFERENCE:

orl-rat LD50:16 mg/kg GUCHAZ 6,48,73
 skn-rat LD50:3100 mg/kg 28ZEAL 5,27,76
 orl-mus LD50:38 mg/kg JANTAJ 30,1022,77
 skn-mus LD50:220 mg/kg 28ZEAL 5,27,76
 ivn-mus LD50:2820 µg/kg JAJAAA 11,1,58

SAFETY PROFILE: Poison by ingestion, skin contact, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x . See other blastomycin entries.

BLX750 CAS: 522-70-3 HR: 3
BLASTOMYCIN
mf: $C_{26}H_{36}N_2O_9$ mw: 520.64

PROP: Needles from C_6H_6 pet ether. Mp: 174.5–175.0°.

SYNS: ANTIMYCIN A3 □ BLASTMYCIN

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1800 µg/kg JAJAAA 10,39,57
 scu-mus LD50:1600 µg/kg JAJAAA 10,39,57

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

BLY000 CAS: 11056-06-7 HR: 3
BLEOMYCIN

PROP: A group of related glycopeptide antibiotics isolated from *Streptomyces verticillus*.

SYNS: BLENOXANE □ BLEO □ BLEOCIN □ BLM

TOXICITY DATA with REFERENCE:

eye-rbt 1 mg MLD JJANAX 31,859,78
 mnt-hmn:lym 1250 µg/L MUREAV 130,395,84
 dnd-hmn:fbr 10 mg/L ENMUDM 7,267,84
 dns-hmn:hla 110 µmol/L CRNGDP 7,77,86
 cyt-mus:oth 4 nmol/L IPPABX 20,1,84
 sce-ham-ipr 7500 µg/kg CNREA8 43,577,83
 ivn-hmn LDLo:351 mg/kg:PUL AJCPAI 58,501,72
 ims-hmn LDLo:418 mg/kg:PUL AJCPAI 58,501,72
 ipr-rat LD50:168 mg/kg 40WDA5 -,311,78
 ipr-mus LD50:35 mg/kg JANTAJ 37,239,84
 ivn-mus LD50:53 mg/kg JANTAJ 31,667,78

CONSENSUS REPORTS: IARC Cancer Review:

Group 2B IMEMDT 7,134,87; Human Inadequate Evidence IMEMDT 26,97,81. EPA Genetic Toxicology Program.

SAFETY PROFILE: A human poison by intravenous route; moderately toxic to humans by intramuscular route. Poison experimentally by intravenous and intraperitoneal routes. Human systemic effects by ingestion and intramuscular routes: dyspnea and fibrosing alveolitis (lung). Experimental reproductive effects. An eye irritant. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See other bleomycin entries.

BLY250 CAS: 11116-31-7 HR: 3
BLEOMYCIN A2

SYN: ZHENG GUANGMYCIN A2 (CHINESE)

TOXICITY DATA with REFERENCE:

mno-sat 5 µg/plate MUREAV 117,9,83
 dnd-esc 50 µg/L CNREA8 38,3900,78
 dnd-rat:ast 13 mg/L PLCHB4 7,177,75
 dnd-rat:lng 100 µmol/L CBINA8 45,65,83
 dnd-mam:lym 100 µmol/L JPETAB 221,152,82
 ivn-man TDLo:2143 µg/kg PUL CNREA8 36,1267,76
 ipr-mus LD50:130 mg/kg YHHPAL 14,83,79
 ivn-mus LD50:100 mg/kg YHHPAL 14,83,79

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Noted for adverse pulmonary effects in humans. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See other bleomycin entries.

BLY500 CAS: 11116-32-8 HR: 3
BLEOMYCIN A5
mf: $C_{57}H_{86}N_{18}O_{21}S_2$ mw: 1423.73

SYNS: N^1 -3-(((4-AMINO BUTYL)AMINO)PROPYL)BLEOMYCINAMIDE □

BLEOMYCETIN □ PINGYANGMYCIN (CHINESE) □
ZHENGGUANGMYCIN A5 (CHINESE)

TOXICITY DATA with REFERENCE:

cyt-ham:ovr 400 µg/L HKXUDL 3,78,83
sce-ham:ovr 400 µg/L HKXUDL 3,78,83
unr-hmn TDLo:192 mg/kg:GIT,PUL,MET ANTBAL
28(8),632,83
ipr-rat LD50:117 mg/kg ANTBAL 24(5),363,79
ivn-rat LD50:100 mg/kg ANTBAL 24(5),363,79
ims-rat LD50:102 mg/kg ANTBAL 24(5),363,79
orl-mus LD50:840 mg/kg ANTBAL 24(5),363,79
ipr-mus LD50:88 mg/kg ANTBAL 24(5),363,79
scu-mus LD50:77 mg/kg ANTBAL 24(5),363,79
ivn-mus LD50:61,500 µg/kg ANTBAL 24(5),363,79

SAFETY PROFILE: Poison by intraperitoneal, intravenous, intramuscular, and subcutaneous routes. Moderately toxic by ingestion. Human systemic effects by an unspecified route: nausea or vomiting, dyspnea, and fever. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See other bleomycin entries.

BLY750 HR: 3

BLEOMYCIN A COMPLEX

PROP: Antibiotics produced by a strain of *Streptomyces verticillus* (AJAAA 20,15,67).

TOXICITY DATA with REFERENCE:

mno-smc 10 mg/L/30M MUREAV 58,107,78
mrc-smc 30 mg/L/15M MUREAV 58,41,78
cyt-hmn-par 430 µg/kg MUREAV 56,341,78
cyt-hmn:lym 10 mg/L MUREAV 56,341,78
msc-ham:fbr 1 mg/L/24H MUREAV 40,325,76
ipr-mus LDLo:125 mg/kg AJAAA 20,15,67
scu-mus LDLo:125 mg/kg AJAAA 20,15,67
ivn-mus LDLo:125 mg/kg CANCAR 20,891,67
ivn-rbt LDLo:200 mg/kg AJAAA 20,15,67

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

BLY760 CAS: 9060-10-0 HR: 3

BLEOMYCIN B2

mf: C₅₅H₈₄N₂₀O₂₁S₂ mw: 1425.71

SYNS: DEHYDROPELOMYCIN D1 □ PHLEOMYCIN D2

TOXICITY DATA with REFERENCE:

mno-sat 1 µg/plate MUREAV 117,9,83
dnd-omi 100 mg/L JANTAJ 28,537,75
dnd-omi 10,700 pmol/L CNREA8 40,4173,80
itr-mus LDLo:14 µg/kg TXAPA9 56,326,80

SAFETY PROFILE: Poison by intratracheal route. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See other bleomycin entries.

BLY770 CAS: 68247-85-8 HR: 3

BLEOMYCIN PEP

mf: C₆₁H₈₈N₁₈O₂₁S₂ mw: 1473.79

SYNS: BLM-PEP □ NK 631 □ PEP □ PEPELOMYCIN □ PEPELOMYCIN

TOXICITY DATA with REFERENCE:

mno-sat 1 µg/plate TAKHAA 44,96,85

pic-esc 56 ng/plate MUREAV 88,325,81
dnd-bcs 800 ng/plate TAKHAA 44,96,85
dnd-ham:ovr 25 mg/L JANTAJ 38,1257,85
scu-rat LD50: 199 mg/kg JJANAX 31,719,78
ivn-rat LD50: 215 mg/kg JJANAX 31,719,78
scu-mus LD50: 80 mg/kg JJANAX 31,719,78
ivn-mus LD50: 45 mg/kg JJANAX 31,719,78
ivn-dog LDLo:30 mg/kg JJANAX 31,719,78

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See other bleomycin entries.

BLY780 CAS: 9041-93-4 HR: 3

BLEOMYCIN SULFATE

SYNS: BLENOXANE □ BLEOMYCIN, SULFATE (salt) (9CI) □ BLEAXANE

TOXICITY DATA with REFERENCE:

dnd-esc 20 µmol/L MUREAV 164,19,86
hma-mus/esc 10 mg/kg MUREAV 164,19,86
par-wmn TDLo:20 µg/kg:PUL,SKN ARHEAW 28,459,85
ipr-rat LD50:240 mg/kg IYKEDH 7,108,76
scu-rat LD50:86 mg/kg JJANAX 29,894,76
ipr-mus LD50:210 mg/kg YAKUD5 17,455,75
scu-mus LD50:103 mg/kg JJANAX 29,894,76

CONSENSUS REPORTS: IARC Cancer Review: Human Inadequate Evidence IMEMDT 26,97,81. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Human systemic effects: cyanosis, allergic dermatitis. Questionable carcinogen with experimental carcinogenic data. An experimental teratogen. Other experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x. See other bleomycin entries.

BMA000 CAS: 2519-30-4 HR: 2

BLUE BLACK BN

mf: C₂₈H₂₁N₅O₁₄S₄•4Na mw: 871.74

SYNS: 1743 BLACK □ BLACK PN □ BRILLIANT ACID BLACK BNA EXPORT □ BRILLIANT ACID BLACK BN EXTRA PURE A □ BRILLIANT BLACK □ BRILLIANT BLACK A □ BRILLIANT BLACK BN □ BRILLIANT BLACK NAF □ BRILLIANT BLACK N.FQ □ BRILLIANTSCHWARZ BN (GERMAN) □ CERTICOL BLACK PNW □ C.I. 28440 □ C.I. FOOD BLACK 1, TETRA-SODIUM SALT □ CILEFA BLACK B □ E 151 □ EDICOL SUPRA BLACK BN □ HEXACOL BLACK PN □ MELAN BLACK □ NOIR BRILLANT BN (FRENCH) □ L-SCHWARZ 1 □ XYLENE BLACK F

TOXICITY DATA with REFERENCE:

ipr-rat LD50:900 mg/kg FCTXAV 5,171,67
ivn-rat LD50:25,000 mg/kg APFRAD 15,402,57
orl-mus LD50:1100 mg/kg FCTXAV 5,171,67
ipr-mus LD50:500 mg/kg FCTXAV 5,171,67

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

BMA125 CAS: 7210-92-6 HR: 3

BLUECAIN

mf: C₁₅H₂₂N₂O₃•ClH mw: 314.85

PROP: Solid. Mp: 139–140.5°.

SYNS: BAJKAIN □ BAYCAIN □ BAYCAINE □ BAYCALNE □ 2-(((DIETHYLAMINO)ACETYL)AMINO)-3-METHYL-BENZOIC ACID METHYL ESTER, MONOHYDROCHLORIDE □ TOLYCAINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ivn-rat LD50:44 mg/kg NIIRDN 6,570,82
scu-mus LD50:450 mg/kg NIIRDN 6,570,82
ivn-mus LD50:60 mg/kg NIIRDN 6,570,82
ivn-rbt LD50:40 mg/kg NIIRDN 6,570,82

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

BMA150 HR: 2
BLUE COHOSH

PROP: An erect herb, 1 to 3 feet tall, with clusters of small, yellow-green or purple-green flowers. It produces small, blue berries. It grows wild in damp woods in the region bounded by Alabama, Missouri, Manitoba and New Brunswick.

SYNS: BLUEBERRY ROOT □ BLUE GINSENG □ CAULOPHYLLUM THALICTROIDES □ PAPOOSE ROOT □ SQUAW ROOT □ YELLOW GINSENG

SAFETY PROFILE: The berries and roots contain the poison N-methylcytisine (an alkaloid similar to nicotine) and saponins. The bitter taste usually limits ingestion which could cause inflammation of the stomach and intestines. See also SAPONIN.

BMA550 HR: D
BOIS de ROSE OIL

PROP: From steam distillation of chipped wood of *Aniba rosaeodora* var. *amazonica* Ducke, (Fam. Lauraceae). Colorless to pale yellow liquid; slt pleasant floral odor. Sol in fixed oils, propylene glycol, mineral oil; sltly sol in glycerin.

SYN: LIGNALOE OIL

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

BMA575 CAS: 106856-54-6 HR: 3
BOLAFFININ (9CI)

SYN: BOLAFFININE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:61 mg/kg BICMBE 68,1217,1986

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

BMA600 CAS: 8022-81-9 HR: 3
BOLDO LEAF OIL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTOD7 20(Suppl),643,82
orl-rat LD50:130 mg/kg FCTOD7 20(Suppl),643,82
ipr-mus LD50:420 mg/kg JPBEAJ 32,13,77
skn-rbt LD50:625 mg/kg FCTOD7 20(Suppl),643,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BMA625 CAS: 21535-47-7 HR: 3
BOLVIDON

mf: C₁₈H₂₀N₂•ClH mw: 300.86

PROP: Solid. Mp: 282–284°.

SYNS: ATHYMIL □ GB 94 □ 1,2,3,4,10,14b-HEXAHYDRO-2-METHYLDIBENZO(c,f)PYRAZINO(1,2-a)AZEPINE HYDROCHLORIDE □ MIANSERINE HYDROCHLORIDE □ MIANSERIN HYDROCHLORIDE □ NORVAL □ ORG GB 94 □ TOLUON □ TOLVIN □ TOLVON

TOXICITY DATA with REFERENCE:

slt-dmg-orl 100 mmol/L MUREAV 286,155,93
orl-wmn TDLo:28 mg/kg/5W:CNS,CVS,PUL BMJOAE 284,1912,82

orl-wmn TDLo:18 mg/kg:BAH,BLD HUTODJ 6,401,87

orl-rat LD50:780 mg/kg PBPSDY 3,56,81

ipr-rat LD50:262 mg/kg SKKNAJ 31,112,79

ivn-rat LD50:31,850 µg/kg IYKEDH 14,484,83

ivn-rat LD50:31,850 µg/kg IYKEDH 14,484,83

orl-mus LD50:224 mg/kg SKKNAJ 31,112,79

ipr-mus LD50:117 mg/kg IYKEDH 14,484,83

scu-mus LD50:118 mg/kg SKKNAJ 31,112,79

ivn-mus LD50:31 mg/kg PBPSDY 3,56,81

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Experimental reproductive effects. Human systemic effects by ingestion: hallucinations and distorted perceptions, change in heart rate, and unspecified respiratory system effects. Experimental reproductive effects. A serotonin inhibitor and antihistamine. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and HCl.

BMA650 CAS: 24543-59-7 HR: D
BOMT

mf: C₁₉H₂₉BrO₃ mw: 385.39

PROP: Crystals. Mp: 226–226.5°.

SYNS: 6-α-BROMO-17-β-HYDROXY-17-α-METHYL-4-OXA-5-α-ANDROSTAN-3-ONE □ 6-α-BROMO-17-β-METHYL-4-OXA-5-α-ANDROSTAN-3-ONE □ RO 7-2340

SAFETY PROFILE: An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of Br⁻.

BMA750 CAS: 8001-85-2 HR: 2
BONE OIL

PROP: Product of destructive distillation of bones in preparation of bone charcoal containing nitrogenous compounds such as pyridine, aniline, methylamine, and pyrrole (27ZTAP 3,25,69).

SYNS: ANIMAL OIL □ DIPPEL'S OIL □ OIL OF HARTSHORN

TOXICITY DATA with REFERENCE:

orl-rat LDLo:800 mg/kg 27ZTAP 3,25,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BMB000 CAS: 1098-97-1 HR: 3
BONIFEN

mf: C₁₆H₂₀N₂O₄S₂•2ClH•H₂O mw: 459.44

PROP: Solid. Mp: 218–220°.

SYNS: 3,3'-DITHIOBIS(METHYLENE)BIS(5-HYDROXY-6-METHYL-4-PYRIDINEMETHANOL) DIHYDROCHLORIDE □ 3,3'-DITHIODIMETHYLENEBIS(5-HYDROXY-6-METHYL-4-PYRIDINEMETHANOL) DIHYDROCHLORIDE HYDRATE □ 5,5'-DITHIODIMETHYLENEBIS(2-METHYL-3-HYDROXY-4-HYDROXYMETHYLPYRIDINE)DIHYDROCHLORIDE HYDRATE □ EPOCAN □ PYRIDOXIN-5'-DISULFID DIHYDRO-CHLORID HYDRAT (GERMAN) □ PYRITHIOXIN

TOXICITY DATA with REFERENCE:

orl-rat LD50:6000 mg/kg ARZNAD 11,922,61
 scu-rat LD50:3000 mg/kg ARZNAD 11,922,61
 ivn-rat LD50:500 mg/kg ARZNAD 11,922,61
 orl-mus LD50:5786 mg/kg TMPBAX 54,156,78
 ipr-mus LD50:790 mg/kg ARZNAD 29,479,79
 scu-mus LD50:3170 mg/kg ARZNAD 11,922,61
 ivn-mus LD50:221 mg/kg TMPBAX 54,156,78
 ivn-cat LD50:124 mg/kg ARZNAD 11,922,61

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

BMB125

HR: 3

BONNECOR

mf: C₂₁H₂₅N₃O₃•ClH mw: 403.91

SYNS: AWD 19-166 □ 3-CARBETHOXYAMINO-5-DIMETHYL-AMINOACETYL-10,11-DIHYDRODIBENZ(b,f) AZEPINE HYDROCHLORIDE □ GS 015

TOXICITY DATA with REFERENCE:

orl-rat LD50:78 mg/kg PHARAT 40,871,85
 ivn-rat LD50:10,900 µg/kg PHARAT 40,871,85
 orl-mus LD50:48 mg/kg PHARAT 40,871,85
 ivn-mus LD50:5400 µg/kg PHARAT 40,871,85

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

BMB150

CAS: 17596-45-1

HR: 3

BORANE-AMMONIA

mf: BH₃-NH₃ mw: 30.86

SAFETY PROFILE: Complex may explode on rapid heating. When heated to decomposition it emits toxic fumes of NH₃. See also BORANES, BORON COMPOUNDS, and AMMONIA.

BMB250

CAS: 75-22-9

HR: 3

BORANE, COMPOUND with TRIMETHYLAMINE (1:1)

mf: C₃H₉N•BH₃ mw: 72.97

PROP: White crystals or solid. Insol in hexane, very sol in most org solvs; sltly sol in H₂O and cyclohexane

SYNS: BORANE, COMPOUND with N,N-DIMETHYLMETHANAMINE (1:1) □ TMAB □ TRIMETHYL-AMINE BORANE □ TRIMETHYLAMINE, COMPOUND with BORANE (1:1)

TOXICITY DATA with REFERENCE:

dni-mus:ast 100 µmol/L JPMSAE 74,755,85
 uns-mus:ast 100 µmol/L JPMSAE 74,755,85
 ipr-rat LD50:175 mg/kg JOCMA7 1,46,59
 ipr-mus LD50:740 mg/kg JPMSAE 19,1025,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BMB260

HR: 3

BORANE-HYDRAZINE

mf: BH₃-N₂H₄ mw: 45.88

SAFETY PROFILE: Complex is highly flammable and a shock-sensitive explosive. Upon decomposition it emits toxic fumes of NO_x. See also BORANES, BORON COMPOUNDS, and HYDRAZINE.

BMB270

HR: 3

BORANE-PHOSPHORUS TRIFLUORIDE

mf: BH₃-PF₃ mw: 101.80

SAFETY PROFILE: An unstable explosive complex which ignites spontaneously upon exposure to air. When heated to decomposition it emits toxic fumes of F⁻ and PO_x. See also BORANES, BORON COMPOUNDS, and PHOSPHORUS TRIFLUORIDE.

BMB280

HR: 3

BORANES

PROP: A series of boron hydrides (BH₃, B₂H₆,...,B₂₀H₂₆).

SAFETY PROFILE: Generally poisons. Most are unstable and react with water to produce explosive hydrogen gas. Many react violently with air. Many organoboranes are used as reducing agents. Haloboranes are highly reactive. Potentially explosive reaction with carbon tetrachloride.

BMB300

CAS: 14044-65-6

HR: 3

BORANE-TETRAHYDROFURAN

mf: BH₃-C₄H₈O mw: 85.93

PROP: Used only in soln, unstable in pure state, moisture-sensitive.

SAFETY PROFILE: The complex is an unstable explosive in tetrahydrofuran at room temperature. When heated to decomposition it emits acrid smoke and fumes. See also BORANES, BORON COMPOUNDS, and TETRAHYDROFURAN.

BMB325

HR: 2

BORASSUS FLABELLIFER Linn., extract

PROP: Indian plant belonging to the family Lalniae (IJEBA6 16,228,78).

TOXICITY DATA with REFERENCE:

mno-sat 530 µg/plate CALEDQ 26,113,85
 mma-sat 1590 µg/plate CALEDQ 26,113,85
 mmo-esc 530 µg/plate CALEDQ 26,113,85
 ipr-rat LD50:850 mg/kg IJEBA6 16,228,78

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mutation data reported.

BMB500

CAS: 6569-51-3

HR: 3

BORAZINE

mf: B₃H₆N₃ mw: 80.5

SYN: BORAZOLE

PROP: Colorless liquid. Mp: -58° , bp: 55° , d: 0.824 @ 0° .

SAFETY PROFILE: A powerful irritant to skin, eyes, and mucous membranes. May explode spontaneously when stored in the light. Reacts with water to form toxic and flammable boron hydrides. A dangerous fire hazard. When heated to decomposition it emits toxic fumes of NO_x . See also BORON COMPOUNDS.

BMB750**HR: 3****BORDEAUX ARSENITE**

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

OSHA PEL: TWA 0.01 mg(As)/ m^3

NIOSH REL: CL 0.002 mg(As)/ m^3 /15M

SAFETY PROFILE: A poison. See also ARSENIC COMPOUNDS and COPPER COMPOUNDS. When heated to decomposition it emits toxic fumes of As.

BMC000**CAS: 10043-35-3****HR: 3****BORIC ACID**

mf: BH_3O_3 mw: 61.84

PROP: White crystals, powder, or pearly scales. Mp: 171° (decomp), loses 1.5 H_2O @ 300° , d: 1.435 @ 15° .

SYNS: BORACIC ACID \square BOROFAX \square BORSAEURE (GERMAN) \square NCI-C56417 \square ORTHOBORIC ACID \square THREE ELEPHANT

TOXICITY DATA with REFERENCE:

skn-hmn 15 mg/3D-I MLD 85DKA8 -,127,77
mmo-esc 17,000 ppm/24H AMNTA4 85,119,51
spm-rat-ori 6 mg/kg EVHPAZ 13,69,76
ori-cld TDLo:500 mg/kg:GIT JTCTDW 24,269,86
ori-man LDLo:429 mg/kg:CVS,SYST JTCTDW 31,345,93
ori-cld TDLo: 500 mg/kg:GIT JTCTDW 24,269,86
ori-wmn LDLo:200 mg/kg LANCAO 2,162,17
ori-inf TDLo:800 mg/kg/4W-I ADCHAK 58,737,83
ori-inf LDLo:934 mg/kg JAMAAP 90,382,28
skn-inf LDLo:1200 mg/kg JAMAAP 129,332,45
skn-chd LDLo:4 g/kg/4D MMWOAU 52,763,05
skn-man LDLo:2430 mg/kg JAMAAP 128,266,45
skn-cld LDLo:1500 mg/kg QJPPAL 6,714,33
scu-inf LDLo:1100 mg/kg QJPPAL 6,714,33
unr-man TDLo:170 mg/kg:GIT RTPCAT 1,472,29
unr-man LDLo:147 mg/kg 85DCAI 2,73,70
ori-rat LD50:2660 mg/kg JAMAAP 128,266,45
ihl-rat LCLo:28 mg/ m^3 /4H 85GMAT -,27,82
scu-rat LD50:1400 mg/kg 14KTAK -,694,64
ivn-rat LD50:1330 mg/kg MDSR** No. 2,50
ori-mus LD50:3450 mg/kg JAMAAP 128,266,45
ipr-mus LDLo:800 mg/kg 14KTAK -,693,64
scu-mus LD50:1740 mg/kg JAMAAP 128,266,45
ivn-mus LD50:1240 mg/kg 14KTAK -,693,64
scu-dog LDLo:1000 mg/kg JAMAAP 128,266,45
par-dog LDLo:1 g/kg RTPCAT 1,472,29

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A human poison by ingestion and possibly other routes. Moderately toxic by skin contact and subcutaneous routes in humans. Poison experimentally by inhalation and subcutaneous routes. Moderately toxic experimentally by intraperitoneal and

intravenous routes. Human systemic effects: anorexia, changes in kidney tubules, nausea or vomiting, wakefulness. Ingestion or absorption by other routes may also cause diarrhea, abdominal cramps, erythematous lesions on skin and mucous membranes, circulatory collapse, tachycardia, cyanosis, delirium, convulsions, and coma. Death has occurred from ingestion of less than 5 g in infants, and from 5 to 20 g in adults. Chronic exposure may result in borism (dry skin, eruptions, and gastrointestinal disturbances). Experimental reproductive effects. Mutation data reported. A human skin irritant. See also BORON COMPOUNDS. Incompatible with K, $(\text{CH}_3\text{CO})_2\text{O}$.

BMC250**CAS: 34099-73-5****HR: 3****BORIC ACID, ETHYL ESTER****DOT:** UN 1176

mf: $\text{C}_2\text{H}_7\text{BO}_3$ mw: 89.90

PROP: Colorless liquid, mild odor, decomp in water. Bp: 120° , flash p: 52°F (CC), d: 0.864 @ 26.5° , vap d: 5.04.

SYN: ETHYL BORATE (DOT)

TOXICITY DATA with REFERENCE:

eye-rbt 5 mg SEV AJOPAA 29,1363,46

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A severe eye irritant. See also BORON COMPOUNDS and ESTERS. Dangerous fire hazard when exposed to heat or flame; will react with water or steam to produce flammable vapors. Incompatible with oxidizers, heat, and open flame. To fight fire, use CO_2 , dry chemical.

BMC500**CAS: 5337-42-8****HR: 1****BORIC ACID, TRIOLEYL ESTER**

mf: $\text{C}_{54}\text{H}_{108}\text{BO}_3$ mw: 816.43

SYN: TRIOLEYL BORATE

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MLD 14KTAK -,693,64

ori-mus LD50:6200 mg/kg 14KTAK -,693,64

SAFETY PROFILE: Mildly toxic by ingestion. An eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS and BORON COMPOUNDS.

BMC750**CAS: 5337-37-1****HR: 2****BORIC ACID, TRIS(4-METHYL-2-PENTYL) ESTER**

mf: $\text{C}_{18}\text{H}_{39}\text{BO}_3$ mw: 314.38

SYN: TRI(METHYLISOBUTYL CARBINYL) BORATE

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg SEV 14KTAK -,706,64

ori-mus LD50:1320 mg/kg USBCC*

SAFETY PROFILE: Moderately toxic by ingestion. A severe eye irritant. See also ESTERS and BORON COMPOUNDS. When heated to decomposition it emits acrid smoke and irritating fumes.

BMC800**CAS: 57693-13-7****HR: 1****BORICIDE**

SYNS: BORICID \square METIRAM, mixed with SULFUR

TOXICITY DATA with REFERENCE:

ihl-unr LC50:15,140 mg/ m^3 GTPZAB 34(12),8,90

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

BMD000 CAS: 507-70-0 HR: 3

BORNEOL

DOT: UN 1312

mf: $\text{C}_{10}\text{H}_{18}\text{O}$ mw: 154.28

PROP: Hexagonal crystals; peppery odor and burning taste. Mp: 208° , bp: 212° , flash p: 150°F , d: 1.01 @ $20^\circ/4^\circ$, vap d: 5.31.

SYNS: BAROS CAMPHOR □ BHIMSAIM CAMPHOR □ BICYCLO (2.2.1)HEPTAN-2-OL, 1,7,7-TRIMETHYL-, endo- (9CI) □ 2-BORNAN OL, endo- □ BORNEO CAMPHOR □ trans-BORNEOL □ BORNEOL (DOT) □ BORNYL ALCOHOL □ CAMPHANE, 2-HYDROXY- □ 2-CAMPHANOL □ CAMPHOL □ DRYOB-ALANOPS CAMPHOR □ 2-HYDROXYCAMPHANE □ MALAYAN CAMPHOR □ SUMATRA CAMPHOR □ endo-1,7,7-TRIMETHYL-BICYCLO(2.2.1)HEPTAN-2-OL

TOXICITY DATA with REFERENCE:

dnr-bcs 10 mg/disc OIGZSE 34,267,85
cyt-smc 1 mmol/tube HEREAY 33,457,47
orl-rat LD50:500 mg/kg FRXXBL #2448856
orl-mus LD50:1059 mg/kg SHGKA3 75,934,75
orl-rbt LDLo:2000 mg/kg AEXPBL 17,363,1883

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 4.1; Label: Flammable Solid

SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. A mild irritant. Flammable when exposed to heat or flame; can react with oxidizing materials. To fight fire, use water, CO_2 , water spray, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

BMD100 CAS: 76-49-3 HR: 1

BORNYL ACETATE

mf: $\text{C}_{12}\text{H}_{20}\text{O}_2$ mw: 196.29

PROP: Colorless liquid or white crystalline solid; sweet, piney odor. D: 0.981–0.985, refr index: 1.462, flash p: 192°F . Sol in alc, fixed oils; sltly sol in water; insol in glycerin, propylene glycol @ 226° .

SYNS: 1-BORNYL ACETATE □ FEMA No. 2159

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

BMD250 CAS: 40283-68-9 HR: 3
S-((N-BORNYLAMIDIN)METHYL) HYDROGEN THIOSULFATE

mf: $\text{C}_{12}\text{H}_{22}\text{N}_2\text{O}_3\text{S}_2$ mw: 306.48

TOXICITY DATA with REFERENCE:

orl-mus LD50:225 mg/kg JMCAR 15,1313,72
ipr-mus LD50:30 mg/kg JMCAR 15,1313,72

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

BMD300 CAS: 464-41-5 HR: 3
2-BORNYL CHLORIDE

mf: $\text{C}_{10}\text{H}_{17}\text{Cl}$ mw: 172.72

SYNS: BORNANE, 2-CHLORO-, endo- □ 2-CHLOROCAMPHANE □ BICYCLO(2.2.1)HEPTANE, 2-CHLORO-1,7,7-TRIMETHYL-, endo- □ BORNYL CHLORIDE □ TERPENE HYDROCHLORIDE □ TURPENTINE CAMPHOR □ endo-2-CHLORO-1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPTANE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1840 mg/kg 85GMAT-27,1982
ihl-rat LC50:149 $\text{mg}/\text{m}^3/4\text{H}$ VCVPs*,301,1998
orl-mus LD50:1.84 g/kg VCVPs*,301,1998

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

BMD500 CAS: 7440-42-8 HR: 3

BORON

af: B aw: 10.81

PROP: Monoclinic crystals, yellow or brown amorphous powder. Mp: 2190° , bp: 3660° , d: 3.33 @ 20° .

TOXICITY DATA with REFERENCE:

orl-rat LD50:650 mg/kg GISAAA 35(11),11,70
ipr-rat LD50:7 g/kg GTPZAB 35(2),42,91
orl-mus LD50:560 mg/kg GISAAA 35(11),11,70
ipr-mus LD50:11 g/kg GTPZAB 35(2),42,91
orl-dog LD50:310 mg/kg GISAAA 35(11),11,70
orl-cat LD50:250 mg/kg GISAAA 35(11),11,70
orl-rbt LD50:310 mg/kg GISAAA 35(11),11,70
orl-gpg LD50:310 mg/kg GISAAA 35(11),11,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion. See also BORON COMPOUNDS. A relatively inert metal except in the form of powder or when exposed to highly oxidizing agents. Amorphous boron is very reactive, sometimes violently. Flammable in the form of dust when exposed to air, or by chemical reaction. An explosion hazard in the form of dust, which ignites on contact with air. Reacts with NaOH at 5° , Na_2CO_3 at 8° . Reacts explosively when ground with lead fluoride or silver fluoride. Ignites in contact with gaseous chlorine or fluorine at room temperature. Incompatible with NH_3 , Br_2 , BrF_3 , Cs_2C_2 , Cl_2 , CuO , HIO_3 , PbO_2 , HNO_3 , NO , NOF , N_2O , KClO_3 , KNO_3 , Rb_2C_2 , S , BrF_5 , IF_5 , metal fluorides, interhalogens, nitril fluoride (FNO_2), OF_2 , KNO_2 , NO_x , Na_2O_2 , PbO , air. See also POWDERED METALS.

BMD750 CAS: 7440-42-8 HR: 3

BORON AZIDE DICHLORIDE

mf: BCl_2N_3 mw: 123.74

SAFETY PROFILE: Crust of sublimed compound explodes when crushed by spatula or upon removing solvent. When heated to decomposition it emits toxic fumes of Cl^- and NO_x . See also AZIDES, BORON COMPOUNDS, and CHLORIDES.

BMD825 CAS: 68533-38-0 HR: 3

BORON AZIDE DIIODIDE

mf: BI_2N_3 mw: 306.64

SAFETY PROFILE: Explodes on contact with water. When heated to decomposition it emits toxic fumes of I^- .

and NO_x. See also BORON COMPOUNDS, AZIDES, and IODIDES.

BME250 CAS: 14355-21-6 HR: 3
BORON BROMIDE DIIODIDE

mf: BBrI₂ mw: 344.53

PROP: Colorless liquid. Bp: 180°. Formed in mixtures of BBr₃ and BI₃. Sol in CH₂Cl₂; mod sol in methylcyclohexane.

SAFETY PROFILE: Dangerous. Violent reaction with water. When heated to decomposition it emits toxic fumes of Br⁻ and I⁻. See BORON COMPOUNDS, BROMIDES, and IODIDES.

BME500 HR: 3
BORON COMPOUNDS

SAFETY PROFILE: Very toxic and therefore considered an industrial poison. Used in medicine as sodium borate, boric acid, or borax, which is a common cleanser. Fatal poisoning of children has been caused by the accidental substitution of boric acid for powdered milk. The medical literature reveals instances of accidental poisoning due to boric acid, ingestion of borates or boric acid, and, presumably, absorption of boric acid from wounds and burns. The fatal dose of orally ingested boric acid for an adult is somewhat greater than 15 to 20 g and, for an infant, 5 to 6 g. Boron is one of a group of elements, such as Pb, Mn, As, that affects the central nervous system. Boron poisoning causes depression of the circulation, persistent vomiting, and diarrhea, followed by profound shock and coma. The temperature becomes subnormal and a scarlatina-form rash may cover the entire body. Containers of boric acid should be plainly labeled and should differ radically from those that contain powdered milk, particularly in institutions such as hospitals.

BME750 HR: 3
BORON DIBROMIDE IODIDE

mf: BBr₂I mw: 297.53

PROP: Colorless liquid. Bp: 125°, vap d: 10.3.

SAFETY PROFILE: Reaction with water or steam produces toxic and corrosive fumes. See BORON COMPOUNDS, BROMIDES, and IODIDES.

BMG000 CAS: 1303-86-2 HR: 2
BORON OXIDE

mf: B₂O₃ mw: 69.62

PROP: Vitreous or colorless. Two crystalline forms. Bp: 2250°, mp: 450° (approx), d: 2.46. IDLH 2000 mg/m³.

SYNS: BORIC ANHYDRIDE □ BORON SESQUIOXIDE □ BORON TRIOXIDE □ FUSED BORIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 1 g AIHAAP 20,284,59

eye-rbt 50 mg AIHAAP 20,284,59

orl-mus LD50:3163 mg/kg 85GMAT -,27,82

ipr-mus LD50:1868 mg/kg 85GMAT -,27,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ACGIH TLV: TWA 10 mg/m³

DFG MAK: 15 mg/m³

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An eye and skin irritant. A pesticide. Mixed with CaO and put into fused CaCl₂, the mixture incandesces. See also BORON COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Nuisance Dust, Total, 0500; Nuisance Dust, Respirable, 0600.

BMG250 HR: 3
BORON PHOSPHIDE

mf: BP mw: 41.79

PROP: Maroon powder. Mp: 200°.

SAFETY PROFILE: A poison. Ignites @ 200°. Deflagrates with fused alkali nitrates. Incompatible with HNO₃; oxidants; i.e., nitrates. When heated to decomposition it emits toxic fumes of PO_x. See also BORON COMPOUNDS and PHOSPHIDES.

BMG325 HR: 3
BORON TRIAZIDE

mf: BN₉ mw: 136.87

SYN: TRIAZIDOBORANE

SAFETY PROFILE: An explosive which detonates by heat or contact with ether or water. See also BORON COMPOUNDS, AZIDES, and EXPLOSIVES.

BMG400 CAS: 10294-33-4 HR: 3
BORON TRIBROMIDE

DOT: UN 2692

mf: BBr₃ mw: 250.54

PROP: Colorless, fuming liquid. Very moisture-sensitive. Mp: -46°, bp: 91.3°, d: 2.650 @ 0°, vap press: 40 mm @ 14.0°, 100 mm @ 33.5°. Sol in CCl₄, SO₂ (l), SCl₂; mod sol in methylcyclohexane.

SYNS: BORON BROMIDE □ TRONA

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: A poison. Corrosive. A skin, eye, and mucous membrane irritant. Dangerous; may explode when heated. This and other boron halides react with water or steam to produce toxic and corrosive fumes and may explode. Incompatible with K; Na. When heated to decomposition it emits toxic fumes of Br⁻. See also BORON COMPOUNDS and HYDROBROMIC ACID.

BMG500 CAS: 10294-34-5 HR: 3
BORON TRICHLORIDE

DOT: UN 1741

mf: BCl₃ mw: 117.16

PROP: Colorless gas, fuming liquid. Pungent, irritating odor. Very easily hydrolyzed. Mp: -107°, bp: 12.5°, d: 1.349 @ 11°/4°, vap press: 1 atm @ 12.7°, vap d: 4.03.

SYNS: BORON CHLORIDE □ CHLORURE de BORE (FRENCH)

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:20 ppm/7H 14KTAK -,726,64

ihl-mus LCLo:20 ppm/7H 14KTAK -,726,64

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

DOT CLASSIFICATION: 2.3; Label: Poison Gas, Corrosive

SAFETY PROFILE: A poison by inhalation. A corrosive and severe irritant to skin, eyes, and mucous membranes. Reacts with water or steam to produce heat, toxic and corrosive fumes. Violent reaction with aniline or phosphine. Incompatible with hexafluoroisopropylidene amino lithium, NO₂, grease, organic matter, O₂. When heated to decomposition it emits toxic fumes of Cl⁻. See also BORON COMPOUNDS and HYDROCHLORIC ACID.

BMG700 CAS: 7637-07-2 HR: 3
BORON TRIFLUORIDE

DOT: UN 1008

mf: BF₃ mw: 67.81

PROP: Colorless nonflammable gas; pungent, irritating odor. Mp: -128.4°, bp: -100.0°, d: 2.99 g/L. Sol in H₂O, and org solvs, e.g., alcohols, ethers (forming adducts). IDLH 25 ppm.

SYNS: BORON FLUORIDE □ FLUORURE de BORE (FRENCH)

TOXICITY DATA with REFERENCE:

ihl-rat LC50:1180 mg/m³/4H 85GMAT -,27,82

ihl-mus LC50:3460 mg/m³/2H FATOAO 35,369,72

ihl-gpg LC50:109 mg/m³/4H FATOAO 35,369,72

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

OSHA PEL: CL 1 ppm

ACGIH TLV: CL 1 ppm

DFG MAK: 1 ppm (3 mg/m³)

NIOSH REL: (Boron Trifluoride) No Exposure Limit

DOT CLASSIFICATION: 2.3; Label: Poison Gas

SAFETY PROFILE: A poison by inhalation. A strong irritant. See also BORON COMPOUNDS and FLUORIDES. A nonflammable gas. Dangerous; when heated to decomposition or upon contact with water or steam, will produce toxic and corrosive fumes of F⁻. Incompatible with alkali metals, alkaline earth metals (except Mg), alkyl nitrates, and CaO.

BMG750 CAS: 7578-36-1 HR: 3
BORON TRIFLUORIDE-ACETIC ACID COMPLEX

DOT: UN 1742

SYNS: ACETIC ACID, compd. with BORON FLUORIDE (BF₃) (8CI) □ BORON FLUORIDE, compd. with ACETIC ACID

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: A very corrosive material. When heated to decomposition it emits very toxic fumes of F⁻, B oxides. See BORON COMPOUND, ACETIC ACID, and FLUORIDES.

BMG800 CAS: 13319-75-0 HR: 2
BORON TRIFLUORIDE DIHYDRATE
DOT: UN 2851

mf: BF₃•2H₂O mw: 103.85

SYNS: BORANE, TRIFLUORO-, DIHYDRATE □ BORON FLUORIDE DIHYDRATE □ BORON TRIFLUORIDE DIHYDRATE (DOT)

TOXICITY DATA with REFERENCE:

ihl-rat LC50:1210 mg/m³/4H TXAPA9 83,69,86

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Moderately toxic by inhalation. A corrosive irritant. When heated to decomposition it emits toxic vapors of B and F⁻.

BMH000 CAS: 353-42-4 HR: 3
BORON TRIFLUORIDE-DIMETHYL ETHER
DOT: UN 2965

mf: C₂H₆O•BF₃ mw: 113.89

PROP: Moisture-sensitive liquid. D: 1.239, mp: -14°, bp: 126-127°.

SYNS: BORON TRIFLUORIDE DIMETHYL ETHERATE (DOT) □ FLUORID BORITY-DIMETHYLETHER (1:1)

TOXICITY DATA with REFERENCE:

ihl-gpg LCLo:50 ppm/4H 14KTAK -,726,64

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

DOT CLASSIFICATION: 4.3; Label: Dangerous When Wet, Corrosive, Flammable Liquid

SAFETY PROFILE: Poison by inhalation. Corrosive. Flammable liquid. When heated to decomposition it emits toxic fumes of F⁻. See also ETHERS and BORON COMPOUNDS.

BMH250 CAS: 109-63-7 HR: 3
BORON TRIFLUORIDE ETHERATE

mf: C₄H₁₀BF₃O mw: 141.93

PROP: Moisture-sensitive liquid. D: 1.125 @ 25, mp: -58°, bp: 126°, flash p: <22°.

SYN: BORON TRIFLUORIDE DIETHYL ETHERATE

SAFETY PROFILE: Corrosive. A dangerous fire hazard. Peroxide containing etherate reacts explosively with solid lithium tetrahydroaluminate. Incompatible with water or steam to produce toxic, corrosive and flammable vapors; oxidizing materials. To fight fire, use dry chemical, CO₂, fog or mist. See BORON COMPOUNDS, FLUORIDES, and ETHER.

BMH500 CAS: 13517-10-7 HR: 3
BORON TRIIODIDE

mf: BI₃ mw: 391.52

PROP: Colorless crystals or hygroscopic plates. Mp: 2° (est.), d: 3.35 @ 50°. Sol in C₆H₆, CS₂, or CH₂Cl₂.

SAFETY PROFILE: A poison. Reacts violently with water. Incandescent reaction with red or white phosphorus. Exothermic reaction with ammonia. Incompatible with ethers, carbohydrates, POCl. When heated to decomposition it emits toxic fumes of I⁻. See also BORON COMPOUNDS and IODIDES.

BMH659 CAS: 12007-33-9 HR: 3
BORON TRISULFIDE

mf: B₂S₃ mw: 117.80

PROP: Pale yellow solid, often glassy. Decomposes in moist air. Mp: 310°.

SAFETY PROFILE: Reacts violently with water. When heated to decomposition it emits toxic fumes of SO_x. See also BORON COMPOUNDS and SULFIDES.

**BMH750 CAS: 7184-60-3 HR: 3
BORRELIDIN**

mf: C₂₈H₄₃NO₆ mw: 489.72

PROP: Crystals. Mp: 145°.

TOXICITY DATA with REFERENCE:

scu-rat LD50:1780 µg/kg JCINAO 28,1047,49

ivn-rat LD50:2 mg/kg 85ERAY 2,1198,78

scu-mus LD50:75 mg/kg JCINAO 28,1047,49

ivn-mus LD50:39 mg/kg JCINAO 28,1047,49

ims-ckn LD50:74 mg/kg 85ERAY 2,1198,78

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

**BMH800 CAS: 147536-97-8 HR: D
BOSENTAN**

mf: C₂₇H₂₉N₅O₆S mw: 551.67

SYNS: BENZENESULFONAMIDE, 4-(1,1-DIMETHYLETHYL)-N-(6-(2-HYDROXYETHOXY)-5-(2-METHOXYPHENOXY)(2,2'-BIPYRIMIDIN)-4-YL)- □ RO 47-0203 □ RO 47-0203/039

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

**BM1000 HR: 3
BOTHROPS ASPER VENOM**

SYNS: B. ASPER VENOM □ VENOM, COSTA RICAN SNAKE, BOTHROPS ASPER

TOXICITY DATA with REFERENCE:

ipr-mus LD50:469 µg/kg AJTHAB 21,360,72

ivn-mus LD50:1175 µg/kg AJTHAB 21,360,72

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes.

**BM1125 HR: 3
BOTHROPS ATROX VENOM**

SYNS: B. ATROX VENOM □ VENOM, COSTA RICAN SNAKE, BOTHROPS ATROX

TOXICITY DATA with REFERENCE:

scu-mus LD50:22,140 µg/kg AJTMAQ 31,489,51

ivn-mus LD50:1400 µg/kg TXAPA9 16,73,70

ivn-rbt LDLo:5 µg/kg SCIEAS 117,47,53

ipr-mam LD50:3800 µg/kg CLPTAT 8,849,67

ivn-mam LD50:4270 µg/kg CLPTAT 8,849,67

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

**BM1250 HR: 3
BOTHROPS COLOMIBIENSIS VENOM**

SYN: VENOM, SNAKE, BOTHROPS COLOMIBIENSIS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:4 mg/kg TOXIA6 17(Suppl 1),161,79

ivn-mus LD50:2 mg/kg TOXIA6 17(Suppl 1),161,79

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes.

BM1500 HR: 3

BOTHROPS GODMANI VENOM

SYN: VENOM, COSTA RICAN SNAKE, BOTHROPS GODMANI

TOXICITY DATA with REFERENCE:

ipr-mus LD50:375 µg/kg AJTHAB 21,360,72

ivn-mus LD50:4750 µg/kg AJTHAB 21,360,72

ipr-mus LD50:375 µg/kg AJTHAB 21,360,72

ivn-mus LD50:4750 µg/kg AJTHAB 21,360,72

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

**BM1750 HR: 3
BOTHROPS LATERALIS VENOM**

SYN: VENOM, COSTA RICAN SNAKE, BOTHROPS LATERALIS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:644 µg/kg AJTHAB 21,360,72

ivn-mus LD50:5144 µg/kg AJTHAB 21,360,72

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

**BMJ000 HR: 3
BOTHROPS NASUTUS VENOM**

SYN: VENOM, COSTA RICAN SNAKE, BOTHROPS NASUTUS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:438 µg/kg AJTHAB 21,360,72

ivn-mus LD50:9063 µg/kg AJTHAB 21,360,72

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

**BMJ250 HR: 3
BOTHROPS NIGROVIRIDIS NIGROVIRIDIS
VENOM**

SYN: VENOM, COSTA RICAN SNAKE, BOTHROPS NIGROVIRIDIS NIGROVIRIDIS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:875 µg/kg AJTHAB 21,360,72

ivn-mus LD50:4438 µg/kg AJTHAB 21,360,72

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

**BMJ500 HR: 3
BOTHROPS NUMMIFER MEXICANUS VENOM**

SYNS: VENOM, COSTA RICAN SNAKE, BOTHROPS NUMMIFER MEXICANUS □ B. N. MEXICANUS VENOM

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1063 µg/kg AJTHAB 21,360,72

ivn-mus LD50:5656 µg/kg AJTHAB 21,360,72

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

**BMJ750 HR: 3
BOTHROPS OPHYOMEGA VENOM**

SYN: VENOM, COSTA RICAN SNAKE, BOTHROPS OPHYOMEGA

TOXICITY DATA with REFERENCE:

ipr-mus LD50:719 µg/kg AJTHAB 21,360,72

ivn-mus LD50:6813 µg/kg AJTHAB 21,360,72

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

**BMK000 HR: 3
BOTHROPS PICADOI VENOM**

SYN: VENOM, COSTA RICAN SNAKE, BOTHROPS PICADOI

TOXICITY DATA with REFERENCE:

ipr-mus LD50:375 µg/kg AJTHAB 21,360,72

ivn-mus LD50:1419 µg/kg AJTHAB 21,360,72

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

BMK250

HR: 3

BOTHROPS SCHLEGLII VENOM

SYN: VENOM, COSTA RICAN SNAKE, BOTHROPS SCHLEGLII

TOXICITY DATA with REFERENCE:

ivn-mus LD50:1600 µg/kg TXAPA9 16,73,70

ipr-mus LD50:531 µg/kg AJTHAB 21,360,72

ivn-mus LD50:2125 µg/kg AJTHAB 21,360,72

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

BMK290

CAS: 27098-03-9

HR: 3

BOTRYODIPILODIN

mf: C₇H₁₂O₃ mw: 144.19

PROP: Crystals from Et₂O. Mp: 50–52°.

SYNS: (–)-BOTRYODIPILODIN □ 2-HYDROXY-3-METHYL-4-ACETYL-TETRAHYDROFURANE □ METHYL-TETRAHYDRO-5-HYDROXY-4-METHYL-3-FURYL KETONE □ 1-(TETRAHYDRO-5-HYDROXY-4-METHYL-3-FURANYL)-ETHANONE (9CI)

TOXICITY DATA with REFERENCE:

dnd-hmn:fbr 30 µmol/L CRNGDP 5,1375,84

dns-rat:lvr 10 µmol/L CRNGDP 5,907,84

sce-ham:lng 300 µg/L CRNGDP 3,587,82

unr-mus LD50:40 mg/kg ENMUDM 3,287,81

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison. Human mutation data reported. A flammable liquid. When heated to decomposition it emits acrid smoke and fumes. See also KETONES.

BMM292

HR: 3

BOTULINUM NEUROTOXIN

SYNS: CLOSTRIDIUM BOTULINUM NEUROTOXIN □ NEUROTOXIN, CLOSTRIDIUM BOTULINUM

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 pg/kg TOXIA6 24,123,86

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

BMK300

CAS: 18127-01-0

HR: 2

BOURGEONAL

mf: C₁₃H₁₈O mw: 190.31

SYNS: BENZENEPROPANAL, 4-(1,1-DIMETHYLETHYL)- □ p-tert-BUTYLDIHYDROCINNAMALDEHYDE □ 4-(1,1-DIMETHYLETHYL)BENZENEPROPANAL

TOXICITY DATA with REFERENCE:

orl-rat LD50:2700 mg/kg FCTOD7 26,287,88

skn-rbt LDLo:5 g/kg FCTOD7 26,287,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BMK325

CAS: 64755-14-2

HR: 3

BOUVARDIN

mf: C₄₀H₄₈N₆O₁₀ mw: 772.94

PROP: Needles from MeOH/CH₂Cl₂.

SYN: NSC-259968

TOXICITY DATA with REFERENCE:

dni-mus:lym 3160 nmol/L TUMOAB 71,261,85

oms-mus:lym 1 µmol/L TUMOAB 71,261,85

ipr-mus LD50:12,430 µg/kg NCISP* JAN86

SAFETY PROFILE: Poison by intraperitoneal route.

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

BMK400

HR: D

BOVINE PINEAL GLAND EXTRACT

PROP: Dose is expressed as amount of extract equivalent to the starting wet weight of the pineal gland before extraction (LIFSAK 17,531,75)

SAFETY PROFILE: Experimental reproductive effects.

BMK500

CAS: 774-64-1

HR: 2

BOVOLIDE

mf: C₁₁H₁₆O₂ mw: 180.27

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. It is found in butter made from cow's milk and many other places. When heated to decomposition it emits acrid smoke and irritating fumes.

BMK550

CAS: 56484-47-0

HR: D

BP cis-9,10-DIHYDRODIOL

mf: C₂₀H₁₄O₂ mw: 286.34

SYNS: BENZO(a)PYRENE, 9,10-DIHYDRO-9,10-DIHYDROXY-, (Z)- □ cis-BENZO(a)PYRENE-9,10-DIHYDRODIOL □ BENZO(a)PYRENE-9,10-DIOL, 9,10-DIHYDRO-(Z)- □ (Z)-9,10-DIHYDRO BENZO(a)PYRENE-9,10-DIOL

TOXICITY DATA with REFERENCE:

msc-ham:lng 15 mg/L CNREA8 36,3350,1976

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

BMK560

CAS: 60268-86-2

HR: D

syn-BP-7,8-DIHYDRODIOL-9,10-OXIDE

mf: C₂₀H₁₄O₃ mw: 302.34

SYNS: BENZO(A)PYRENE, 7,8-DIHYDRO-7,8-DIHYDROXY-9,10-EPOXY, syn- □ syn-BENZO(A)PYRENE-7,8-DIHYDRODIOL-9,10-OXIDE □ BENZO(A)PYRENE, 7,8,9,10-TETRAHYDRO-trans-7,8-DIHYDROXY-9,10-EPOXY-, syn- □ trans-7,8-DIHYDROXY-9,10-EPOXY-7,8,9,10-TETRAHYDROBENZO(A)PYRENE, SYN

TOXICITY DATA with REFERENCE:

mic-sat 20 ng/plate CNREA8 44,4993,1984

add-ham-ovr 100 µg/ MUREAV 379,43,1997

msc-ham-ovr 30 µg/ EMMUEG 27,19,1996

msc-ham:lng 100 µg/ IJCNAW 24,203,1979

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

BMK620

CAS: 63323-31-9

HR: 2

(+)-BP-7-β,8-α-DIOL-9-α,10-α-EPOXIDE 2mf: C₂₀H₁₄O₃ mw: 302.34**PROP:** Solid. Mp: 226–228° (decomp).**SYNS:** (+)-trans-7-β,8-α-DIHYDROXY-9-α,10-α-EPOXY-7,8,9,10-TETRAHYDROBENZO(a)PYRENE □ (+)-E-7,8,9,10-TETRAHYDRO-7-α,8-β-DIHYDROXY-9-β,10-β-EPOXY-BENZO(a)-PYRENE**TOXICITY DATA with REFERENCE:**

mmo-sat 100 pmol/plate BBRCA9 77,1389,77

msc-ham:lng 300 nmol/L BBRCA9 77,1389,77

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data by skin contact. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**BMK630****HR: 2****B(a)P EPOXIDE II**mf: C₂₀H₁₄O₃ mw: 302.34**SYN:** anti-(±)-7-β,8-α-DIHYDROXY-9-α,10-α-EPOXY-7,8,9,10-TETRAHYDROBENZO(a)PYRENE**TOXICITY DATA with REFERENCE:**

dnd-hmn:fbr 1500 nmol/L/15M-C CBINA8 38,261,82

dnd-hmn:lym 5 μmol/L PAACA3 24,70,83

msc-hmn:fbr 50 nmol/L MUREAV 94,435,82

dnd-mus:emb 1800 μg/L SCIEAS 209,297,80

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental neoplastigenic and tumorigenic data by skin contact. Human mutation data reported. When heated to decomposition it emits acrid smoke and fumes.**BMK634****CAS: 75410-89-8****HR: 2****B(c)PH DIOL EPOXIDE-1**mf: C₁₈H₁₄O₃ mw: 278.32**SYNS:** (±)-BENZO(c)PHENANTHRENE-3,4-DIOL-1,2-EPOXIDE-1 □ BENZO(c)PHENANTHRENE-3-α-4-β-DIOL, 1,2,3,4-TETRAHYDRO-1-β,2-β-EPOXY-, (±)- □ (±)-3-α-4-β-DIHYDROXY-1-β,2-β-EPOXY-1,2,3,4-TETRAHYDROBENZ O(c)PHENANTHRENE**TOXICITY DATA with REFERENCE:**

mmo-sat 100 pmol/plate CNREA8 40,2876,80

msc-ham:lng 200 nmol/L CNREA8 40,2876,80

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic and irritating fumes**BMK635****HR: 2****B(c)PH DIOL EPOXIDE-2**mf: C₁₈H₁₄O₃ mw: 278.32**SYN:** (±)-3-α-4-β-DIHYDROXY-1-α,2-α-EPOXY-1,2,3,4-TETRAHYDROBENZ(c)PHENANTHRACENE**TOXICITY DATA with REFERENCE:**

mmo-sat 100 pmol/plate CNREA8 40,2876,80

mma-sat 300 pmol/plate CRNGDP 4,1631,83

msc-ham:lng 200 nmol/L CNREA8 40,2876,80

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**BMK750****HR: 2****BRACKEN FERN, CHLOROFORM FRACTION****PROP:** Chloroform fraction of tannin isolated from Bracken Fern (*Pteridium aquilinum*).**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. Mutation data reported. See also SHIKIMIC ACID.**BML000****HR: 3****BRACKEN FERN, DRIED****SYNS:** 1-CYCLOHEXENE-1-CARBOXYLIC ACID, 3,4,5 □ S.

EGRELTRI ATUNUN (TURKISH) □ PTERIDIUM AQUILINUM □ PTERIS AQUALINA

TOXICITY DATA with REFERENCE:

sln-dmg-ori 15 pph MUREAV 92,89,82

bfa-rat/sat 1000 g/kg JJIND8 65,131,80

bfa-ctl/sat 623 g/kg/2Y-C CNREA8 38,1556,78

CONSENSUS REPORTS: IARC Cancer Review: Human Inadequate Evidence IMEMDT 40,47,86; Animal Sufficient Evidence IMEMDT 40,47,86.**SAFETY PROFILE:** Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Experimental teratogenic and reproductive effects. Mutation data reported.**BML250****HR: 3****BRACKEN FERN TANNIN****SYNS:** PTERIDIUM AQUILINUM TANNIN □ TANNIN from BRACKEN FERN**TOXICITY DATA with REFERENCE:**

bfa-rat/sat 2000 g/kg/56W-C JJIND8 65,131,80

ipr-mus LD50:160 mg/kg JNCIAM 56,33,76

SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported.**BML500****CAS: 58-82-2****HR: D****BRADYKININ**mf: C₅₀H₇₃N₁₅O₁₁ mw: 1060.38**PROP:** Amorphous solid. Mp: 170° (decomp).**SYNS:** BK □ BRADYKININ (synthetic) □ BRS 640 □ KALLIDIN □ PRS 640 □ SYNTHETIC BRADYKININ**TOXICITY DATA with REFERENCE:**

cyt-mus:emb 500 μg/L DANKAS 282,173,85

SAFETY PROFILE: Experimental teratogenic and reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**BML750****CAS: 11011-73-7****HR: 3****BRAMYCIN**mf: C₃₂H₅₅NO₁₁ mw: 629.88**PROP:** An antibiotic produced by *Streptomyces diastatochromogenes* var. *bracus*.**TOXICITY DATA with REFERENCE:**

ori-mus LD50:4800 μg/kg 85ERAY 2,1134,78

ipr-mus LD50:490 μg/kg 85ERAY 2,1134,78

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.**BML825****HR: 3****BRAXORONE**

mf: $C_{21}H_{27}BrO_3$ mw: 407.39

SYNS: 9- α -BROMO-11-KETOPROGESTERONE \square 9-BROMO PREGN-4-ENE-3,11,20-TRIONE \square 9- α -BROMOPREGN-4-ENE-3,11,20-TRIONE

SAFETY PROFILE: Human female reproductive effects by ingestion: disorders of the menstrual cycle and changes in the uterus, cervix, or vagina. When heated to decomposition it emits toxic fumes of Br^- .

BMM000 CAS: 50924-49-7 HR: 2

BREDININ

mf: $C_9H_{13}N_3O_6$ mw: 259.25

PROP: Crystals from MeOH.

SYNS: ANHYDRO-4-CARBAMOYL-5-HYDROXY-1- β -D-RIBOFURANOSYL-IMIDAZOLIUMHYDROXIDE \square BREDININE \square 4-CARBAMOYL-1- β -D-RIBOFURANOSYL-IMIDAZOLIUM-5-OLATE \square 5-HYDROXY-1- β -D-RIBOFURANOSYL-1H-IMIDAZOLE-4-CARBOXAMIDE \square MIZORIBINE

TOXICITY DATA with REFERENCE:

mnt-mus-*ipr* 5 g/kg OYYAA2 24,703,82
 cyt-mus-leu 20 μ mol/L IDZAAW 51,61,76
 cyt-mus-*lym* 20 μ mol/L CNREA8 35,1643,75
 sce-mus-*lym* 2500 nmol/L OYYAA2 24,703,82
 dlt-mus-*orl* 160 mg/kg OYYAA2 24,711,82
 cyt-ham-fbr 100 μ mol/L CNREA8 35,1643,75
orl-rat LD50:3100 mg/kg IYKEDH 15,668,84
scu-rat LD50:4161 mg/kg IYKEDH 15,668,84
ivn-rat LD50:1500 mg/kg DRFUD4 3,567,78
ipr-mus LD50:5000 mg/kg 85GDA2 5,275,81
ivn-mus LD50:500 mg/kg 85GDA2 5,275,81

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion and intravenous route. An experimental teratogen. Other experimental reproductive effects. Mutation data reported. An immunosuppressive agent. When heated to decomposition it emits toxic fumes of NO_x .

BMM075 CAS: 12125-61-0 HR: 3

BREITHAUPTITE

mf: NiSb mw: 180.46

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

SAFETY PROFILE: Suspected carcinogen. When heated to decomposition it emits toxic vapors of Ni and Sb.

BMM125 CAS: 2179-16-0 HR: D

BREMFOLE

mf: $C_{20}H_{21}N_7O_6$ mw: 455.48

SYNS: 9-ME-PGA \square 9-METHYL-PGA \square 9-METHYL PTEROYLGLUTAMIC ACID \square NINOPTERIN

SAFETY PROFILE: An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .

BMM150 CAS: 98225-48-0 HR: 3

BREVETOXIN

SYN: PTYCHODISCUS BREVIS TOXIN

TOXICITY DATA with REFERENCE:

ipr-mus LD50:500 μ g/kg TOXIA6 23,505,1985

ivn-dog LDLo:40 μ g/kg TOXIA6 23,505,1985

ipr-mus TDLo:180 μ g/kg TOXIA6 39,1367,2001

ivn-cat TDLo:40 μ g/kg VCVPS*,245,1998

orl-unr TDLo: 160 μ g/kg VCVPS*,245,1998

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

BMM500 CAS: 2580-78-1 HR: 2

BRILLIANT BLUE R

mf: $C_{22}H_{16}N_3O_{11}S_3 \cdot 2Na$ mw: 626.56

SYNS: CAVALITE BRILLIANT BLUE R \square C.I. 61200 \square C.I. REACTIVE BLUE 19 \square C.I. REACTIVE BLUE 19, DISODIUM SALT \square REACTIVE BLUE 19 \square REMALAN BRILLIANT BLUE R \square REMAZOL BRILLIANT BLUE R

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of Na_2O , NO_x , and SO_x . See also SULFONATES.

BMM550 CAS: 10127-36-3 HR: 3

BRILLIANT CRESYL BLUE

mf: $C_{17}H_{21}N_4O \cdot Cl$ mw: 332.87

SYNS: BRILLIANT CRESYL BLUE BB \square C.I. 51010 \square 1,3-DIAMINO-7-(DIETHYLAMINO)-8-METHYLPHENOXAZIN-5-IUM CHLORIDE \square PHENOXAZIN-5-IUM, 1,3-DIAMINO-7-(DIETHYLAMINO)-8-METHYL-, CHLORIDE

TOXICITY DATA with REFERENCE:

cyt-ham:ovr 20 μ mol/L ENMUDM 1,27,79
ivn-mus LD50:32 mg/kg TXAPA9 44,225,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Cl^- .

BMM575 CAS: 59803-98-4 HR: 3

BRIMONIDINE

mf: $C_{11}H_{10}BrN_5$ mw: 292.17

SYNS: 5-BROMO-6-(2-IMIDAZOLIN-2-YLAMINO)QUINOXALINE \square LK 14304-18 \square 6-QUINOXALINAMINE, 5-BROMO-N-(4,5-DIHYDRO-1H-IMIDAZOL-2-YL)- \square UK 14304 \square UK14304

TOXICITY DATA with REFERENCE:

orl-mus LD50:160 mg/kg JKXXAF #81-02912

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

BMM600 CAS: 555-65-7 HR: D

BROCRESINE

mf: $C_7H_8BrNO_2$ mw: 218.07

SYNS: α -(AMINOXY)-6-BROMO-m-CRESOL \square BROCRESIN \square CL 54998 \square m-CRESOL, α -(AMINOXY)-6-BROMO- \square NSD 1055 \square PHENOL, 5-((AMINOXY)METHYL)-2-BROMO-(9CI)

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

BMM625 CAS: 63638-90-4 HR: 3

BROFAREMINE HYDROCHLORIDEmf: $C_{14}H_{16}BrNO_2 \cdot ClH$ mw: 346.68**PROP:** Crystals from MeOH/Et₂O. Mp: 242–243°.**SYNS:** 4-(7-BROMO-5-METHOXY-2-

BENZOFURANYL)PIPERIDINE HYDROCHLORIDE □ CGP-11305A

TOXICITY DATA with REFERENCE:

orl-rat LD50:310 mg/kg DRFUD4 10,371,85

orl-mus LD50:190 mg/kg DRFUD4 10,371,85

orl-dog LD50:100 mg/kg DRFUD4 10,371,85

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of Br⁻, NO_x, and HCl.**BMM650 CAS: 314-40-9 HR: 2
BROMACIL**mf: $C_9H_{13}BrN_2O_2$ mw: 261.15**PROP:** Crystals or solid from EtOH (aq). Sltly sol in H₂O; mod sol in strong aq bases from Me₂CO, MeCN, and EtOH.**SYNS:** BOREA □ BROMAZIL □ 5-BROMO-3-sec-BUTYL-6-METHYLURACIL □ 5-BROMO-6-METHYL-3-(1-METHYL-PROPYL)-2,4(1H,3H)-PYRIMIDINEDIONE □ 5-BROMO-6-METHYL-3-(1-METHYLPROPYL)URACIL □ 3-sek.BUTYL-5-BROM-6-METHYL URACIL (GERMAN) □ CYNOGAN □ DU PONT HERBICIDE 976 □ EEREX GRANULAR WEED KILLER □ EEREX WATER SOLUBLE CONCENTRATE WEED KILLER □ HERBICIDE 976 □ HYVAR □ HYVAREX □ HYVAR X □ HYVAR X BROMACIL □ HYVAR X WEED KILLER □ KROVAR II □ NALKIL □ URAGAN □ URAGON □ UROX B WATER SOLUBLE CONCENTRATE WEED KILLER □ UROX HX GRANULAR WEED KILLER**TOXICITY DATA with REFERENCE:**

sln-dmg-orl 2000 ppm JPFCD2 15,867,80

sln-nsc 10 mg/L MUREAV 167,35,86

msc-mus:lym 750 mg/L NTIS** PB84-138973

orl-rat LD50:641 mg/kg FAATDF 7,299,86

orl-mus LD50:3040 mg/kg JPFCD2 15,867,80

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**OSHA PEL:** TWA 10 ppm**ACGIH TLV:** TWA 10 mg/m³; Animal Carcinogen**SAFETY PROFILE:** Moderately toxic by ingestion. An experimental teratogen. Mutation data reported. Questionable carcinogen. An herbicide. When heated to decomposition it emits very toxic fumes of Br⁻ and NO_x.**BMN000 CAS: 28772-56-7 HR: 3
BROMADIALONE**mf: $C_{30}H_{23}BrO_4$ mw: 527.11**SYNS:** BROMADIOLONE □ 3-(3-(4'-BROMO(1,1'-BIPHENYL)-4-YL)3-HYDROXY-1-PHENYLPROPYL)-4-HYDROXY-2H-1-BENZO PYRAN-2-ONE □ BROMONE □ 3-(α-(p-(p-BROMOPHENYL)-β-HYDROXYPHENETHYL)BENZYL)-4-HYDROXYCOUMARIN □ CANADIEN 2000 □ CONTRAC □ (HYDROXY-4 COUMARINYL 3)-3 PHENYL-3 (BROMO-4 BIPHENYLYL-4)-1 PROPANOL-1 (FRENCH) □ LM-637 □ MAKI □ RATIMUS □ SUPER-CAID □ SUPER-ROZOL □ SUP'OPERATS □ TEMUS**TOXICITY DATA with REFERENCE:**

orl-rat LD50:490 µg/kg MRBUDF 13,303,85

orl-mus LD50:1750 µg/kg PHPHA6 25,69,76

orl-rbt LD50:1 mg/kg PHPHA6 25,69,76

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.**SAFETY PROFILE:** A deadly poison by ingestion. Used as a rodent poison. When heated to decomposition it emits toxic fumes of Br⁻. See also WARFARIN.**BMN250 CAS: 13977-28-1 HR: 3
BROMADRYL**mf: $C_{18}H_{22}BrNO \cdot ClH$ mw: 384.78**PROP:** Crystals from Me₂CO/Et₂O. Mp: 152–155°.**SYNS:** 2-(1-(4-BROMODIPHENYL)ETHOXY)-N,N-DIMETHYLETHYLAMINE HYDROCHLORIDE □ p-BROMO-α-METHYL BENZHYDRYL-2-DIMETHYLAMINOETHYL ETHER HYDROCHLORIDE □ 2-(p-BROMO-α-METHYL-α-PHENYL BENZYL)OXY)-N,N-DIMETHYLETHYLAMINE HYDRO CHLORIDE □ 2-(1-(4-BROMOPHENYL)-1-PHENYLETHOXY)-N,N-DIMETHYLETHANAMINE HYDROCHLORIDE □ 1-(p-BROMO PHENYL)-1-PHENYL-1-(2-DIMETHYLAMINO-ETHOXY)ETHANE HYDROCHLORIDE □ (2-(1-p-BROMO-PHENYL-1-PHENYL ETHOXY)ETHYL)DIMETHYLETHYL-AMINE HYDROCHLORIDE □ β-DIMETHYLAMINO-ETHYL-p-BROMO-α-METHYLBENZ HYDRYL ETHER HYDROCHLORIDE □ EMBRAMINE HYDROCHLORIDE □ MEBROPHENHYDR-AMINE □ MEBROPHENHYDRAMINE HYDROCHLORIDE □ MEBRYL**TOXICITY DATA with REFERENCE:**

orl-mus LD50:330 mg/kg MEIEDD 10,513,83

ivn-mus LD50:80 mg/kg MEIEDD 10,513,83

SAFETY PROFILE: Poison by ingestion and intravenous routes. An antihistaminic agent. When heated to decomposition it emits very toxic fumes of HCl, Br⁻, and NO_x. See also ETHERS.**BMN350 CAS: 332-69-4 HR: 2
BROMANYLPROMIDE**mf: $C_{11}H_{15}BrN_2O$ mw: 271.19**PROP:** Solid. Mp: 114.5–116.5°.**SYNS:** BROMAMID □ BROMAMIDE □ BROMAMIDE (pharmaceutical) □ N,N-DIMETHYL-β-(p-BROMOANILINO) PROPIONAMIDE □ 3-((4-BROMOPHENYL)AMINO)-N,N-DIMETHYL-PROPANAMIDE (9CI)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1810 mg/kg OYYAA2 2,70,68

orl-mus LD50:2431 mg/kg OYYAA2 2,70,68

scu-mus LD50:1375 mg/kg OYYAA2 2,70,68

SAFETY PROFILE: Moderately toxic by ingestion and other routes. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.**BMN500 HR: 3
BROMATES****SAFETY PROFILE:** Generally considered to be more toxic than chlorates; cause central nervous system paralysis. They may form methemoglobin, but less actively than chlorates. See also specific compounds. Flammable in the form of gas, vapor, or dust by chemical reaction with (powdered metals + acids); Al; As; CaH₂; C; Cu; powdered metals; metal sulfides; organic matter; PH₄I; P; SrH₂; S; (H₂SO₄ + metals). When heated to decomposition they emit toxic fumes of Br⁻; can react with reducing materials.**BMN750 CAS: 1812-30-2 HR: 3**

BROMAZEPAMmf: C₁₄H₁₀BrN₃O mw: 316.18**PROP:** Prisms from Me₂CO. Mp: 241–241° (decomp).Sol in dil acids, EtOH, Me₂CO.

SYNS: 7-BROMO-1,3-DIHYDRO-5-(2-PYRIDYL)-2H-1,4-BENZDIAZEPIN-2-ONE □ 7-BROMO-5-(2-PYRIDYL)-3H-1,4-BENZODIAZEPIN-2(1H)-ONE □ COMPENDIUM □ 1,3-DIHYDRO-7-BROMO-5-(2-PYRIDYL)-2H-1,4-BENZODIAZEPIN-2-ONE □ KL-001 □ LA XVII □ LECTOPAM □ LEXOMIL □ LEXOTAN □ LEXOTANIL □ RO 4-9253 □ RO 5-3350

TOXICITY DATA with REFERENCE:

skn-hmn 3 mg/3D-I MOD 85DKA8 -,127,77
 orl-rat LD50:1950 mg/kg KSRNAM 7,2413,73
 ipr-rat LD50:1660 mg/kg OYYAA2 17,115,79
 scu-rat LD50:8800 mg/kg OYYAA2 17,115,79
 orl-mus LD50:879 mg/kg OYYAA2 17,115,79
 ipr-mus LD50:200 mg/kg JDGRAX 16,7,85
 scu-mus LD50:6870 mg/kg OYYAA2 17,115,79
 orl-rbt LD50:1690 mg/kg 27ZQAG -,158,72

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. An experimental teratogen. Other experimental reproductive effects. Human skin irritant. A tranquilizer. When heated to decomposition it emits very toxic fumes of NO_x and HBr.

BMO000**CAS: 9001-00-7****HR: 3****BROMELAIN**

PROP: From pineapples *Ananas comosus* and *Ananas bracteatus* L. White to tan amorphous powder. Sol in water; insol in alc, chloroform, ether.

SYNS: ANANASE □ BROMELAINS □ BROMELIN □ E.C. 3.4.4.24 □ EXTRANASE □ INFLAMEN □ PLANT PROTEASE CONCENTRATE □ TRAUMANASE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:85,200 µg/kg AIPTAK 145,166,63
 ipr-rat LD50:85 mg/kg AIPTAK 145,166,63
 ipr-mus LD50:37 mg/kg AIPTAK 145,166,63
 ivn-mus LD50:30 mg/kg AIPTAK 145,166,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BMO250**CAS: 15086-94-9****HR: 1****BROMEOSIN**mf: C₂₀H₈Br₄O₅ mw: 647.92**PROP:** Insol in H₂O; sltly sol in EtOH; sol in alkalis.

SYNS: BROMOEOSIN □ BROMOFLUORESCEIC ACID □ C.I. 45380:2 □ C.I. SOLVENT RED 43 □ D&C RED No. 21 □ EOSIN □ EOSINE □ 2,4,5,7-TETRABROMO-3,6-FLUORANDIOL □ TETRABROMOFLUORESCEIN □ 2',4',5',7'-TETRABROMO FLUORESCEIN

TOXICITY DATA with REFERENCE:

dnr-bcs 2 mg/disc TRENAF 27,153,76
 scu-mus LDLo:450 mg/kg HBAMAK 4,1289,35
 scu-frg LDLo:1 g/kg HBAMAK 4,1289,35

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87, Animal Inadequate Evidence IMEMDT 15,183,77. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. Incompatible with reducing agents. When heated to

decomposition it emits very toxic fumes of Br⁻. See also BROMIDES.

BMO300**CAS: 63333-35-7****HR: 3****BROMETHALINE**mf: C₁₄H₇Br₃F₃N₃O₄ mw: 577.97

SYNS: BENZENAMINE, 2,4-DINITRO-N-METHYL-N-(2,4,6-TRIBROMOPHENYL)-6-(TRIFLUOROMETHYL)- □ BROMETHALIN □ 4,6-DINITRO-N-METHYL-N-(2,4,6-TRIBROMOPHENYL)-α-α-α-TRIFLUOR O-o-TOLUIDINE □ EL 614 □ GOLD CREST VENGEANCE □ LILLY 126714 □ N-METHYL-2,4-DINITRO-N-2,4,6-TRIBROMOPHENYL-(6)TRIFLUOROMETHYLBENZENE AMINE □ o-TOLUIDINE, 4,6-DINITRO-N-METHYL-N-(2,4,6-TRIBROMOPHENYL)-α-α-α-TRIFLUOR O- □ VENGEANCE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2 mg/kg FAATDF 11,664,88
 ihl-rat LC50:685 mg/m³/1H FMCHA2 -,C51,91
 orl-mus LD50:2200 µg/kg VMDNAV 20(8),72,83
 orl-dog LD50:4700 µg/kg FAATDF 11,664,88
 orl-cat LD50:1800 µg/kg FAATDF 11,664,88
 orl-rbt LD50:13 mg/kg FAATDF 11,664,88
 skn-rbt LD50:1 g/kg PEMNDP 9,96,91

SAFETY PROFILE: A poison by ingestion and inhalation routes. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Br⁻.

BMO310**CAS: 33399-00-7****HR: 3****BROMFENVINFOS**mf: C₁₂H₁₄BrCl₂O₄P mw: 404.04

SYNS: BROMFENVINPHOS □ BROMFENVINFOS □ BROMPHENVINPHOS □ O-1-(2,4-DICHLOROPHENYL)-2-BROMOVINYL O,O-DIETHYL PHOSPHATE □ O,O-DWUETILO-O-1-(2,4-DWUCHLOROPHENYLO)-2-BROMO-WINYLFOFOSFORAN □ IPO 62 □ IPOFOS □ IPOPHOS □ PHOSPHORIC ACID, 2-BROMO-1-(2,4-DICHLOROPHENYL)-ETHENYL DIETHYL ESTER (9CI) □ PHOSPHORIC ACID, 2-BROMO-1-(2,4-DICHLOROPHENYL)VINYL DIETHYL ESTER □ SD 8989

TOXICITY DATA with REFERENCE:

orl-rat LD50:21,400 µg/kg RPZHAW 29,649,78
 skn-rat LD50:>2 g/kg APYPAY 32,507,81
 scu-rat LD50:64 mg/kg APYPAY 32,507,81

SAFETY PROFILE: A poison by ingestion and subcutaneous routes. Moderately toxic by skin contact.

BMO325**CAS: 611-75-6****HR: 3****BROMHEXINE CHLORIDE**mf: C₁₄H₂₀Br₂N₂•ClH mw: 412.64

PROP: Solid. Mp: 237–238° (decomp). Insol in Me₂CO and CHCl₃.

SYNS: 2-AMINO-3,5-DIBROMO-N-CYCLOHEXYL-N-METHYL-BENZENEMETHANAMINE MONOHYDROCHLORIDE (9CI) □ BISOLVON □ BISOLVON HYDROCHLORIDE □ BROMHEXINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:6 g/kg GNRIDX 3,259,69
 ipr-rat LD50:1680 mg/kg GNRIDX 3,259,69
 orl-mus LD50:4800 mg/kg GNRIDX 3,259,69
 ipr-mus LD50:2210 mg/kg GNRIDX 3,259,69
 ivn-mus LD50:44 mg/kg GNRIDX 3,259,69

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by other routes. When heated to decomposition it emits toxic fumes of Br^- , NO_x , and HCl .

BMO750 BROMIDES

HR: 3

SAFETY PROFILE: The most common inorganic bromides are Na, K, NH_4 , Ca, and Mg bromides. Methyl and ethyl bromides are among the most common organic bromides. The inorganic bromides produce depression, emaciation, and, in severe cases, psychosis and mental deterioration. Bromide rashes (bromoderma), especially of the face and resembling acne and furunculosis, often occur when bromide inhalation or administration is prolonged. Organic bromides, such as methyl bromide and ethyl bromide, are volatile liquids of relatively high toxicity. See also specific compounds. When strongly heated they emit highly toxic fumes of Br^- .

BMO825 CAS: 68952-98-7 HR: D BROMINATED VEGETABLE (SOYBEAN) OIL

PROP: Pale-yellow to dark-brown viscous, oily liquid; bland or fruity odor and bland taste. Sol in alc, chloroform, ether, hexane, fixed oils; insol in water.

SYN: VEGETABLE (SOYBEAN) OIL, brominated

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

BMP000 CAS: 7726-95-6 HR: 3 BROMINE

DOT: UN 1744

mf: Br_2 mw: 159.82

PROP: Rhombic crystals or dark red-brown liquid with a strong disagreeable pungent odor. Strong oxidant. Fp: -7.3° , bp: 59.5° , d: 2.928 @ 59° , 3.12 @ 20° , vap press: 175 mm @ 21° , 1 atm @ 58.2° , vap d: 5.5. Sol in H_2O . Misc in most org solvs, although it may react. IDLH 3 ppm.

SYNS: BROM (GERMAN) □ BROME (FRENCH) □ BROMINE, solution (DOT) □ BROMO (ITALIAN) □ BROOM (DUTCH)

TOXICITY DATA WITH REFERENCE:

orl-hmn LDLo:14 mg/kg 34Z1AG -,645,69

ihl-hmn LCLo:1000 ppm 34Z1AG -,645,69

ihl-mus LC50:750 ppm/9M AIHAAP 39,129,78

ihl-cat LCLo:140 ppm/7H AHYGAJ 7,233,1887

ihl-rbt LCLo:180 ppm/6.5H HBTXAC 1,324,56

ihl-gpg LCLo:140 ppm/7H AHYGAJ 7,233,1887

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

OSHA PEL: TWA 0.1 ppm; STEL 0.3 ppm

ACGIH TLV: TWA 0.1 ppm; STEL 0.2 ppm

DFG MAK: 0.1 ppm (0.66 mg/m³)

DOT CLASSIFICATION: 8; Label: Corrosive, Poison

SAFETY PROFILE: A human poison by ingestion and moderately toxic by inhalation. A poison by ingestion and inhalation experimentally. Corrosive. The action of bromine is essentially the same as that of chlorine, irritating the mucous membranes of the eyes and upper respiratory tract. Severe exposure may result in pulmonary

edema. Usually, however, the irritant qualities of the chemical force the worker to leave the exposure area before serious poisoning can result. Chronic exposure is similar to the therapeutic ingestion of excessive bromides. See also BROMIDES. Regular physical examinations should be made of people who work with bromine or bromides. Flammable in the form of liquid or vapor by spontaneous chemical reaction with reducing materials. A very powerful oxidizer. Highly dangerous; when heated it emits highly toxic fumes; will react with water or steam to produce toxic and corrosive fumes. Reacts explosively with diethylzinc, germane, disilane, dimethylformamide, hydrogen, isobutyrophenone, metal azides (particularly silver or sodium azide), potassium, silane and homologs, praseodymium, antimony, trimethylamine, ammonia. Mixtures with lithium or sodium are shock-sensitive explosives. Ignition on contact with germanium, mono- or di-alkali metal acetylides, trialkyl boranes, copper acetylides. Violent reaction with carbonyl compounds (aldehydes, ketones, carboxylic acids), diethyl ether, phosphine, natural rubber, aluminum, mercury, titanium. Vigorous reaction with methanol and other alcohols, tetrahydrofuran, mixtures of ethanol and phosphorus. Incompatible with acetaldehyde, C_2H_2 , acrylonitrile, NH_3 , Sb, B, Ca_3N_2 , Cs_2O , Cs_2C_2 , CsC_2H , ClF_3C_2 , CuH_2 , dimethylformamide, ethyl phosphine, F_2 , Fe_2C , isobutyrophenone, Li_2C_2 , Li_2Si_2 , Mg_3P_2 , $\text{Ni}(\text{Co})_4$, NI_3 , olefins, OF_2 , O_3 , P, PO_x , Rb_2C_2 , RbC_2H , Na_2C_2 , NaC_2H , Sr_3P , Sn, UC_2 , ZrC_2 , reducing materials.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-108 or NIOSH: Bromine and Chloride 6011.

BMP250 CAS: 13973-87-0 HR: 3 BROMINE AZIDE

mf: BrN_3 mw: 121.93

PROP: Crystals or red liquid. Mp: 45° , bp: explodes.

SYNS: BROMINE NITRIDE □ NITROGEN BROMIDE

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: A poison. Can explode spontaneously. The solid, liquid and vapor are shock-sensitive explosives. Concentrated solutions in organic solvents may explode. Moderate fire hazard in the form of vapor by chemical reaction. A powerful oxidant. Moderately explosive when exposed to heat. The liquid explodes on contact with arsenic, sodium, silver foil, or phosphorus. Incompatible with Sb, ethyl ether, Ag, metals. When heated to decomposition it emits highly toxic fumes of Br^- and explodes. See also BROMINE and AZIDES.

BMP500 CAS: 21255-83-4 HR: 3 BROMINE DIOXIDE

mf: BrO_2 mw: 111.91

PROP: Light or dark yellow crystals.

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.

SAFETY PROFILE: Very unstable material.

Flammable in the form of vapor by chemical reaction with reducing agents. Potentially explosive if heated rapidly. A strong oxidant. Reaction with water, steam, or reducing materials produces toxic and corrosive fumes. Must be stored at low temperatures. When heated to

decomposition it emits toxic fumes of Br^- . See also BROMINE.

BMP750 CAS: 13863-59-7 HR: 3
BROMINE FLUORIDE

mf: BrF mw: 98.91

PROP: Red-brown gas. Mp: -33° , bp: 20° .

SAFETY PROFILE: A poison and powerful irritant. Very reactive. Ignites on contact with H_2 . Incompatible with organic matter and water. When heated to decomposition it emits toxic fumes of F^- and Br^- . See also BROMINE and FLUORIDE.

BMQ000 CAS: 7789-30-2 HR: 3
BROMINE PENTAFLUORIDE

DOT: UN 1745

mf: BrF_5 mw: 174.91

PROP: Colorless fuming liquid. An extremely vigorous fluorinating agent. Mp: -60.5° , bp: 40.5° , d: 2.466 @ 25° , vap d: 6.05.

OSHA PEL: TWA 0.1 ppm; TWA 2.5 mg(F)/ m^3

ACGIH TLV: TWA 0.1 ppm; 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

DOT CLASSIFICATION: 5.1; Label: Oxidizer, Poison, Corrosive

SAFETY PROFILE: A poisonous, corrosive, and extremely reactive gas. It is a powerful oxidizer. Will react with water or steam to produce toxic and corrosive fumes. The liquefied gas reacts violently with many organic compounds and some inorganic compounds. Explodes or ignites on contact with hydrogen-containing materials (e.g., acetic acid, ammonia, benzene, ethanol, hydrogen, hydrogen sulfide, methane, cork, grease, paper, wax, chloromethane). Reacts violently and may ignite on contact with acids, halogens, nonmetals, metal halides, metals, oxides, concentrated nitric or sulfuric acids, aluminum powder, ammonium chloride, antimony, arsenic, arsenic pentoxide, barium, bismuth, boron powder, boron trioxide, calcium oxide, carbon monoxide, charcoal, chlorine, chromium, chromium trioxide, cobalt powder, iodine, iodine pentoxide, iridium powder, iron powder, lithium powder, manganese, magnesium oxide, molybdenum, molybdenum trioxide, nickel powder, red phosphorus, phosphorus pentoxide, potassium iodide, rhodium powder, selenium, sulfur, sulfur dioxide, tellurium, tungsten, tungsten trioxide, water, zinc. When heated to decomposition it emits very toxic fumes of F^- and Br^- . See also BROMINE and FLUORIDES.

BMQ250 HR: 3
BROMINE PERCHLORATE

mf: BrClO_4 mw: 179.36

SAFETY PROFILE: A shock-sensitive explosive. Upon decomposition it emits toxic fumes of Cl^- and Br^- . See also PERCHLORATES and BROMIDES.

BMQ325 CAS: 7787-71-5 HR: 3
BROMINE TRIFLUORIDE

DOT: UN 1746

mf: BrF_3 mw: 136.91

PROP: Colorless, fuming liquid. Mp: 8.8° , bp: 127° , d: 2.84.

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

DOT CLASSIFICATION: 5.1; Label: Oxidizer, Poison, Corrosive

SAFETY PROFILE: Poisonous and corrosive. Very reactive, a powerful oxidizer. Explosive or violent reaction with organic materials, water, acetone, ammonium halides, antimony, antimony trichloride oxide, arsenic, benzene, boron, bromine, carbon, carbon monoxide, carbon tetrachloride, carbon tetraiodide, chloromethane, cobalt, ether, halogens, iodine, powdered molybdenum, niobium, 2-pentanone, phosphorus, potassium hexachloroplatinate, pyridine, silicon, silicone grease, sulfur, tantalum, tin dichloride, titanium, toluene, vanadium, uranium, uranium hexafluoride. Incompatible with Sb_2O_3 , BaCl_2 , Bi_2O_5 , CdCl_2 , CaCl_2 , CsCl , LiCl , MnIO_3 , metals, Nb_2O_5 , PtBr_4 , PtCl_4 , (Pt + KFO), KBr , KCl , KI , RhBr_4 , RbCl , AgCl , NaBr , NaCl , NaI , Ta_2O_5 , Sn , W , UO_x , rubber, plastics. The product of reaction with pyridine ignites when dry. When heated to decomposition it emits toxic fumes of F^- and Br^- . Very dangerous. See also BROMINE PENTAFLUORIDE, FLUORIDES, and BROMINE.

BMQ500 CAS: 70142-16-4 HR: 3
BROMINE(1) TRIFLUOROMETHANE-SULFONATE

mf: $\text{CBrF}_3\text{O}_3\text{S}$ mw: 228.97

SAFETY PROFILE: A strong oxidizer which may react explosively with readily oxidizable materials. When heated to decomposition it emits toxic fumes of F^- , Br^- , and SO_x . See also SULFONATES.

BMQ750 HR: 3
BROMINE TRIOXIDE

mf: BrO_3 mw: 127.91

SAFETY PROFILE: The solid produced at -5° is only stable at -80° or in the presence of ozone.

Decomposition can be violently explosive in the presence of trace impurities. Upon decomposition it emits toxic fumes of Br^- . See also BROMINE.

BMQ800 CAS: 61288-13-9 HR: 3
BROMKAL 80

CONSENSUS REPORTS: NTP 10th Report on Carcinogens, 2000: Reasonably anticipated to be human carcinogen

SAFETY PROFILE: Confirmed carcinogen.

BMR000 CAS: 17157-48-1 HR: D
BROMOACETALDEHYDE

mf: $\text{C}_2\text{H}_3\text{BrO}$ mw: 122.96

PROP: Bp: 107–112°.**SYNS:** α -BROMOACETALDEHYDE \square 2-BROMOACET-ALDEHYDE \square MONOBROMOACETALDEHYDE**TOXICITY DATA with REFERENCE:**dnr-esc 10 μ L/plate EVHPAZ 21,79,77

dnd-mam:lym 16 nmol CNREA8 41,4391,81

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic fumes of Br⁻. See also ALDEHYDES and BROMIDES.**BMR025 CAS: 683-57-8 HR: 3
2-BROMOACETAMIDE**mf: C₂H₄BrNO mw: 137.98**SYNS:** ACETAMIDE, 2-BROMO- \square BROMOACETAMIDE \square β -BROMOACETAMIDE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/4H SEV WDZAEK 8,171,1994

eye-rbt 100 mg SEV WDZAEK 8,171,1994

orl-rat LD50:100 mg/kg WDZAEK 8,171,1994

skn-rat LD50:3160 mg/kg WDZAEK 8,171,1994

orl-mus LD50:124 mg/kg WDZAEK 8,171,1994

orl-rbt LD50:61 mg/kg WDZAEK 8,171,1994

SAFETY PROFILE: A poison by ingestion. Moderately toxic by skin contact. Experimental reproductive effects. A severe skin and eye irritant. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BMR050 CAS: 621-38-5 HR: 2
3-BROMOACETANILIDE**mf: C₈H₈BrNO mw: 214.08**SYNS:** ACETAMIDE, N-(3-BROMOPHENYL)- \square ACETANILIDE, 3'-BROMO- \square m-BROMOACETANILIDE \square 3'-BROMOACETANILIDE**TOXICITY DATA with REFERENCE:**

ipr-mus LD :>500 mg/kg CBCCT* 6,51,54

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BMR100 CAS: 103-88-8 HR: 3
4-BROMOACETANILIDE**mf: C₈H₈BrNO mw: 214.08**SYNS:** ACETAMIDE, N-(4-BROMOPHENYL)- \square ACETANILIDE, p-BROMO- \square ACETANILIDE, 4'-BROMO- \square ANTISEPSIN \square ASEPSIN \square p-BROMOACETANILIDE \square 4'-BROMOACETANILIDE \square p-BROMO-N-ACETANILIDE \square BROMOANILIDE \square BROMOANTIFEBRIN \square USAF DO-40**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:250 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BMR750 CAS: 79-08-3 HR: 3
 α -BROMOACETIC ACID
DOT: UN 1938**mf: C₂H₃O₂Br mw: 138.04**PROP:** Hygroscopic crystals, sol in water and alc. D: 1.93, mp: 50°, bp: 208°. Sol in H₂O and EtOH.**SYNS:** ACIDE BROMACETIQUE (FRENCH) \square BROMOACETIC ACID \square BROMOACETIC ACID, solid or solution (DOT) \square BROMOETHANOIC ACID \square α -BROMOETHANOIC ACID \square KYSELINA BROMOCTOVA \square MONOBROMESSIGSAEURE (GERMAN) \square MONOBROMOACETIC ACID \square TO NTU**TOXICITY DATA with REFERENCE:**dnd-mus:leu 100 μ mol/L BCPCA6 30,1497,81

orl-mus LD50:100 mg/kg JPETAB 86,336,46

ipr-mus LD50:66 mg/kg JNCIAM 31,297,63

ivn-rbt LDLo:45 mg/kg AEPPAE 160,551,31

ihl-rat LCLo:114 g/m³/30M RPTOAN 41,113,78

ipr-rat LD50:50 mg/kg RPTOAN 41,113,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 8; Label: Corrosive**SAFETY PROFILE:** Poison by ingestion, intraperitoneal, and intravenous routes. Irritating and corrosive to skin and mucous membranes. Mutation data reported. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BMS000 CAS: 62116-25-0 HR: 3
BROMOACETONE OXIME**mf: C₃H₆BrNO mw: 151.98BrCH₂C(CH₃)=NOH**PROP:** Solid. Mp: 36.5°, bp: 83° @ 8 mm.**SYN:** 1-BROMO-2-OXIMINOPROPANE**SAFETY PROFILE:** Decomposes explosively during distillation. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x. See also CHLOROACETONE and BROMIDES.**BMS100 CAS: 590-17-0 HR: D
BROMOACETONITRILE**mf: C₂H₂BrN mw: 119.96**SYNS:** ACETONITRILE, BROMO- \square BROMOMETHYL CYANIDE \square CYANOMETHYL BROMIDE**TOXICITY DATA with REFERENCE:**

mmo-sat 6 mg/L MUREAV 341,289,95

dns-rat-orl 19,350 μ g/kg TOXID9 13,220,93**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BMS250 CAS: 4189-47-3 HR: 2
1-BROMOACETOXY-2-PROPANOL**mf: C₅H₉BrO₃ mw: 197.05**SYN:** NALCON 240**TOXICITY DATA with REFERENCE:**

orl-rat LD50:664 mg/kg PCOC** -,152,66

skn-rbt LD50:813 mg/kg PCOC** -,152,66

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic fumes of Br⁻.**BMS300 CAS: 143-84-0 HR: 3
1-BROMOACETYL- α - α -DIPHENYL-4-PIPERID-
INE METHANOL**

mf: $C_{20}H_{22}BrNO_2$ mw: 388.34

SYNS: KETONE, BROMOMETHYL 4-(DIPHENYLHYDROXY-METHYL)PIPERIDINO □ 4-PIPERIDINE-METHANOL, 1-BROMOACETYL- α - α -DIPHENYL-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:20 mg/kg JPMSAE 55,529,66

unr-mus LD50:600 mg/kg JPMSAE 54,269,65

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x and Br^- .

BMS500

HR: 3

BROMOACETYLENE

mf: C_2HBr mw: 104.9

PROP: Gas. Bp: -2° , vap d: 4.684

SYNS: BROMACETYLENE □ BROMOETHYNE

SAFETY PROFILE: Toxicity is probably similar to dibromoacetylene. A dangerous fire hazard by spontaneous chemical reaction. A spontaneously flammable gas. Highly explosive. May explode or ignite on contact with air. Incompatible with oxidizing materials, even when solid at -196° . When heated to decomposition it burns and emits toxic fumes of Br^- . See also ACETYLENE COMPOUNDS and BROMIDES.

BMS750

CAS: 58682-45-4

HR: D

4'-(3-BROMO-9-ACRIDINYLAMINO)METHANE SULFONANILIDE

mf: $C_{20}H_{16}BrN_3O_2S$ mw: 442.36

TOXICITY DATA with REFERENCE:

mno-sat 25 μ mol/L JMCMA 23,269,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of Br^- , NO_x , and SO_x . See also SULFONATES.

BMT000

CAS: 14925-39-4

HR: 2

2-BROMOACROLEIN

mf: C_3H_3BrO mw: 134.96

PROP: Bp: $46-48^\circ$ @ 28 mm.

SYN: 2-BROMOPROPENALDEHYDE

TOXICITY DATA with REFERENCE:

mno-sat 1 nmol/plate MUREAV 78,113,80

mno-sat 1 nmol/plate MUREAV 78,113,80

dnd-rat:oth 1 μ mol/L CRNGDP 6,705,85

otr-ham:emb 500 nmol/L CRNGDP 6,705,85

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. See also ALDEHYDES and BROMIDES. When heated to decomposition it emits toxic fumes of Br^- .

BMT100

CAS: 73599-95-8

HR: 3

1-BROMO-3-ADAMANTYL ETHOXYMETHYL KETONE

mf: $C_{14}H_{22}BrO_2$ mw: 302.27

SYN: ETHANONE, 1-(1-BROMO-3-ADAMANTYL)-2-ETHOXY-

TOXICITY DATA with REFERENCE:

unr-mus LD50:740 mg/kg RPTOAN 43,73,80

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by unspecified route. A flammable liquid. When heated to decomposition it emits toxic vapors of Br^- .

BMT130

CAS: 73599-91-4

HR: 3

1-BROMO-3-ADAMANTYL HYDROXYMETHYL KETONE

mf: $C_{12}H_{17}BrO_2$ mw: 273.20

SYN: ETHANONE, 1-(1-BROMO-3-ADAMANTYL)-2-HYDROXY-

TOXICITY DATA with REFERENCE:

unr-mus LD50:700 mg/kg RPTOAN 43,73,80

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by an unspecified route. A flammable liquid. When heated to decomposition it emits toxic vapors of Br^- .

BMT150

CAS: 101652-13-5

HR: 3

3-BROMOALLYL ISOCYANATE

DOT: UN 2206/UN 2207/UN 2478/UN 3080

mf: C_4H_4BrNO mw: 162.00

SYN: ISOCYANIC ACID, 3-BROMOALLYL ESTER

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#09998

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD (UN2207); 6.1; Label: Poison (UN2206); 6.1; Label: Poison, Flammable Liquid (UN3080); 3; Label: Flammable Liquid, Poison (UN2478)

SAFETY PROFILE: A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x and Br^- .

BMT250

CAS: 14519-10-9

HR: 3

BROMOAMINE

mf: BrH_2N mw: 95.93

PROP: Violet-black solid. Sol in Et_2O , insol in pentane.

SYN: BROMAMIDE

SAFETY PROFILE: Decomposes violently @ -70° . Upon decomposition it emits toxic fumes of Br^- and NO_x . See also BROMIDES and AMINES.

BMT300

CAS: 16034-99-4

HR: 2

3'-BROMO-trans-ANETHOLE

mf: $C_{10}H_{11}BrO$ mw: 227.12

SYNS: ANISOLE, p-(3-BROMOPROPENYL)-, (E)- □ (E)-p-(3-BROMOPROPENYL)ANISOLE

TOXICITY DATA with REFERENCE:

mno-sat 2 μ mol/plate CRNGDP 7,208,86

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Br^- .

BMT325

CAS: 106-40-1

HR: 3

4-BROMOANILINE

mf: C_6H_6BrN mw: 172.04

PROP: Rhombic crystals from dil alc. Mp: $66-66.5^\circ$, d: 1.4970 (liq). Very sol in alc and ether; insol in cold water.

SYNS: 4-BROMANILINU (CZECH) □ p-BROMOANILINE □ 4-BROMO-BENZENAMINE (9CI) □ p-BROMOPHENYLAMINE

TOXICITY DATA with REFERENCE:

dns-rat:lv_r 50 µmol/L ENMUDM 3,11,81
 orl-rat LD50:456 mg/kg CEHYAN 23,168,78
 orl-mus LD50:289 mg/kg GISAAA 44(12),19,79
 ipr-mus LD50:248 mg/kg GISAAA 44(12),19,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program. 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 Br⁻ and NO_x. See also ANILINE DYES.

BMT400 CAS: 578-57-4 HR: 2
2-BROMOANISOLE

mf: C₇H₇BrO mw: 187.05

SYNS: ANISOLE, o-BROMO- □ ANISYL BROMIDE □ BENZENE, 1-BROMO-2-METHOXY-(9CI) □ o-BROMOANISOLE □ 1-BROMO-2-METHOXYBENZENE □ o-BROMOPHENYL METHYL ETHER □ o-METHOXYBROMOBENZENE □ 2-METHOXYBROMO BENZENE □ o-METHOXYPHENYL BROMIDE □ 2-METHOXY PHENYL BROMIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:2466 mg/kg GISAAA 44(12),19,79
 ipr-mus LD50:1544 mg/kg GISAAA 44(12),19,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BMT500 CAS: 19816-89-8 HR: 3
1-BROMOAZIRIDINE

mf: C₂H₄BrN mw: 121.96

SAFETY PROFILE: An unstable material which may spontaneously explode. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x. See other aziridine compounds.

BMT700 CAS: 1122-91-4 HR: 3
4-BROMOBENZALDEHYDE

mf: C₇H₅BrO mw: 185.03

SYNS: BENZALDEHYDE, p-BROMO- □ BENZALDEHYDE, 4-BROMO-(9CI) □ p-BROMOBENZALDEHYDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1230 mg/kg GISAAA 44(12),19,79
 ipr-mus LD50:389 mg/kg GISAAA 44(12),19,79

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 Br⁻.

BMT750 CAS: 32795-84-9 HR: 2
10-BROMO-1,2-BENZANTHRACENE

mf: C₁₈H₁₁Br mw: 307.20

SYN: 10-BROM-1,2-BENZANTHRACEN (GERMAN)

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of Br⁻.

BMU000 CAS: 81-96-9 HR: 3

3-BROMOBENZ(d,e)ANTHRONE

mf: C₁₇H₉BrO mw: 309.17

SYNS: 3-BROMBENZANTHRONE □ 3-BROMO-7H-BENZ(DE)ANTHRACEN-7-ONE □ 7-BROMOMESOBENZANTHRONE

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,89,72
 ipr-rat LD50:2400 mg/kg RPTOAN 40,137,77
 ipr-mus LD50:300 mg/kg RPTOAN 40,137,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. An eye irritant. When heated to decomposition it emits toxic fumes of Br⁻.

BMT800 CAS: 88-65-3 HR: 2
2-BROMOBENZOIC ACID

mf: C₇H₅BrO₂ mw: 201.03

SYNS: BENZOIC ACID, 2-BROMO- □ BENZOIC ACID, o-BROMO- □ o-BROMOBENZOIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD: >500 mg/kg NCNSA6 5,7,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BMU100 CAS: 586-76-5 HR: 2
4-BROMOBENZOIC ACID

mf: C₇H₅BrO₂ mw: 201.03

SYNS: BENZOIC ACID, p-BROMO- □ BENZOIC ACID, 4-BROMO-(9CI) □ p-BROMOBENZOIC ACID □ p-CARBOXYBROMOBENZENE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1059 mg/kg GISAAA 44(12),19,79
 ipr-mus LD50:536 mg/kg GISAAA 44(12),19,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BMU150 CAS: 25938-97-0 HR: 2
p-BROMOBENZOIC ACID 2-PHENYLHYDRAZIDE

mf: C₁₃H₁₁BrN₂O mw: 291.17

SYN: BENZOIC ACID, p-BROMO-, 2-PHENYLHYDRAZIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:600 mg/kg PCJOAU 14,162,1980

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

BMU170 CAS: 90-90-4 HR: 3
4-BROMOBENZOPHENONE

mf: C₁₃H₉BrO mw: 261.13

SYNS: p-BENZOYLBROMOBENZENE □ BENZOPHENONE, 4-BROMO- □ p-BROMOBENZOPHENONE □ 4-BROMOPHENYL PHENYL KETONE □ METHANONE, (4-BROMOPHENYL-)PHENYL-(9CI) □ USAF DO-3

TOXICITY DATA with REFERENCE:

ipr-mus LD50:100 mg/kg NTIS** AD277-689
ivn-mus LD50:100 mg/kg CSLNX* NX#00450

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic vapors of Br⁻.

BMU500 CAS: 21248-00-0 HR: 2
6-BROMOBENZO(a)PYRENE

mf: C₂₀H₁₁Br mw: 331.22

PROP: Crystals from Me₂CO/MeOH. Mp: 223–224°.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of HBr. See also BROMIDES.

BMU750 CAS: 14733-73-4 HR: 3
5-BROMO-2-BENZOXAZOLINONE

mf: C₇H₄BrNO₂ mw: 214.03

TOXICITY DATA with REFERENCE:

orl-rat LD50:1050 mg/kg MDCHAG 4(1),308,64

orl-mus LD50:1440 mg/kg MDCHAG 4(1),308,64

ipr-mus LD50:262 mg/kg MDCHAG 4(1),308,64

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

BMV000 CAS: 19932-85-5 HR: 2
6-BROMO-2-BENZOXAZOLINONE

mf: C₇H₄BrNO₂ mw: 214.03

TOXICITY DATA with REFERENCE:

orl-rat LD50:1000 mg/kg MDCHAG 4(1),308,64

orl-mus LD50:935 mg/kg MDCHAG 4(1),308,64

ipr-mus LD50:445 mg/kg MDCHAG 4(1),308,64

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

BMV250 CAS: 14917-59-0 HR: 3
p-BROMOBENZOYL AZIDE

mf: C₇H₄BrN₃O mw: 229.04

BrC₆H₄CO•N₃

PROP: Mp: 46°.

SAFETY PROFILE: Explodes when heated above its melting point. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x. See also AZIDES.

BMV750 CAS: 61-75-6 HR: 3
(o-BROMOBENZYL)ETHYLDIMETHYL

AMMONIUM-p-TOLUENESULFONATE

mf: C₁₁H₁₇BrN•C₇H₇O₃S mw: 414.40

PROP: Solid. Mp: 97–99°. Insol in Et₂O, sol in H₂O and EtOH.

SYNS: ASL-603 □ BRETYLAN □ BRETYLATE □ BRETYLIUM-p-TOLUENESULFONATE □ BRETYLIUM TOSYLATE □ BRETYLOL □ 2-BROMO-N-ETHYL-N,N-DIMETHYLBENZENEME THAN AMINIUM 4-METHYLBENZENESULFONATE □ DAREN THIN □ N-ETHYL-N-o-BROMOBENZYL-N,N-DIMETHYL AMMONIUM TOSYLATE □ ORNID

TOXICITY DATA with REFERENCE:

ipr-rat LD50:57 mg/kg PHMGBN 21,256,80

ivn-rat LD50:17 mg/kg PBPSDY 2,148,79
ims-rat LD50:250 mg/kg TXAPA9 18,185,71
orl-mus LD50:400 mg/kg BJPCAL 14,536,59
ipr-mus LD50:39 mg/kg AIPTAK 155,69,65
scu-mus LD50:72 mg/kg BJPCAL 14,536,59
ivn-mus LD50:20 mg/kg BJPCAL 14,536,59

SAFETY PROFILE: A poison by ingestion, intraperitoneal, subcutaneous, intravenous, and intramuscular routes. An anti-adrenergic agent and antiarrhythmic cardiac depressant. When heated to decomposition it emits very toxic fumes of SO_x, NH₃, NO_x, and Br⁻. See also SULFONATES.

BMW000 CAS: 33855-47-9 HR: 3
N-p-BROMOBENZYL-N'-ETHYL-N'-METHYL-N-2-PYRIDYLETHYLENEDIAMINE MALEATE

mf: C₁₇H₂₂BrN₃•C₄H₄O₄ mw: 464.41

SYNS: N-p-BROMBENZYL-N-α-PYRIDYL-N'-METHYL-N'-AETHYL-AETHYLENEDIAMIN-MALEINAT (GERMAN) □ WV 761

TOXICITY DATA with REFERENCE:

orl-mus LD50:620 mg/kg ARZNAD 14,940,64

scu-mus LD50:119 mg/kg ARZNAD 14,940,64

ivn-mus LD50:16,700 µg/kg ARZNAD 14,940,64

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

BMW250 CAS: 5798-79-8 HR: 3
BROMOBENZYLNITRILE

mf: C₈H₆BrN mw: 196.06

PROP: Pure: Yellowish-white crystals. Tech: brown, oily liquid with pungent odor of sour fruit; mp: 29°, bp: 242°, fp: 25.5°, flash p: none, d: 1.5160 @ 20°, vap d: 6.8, vap press: 0.011 mm @ 20°.

SYNS: BBC □ BBN □ BROMBENZYL CYANIDE □ α-BROMOBENZYL CYANIDE □ α-BROMOBENZYLNITRILE □ α-BROMOPHENYLACETONITRILE □ α-BROMO-α-TOLUNITRILE □ CA □ CAMITE

TOXICITY DATA with REFERENCE:

ihl-hmn LC50:3500 mg/m³ SCJUAD 4,33,67

orl-rat LDLo:100 mg/kg NCNSA6 5,32,53

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by ingestion. Moderately toxic to humans by inhalation. When heated to decomposition it emits very toxic fumes of NO_x, Br⁻, and CN⁻. See also NITRILES.

BMW290 CAS: 2113-57-7 HR: 2
3-BROMOBIPHENYL

mf: C₁₂H₉Br mw: 233.12

SYN: BIPHENYL, 3-BROMO-

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:500 mg/kg CBCCT* 6,217,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**BMW300 CAS: 92-66-0 HR: D
4-BROMOBIPHENYL**mf: C₁₂H₉Br mw: 233.12**TOXICITY DATA with REFERENCE:**

mma-sat 50 µg/plate BCPA6 27,1245,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of Br⁻.**BMX000 CAS: 60883-74-1 HR: 2
α-BROMO-β,β-BIS(pETHOXYPHENYL)STYRENE**mf: C₂₄H₂₃BrO₂ mw: 423.38**SYN:** α,α-DI(p-ETHOXYPHENYL)-β-BROMO-β-PHENYLETHYLENE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Br⁻.**BMX250 CAS: 34346-98-0 HR: 2
4-BROMO-7-BROMOMETHYLBENZ(a)-ANTHRACENE**mf: C₁₉H₁₂Br₂ mw: 400.13**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BMX300 CAS: 35950-55-1 HR: D
2-BROMO-S-(2-BROMO-5-NITROETHENYL)-FURAN**mf: C₆H₃Br₂NO₃ mw: 296.92**SYNS:** 1-(5-BROMOFUR-2-IL)-2-BROMO-2-NITROETHENE □ FURAN, 2-BROMO-S-(2-BROMO-5-NITROETHENYL)-**TOXICITY DATA with REFERENCE:**

mic-sat 800 ng/plate MUREAV 390,233,1997

mnt-ipr-mus 20 mg/kg MUREAV 390,233,1997

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BMX500 CAS: 109-65-9 HR: 3
1-BROMOBUTANE****DOT:** UN 1126mf: C₄H₉Br mw: 137.04**PROP:** Colorless to pale straw-colored liquid. Mp: -112.3°, bp: 101.6°, flash p: 65°F (OC), d: 1.276 @ 20°/8°, autoign temp: 509°F, vap d: 4.72, lel: 2.8% @ 212°F, uel: 6.6% @ 212°F.**SYNS:** BUTYL BROMIDE (DOT) □ n-BUTYL BROMIDE (DOT)**TOXICITY DATA with REFERENCE:**ihl-mam LC50:25,800 mg/m³ GTPZAB 18(4),55,74ihl-rat LC50:237,000 mg/m³/30M FAVUAI 7,35,75

ipr-rat LD50:4450 mg/kg JPCEAO 320(1),133,78

ipr-mus LD50:6680 mg/kg JPCEAO 320(1),133,78

ipr-mam LD50:1424 mg/kg GTPZAB 18(4),55,74

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Mildly toxic by inhalation.Dangerous fire hazard when exposed to heat, flame, or oxidizers. Violent reaction with bromobenzene + sodium above 30°C. Can react with oxidizing materials. To fight fire, use CO₂, dry chemical, mist or spray. See also BROMIDES.**BMX750 CAS: 78-76-2 HR: 2
2-BROMOBUTANE****DOT:** UN 2339mf: C₄H₉Br mw: 137.04**PROP:** Colorless liquid. Fp: <-50°, bp: 91.4°, flash p: 70°F, d: 1.257 @ 25°/25°.**SYNS:** sec-BUTYL BROMIDE □ METHYLETHYLBROMOMETHANE**CONSENSUS REPORTS:** EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Narcotic in high concentrations. Questionable carcinogen with experimental neoplastigenic data. See also BROMIDES and CHLORINATED HYDROCARBONS, ALIPHATIC. Flammable liquid. Dangerous fire hazard when exposed to heat or flame. When heated to decomposition it emits toxic fumes of Br⁻; can react with oxidizing materials. To fight fire, use water, spray or mist, foam, CO₂, dry chemical.**BMX825 CAS: 5162-44-7 HR: 3
4-BROMO-1-BUTENE**mf: C₄H₇Br mw: 135.00H₂C=CHCH₂CH₂Br**PROP:** Liquid. D: 1.32 @ 20°/4°, bp: 98.5°.**SAFETY PROFILE:** A dangerous fire hazard (flash point <1°C). Violent reaction with chloromethylphenylsilane + chloroplatinic acid. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BMX250 CAS: 80-58-0 HR: 3
2-BROMOBUTYRIC ACID**mf: C₄H₇BrO₂ mw: 167.02**PROP:** Colorless, oily liquid; sol in alc and ether; sparingly sol in water. D: 1.54, bp: 181° @ 250 mm, mp: -4°.**SYN:** α-BROMOBUTYRIC ACID**TOXICITY DATA with REFERENCE:**

orl-mus LD50:310 mg/kg JPETAB 86,336,46

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion. Dangerous; when heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BMX500 CAS: 5332-06-9 HR: 3
4-BROMOBUTYRONITRILE**mf: C₄H₆BrN mw: 148.02**SYN:** USAF DO-6**TOXICITY DATA with REFERENCE:**

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

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

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x , CN^- , and Br^- . See also BROMIDES and NITRILES.

BM800 CAS: 83463-62-1 HR: 2
BROMOCHLOROACETONITRILE

mf: C_2HBrClN mw: 154.40

PROP: Bp: 138–140°.

SYN: BROMOCHLOROMETHYL CYANIDE

TOXICITY DATA with REFERENCE:

mmo-sat 1 nmol/plate ENMUDM 5,447,83

mma-sat 170 nmol/plate FAATDF 5,1065,85

dnd-hmn:lyms 2 $\mu\text{mol/L}$ NTIS** PB84-246230

sce-ham:ovr 4200 nmol/L FAATDF 5,1065,85

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 52,269,91; Animal Inadequate Evidence IMEMDT 52,269,91; Human No Available Data IMEMDT 52,269,91.

SAFETY PROFILE: Experimental reproductive data. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Br^- , Cl^- , and NO_x .

BM825 CAS: 25604-70-0 HR: 3
BROMOCHLOROACETYLENE

mf: C_2BrCl mw: 139.38

SAFETY PROFILE: An unstable high explosive. When heated to decomposition it emits toxic fumes of Cl^- and Br^- . See also ACETYLENE COMPOUNDS, BROMIDES, and CHLORIDES.

BM2000 CAS: 5579-85-1 HR: 2
6-BROMO-5-CHLORO-2-BENZOXAZOLINONE

mf: $\text{C}_7\text{H}_3\text{BrClNO}_2$ mw: 248.47

PROP: Solid. Mp: 204–205°.

SYNS: BROMCHLORENONE □ 6-BROMO-5-CHLORO BENZOXAZOLONE □ NSC-24970

TOXICITY DATA with REFERENCE:

orl-rat LD50:500 mg/kg MDCHAG 4(1),308,64

orl-mus LD50:871 mg/kg MDCHAG 4(1),308,64

skn-rbt LD50:3160 mg/kg HAZL** -,62

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits very toxic fumes of Cl^- , Br^- , and NO_x .

BNA000 CAS: 758-24-7 HR: 2
2-BROMO-2-CHLORO-1,1-DIFLUOROETHYLENE

mf: C_2BrClF_2 mw: 177.38

PROP: Liquid. Bp: 38° @ 625 mm.

SYNS: 1-BROMO-1-CHLORO-2,2-DIFLUOROETHENE □ 1-BROMO-1-CHLORO-2,2-DIFLUOROETHYLENE

TOXICITY DATA with REFERENCE:

mma-sat 15 mmol/L ANESAV 51,424,79

oms-bcs 133 mol/L MUREAV 54,17,78

ihl-mus LC50:250 ppm/1H BJANAD 37,716,65

SAFETY PROFILE: Moderately toxic by inhalation. Mutation data reported. When heated to decomposition it emits very toxic fumes of Br^- , Cl^- , and F^- . See also CHLORINATED HYDROCARBONS, ALIPHATIC.

BNA250 CAS: 353-59-3 HR: 1
BROMOCHLORODIFLUOROMETHANE

DOT: UN 1974

mf: CBrClF_2 mw: 165.37

PROP: Colorless gas. Fp: –160.5°, bp: –4°.

SYNS: CHLORODIFLUOROBROMOMETHANE (DOT) □ CHLORODIFLUOROMONOBROMOMETHANE □ FLUGEX 12B1 □ FLUOROCARBON 1211 □ FREON 12B1 □ HALON 1211 □ R12B1 (DOT)

TOXICITY DATA with REFERENCE:

mmo-sat 10 pph MUREAV 142,187,85

mma-sat 5 pph MUREAV 142,187,85

ihl-rat LCLo:32 pph/15M FLCRAP 1,197,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 2.2; Label: Nonflammable Gas

SAFETY PROFILE: Mutation data reported. An asphyxiant. See also ARGON for description of inert gas asphyxiants. When heated to decomposition it emits very toxic fumes of Br^- , Cl^- , and F^- .

BNA300 CAS: 16079-88-2 HR: 2
1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN

mf: $\text{C}_5\text{H}_6\text{BrClN}_2\text{O}_2$ mw: 241.49

SYNS: AGRIBROM □ HALOGENE T 30 □ N-BROMO-N'-CHLORO-5,5-DIMETHYLHYDANTOIN □ 1-BROMO-3-CHLORO-5,5-DIMETHYL-2,4-IMIDAZOLIDINEDIONE □ HYDANTOIN, 1-BROMO-3-CHLORO-5,5-DIMETHYL- □ 2,4-IMIDAZOLIDINE DIONE, 1-BROMO-3-CHLORO-5,5-DIMETHYL- □ SLIMICIDE C 77P □ SLIMICIDE 78P

CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.

orl-rat LD50:1390 mg/kg FMCHA2-,C10,1991

skn-rbt LD50:>2 g/kg FMCHA2-,C10,1991

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BNA325 CAS: 126-06-7 HR: 2
3-BROMO-1-CHLORO-5,5-DIMETHYL HYDANTOIN

mf: $\text{C}_5\text{H}_6\text{BrClN}_2\text{O}_2$ mw: 241.49

SYN: 3-BROMO-1-CHLORO-5,5-DIMETHYL-2,4-IMIDAZOLIDINEDIONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV EPASR* 8EHQ-0181-0382

eye-rbt 100 mg/30S SEV EPASR* 8EHQ-0181-0382

orl-rat LD50:600 mg/kg EPASR* 8EHQ-0181-0382

orl-mus LD50:680 mg/kg EPASR* 8EHQ-0181-0382

skn-rbt LDLo:2 g/kg EPASR* 83HQ-0281-0382

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by skin contact and ingestion. A severe eye and skin irritant. When heated to decomposition it emits toxic fumes of Cl^- , Br^- , and NO_x .

BNA350 CAS: 122322-22-9 HR: 3
2-(3-BROMO-4-CHLOROPHENYL)-4-CHLORO-5-((6-CHLORO-3-PYRIDINYL)METHOXY)-3(2H)-PYRIDAZINONE

mf: $C_{16}H_9BrCl_3N_3O_2$ mw: 461.54

SYN: 3(2H)-PYRIDAZINONE, 2-(3-BROMO-4-CHLORO-PHENYL)-4-CHLORO-5-((6-CHLORO-3-PYRIDINYL)METHOXY)-

TOXICITY DATA with REFERENCE:

orl-mus LD >300 mg/kg USXXAM #4910201

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

BNA500 CAS: 796-13-4 HR: D
1-BROMO-1-(p-CHLOROPHENYL)-2,2-DIPHENYL ETHYLENE

mf: $C_{20}H_{14}BrCl$ mw: 369.70

SYN: ETHYLENE, 1-BROMO-1-(p-CHLOROPHENYL)-2,2-DIPHENYL-

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Br^- and Cl^- .

BNA600 CAS: 122453-73-0 HR: 3
4-BROMO-2-(4-CHLOROPHENYL)-1-ETHOXY METHYL-5-TRIFLUOROMETHYL PYRROLE-3-CARBONITRILE

mf: $C_{15}H_{11}BrClF_3N_2O$ mw: 407.62

SYNS: CHLORFENAPYR □ 1H-PYRROLE-3-CARBONITRILE, 4-BROMO-2-(4-CHLOROPHENYL)-1-(ETHOXYMETHYL)-5-(TRIFLUOROMETHYL)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:441 mg/kg HBPTO* 2,1229,2001

orl-mus LD50:55 mg/kg HBPTO* 2,1229,2001

orl-qal LD50:34 mg/kg HBPTO* 2,1229,2001

orl-dck LD50:10 mg/kg HBPTO* 2,1229,2001

ihl-rat LC50:1900 mg/ m^3 HBPTO* 2,1229,2001

SAFETY PROFILE: A poison by ingestion. Moderately toxic by inhalation. Questionable carcinogen with experimental data reported. When heated to decomposition it emits toxic vapors of NO_x , F^- , and Cl^- .

BNA750 CAS: 41198-08-7 HR: 3
O-(4-BROMO-2-CHLOROPHENYL)-O-ETHYL-S-PROPYL PHOSPHOROTHIOATE

mf: $C_{11}H_{15}BrClO_3PS$ mw: 373.65

SYNS: CGA 15324 □ CURACRON □ POLYCRON □ PROFENOFOS □ SELECRON

TOXICITY DATA with REFERENCE:

orl-rat LD50:400 mg/kg SPEADM 78-1,35,78

skn-rat LD50:300 mg/kg CIGET* -,77

orl-mus LD50:162 mg/kg TXAPA9 73,16,84

orl-mus LD50:298 mg/kg CIGET* -,77

orl-rbt LD50:700 mg/kg CIGET* -,77

skn-rbt LD50:192 mg/kg FMCHA2 -,C65,83

orl-ckn LD50:1900 μ g/kg TXAPA9 73,16,84

skn-rbt LD50:472 mg/kg CIGET* -,77

SAFETY PROFILE: Poison by ingestion and skin contact. When heated to decomposition it emits very toxic SO_x , PO_x , Br^- , and Cl^- . See also ESTERS.

BNA825 CAS: 109-70-6 HR: 2

1-BROMO-3-CHLOROPROPANE

DOT: UN 2688

mf: C_3H_6BrCl mw: 157.45

PROP: Bp: 142–143°.

SYNS: 3-BROMOPROPYL CHLORIDE □ 1,3-CHBP □ ω -CHLOROBROMOPROPANE □ 1-CHLORO-3-BROMOPROPANE (DOT) □ 3-CHLOROPROPYL BROMIDE □ TRIMETHYLENE BROMIDE CHLORIDE □ TRIMETHYLENE CHLOROBROMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:930 mg/kg TPKVAL 12,93,71

ihl-rat LC50:5668 mg/ m^3 GTPZAB 19(9),36,75

orl-mus LD50:1290 mg/kg 85GMAT -,35,82

ihl-mus LCLo:7270 mg/ m^3 /2H 85GMAT -,35,82

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 fumes of Cl^- and Br^- . See also CHLORINATED HYDROCARBONS, ALIPHATIC; and BROMIDES.

BNA880 CAS: 3737-00-6 HR: 3
3-BROMO-1-CHLOROPROPENE

mf: C_3H_4BrCl mw: 155.42

SYN: 1-PROPENE, 3-BROMO-1-CHLORO-

TOXICITY DATA with REFERENCE:

ihl-hmn TCLo:0.875 mg/ m^3 /2M:PUL VCVGH*-,663,1990

orl-mus LD50:100 mg/kg VCVGH*-,663,1990

orl-rat LD50:78.8 mg/kg VCVGH*-,663,1990

ihl-rbt LC50:2300 mg/ m^3 /4H VCVGH*-,663,1990

SAFETY PROFILE: A poison by ingestion. Low toxicity by inhalation. Human systemic effects. When heated to decomposition it emits toxic vapors of Br^- and Cl^- .

BNA900 CAS: 34462-96-9 HR: 2
7-BROMO-5-CHLOROQUINOLIN-8-YL ACRYLATE

mf: $C_{12}H_7BrClNO_2$ mw: 312.56

SYNS: 8-ACRYLOYLOXY-7-BROMO-5-CHLOROQUINOLINE □ CGA 30599 □ HALACRINATE □ 2-PROPENOIC ACID, 7-BROMO-5-CHLORO-8-QUINOLINYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50: >10 g/kg 85JFAN A224,84

skn-rat LD50: >3170 mg/kg 85JFAN A224,84

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

BNA920 CAS: 116255-48-2 HR: 3
BROMOCONAZOLE

mf: $C_{13}H_{12}BrCl_2N_3O$ mw: 377.09

SYNS: BROMUONAZOLE □ 1-((2RS,4RS,2RS,4SR)-4-BROMO-2-(2,4-DICHLOROPHENYL)TETRAHYDROFURFURYL)-1 H-1,2,4-TRIAZOLE □ 1-((4-BROMO-2-(2,4-DICHLOROPHENYL)TETRAHYDRO-2-FURANYL)METHYL)-1H-1,2,4-TRIAZOLE □ 1H-1,2,4-TRIAZOLE, 1-((4-BROMO-2-(2,4-DICHLOROPHENYL)TETRAHYDRO-2-FURANYL)METHYL)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:365 mg/kg PEMNDP 9,1140,91

skn-rat LD50:>2 g/kg PEMNDP 9,1140,91
 orl-mus LD50:1151 mg/kg PEMNDP 9,1140,91
 ihl-rbt LC50:>5 g/m³ PEMNDP 9,1140,91
 orl-qal LD50:>2150 mg/kg PEMNDP 9,1140,91
 orl-dck LD50:>2150 mg/kg PEMNDP 9,1140,91

SAFETY PROFILE: A poison by ingestion. Moderately toxic by skin contact. When heated to decomposition it emits toxic vapors of NO_x, Br⁻, and Cl⁻.

BNA940 CAS: 76-60-8 HR: 2
BROMOCRESOL GREEN

mf: C₂₁H₁₄Br₄O₅S mw: 698.05

SYNS: BCG □ 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 □ TETRABROMO-m-CRESOLPHTHALEIN SULFONE □ 3',3'',5',5''-TETRABROMO-m-CRESOLSULFONE PHTHALEIN

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. When heated to decomposition it emits toxic vapors of SO_x and Br⁻.

BNB250 CAS: 25614-03-3 HR: 2
BROMOCRIPTINE

mf: C₃₂H₄₀BrN₅O₅ mw: 654.68

PROP: Crystals. Mp: 215–218° (decomp).

SYNS: BROMOCRIPTIN □ α-BROMOERGOCRIPTINE □ BROMOERGOCRYPTINE □ 2-BROMOERGOCRYPTINE □ 2-BROMO-α-ERGOKRYPTIN □ 2-BROMO-12'-HYDROXY-2'-(1-METHYLETHYL)-5'-α-(2-METHYLPROPYL)ERGOTAMIN-3',6',18-TRIONE □ CB-154

TOXICITY DATA with REFERENCE:

oms-hmn:lym 100 μmol/L MUREAV 117,163,83
 dna-rat-ipr 4 mg/kg CNREA8 36,2223,76
 orl-rat TDLo:7 g/kg/2Y-C:ETA,REP BMJOAE 2,1605,77
 orl-wmn TDLo:6 mg/kg/60D-I:NOSE NEJMAJG 306,178,82

ivn-rat LD50:72 mg/kg DRUGAY 17,313,78

ivn-rbt LD50:12 mg/kg USXXAM #3752814

unr-mus LD50:200 mg/kg BBIADT 43,1305,84

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intravenous and possibly other routes. Human teratogenic effects by an unspecified route: developmental abnormalities of the respiratory system, musculoskeletal system, urogenital system, craniofacial area and body wall. Human systemic effects by ingestion including: olfaction changes. An experimental teratogen. Other experimental reproductive effects. Human mutation data reported. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes such as Br⁻ and NO_x.

BNB325 CAS: 22260-51-1 HR: 3
BROMOCRIPTINE MESILATE

mf: C₃₂H₄₀BrN₅O₅•CH₄O₃S mw: 714.43

PROP: Crystals from 2-butanone. Mp: 192–196° (decomp).

SYNS: 2-BROMO-α-ERGOCRYPTINE METHANESULFONATE

□ 2-BROMO-α-ERGOKRYPTINE-MESILATE (GERMAN) □ CB-154 □ PARLODEL

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:650 μg/kg/9D-I:BAH,CVS AIMEAS 118,199,93

orl-cld TDLo:375 μg/kg JOPDAB 105,838,84

orl-wmn TDLo:1 mg/kg/20D-I:BAH AJPSAO 143,935,85

orl-man TDLo:52 mg/kg/35W-I:CNS NEURAI 35,1193,85

ivn-rat LD50:10,500 μg/kg YKYUA6 29,1231,78

orl-mus LD50:2502 mg/kg YKYUA6 30,809,79

ivn-mus LD50:189 mg/kg YKYUA6 30,809,79

ivn-rbt LD50:8200 μg/kg IYKEDH 10,232,79

SAFETY PROFILE: Poison by intravenous route.

Moderately toxic by ingestion. Human systemic effects by ingestion: cardiomyopathy. cerebral spinal fluid changes, distorted perceptions, hallucinations, headache, toxic psychosis. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of Br⁻, SO_x, and NO_x.

BNB750 HR: 3
1-BROMO-12-CYCLOTRIDECADIEN-4,8,10-TRIENE

mf: C₁₃H₉Br mw: 245.12

SAFETY PROFILE: Explodes @ 65° and decomposes @ 0° in the dark.

BNB800 CAS: 112-29-8 HR: 2
1-BROMODECANE

mf: C₁₀H₂₁Br mw: 221.22

SYNS: DECANE, 1-BROMO- □ DECYL BROMIDE □ n-DECYL BROMIDE □ 1-DECYL BROMIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:4070 mg/kg GTPZAB 20(12),52,76

ihl-uns LC50:4200 mg/m³ GTPZAB 18(4),55,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by inhalation route. Mildly toxic by intraperitoneal routes. When heated to decomposition it emits toxic vapors of Br⁻.

BNC750 CAS: 59-14-3 HR: 2
5-BROMO-2'-DEOXYURIDINE

mf: C₉H₁₁BrN₂O₅ mw: 307.13

PROP: Solid. Mp: 187–189°.

SYNS: BDU □ 5-BDU □ BROMODEOXYURIDINE □ 5-BROMODEOXYURIDINE □ 5-BROMO-2-DEOXYURIDINE □ 5-BROMODESOXYURIDINE □ BROMOURACIL DEOXY-RIBOSIDE □ 5-BROMOURACIL DEOXYRIBOSIDE □ 5-BROMOURACIL-2-DEOXYRIBOSIDE □ BROXURIDINE □ BRUDR □ BUDR □ 5-BUDR

TOXICITY DATA with REFERENCE:

mnt-hmn:fbr 82 μmol/L MUREAV 4,353,67

cyt-hmn:leu 200 mg/L ECREAL 34,182,64

msc-hmn:fbr 15 mg/L CSHSAZ 29,151,65

orl-rat LD50:8400 mg/kg IYKEDH 4,467,73

ipr-rat LD50:1500 mg/kg ADTEAS 3,181,68

scu-rat LD50:3900 mg/kg TAKHAA 30,530,71

ivn-rat LD50:2320 mg/kg TAKHAA 30,735,71
 orl-mus LD50:9100 mg/kg TAKHAA 30,530,71
 ipr-mus LD50:3050 mg/kg TAKHAA 30,530,71
 scu-mus LD50:3500 mg/kg TAKHAA 30,530,71
 ivn-mus LD50:2500 mg/kg TAKHAA 30,530,71

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

SAFETY PROFILE: Moderately toxic by subcutaneous, intravenous, intraperitoneal, and possibly other routes. Mildly toxic by ingestion. Experimental teratogenic and reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of Br⁻ and NO_x.

BNC800 CAS: 27312-17-0 HR: 1
2-BROMO-1,5-DIAMINO-4,8-DIHYDROXY
ANTHRAQUINONE

mf: C₁₄H₉BrN₂O₄ mw: 349.16

SYNS: ANTHRAQUINONE, 2-BROMO-1,5-DIAMINO-4,8-DIHYDROXY- □ MODR OSTACETOVA LR

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 28ZPAK -,245,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BND250 CAS: 65235-63-4 HR: 1
2-BROMO-1,8-DIAMINO-4,5-DIHYDROXY
ANTHRAQUINONE

mf: C₁₄H₉BrN₂O₄ mw: 349.16

SYN: MODR OSTACETOVA LG (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,244,72

eye-rbt 500 mg/24H MLD 28ZPAK -,244,72

orl-rat LD50:12,500 mg/kg 28ZPAK -,244,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits very toxic fumes of Br⁻ and NO_x.

BND325 CAS: 23834-96-0 HR: 3
BROMODIBORANE

mf: B₂BrH₅ mw: 106.56

PROP: Gas.

SAFETY PROFILE: May ignite violently on exposure to air. When heated to decomposition it emits toxic fumes of Br⁻. See also BORANES and BORON COMPOUNDS.

BND500 CAS: 75-27-4 HR: 3
BROMODICHLOROMETHANE

mf: CHBrCl₂ mw: 163.83

PROP: Colorless liquid. Mp: -57.1°, bp: 88.4-88.6°, d: 1.971 @ 25°/25°.

SYNS: BDCM □ DICHLOROBROMOMETHANE □ NCI-C55243

TOXICITY DATA with REFERENCE:

mno-sat 50 µL/plate DHEFDK FDA-78-1046,78

sce-hmn:lym 400 µmol/L ENVRL 32,72,83

sce-mus-orl 200 mg/kg/4D-I ENVRL 32,72,83

orl-rat LD50:916 mg/kg TXAPA9 52,351,80

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. NTP Carcinogenesis Studies (gavage); Clear Evidence: rat, mouse NTPTR* NTP-TR-321,87. EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Moderately toxic by ingestion. Human mutation data reported. When heated to decomposition it emits very toxic fumes of Br⁻ and Cl⁻. See also CHLORINATED HYDROCARBONS, ALIPHATIC; and BROMIDES.

BND600 CAS: 162050-09-1 HR: D
2-BROMO-1-(3,4-DICHLORO-5-NITRO-2-FURANYL)ETHANONE

mf: C₆H₂BrCl₂NO₄ mw: 302.90

SYNS: 3,4-DICHLORO-5-NITRO-2-BROMOACETYL FURAN □ ETHANONE, 2-BROMO-1-(3,4-DICHLORO-5-NITRO-2-FURANYL)-

TOXICITY DATA with REFERENCE:

mic-sat 200 ng/plate EMMUEG 25,58,1995

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

BND750 CAS: 18936-66-8 HR: 3
o-(4-BROMO-2,5-DICHLOROPHENYL)-o-ETHYL
PHENYLPHOSPHONOTHIOATE

mf: C₁₄H₁₂BrCl₂O₂PS mw: 426.10

SYN: VELSICOL FCS-303

TOXICITY DATA with REFERENCE:

orl-mus LD50:75 mg/kg JAFCAU 27,1197,79

orl-gpg LDLo:100 mg/kg JEENAI 61,1261,68

scu-gpg LDLo:100 mg/kg JEENAI 61,1261,68

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of SO_x, PO_x, Cl⁻, and Br⁻. See also ESTERS.

BND775 CAS: 122322-26-3 HR: 3
4-BROMO-2-(3,4-DICHLOROPHENYL)-5-((6-iodo-3-pyridinyl)methoxy)-3(2H)-
PYRIDAZINONE

mf: C₁₆H₉BrCl₂IN₃O₂ mw: 552.99

SYN: 3(2H)-PYRIDAZINONE, 4-BROMO-2-(3,4-DICHLORO-PHENYL)-5-((6-iodo-3-pyridinyl)methoxy)-

TOXICITY DATA with REFERENCE:

orl-mus LD :>300 mg/kg USXXAM #4910201

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

BND800 CAS: 1511-62-2 HR: D
BROMODIFLUOROMETHANE

mf: CHBrF₂ mw: 130.93

SYN: METHANE, BROMODIFLUORO-

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of F^- and Br^- .

BNE250 CAS: 53581-53-6 HR: 3
dl-4-BROMO-2,5-DIMETHOXYAMPHETAMINE
HYDROBROMIDE

mf: $C_{11}H_{16}BrO_2 \cdot BrH$ mw: 341.10

PROP: Crystals from EtOAc. Mp: 145–146°.

SYN: dl-4-BROMO-2,5-DIMETHOXY- α -METHYLPHENETHYL AMINE HYDROBROMIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:50 mg/kg TXAPA9 45(1),49,78

ivn-mus LD50:80 mg/kg TXAPA9 45(1),49,78

ivn-dog LD50:6400 μ g/kg TXAPA9 45(1),49,78

orl-mky LD50:2 mg/kg TXAPA9 45,49,78

SAFETY PROFILE: Poison by ingestion, intraperitoneal and intravenous routes. See also BROMIDES and various amphetamine entries. When heated to decomposition it emits very toxic fumes of Br^- .

BNE325 CAS: 70277-99-5 HR: 3
2-BROMO-3,5-DIMETHOXYANILINE

mf: $C_8H_{10}BrNO_2$ mw: 232.08

SAFETY PROFILE: May explode when heated. Upon decomposition it emits toxic fumes of Br^- and NO_x .

BNE500 CAS: 66969-02-6 HR: 3
2-BROMO-N,N-DIMETHYL-1-ADAMANT-ANEMETHANAMINE HYDROCHLORIDE
HEMIHYDRATE

mf: $C_{13}H_{22}BrN \cdot ClH \cdot 1/2H_2O$ mw: 317.74

SYN: 2-BROMO-1-(N,N-DIMETHYLAMINOMETHYL)-ADAMANTANE HYDROCHLORIDE HEMIHYDRATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:413 mg/kg JMCMA 19,967,76

ipr-mus LD50:159 mg/kg JMCMA 19,967,76

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

BNE600 CAS: 17576-88-4 HR: 2
3'-BROMO-4-DIMETHYLAMINOAZOBENZENE

mf: $C_{14}H_{14}BrN_3$ mw: 304.22

SYNS: ANILINE, p-(m-BROMOPHENYLAZO)-N,N-DIMETHYL-
 \square BENZENAMINE, 4-((3-BROMOPHENYL)AZO)-N,N-DIMETHYL-(9CI) \square p-(m-BROMOPHENYLAZO)-N,N-DIMETHYLANILINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:13 g/kg NEOLA4 27,237,80

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Low oral toxicity. When heated to decomposition it emits toxic fumes of Br^- and NO_x .

BNE750 CAS: 980-71-2 HR: 3
2-(p-BROMO- α -(2-(DIMETHYLAMINO)ETHYL)BENZYL)PYRIDINE MALEATE (1:1)

mf: $C_{16}H_{19}BrN_2 \cdot C_4H_4O_4$ mw: 435.36

SYNS: 2-(p-BROMO- α -(2-DIMETHYLAMINO)ETHYL)BENZYL)-PYRIDINE BIMALATE \square BROMOPHENIRAMINE MALEATE \square PARABROMODYLAMINE MALEATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:318 mg/kg 29ZVAB -,19,69

ipr-rat LD50:76 mg/kg 29ZVAB -,19,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BNF000 CAS: 52583-02-5 HR: 3
2-BROMO-1-(3-DIMETHYLAMINOPROPYL)ADAMANTANE HYDROCHLORIDE

mf: $C_{15}H_{26}BrN \cdot ClH$ mw: 336.79

SYN: 2-BROMO-N,N-DIMETHYL-1-ADAMANTANE PROPANAMINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:400 mg/kg JMCMA 17,602,74

ipr-mus LD50:150 mg/kg JMCMA 17,602,74

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

BNF250 CAS: 586-77-6 HR: 3
4-BROMO-N,N-DIMETHYL ANILINE

mf: $C_8H_{10}BrN$ mw: 200.08

PROP: Crystals. Mp: 55°, bp: 264°.

SYNS: 4-BROMODIMETHYLANILINE \square N,N-DIMETHYL-4-BROMOANILINE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:500 mg/kg JPETAB 90,260,47

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. May explode if heated. When heated to decomposition it emits toxic fumes of Br^- and NO_x .

BNF300 CAS: 78302-38-2 HR: 2
3-BROMO-7,12-DIMETHYLBENZ(a)ANTHRACENE

mf: $C_{20}H_{15}Br$ mw: 335.26

SYN: 3-BROMO-DMBA

TOXICITY DATA with REFERENCE:

mma-sat 5 μ g/plate CRNGDP 4,1221,83

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Br^- .

BNF310 CAS: 78302-39-3 HR: 2
4-BROMO-7,12-DIMETHYLBENZ(a)ANTHRACENE

mf: $C_{20}H_{15}Br$ mw: 335.26

SYN: 4-BROMO-DMBA

TOXICITY DATA with REFERENCE:

mma-sat 10 μ g/plate CRNGDP 4,1221,83

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Br^- .

BNF315 CAS: 63018-63-3 HR: 2
5-BROMO-9,10-DIMETHYL-1,2-BENZANTHRACENEmf: C₂₀H₁₅Br mw: 335.26

SYN: BENZ(a)ANTHRACENE, 8-BROMO-7,12-DIMETHYL-

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of Br⁻.**BNF750 CAS: 1463-08-7 HR: 3**
p-BROMO-α,α-DIMETHYLPHENETHYLAMINE HYDROCHLORIDEmf: C₁₀H₁₄BrN•ClH mw: 264.62

SYN: S 84

TOXICITY DATA with REFERENCE:

ipr-rat LD50:172 mg/kg APTOA6 17,121,60

orl-mus LD50:325 mg/kg CHTPBA 6,453,71

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Br⁻, HCl, and NO_x.**BNG125 CAS: 65036-47-7 HR: 3**
6-BROMO-2,4-DINITROBENZENEDIAZONIUM HYDROGEN SULFATEmf: C₆H₃BrN₄O₈S mw: 371.08**SAFETY PROFILE:** Solution in sulfuric acid is explosive. When heated to decomposition it emits toxic fumes of Br⁻, SO_x, and NO_x. See also SULFATES.**BNG250 CAS: 345-09 HR: 3**
3-BROMO-2,7-DINITRO-5-BENZO(b)-THIOPHENE DIAZONIUM-4-OLATEmf: C₈HBrN₄O₅S mw: 345.09**SAFETY PROFILE:** An explosive. When heated to decomposition it emits toxic fumes of Br⁻, SO_x, and NO_x.**BNG300 CAS: 26377-33-3 HR: D**
2-((2-BROMO-4,6-DINITROPHENYL)AZO)-4-METHOXY-5-(BIS(2-METHOXYETHYL)-AMINO)ACETANILIDEmf: C₂₁H₂₅BrN₆O₈ mw: 569.37SYNS: ACETAMIDE, N-(5-(BIS(2-METHOXYETHYL)AMINO)-2-((2-BROMO-4,6-DINITROPHENYL)AZO)-4-METHOXYPHENYL)-
□ AZO DYE-1**TOXICITY DATA with REFERENCE:**

mnt-ham-fbr 50 mg/L/6H MUREAV 493,75,2001

mnt-ham-fbr 50 mg/L/26H MUREAV 493,75,2001

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**BNG310 CAS: 22578-86-5 HR: D**
2-((2-BROMO-4,6-DINITROPHENYL)AZO)-4-METHOXY-5-(N-(2-CYANOETHYL)ETHYL-AMINO) ACETANILIDEmf: C₂₀H₂₀BrN₇O₆ mw: 534.33SYNS: ACETAMIDE, N-(2-((2-BROMO-4,6-DINITROPHENYL)AZO)-5-(2-CYANOETHYL)ETHYLAMINO)-4-METHOXYPHENYL)-
□ AZO DYE-2**TOXICITY DATA with REFERENCE:**

mnt-ham-fbr 6.25 mg/L/26H MUREAV 493,75,2001

mnt-ham-fbr 50 mg/L/6H MUREAV 493,75,2001

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BNG750 CAS: 776-74-9 HR: 3**
BROMODIPHENYLMETHANE DOT: UN 1770mf: C₁₃H₁₁Br mw: 247.15**PROP:** Solid. Mp: 45°, bp: 184° @ 20 mm. Decomp in hot water; sol in alc; very sol in benzene.

SYN: DIPHENYLMETHYL BROMIDE (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 8; Label: Corrosive**SAFETY PROFILE:** A corrosive poison. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BNH000 CAS: 776-74-9 HR: 3**
BROMODIPHENYLMETHANE (solution) DOT: UN 1770mf: C₁₃H₁₁Br mw: 247.15

SYN: DIPHENYL METHYL BROMIDE, solution (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 8; Label: Corrosive**SAFETY PROFILE:** A corrosive, irritating liquid. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMODIPHENYLMETHANE and BROMIDES.**BNH100 CAS: 728-84-7 HR: 3**
2-BROMO-1,3-DIPHENYL-1,3-PROPANEDIONE mf: C₁₅H₁₁BrO₂ mw: 303.17

SYN: 1,3-PROPANEDIONE, 2-BROMO-1,3-DIPHENYL-

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:31,200 µg/kg CBCCT* 4,232,52

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of Br⁻.**BNH500 CAS: 17372-87-1 HR: 3**
BROMOEOSINE mf: C₂₀H₈Br₄O₅•2Na mw: 693.90**PROP:** Red crystals with bluish tinge, or brownish-red powder. Sol in H₂O; sltly sol in EtOH; insol in Et₂O.

SYNS: AIZEN EOSINE GH □ BROMO ACID □ BROMO FLUORESCIC ACID □ BROMO FLUORESCIN □ BRONZE BROMO □ CERTIQUAL EOSINE □ C.I. 45380 □ D&C RED No. 22 □ DISODIUM EOSIN □ EOSINE □ EOSINE SODIUM SALT □ EOSINE YELLOWISH □ EOSIN GELBLICH (GERMAN) □ FENAZO EOSINE XG □ HIDACID DIBROMO FLUORESCIN □ IRGALITE BRONZE RED CL □ PHLOXINE TONER B □ PHLOX RED TONER X-1354 □ PURE EOSINE YY □ 11445 RED □ SODIUM EOSINATE □ SYMULER EOSIN TONER □ 2,4,5,7-TETRABROMO-9-o-CARBOXYPHENYL-6-HYDROXY-3-ISOXANTHONE, DISODIUM SALT □ 2,4,5,7-TETRABROMO-3,6-FLUORANDIOL □ TETRABROMOFLUORESCIN □ 2',4',5',7'-

TETRABROMOFLUORESCEIN DISODIUM SALT □
 TETRABROMO FLUORESCEIN S □ TETRABROMO
 FLUORESCEIN SOLUBLE □ 2-(2,4,5,7-TETRABROMO-6-
 HYDROXY-3-OXO-3H-XANTHENE-9-YL)BENZOIC ACID,
 DISODIUM SALT □ TOYO EOSINE G □ 1903 YELLOW PINK

TOXICITY DATA with REFERENCE:

dnr-bcs 2 mg/disc TRENAP 27,153,76
 ipr-rat LDLo:500 mg/kg IJLEAG 2,257,34
 orl-mus LD50:2344 mg/kg EAPHA6 24,125,81
 ivn-rbt LDLo:300 mg/kg IJLEAG 2,257,34

CONSENSUS REPORTS: IARC Cancer Review:
 Animal Inadequate Evidence IMEMDT 15,183,77. EPA
 Genetic Toxicology Program. Reported in EPA TSCA
 Inventory.

SAFETY PROFILE: Poison by intravenous and
 intraperitoneal routes. Moderately toxic by ingestion.
 Questionable carcinogen with experimental tumorigenic
 data. When heated to decomposition it emits very toxic
 fumes of Br⁻ and Na₂O. See also BROMIDES.

BN1000 CAS: 3132-64-7 HR: 3

3-BROMO-1,2-EPOXYPROPANE

DOT: UN 2558

mf: C₃H₅BrO mw: 136.99

PROP: Flash p: <22°.

SYNS: EPIBROMHYDRIN □ EPIBROMOHYDRIN (DOT) □
 EPIBROMOHYDRINE

TOXICITY DATA with REFERENCE:

mimo-sat 5 µmol/plate JTEHD6 5,1149,79
 mimo-esc 20 µmol/L ARTODN 46,277,80
CONSENSUS REPORTS: EPA Genetic Toxicology
 Program. Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by intraperitoneal route.
 Human mutation data reported. A dangerous fire hazard
 when exposed to heat or flame. When heated to
 decomposition it emits toxic fumes of Br⁻. See also
 BROMIDES.

BN1500 CAS: 540-51-2 HR: 3

2-BROMO ETHANOL

mf: C₂H₅BrO mw: 124.98

PROP: D: 1.79 @ 0°/4°, bp: 149–150°.

SYNS: BE □ BROMOETHANOL □
 ETHYLENEBROMOHYDRIN □ GLYCOL BROMOHYDRIN

TOXICITY DATA with REFERENCE:

mimo-sat 10 µL/plate EVHPAZ 21,79,77
 mma-sat 10 µL/plate EVHPAZ 21,79,77
 dnr-esc 10 µmol/plate EVHPAZ 21,79,77
 dnr-bcs 20 µL/disc AEMIDF 43,177,82
 mimo-klp 15 mmol/L EXPEAM 25,85,69
 ipr-mus LDLo:80 mg/kg TXAPA9 23,288,72

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

SAFETY PROFILE: Poison by intraperitoneal route.
 Questionable carcinogen with experimental neoplastic
 and tumorigenic data. Mutation data reported. When
 heated to decomposition it emits toxic fumes of Br⁻. See
 also BROMIDES.

BN1600 CAS: 927-68-4 HR: D

BROMOETHYL ACETATE

mf: C₄H₇BrO₂ mw: 167.02

SYNS: 2-BROMOETHYL ACETATE □ ETHANOL, 2-BROMO-
 ACETATE

TOXICITY DATA with REFERENCE:

mimo-sat 10 mg/plate EVHPAZ 21,79,77
 dnr-esc 10 mg/plate EVHPAZ 21,79,77

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

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

BN1650 CAS: 107-09-5 HR: D

2-BROMOETHYLAMINE

mf: C₂H₆BrN mw: 124.00

SYNS: 2-AMINOETHYL BROMIDE □ 2-BROMOETHANAMINE
 □ β-BROMOETHYLAMINE □ ETHANAMINE, 2-BROMO-(9CI) □
 ETHYLAMINE, 2-BROMO-

TOXICITY DATA with REFERENCE:

mimo-sat 500 µmol/L MUREAV 118,229,83

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

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

BNK000 CAS: 77-65-6 HR: 3

2-BROMO-2-ETHYLBUTYRYLUREA

mf: C₇H₁₃BrN₂O₂ mw: 237.13

PROP: Solid. Mp: 116–119°.

SYNS: ADALIN □ ADDISOMNOL □ N-(AMINOCARBONYL)-2-
 BROMO-2-ETHYLBUTANAMIDE □ BROMACETOCARBAMIDE
 □ BROMADAL □ BROMADEL □ BROMODIETHYLACETYL
 CARBAMIDE □ BROMODIETHYLACETYLUREA □ (α-BROMO-
 α-ETHYLBUTYRYL)CARBAMIDE □ (α-BROMO-α-ETHYL-
 BUTYRYL) UREA □ 1-BROMO-ETHYL-BUTYRYL-UREA □ 2-
 BROMO-2-ETHYLBUTYRYLUREA □ CARBOMAL □ DIACID □
 DORMITURIN □ FYDALIN □ HOGGAR □ KARBROMAL □
 KARTRYL □ NCI-C03805 □ NENESIN □ NYCTAL □
 PARKOSED □ PELIDORM □ PLANADALIN □ PLANADALIN □
 TILDIN □ URADAL

TOXICITY DATA with REFERENCE:

cyt-smc 10 mmol/tube HERAY 33,457,47
 ipr-rat LD50:427 mg/kg ITMZBJ 17,305,80
 ivn-rat LD50:427 mg/kg ARTODN 40,211,78
 unr-rat LDLo:350 mg/kg JPHAA3 23,788,34
 orl-mus LD50:464 mg/kg NCILB* NIH-NCI-E-C-72-
 3252,73
 orl-dog LD50:450 mg/kg MEIEDD 10,254,83
 scu-dog LDLo:300 mg/kg HBAMAK 4,1292,35
 orl-cat LDLo:350 mg/kg HBAMAK 4,1293,35
 orl-rbt LDLo:600 mg/kg SAPHAO 28,193,13
 scu-frg LDLo:1667 mg/kg HBAMAK 4,1293,35

CONSENSUS REPORTS: NCI Carcinogenesis
 Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-
 CG-TR-173,79. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion,
 subcutaneous, and possibly other routes. Moderately toxic
 via intravenous and intraperitoneal routes. Mutation data
 reported. A sedative, hypnotic, and central nervous system
 depressant. When heated to decomposition it emits very
 toxic fumes of NO_x and Br⁻.

BNK100 **CAS: 2758-06-7** **HR: 3**
4'-BROMO-3'-ETHYL-4-DIMETHYLAMINO
AZOBENZENEmf: C₁₆H₁₈BrN₃ mw: 332.28**SYNS:** ANILINE, p-((4-BROMO-3-ETHYLPHENYL)AZO)-N,N-DIMETHYL- □ BENZENAMINE, N,N-DIMETHYL-4'-BROMO-3'-ETHYL-4-(PHENYLAZO)- □ p-((4-BROMO-3-ETHYLPHENYL)AZO)-N,N-DIMETHYLANILINE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.**BNK250** **CAS: 2758-06-7** **HR: 3**
2-BROMO ETHYL ETHYL ETHERmf: C₄H₉BrO mw: 155**PROP:** Liquid. Vap d: 5.25, flash p: 5°.**SAFETY PROFILE:** An insecticide. A dangerous fire hazard when exposed to heat or flame. See also ETHERS and BROMIDES.**BNK275** **CAS: 2758-06-7** **HR: 2**
p-((3-BROMO-4-ETHYLPHENYL)AZO)-N,N-
DIMETHYLANILINEmf: C₁₆H₁₈BrN₃ mw: 332.28**SYNS:** ANILINE, p-((3-BROMO-4-ETHYLPHENYL)AZO)-N,N-DIMETHYL- □ BENZENAMINE, N,N-DIMETHYL-3'-BROMO-4'-ETHYL-4-(PHENYLAZO)- □ 3'-BROMO-4'-ETHYL-4-DIMETHYLAMINOAZOBENZENE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.**BNK325** **CAS: 2758-06-7** **HR: 3**
(2-BROMOETHYL)TRIMETHYLAMMONIUM
BROMIDEmf: C₅H₁₃BrN⁺Br⁻ mw: 247.01**PROP:** Prisms from EtOAc. Mp: 251–253° (sinters at 2°).**TOXICITY DATA with REFERENCE:**

orl-rat LD50:190 mg/kg QJPPAL 20,81,47

scu-rat LD50:60 mg/kg QJPPAL 20,81,47

orl-mus LD50:450 mg/kg QJPPAL 20,81,47

ipr-mus LD50:55 mg/kg QJPPAL 20,81,47

scu-mus LD50:65 mg/kg QJPPAL 20,81,47

ims-mus LD50:60 mg/kg QJPPAL 20,81,47

SAFETY PROFILE: Poison by ingestion, subcutaneous, intramuscular, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of Br⁻, NH₃, and NO_x.**BNK350** **CAS: 2028-52-6** **HR: 2**
2-BROMOETHYNYL-2-BUTANOLmf: C₆H₉BrO mw: 177.06**SYNS:** BASON □ BROMOACETYLENYLETHYLMETHYL-CARBINOL □ BROMOETHYNYLETHYLMETHYLCARBINOL □ 1-BROMO-3-METHYLPENTIN-3-OL □ 1-BROMO-3-METHYL-1-PENTYN-3-OL**TOXICITY DATA with REFERENCE:**

scu-rat LD50:940 mg/kg THERAP 10,56,55

orl-mus LD50:532 mg/kg THERAP 10,56,55

ipr-mus LD50:725 mg/kg AIPTAK 112,463,57

scu-mus LD50:910 mg/kg JPETAB 109,268,53

SAFETY PROFILE: Moderately toxic by ingestion and other routes. When heated to decomposition it emits toxic fumes of Br⁻. See also ALCOHOLS.**BNK400** **CAS: 13181-17-4** **HR: 2**
BROMOFENOXIMmf: C₁₃H₇Br₂N₃O₆ mw: 461.05**SYNS:** BENZALDEHYDE, 3,5-DIBROMO-4-HYDROXY-, (2,4-DINITROPHENYL)OXIME □ BROMOPHENOXIM □ C9122 □ 3,5-DIBROMO-4-HYDROXYLBENZALDOXIM-O-(2',4'-DINITROPHENYL)-AETHER □ 3,5-DIBROMO-4-HYDROXY BENZALDEHYDE 2,4-DINITROPHENYL OXIME □ 3,5-DIBROMO-4-HYDROXYBENZALDEHYDE (2',4'-DINITROPHENYL)OXIME □ 3,5-DIBROMO-4-HYDROXYBENZALDEHYDE-O-(2',4'-DINITROPHENYL)OXIME □ FANERON**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1100 mg/kg 85AREA 2,203,77

ihl-rat LC50:>242 mg/m³/6H PEMNDP 9,98,91

skn-rat LD50:>3 g/kg PEMNDP 9,98,91

orl-dog LD50:>1 g/kg 85JFAN A042,83

skn-rbt LD50:>500 mg/kg WRPCA2 9,119,70

SAFETY PROFILE: Moderately toxic by ingestion and inhalation. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BNK500** **CAS: 1940-57-4** **HR: 3**
9-BROMOFLUORENEmf: C₁₃H₉Br mw: 245.13**PROP:** Crystals from ligroin. Mp: 104°.**TOXICITY DATA with REFERENCE:**

skn-man 2500 µg/48H SEV BJDEAZ 80,491,68

skn-hmn 2500 µg/24H SEV CHINAG (40),2080,67

ivn-mus LD50:180 mg/kg CSLNX* NX#01610

SAFETY PROFILE: Poison by intravenous route. A severe skin irritant in humans. When heated to decomposition it emits very toxic fumes of Br⁻. See also BROMIDES.**BNK700** **CAS: 548-26-5** **HR: 2**
BROMOFLUORESCEIC ACIDmf: C₂₀H₈Br₄O₅•2Na mw: 693.90**SYNS:** AIZEN EOSINE GH □ BROMO ACID □ BROMO B □ BROMOEOSINE □ BROMO FLUORESCIN □ BRONZE BROMO □ CERTIQUAL EOSINE □ C.I. 45380 □ C.I. ACID RED 87 □ EOSIN □ EOSINE B □ EOSINE FA □ EOSINE LAKE RED Y □ FENAZO EOSINE XG □ FLUORESCIN, 2',4',5',7'-TETRABROMO-, DISODIUM SALT □ HIDACID BROMO ACID REGULAR □ HIDACID DIBROMO FLUORESCIN □ IRGALITE BRONZE RED CL □ PHLOXINE RED 20-7600**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:550 mg/kg TXAPA9 44,225,78

SAFETY PROFILE: Moderately toxic by intravenous route. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of Br⁻.**BNL000** **CAS: 75-25-2** **HR: 3**
BROMOFORM**DOT:** UN 2515mf: CHBr₃ mw: 252.75

PROP: Colorless heavy liquid or hexagonal crystals. Mp: 6–7°, bp: 149°, flash p: none, d: 2.887 @ 20°/4°. IDLH 850 ppm.

SYNS: BROMOFORME (FRENCH) □ BROMOFORMIO (ITALIAN) □ METHENYL TRIBROMIDE □ NCI-C55130 □ RCRA WASTE NUMBER U225 □ TRIBROMMETHAAN (DUTCH) □ TRIBROM METHAN (GERMAN) □ TRIBROMOMETAN (ITALIAN) □ TRIBROMOMETHANE

TOXICITY DATA with REFERENCE:

sln-dmg-ork 3000 ppm ENMUDM 7,677,85
sce-hmn:lym 80 µmol/L ENVRAL 32,72,83
sce-ham:ovr 290 µg/L ENMUDM 7,1,85
ork-hmn LDLo:143 mg/kg 34ZIAG -,141,69
ork-rat LD50:1147 mg/kg TXAPA9 52,351,80
ihl-rat LCLo:45 g/m³/4H 85GMAT -,28,82
ipr-rat LD50:414 mg/kg TOLED5 15,251,83
ork-mus LD50:1400 mg/kg TXAPA9 44,213,78
scu-mus LD50:1820 mg/kg TXAPA9 4,354,62
scu-rbt LDLo:410 mg/kg AEXPBL 28,201,1891

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Community Right-To-Know List.

OSHA PEL: TWA 0.5 ppm (skin)

ACGIH TLV: TWA 0.5 ppm (skin); Animal Carcinogen

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Suspected carcinogen with experimental neoplastigenic data. A human poison by ingestion. Moderately toxic by intraperitoneal and subcutaneous routes. Human mutation data reported. A lachrymator. It can damage the liver to a serious degree and cause death. It has anesthetic properties similar to those of chloroform, but is not sufficiently volatile for inhalation purposes and is far too toxic for human use. As a sedative and antitussive its medicinal application has resulted in numerous poisonings. Inhalation of small amounts causes irritation, provoking the flow of tears and saliva, and reddening of the face. Abuse can lead to addiction and serious consequences. Explosive reaction with crown ethers or potassium hydroxide. Violent reaction with acetone or bases. Incompatible with Li or NaK alloys. When heated to decomposition it emits highly toxic fumes of Br⁻. See also BROMIDES.

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

BNL250 CAS: 2104-96-3 HR: 2 BROMOFOSMETHYL

mf: C₈H₈BrCl₂O₃PS mw: 366.00

PROP: Yellowish crystals. Mp: 53–54°. Very sltly sol in H₂O, sol in CCl₄, Et₂O, and toluene.

SYNS: BROFENE □ O-(4-BROM-2,5-DICHLOR-PHENYL)-O,O-DIMETHYL-MONOTHIOPHOSPHAT (GERMAN) □ O-(4-BROMO-2,5-DICHLORO-FENIL)-O,O-DIMETIL-MONOTIO-FOSFATO (ITALIAN) □ 4-BROMO-2,5-DICHLOROPHENYL DIMETHYL PHOSPHOROTHIONATE □ O-(4-BROOM-2,5-DICHLOR-FENYL)-O,O-DIMETHYL-MONOTHIOFOSFAAT (DUTCH) □ BROMOFOS □ BROMOPHOS □ BRUOMOPHOS (RUSSIAN) □ CELA S 1942 □ O,O-DIMETHYL-O-(4-BROMO-2,5-DICHLORO PHENYL) PHOSPHOROTHIOATE □ O,O-DIMETHYL-O-(2,5-DICHLOR-4-BROMPHENYL)-THIONO-

PHOSPHAT (GERMAN) □ O,O-DIMETHYL-O-(2,5-DICHLORO-4-BROMOPHENYL) PHOSPHOROTHIOATE □ O,O-DIMETHYL-O-(2,5-DICHLORO-4-BROMOPHENYL) THIOPHOSPHATE □ EL 400 □ ENT 27,162 □ MONSANTO CP 51969 □ NETAL □ NEXION □ NEXION 40 □ OMS-658 □ S 1942 □ THIO-PHOSPHATE de O,O-DIMETHYLE et de O-4-BROMO-2,5-DICHLOROPHENYLE (FRENCH)

TOXICITY DATA with REFERENCE:

cyt-mus-ipr 73,200 µg/kg RTOPDW 6,416,86
ork-wmn TDLo:152 mg/kg:EYE,BAH,GIT JTCTDW 29,203,91

ork-rat LD50:1600 mg/kg TXAPA9 14,515,69

ihl-rat LC50:33 g/kg DOVEAA 32,40,78

ipr-rat LDLo:1625 mg/kg ATXKA8 22,36,66

ork-mus LD50:2829 mg/kg 28ZEAL 5,29,76

ipr-mus LD50:1040 mg/kg ATXKA8 22,36,66

ork-cat LDLo:750 mg/kg ATXKA8 22,36,66

skn-rbt LD50:2181 mg/kg 28ZEAL 5,29,76

ork-gpg LD50:1500 mg/kg ATXKA8 22,36,66

skn-mam LD50:2820 mg/kg GTPZAB 21(7),34,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, intraperitoneal, and possibly other routes. Human systemic effects by ingestion: miosis, muscle contraction, hypermotility, diarrhea. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x, PO_x, Br⁻, and Cl⁻.

BNL260 CAS: 583-69-7 HR: D 2-BROMOHYDROQUINONE

mf: C₆H₅BrO₂ mw: 189.02

SYNS: 1,4-BENZENEDIOL, 2-BROMO- □ 2-BROMO-1,4-BENZENEDIOL □ BROMOHYDROQUINONE □ 2-BROMOQUINOL □ HYDROQUINONE, BROMO-

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BNL275 CAS: 23483-74-1 HR: 3 BROMO(2-HYDROXYETHYL)MERCURY AMMONIA SALT

SYNS: 2-(BROMOMERCURY) ETHANOL-AMMONIA (1:0.8 moles) compound □ MERCURY, BROMO(2-HYDROXYETHYL)-, compound with AMMONIA (1:0.8 moles)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#05832

OSHA PEL: TWA 0.01 mg(Hg)/m³; CL 0.03 mg(Hg)/m³ (skin)

ACGIH TLV: TWA 0.01 mg(Hg)/m³; BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NH₃, Hg, and Br⁻.

BNL300 CAS: 14039-99-7 HR: 3
(4-BROMO-3-HYDROXY-2-NAPHTHOATO)(8-QUINOLINOLATO)COPPERmf: $C_{20}H_{12}BrCuNO_4$ mw: 473.78**SYN:** COPPER, (4-BROMO-3-HYDROXY-2-NAPHTHOATO)(8-QUINOLINOLATO)-**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:32 mg/kg CSLNX* NX#02338

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and Br^- .**BNL750 CAS: 87-48-9 HR: 2**
5-BROMOINDOLE-2,3-DIONEmf: $C_8H_4BrNO_2$ mw: 226.04**PROP:** Prisms from EtOH. Mp: 251–253°.**SYN:** 5-BROMISATIN (CZECH)**TOXICITY DATA with REFERENCE:**

eye-rbt 5 mg/24H SEV 28ZPAK -,143,72

orl-rat LDLo:4 g/kg 28ZPAK -,143,72

orl-mus LD50:437 mg/kg RPTOAN 45,10,82

ipr-mus LD50:437 mg/kg PCJOAU 15,858,81

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A severe eye irritant. When heated to decomposition it emits very toxic fumes of Br^- and NO_x .**BNM000 CAS: 314-42-1 HR: 2**
5-BROMO-3-ISOPROPYL-6-METHYLURACILmf: $C_8H_{11}BrN_2O_2$ mw: 247.12**PROP:** Crystals from alc (aq). Mp: 158°. Sol in abs alc.**SYNS:** 5-BROM-3-ISOPROPYL-6-METHYL-URACIL (GERMAN)

□ 5-BROMO-3-ISOPROPYL-6-METHYL, 2,4-PYRIMIDINEDIONE

(FRENCH) □ 5-BROMO-3-ISOPROPYL-6-METIL-URACIL

(ITALIAN) □ 5-BROOM-3-ISOPROPYL-6-METHYL-URACIL

(DUTCH) □ HERBICIDE 82 □ HYVAR □ ISOCIL □ ISOPROCIL

(FRENCH) □ 3-ISOPROPYL-5-BROMO-6-METHYLURACIL □

LOROX

TOXICITY DATA with REFERENCE:

orl-rat LD50:3400 mg/kg RREVAH 10,97,65

orl-mus LDLo:3750 mg/kg TXAPA9 23,288,72

SAFETY PROFILE: Moderately toxic by ingestion. See also BROMIDES. When heated to decomposition it emits very toxic fumes of Br^- and NO_x .**BNM100 CAS: 565-74-2 HR: 2**
2-BROMOISOVALERIC ACIDmf: $C_5H_9BrO_2$ mw: 181.05**SYNS:** α -BROMOISOVALERIC ACID □ 2-BROMO-3-METHYL BUTANOIC ACID □ 2-BROMO-3-METHYLBUTYRIC ACID □

BUTANOIC ACID, 2-BROMO-3-METHYL-(9CI) □ BUTYRIC ACID, 2-BROMO-3-METHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:769 mg/kg EPASR* 8EHQ-0188-0714

skn-rat LD50:1410 mg/kg EPASR* 8EHQ-0188-0714

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic vapors of Br^- .**BNM250 CAS: 478-84-2 HR: 3****2-BROMO-d-LYSERGIC ACID DIETHYLAMIDE**mf: $C_{20}H_{26}BrN_3O$ mw: 404.40**SYNS:** BOL □ BOL-148 □ d-2-BROM-DIETHYLAMIDE of LYSERGIC ACID □ BROM LSD □ BROMLYSERGAMIDE □ 2-BROM-d-LYSERGIC ACID DIETHYLAMINE □ 2-BROMO-9,10-DIDEHYDRO-N,N-DIETHYL-6-METHYLERGOLINE-8- β -CARBOXAMIDE □ BROMOLYSERGIDE □ 9,10-DIDEHYDRO-N,N-DIETHYL-2-BROMO-6-METHYLERGOLINE-8- β -CARBOXAMIDE □ USAF SZ-1**TOXICITY DATA with REFERENCE:**orl-hmn TDLo:75 μ g/kg;CNS PSYPAG 1,20,59

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

ivn-mus LD50:20 mg/kg 28ZSAT -,64

ivn-rbt LD50:6 mg/kg ANYAA9 66,668,57

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Experimental teratogenic and reproductive effects. Human systemic effects by ingestion: dilation of the arteries or veins. Many lysergic acid derivatives have central nervous system effects. When heated to decomposition it emits very toxic fumes such as Br^- and NO_x . See other lysergic acid derivatives.**BNM750 CAS: 314-42-1 HR: 3**
BROMOMETHANE mixed with DIBROMOETHANE**DOT:** UN 1647**SYN:** METHYL BROMIDE and ETHYLENE DIBROMIDE MIXTURE, liquid (DOT)**DOT CLASSIFICATION:** 6.1; Label: Poison**SAFETY PROFILE:** A poison. See also BROMIDES. When heated to decomposition it emits toxic fumes of Br^- .**BNN125 CAS: 102433-83-0 HR: 3**
2-(5-BROMO-2-METHOXYBENZYLOXY) TRIETHYLAMINEmf: $C_{14}H_{22}BrNO_2$ mw: 316.28**TOXICITY DATA with REFERENCE:**

orl-rat LD50:220 mg/kg JPETAB 121,210,57

ipr-rat LD50:80 mg/kg JPETAB 121,210,57

orl-mus LD50:248 mg/kg JPETAB 121,210,57

ipr-mus LD50:123 mg/kg JPETAB 121,210,57

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of Br^- and NO_x .**BNN200 CAS: 5347-15-9 HR: 3**
5-BROMO-6-METHOXY-8-NITROQUINOLINEmf: $C_{10}H_7BrN_2O_3$ mw: 283.10**SYN:** QUINOLINE, 5-BROMO-6-METHOXY-8-NITRO-**TOXICITY DATA with REFERENCE:**

ipr-mus LD :>500 mg/kg CBCCT* 6,62,54

ivn-mus LD50:32 mg/kg CSLNX* NX#00917

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and Br^- .**BNN250 CAS: 59177-64-9 HR: 3**
2-BROMO-N-METHYL-1-ADAMANTANEETHYL AMINE MALEATEmf: $C_{13}H_{22}BrN \cdot C_4H_4O_4$ mw: 388.35

TOXICITY DATA with REFERENCE:

orl-mus LD50:621 mg/kg JMCMA 19,967,76
 ipr-mus LD50:155 mg/kg JMCMA 19,967,76

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Br^- and NO_x .

BNN500 CAS: 59177-85-4 HR: 3
2-BROMO-N-METHYL-1-ADAMANTANE-METHAN AMINE HYDROCHLORIDE

mf: $\text{C}_{12}\text{H}_{20}\text{BrN}\cdot\text{ClH}$ mw: 294.70

TOXICITY DATA with REFERENCE:

orl-mus LD50:295 mg/kg JMCMA 19,967,76
 ipr-mus LD50:295 mg/kg JMCMA 19,967,76

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

BNN550 CAS: 128-93-8 HR: 1
1-BROMO-4-(METHYLAMINO)ANTHRAQUINONE

mf: $\text{C}_{15}\text{H}_{10}\text{BrNO}_2$ mw: 316.17

PROP: Red-brown needles from Py. Mp: 195–196°.

SYNS: 9,10-ANTHRACENEDIONE, 1-BROMO-4-(METHYLAMINO)- □ ANTHRAQUINONE, 1-BROMO-4-(METHYLAMINO)- □ 1-METHYLAMINO-4-BROMANTHRACHINON □ 1-(METHYLAMINO)-4-BROMOANTHRAQUINONE

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 85JCAE -,566,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BNO000 CAS: 31897-92-4 HR: 3
2-BROMO-1-(2-METHYLAMINOPROPYL)ADAMANTANE HYDROCHLORIDE

mf: $\text{C}_{14}\text{H}_{24}\text{BrN}\cdot\text{ClH}$ mw: 322.76

SYN: 1-(2-BROMO-1-ADAMANTYL)-N-METHYL-2-PROPYLAMINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:300 mg/kg JMCMA 17,602,74
 ipr-mus LD50:150 mg/kg JMCMA 17,602,74

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

BNO250 CAS: 31898-11-0 HR: 3
3-BROMO-1-(2-METHYLAMINOPROPYL)ADAMANTANE HYDROCHLORIDE

mf: $\text{C}_{14}\text{H}_{24}\text{BrN}\cdot\text{ClH}$ mw: 322.76

SYN: 1-(3-BROMO-1-ADAMANTYL)-N-METHYL-2-PROPYLAMINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:400 mg/kg JMCMA 17,602,74
 ipr-mus LD50:150 mg/kg JMCMA 17,602,74

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

BNO500 CAS: 2417-77-8 HR: 3

9-BROMOMETHYLANTHRACENE

mf: $\text{C}_{15}\text{H}_{11}\text{Br}$ mw: 271.17

PROP: Crystals from CHCl_3 or yellow needles from pet ether/ C_6H_6 . Mp: 145–147° (decomp).

SYN: ICR 506

TOXICITY DATA with REFERENCE:

mma-sat 10 $\mu\text{g}/\text{plate}$ PNASA6 72,5135,75

mno-sat 10 $\mu\text{g}/\text{plate}$ PNASA6 72,5135,75

ivn-mus LDLo:2700 $\mu\text{g}/\text{kg}$ CNREA8 36,2423,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Deadly poison by intravenous route. Mutation data reported. When heated to decomposition it emits toxic fumes of Br^- . See also BROMIDES.

BNO750 CAS: 24961-39-5 HR: 3
7-BROMOMETHYLBENZ(a)ANTHRACENE

mf: $\text{C}_{19}\text{H}_{13}\text{Br}$ mw: 321.23

SYNS: 7-BMBA □ ICR 498

TOXICITY DATA with REFERENCE:

dnr-esc 1 mg/L PNASA6 79,534,82

dns-hmn:fbr 1 $\mu\text{mol}/\text{L}$ NARHAD 7,1343,79

dnr-ham:ovr 800 nmol/L PNASA6 79,534,82

dnd-ham:ovr 100 nmol/L SCMGDN 10,183,84

sce-ham:ovr 400 nmol/L PNASA6 79,534,82

msc-ham:ovr 50 nmol/L PNASA6 79,534,82

ivn-mus LDLo:1600 $\mu\text{g}/\text{kg}$ CNREA8 36,2423,76

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: A deadly poison by intravenous route. Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of Br^- . See also BROMIDES.

BNP000 CAS: 49852-85-9 HR: 2
6-BROMOMETHYLBENZO(a)PYRENE

mf: $\text{C}_{21}\text{H}_{13}\text{Br}$ mw: 345.25

TOXICITY DATA with REFERENCE:

dnd-mam:lum 100 mg/L CBINA8 47,111,83

add-uns:lym 100 mg/L CBINA8 47,111,83

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. See also BROMIDES. When heated to decomposition it emits toxic fumes of Br^- .

BNP250 CAS: 107-82-4 HR: 3
1-BROMO-3-METHYL BUTANE

DOT: UN 2341

mf: $\text{C}_5\text{H}_{11}\text{Br}$ mw: 151.05

PROP: Colorless liquid. D: 1.210, mp: –112°, bp: 120–121°, flash p: 21°. Sltly sol in water; misc with alc and ether.

SYNS: ISOAMYL BROMIDE □ ISOPENTYL BROMIDE □ 3-METHYLBUTYL BROMIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:6150 mg/kg 85GMAT -,76,82

ipr-mus LD50:13,750 mg/kg 85GMAT -,76,82

ihl-mam LD50:21,300 mg/ m^3 GTPZAB 18(4),55,74

ipr-mam LD50:480 mg/kg GTPZAB 18(4),55,74

CONSENSUS REPORTS: EPA Genetic Toxicology Program. EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Flammable liquid. Dangerous fire hazard when exposed to heat or flame. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BNP750 CAS: 496-67-3 HR: 2
2-BROMO-3-METHYLBUTYRYLUREA**mf: C₆H₁₁BrN₂O₂ mw: 223.10**SYNS:** ABROVAL □ ALLUVAL □ ALURAL □ N-(AMINO-CARBONYL)-2-BROMO-3-METHYLBUTANAMIDE □ BROMARAL □ BROMCARBAMIDE □ BROMISOVAL □ BROMISOVALERYLUREA □ α-BROMISOVALERYLUREA □ BROMISOVALUM □ BROMIZOVAL □ BROMOCARBAMIDE □ α-BROMO-β-DIMETHYLPROPANOYLUREA □ α-BROMOISO VALERIC ACID UREIDE □ α-BROMOISOVALEROYLUREA □ (α-BROMOISOVALERYL)UREA □ BROMOVAL □ BROMO-VALERO CARBAMIDE □ BROMOVALERYLUREA □ BROM-OXIL □ BROMURAL □ BROMUVAN □ BROMVALERYLUREA □ BROMVALETONE □ BROMVALETONUM □ BROMVALUREA □ BROMYL □ BROVALIN □ BROVALUREA □ BROVARIN □ BVU □ CALMOTIN □ DIAGRABROMYL □ DIBROLUUR □ DORMIGENE □ ISOBROMYL □ ISOVAL □ MONOBROMOISO-VALERYLUREA □ 2-MONOBROMOISOVALERYLUREA □ PIVADORM □ PIVADORN □ SOMNUROL □ UPIOL □ UVALERAL**TOXICITY DATA with REFERENCE:**

orl-wmn TDLo:400 mg/kg; CNS BMJOAE 1,123,55

orl-hmn LDLo:57 mg/kg TOIZAG 7,513,60

orl-rat LD50:1000 mg/kg FEPRAT 7,262,48

orl-mus LD50:2 g/kg OYYAA2 11,693,76

orl-cat LD50:450 mg/kg NIIRDN 6,738,82

orl-rbt LD50:1200 mg/kg MEIEDD 10,193,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. Human systemic effects by ingestion: nausea or vomiting, and coma. A sedative and hypnotic agent. When heated to decomposition it emits very toxic fumes of Br⁻ and NO_x.**BNP850 CAS: 25855-92-9 HR: 2
9-(BROMOMETHYL)-10-CHLOROANTHRACENE**mf: C₁₅H₁₀BrCl mw: 305.61**SYN:** 10-BROMOMETHYL-9-CHLOROANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of Br⁻ and Cl⁻.**BNQ000 CAS: 34346-99-1 HR: 2
7-BROMOMETHYL-4-CHLOROBENZ(a)
ANTHRACENE**mf: C₁₉H₁₂BrCl mw: 355.67**SYN:** 4-CHLORO-7-BROMOMETHYLBENZ(a)ANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data by skin contact. When heated to decomposition it emits very toxic fumes of Br⁻and Cl⁻. See also CHLORINATED HYDROCARBONS, AROMATIC.**BNQ050 CAS: 339152-96-4 HR: D
3-BROMOMETHYL-4-CHLOROMALEIMIDE**mf: C₅H₃BrClNO₂ mw: 224.44**SYN:** 1H-PYRROLE-2,5-DIONE, 3-(BROMOMETHYL)-4-CHLORO-**TOXICITY DATA with REFERENCE:**

mic-sat 0.1 µLg/plate MUREAV 490,89,2001

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, Br⁻, and Cl⁻.**BNQ100 HR: 2
3'-BROMO-4'-METHYL-4-DIMETHYLAMINO-
AZOBENZENE**mf: C₁₅H₁₆BrN₃ mw: 318.25**SYNS:** ANILINE, p-((3-BROMO-p-TOLYL)AZO)-N,N-DIMETHYL- □ BENZENAMINE, N,N-DIMETHYL-3'-BROMO-4'-METHYL-4-(PHENYLAZO)- □ p-((3-BROMO-p-TOLYL)AZO)-N,N-DIMETHYLANILINE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.**BNQ110 HR: 2
4'-BROMO-3'-METHYL-4-DIMETHYLAMINO
AZOBENZENE**mf: C₁₅H₁₆BrN₃ mw: 318.25**SYNS:** ANILINE, p-((4-BROMO-m-TOLYL)AZO)-N,N-DIMETHYL- □ BENZENAMINE, N,N-DIMETHYL-4'-BROMO-3'-METHYL-4-(PHENYLAZO)- □ p-((4-BROMO-m-TOLYL)AZO)-N,N-DIMETHYLANILINE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.**BNQ250 CAS: 34346-97-9 HR: 2
7-BROMOMETHYL-6-FLUOROBENZ(a)
ANTHRACENE**mf: C₁₉H₁₂BrF mw: 339.22**SYN:** 6-FLUORO-7-BROMOMETHYLBENZ(a)ANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data by skin contact. When heated to decomposition it emits very toxic fumes of Br⁻ and F⁻.**BNQ500 CAS: 4437-18-7 HR: 3
2-BROMO METHYL FURAN**mf: C₅H₅BrO mw: 272.36**PROP:** Unstable oil. D: 1.56 @ 20°/20°.**SAFETY PROFILE:** A very unstable explosive. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BNQ600 CAS: 1715-40-8 HR: 1
BROMOMETHYLHEXACHLOROBI-CYCLO-
HEPTENE**

mf: C₈H₅BrCl₆ mw: 393.74

SYNS: ALUGAN □ BROMOCYCLEN □ BROMOCYCLEN □ BROMODAN □ 5-(BROMOMETHYL)-1,2,3,4,7,7-HEXACHLORO BICYCLO(2.2.1)HEPT-2-ENE □ 5-(BROMOMETHYL)-1,2,3,4,7,7-HEXACHLORO-2-NORBORNENE □ ENT 23393 □ 2-NOR BORNENE, 5-(BROMOMETHYL)-1,2,3,4,7,7-HEXACHLORO- □ SD 2774

TOXICITY DATA with REFERENCE:

orl-rat LD50:12,500 mg/kg 28ZEAL 4,74,1969

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of Br⁻ and Cl⁻.

BNQ750 CAS: 34346-96-8 HR: 2
7-BROMOMETHYL-1-

METHYLBENZ(a)ANTHRACENE

mf: C₂₀H₁₅Br mw: 335.26

SYN: 1-METHYL-7-BROMOMETHYLBENZ(a)ANTHRACENE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data by skin contact. When heated to decomposition it emits toxic fumes of Br⁻.

BNR000 CAS: 16238-56-5 HR: 2
7-BROMOMETHYL-12-METHYLBENZ(a)
ANTHRACENE

mf: C₂₀H₁₅Br mw: 335.26

SYN: ICR 502

TOXICITY DATA with REFERENCE:

mno-sat 300 ng/plate ENMUDM 6(Suppl 2),1,84

mno-esc 1 µg/plate ENMUDM 6(Suppl 2),1,84

otr-rat:emb 270 µg/L JJIND8 67,1303,81

otr-mus:fbr 16 µg/L JJIND8 67,1303,81

dnd-mus:emb 500 nmol/L CALEDQ 7,103,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Br⁻.

BNR250 CAS: 59230-81-8 HR: 2
12-BROMOMETHYL-7-METHYLBENZ(a)
ANTHRACENE

mf: C₂₀F₁₅Br mw: 605.11

TOXICITY DATA with REFERENCE:

mno-sat 20 nmol/plate CBINA8 58,253,86

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of F⁻ and Br⁻.

BNR325 CAS: 57846-03-4 HR: 3
2-BROMOMETHYL-5-METHYLFURAN

mf: C₆H₇BrO mw: 175.02

SAFETY PROFILE: May decompose violently above 70°C. When heated to decomposition it emits toxic fumes of Br⁻.

BNR750 CAS: 78-77-3 HR: 2
1-BROMO-2-METHYLPROPANE

mf: C₄H₉Br mw: 137.04

PROP: Liquid. Flash p: 22°C, d: 1.253 @ 20°/4°, fp: -117.4°, bp: 90.5–91°.

SYNS: 1-BUTYL BROMIDE □ iso-BUTYL BROMIDE □ ISOBUTYL BROMIDE

TOXICITY DATA with REFERENCE:

ipr-uns LD50:1660 mg/kg GTPZAB 18(4),55,74

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

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Moderately toxic by intraperitoneal route. A dangerous fire hazard when exposed to heat or flame. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.

BNS000 HR: 3
2-BROMO-2-METHYLPROPANE

mf: C₄H₉Br mw: 137.04

PROP: Flash p: -18°C.

SAFETY PROFILE: A very dangerous fire hazard when exposed to heat or flame. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.

BNS200 CAS: 90-11-9 HR: 2
1-BROMONAPHTHALENE

mf: C₁₀H₇Br mw: 207.08

SYNS: α-BROMONAPHTHALENE □ NAPHTHALENE, 1-BROMO-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:810 mg/kg GTPZAB 20(12),52,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BNS750 CAS: 6954-48-9 HR: 3
6-BROMO-1,2-NAPHTHOQUINONE

mf: C₁₀H₅BrO₂ mw: 237.06

PROP: Golden needles from H₂O, orange-red crystals from C₆H₆. Mp: 168° (decomp), discolors at 1°, sinters at 1°. Mod sol in EtOH, Et₂O, AcOH, and ligroin.

SYN: BONAPHTHON

TOXICITY DATA with REFERENCE:

orl-rat LD50:3900 mg/kg FATOAO 43,337,80

ipr-rat LD50:130 mg/kg FATOAO 39,628,76

orl-mus LD50:260 mg/kg FATOAO 39,628,76

ipr-mus LD50:9 mg/kg FATOAO 39,628,76

orl-gpg LD50:900 mg/kg FATOAO 39,628,76

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. An experimental teratogen. When heated to decomposition it emits toxic fumes of Br⁻.

BNS800 CAS: 13296-94-1 HR: 3
2-BROMO-4-NITROANILINE

mf: C₆H₅BrN₂O₂ mw: 217.04

SYN: ANILINE, 2-BROMO-4-NITRO-

TOXICITY DATA with REFERENCE:

orl-rat LD>500 mg/kg NCNSA6 5,12,53

ivn-mus LD50:100 mg/kg CSLNX* NX#03288

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BNT000 CAS: 30007-47-7 HR: 3
5-BROMO-5-NITRO-*m*-DIOXANE

mf: C₄H₆BrNO₄ mw: 212.02

SYNS: 5-BROM-5-NITRO-1,3-DIOXAN (GERMAN) □ 5-BROMO-5-NITRO-1,3-DIOXANE

TOXICITY DATA with REFERENCE:

skn-rat 2500 µg/24H FSASAX 78,269,76

skn-mus 2500 µg/24H FSASAX 78,269,76

orl-rat LD50:455 mg/kg FSASAX 78,269,76

ipr-rat LD50:31 mg/kg FSASAX 78,269,76

orl-mus LD50:590 mg/kg FSASAX 78,269,76

scu-dog LDLo:500 mg/kg FSASAX 78,269,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. A skin irritant. When heated to decomposition it emits very toxic fumes of Br⁻ and NO_x.

BNT250 CAS: 52-51-7 HR: 3
2-BROMO-2-NITRO-1,3-PROPANEDIOL

mf: C₃H₆BrNO₄ mw: 200.01

PROP: Crystals. Mp: 130–133°. Very sol in H₂O.

SYNS: 2-BROMO-2-NITROPANE-1,3-DIOL □ 2-BROMO-2-NITROPROPAN-1,3-DIOL □ β-BROMO-β-NITROTRIMETHYLENEGLYCOL □ BRONOCOT □ BRONOPOL □ BRONOSOL

TOXICITY DATA with REFERENCE:

skn-hmn 10 mg MOD JSCCA5 29,3,78

skn-rbt 500 mg/24H MLD JEPTDQ 4(4),47,80

skn-rbt 80 mg MOD JEPTDQ 4(4),47,80

eye-rbt 5 mg JSCCA5 29,3,78

orl-rat LD50:180 mg/kg 28ZEAL 5,30,76

skn-rat LD50:1600 mg/kg 85JFAN A542,84

ipr-rat LD50:26 mg/kg JSCCA5 29,3,78

scu-rat LD50:170 mg/kg KSRNAM 8,1029,74

ivn-rat LD50:37,400 µg/kg IYKEDH 8,680,77

orl-mus LD50:270 mg/kg PEMNDP 9,103,91

skn-mus LD50:4750 mg/kg IYKEDH 8,680,77

ipr-mus LD50:15,500 µg/kg KHFZAN 11(1),73,77

scu-mus LD50:116 mg/kg IYKEDH 8,680,77

ivn-mus LD50:48 mg/kg IYKEDH 8,680,77

orl-dog LD50:250 mg/kg 28ZEAL 5,30,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by skin contact. An eye and human skin irritant. An antiseptic. When heated to decomposition it emits very toxic fumes of NO_x and Br⁻.

BNT300 CAS: 5341-07-1 HR: 2
3-BROMO-8-NITROQUINOLINE

mf: C₉H₅BrN₂O₂ mw: 253.07

SYN: QUINOLINE, 3-BROMO-8-NITRO-

TOXICITY DATA with REFERENCE:

ipr-mus LD:>500 mg/kg CBCCT* 6,62,54

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

BNT500 CAS: 14173-58-1 HR: 2
3-BROMO-4-NITROQUINOLINE-1-OXIDE

mf: C₉H₅BrN₂O₃ mw: 269.07

TOXICITY DATA with REFERENCE:

cyt-omi 37 µmol GANNA2 60,155,69

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of Br⁻ and NO_x.

BNT600 CAS: 7166-19-0 HR: D
β-BROMO-β-NITROSOSTYRENE

mf: C₈H₆BrNO₂ mw: 228.06

SYN: STYRENE, β-BROMO-β-NITROSO-

TOXICITY DATA with REFERENCE:

mno-sat 1600 ng/plate EMMUEG 19(Suppl 21),2,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BNU000 CAS: 111-83-1 HR: 1
1-BROMOOCANE

mf: C₈H₁₇Br mw: 193.16

PROP: Liquid. D: 1.11 @ 25°/4°, fp: -55°, bp: 201.5°.

SYN: n-OCTYL BROMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5020 mg/kg AIHAAP 30,470,69

skn-rbt LD50:8944 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion and skin contact. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.

BNU125 CAS: 23753-67-5 HR: 3
1-BROMOPENTABORANE (9)

mf: B₅BrH₈ mw: 142.02

PROP: White solid. Mp: 34°, bp: 82° @ 34 mm.

SAFETY PROFILE: Ignites spontaneously in air. Explosive reaction with hexamine above 90°C. When heated to decomposition it emits toxic fumes of Br⁻. See also BORANES and BORON COMPOUNDS.

BNU250 CAS: 63867-64-1 HR: 3
4-BROMO-1,2,2,6,6-PENTAMETHYLPYPERIDINE

mf: C₁₀H₁₉BrN mw: 233.21

TOXICITY DATA with REFERENCE:

orl-mus LD50:172 mg/kg NATUAS 184,1707,59

ivn-mus LD50:51 mg/kg NATUAS 184,1707,59

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

BNU500 CAS: 107-81-3 HR: 3**2-BROMOPENTANE****DOT:** UN 2343mf: C₅H₁₁Br mw: 151.07**PROP:** Colorless to yellow liquid; strong odor. Bp: 120°, fp: < -30°, d: 1.211 @ 25°/25°, flash p: 90°F.**TOXICITY DATA with REFERENCE:**ihl-rat TCLo: 90 mg/m³/4H/17W-I GTPZAB 25(5), 51, 81ihl-mus LC50: 33 g/m³ GTPZAB 25(5), 51, 81ihl-mus TCLo: 90 mg/m³/4H/17W-I GTPZAB 25(5), 51, 81

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Poison by intraperitoneal route. Mildly toxic by inhalation. A local irritant and narcotic in high concentration. Ingestion can cause liver damage. A dangerous fire hazard when exposed to heat or flame. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES and CHLORINATED HYDROCARBONS, ALIPHATIC.**BNU660 HR: 3****4-(2-(5-BROMO-2-PENTYLOXYBENZYL)OXY)ETHYL)MORPHOLINE**mf: C₁₈H₂₈BrNO₃ mw: 386.38**TOXICITY DATA with REFERENCE:**

orl-rat LD50: 1200 mg/kg JPETAB 121,210,57

ipr-rat LD50: 265 mg/kg JPETAB 121,210,57

orl-mus LD50: 620 mg/kg JPETAB 121,210,57

ipr-mus LD50: 400 mg/kg JPETAB 121,210,57

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.**BNU700 HR: 3****2-(5-BROMO-2-PENTYLOXYBENZYL)OXY)TRIETHYLAMINE**mf: C₁₈H₃₀BrNO₂ mw: 372.40**TOXICITY DATA with REFERENCE:**

orl-rat LD50: 320 mg/kg JPETAB 121,210,57

ipr-rat LD50: 85 mg/kg JPETAB 121,210,57

orl-mus LD50: 190 mg/kg JPETAB 121,210,57

ipr-mus LD50: 100 mg/kg JPETAB 121,210,57

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.**BNU725 CAS: 10457-90-6 HR: 3****BROMOPERIDOL**mf: C₂₁H₂₃BrFNO₂ mw: 420.36**PROP:** Off-white, amorphous or microcrystalline powder. Mp: 155–158°. Solubility in water: 0.09 mg/mL; in 0.1 M tartaric, lactic, citric and acetic acids: about 10 mg/mL.**SYNS:** AZURENE □ 4-(4-(p-BROMOPHENYL)-4-HYDROXY PIPERIDINO)-4'-FLUOROBUTYROPHENONE □ 4-(4-(4-BROMO PHENYL)-4-HYDROXYPIPERIDINO)-4'-FLUOROBUTYRO PHENONE □ 4-(4-(p-BROMOPHENYL)-4-HYDROXY PIPERIDIN OL)-4'-FLUOROBUTYROPHENONE □ 4-(4-(4-BROMOPHENYL)-

4-HYDROXY-1-PIPERIDINYL)-1-(4-FLUOROPHENYL)-1-BUTAN ONE □ BROMPERIDOL □ IMPROMEN □ R 11333 □ TESOPREL

TOXICITY DATA with REFERENCE:

orl-rat LD50: 359 mg/kg ARZNAD 24,45,74

ipr-rat LD50: 323 mg/kg IYKEDH 16,1461,85

scu-rat LD50: 84 mg/kg ARZNAD 24,45,74

ivn-rat LD50: 10 mg/kg IYKEDH 16,1461,85

orl-mus LD50: 174 mg/kg IYKEDH 16,1461,85

ipr-mus LD50: 156 mg/kg IYKEDH 16,1461,85

scu-mus LD50: 114 mg/kg ARZNAD 24,45,74

ivn-mus LD50: 18,900 µg/kg ARZNAD 24,45,74

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of F⁻, Br⁻ and NO_x.**BNU800 CAS: 32762-51-9 HR: 2****BROMOPHENOL**mf: C₆H₅BrO mw: 173.02**SYN:** PHENOL, BROMO-**TOXICITY DATA with REFERENCE:**

orl-uns LD50: 652 mg/kg GISAAA 45(10), 16, 80

skn-uns LD50: 1620 mg/kg GISAAA 45(10), 16, 80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic vapors of Br⁻.**BNV000 CAS: 95-56-7 HR: 2****o-BROMOPHENOL****PROP:** Liquid. Bp: 194°.**TOXICITY DATA with REFERENCE:**

orl-mus LD50: 652 mg/kg GISAAA 44(12), 19, 79

ipr-mus LD50: 633 mg/kg GISAAA 44(12), 19, 79

scu-gpg LDLo: 1500 mg/kg RMSRA6 16,449,1896

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion, intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of Br⁻.**BNV010 CAS: 106-41-2 HR: 2****p-BROMOPHENOL**mf: C₆H₅BrO mw: 173.02**PROP:** Crystals. Mp: 66°, bp: 238°.**SYN:** 4-BROMOPHENOL**TOXICITY DATA with REFERENCE:**

orl-mus LD50: 523 mg/kg GISAAA 44(12), 19, 79

ipr-mus LD50: 411 mg/kg GISAAA 44(12), 19, 79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of Br⁻.**BNV250 HR: 2****BROMO PHENOLS**mf: HO(C₆H₄)Br mw: 173

PROP: (m-) Crystals; insol in water; sol in alc, ether, and alkalis. (p-) Crystals; sltly sol in water; sol in alc, ether, chloroform, and glacial acetic acid. (o-) Yellow to oily, red liquid; unpleasant odor; insol in water; sol in alc, ether, and chloroform. D: (p-) 1.840 (15°), 1.5875 (80°); (o-) 1.5. Mp: (m-) 33°; (p-) 64°; (o-) 6°. Bp: (m-) 236°; (p-) 238°; (o-) 194°.

SAFETY PROFILE: Moderately toxic by several routes. Dangerous in a fire. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.

**BNV500 CAS: 21466-07-9 HR: D
BROMOPHENOPHOS**

mf: C₁₂H₇Br₄O₅P mw: 581.80

SYNS: ACEDIST □ (1,1'-BIPHENYL)-2,2'-DIOL, 3,3',5,5'-TETRABROMO-, MONO(DIHYDROGEN PHOSPHATE) (9CI) □ 2,2'-BIPHENYLDIOL, 3,3',5,5'-TETRABROMO-, MONO(DIHYDROGEN PHOSPHATE) □ BROMFENOFOS □ BROMFENPHOS □ BROMOFENOFOS □ BROMPHENPHOS □ PH 1882

SAFETY PROFILE: An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of PO_x and Br⁻.

**BNV750 CAS: 16532-79-9 HR: 3
4-BROMOPHENYLACETONITRILE**

mf: C₈H₆BrN mw: 196.06

SYNS: 4-BROMOBENZENEACETONITRILE □ p-BROMOBENZYL CYANIDE □ 4-BROMOBENZYL CYANIDE □ p-BROMOPHENYLACETONITRILE □ 2-(4-BROMOPHENYL)ACETONITRILE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#03252

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

SAFETY PROFILE: Poison by intravenous route. See also BROMIDES and NITRILES. When heated to decomposition it emits very toxic fumes of Br⁻, NO_x, and CN⁻.

**BNV752 CAS: 301644-27-9 HR: 3
4-((3-((4-BROMOPHENYL)AMINO)-4,5-DI-HYDRO-2H-BENZ(g)INDAZOL-2-YL)-ACETYL)-MORPHOLINE**

mf: C₂₃H₂₃BrN₄O₂ mw: 467.37

TOXICITY DATA with REFERENCE:

orl-mus TDLo:50 µg/kg FRMCE8 55,383,2000

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

**BNV754 CAS: 301644-26-8 HR: 3
3-((4-BROMOPHENYL)AMINO)-N-(2-ETHOXYETHYL)-4,5-DIHYDRO-2H-BENZ(g)INDAZOLE-2-ACETAMIDE**

mf: C₂₃H₂₅BrN₄O₂ mw: 469.38

TOXICITY DATA with REFERENCE:

orl-mus TDLo:50 µg/kg FRMCE8 55,383,2000

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

**BNV760 CAS: 3805-65-0 HR: 2
p-(p-BROMOPHENYL-AZO)-N,N-DIMETHYL ANILINE**

mf: C₁₄H₁₄BrN₃ mw: 304.22

SYNS: ANILINE, p-(p-BROMOPHENYL-AZO)-N,N-DIMETHYL- □ BENZENAMINE, 4-((4-BROMOPHENYL)AZO)-N,N-DIMETHYL- □ 4'-BROMO-4-DIMETHYLAMINO-AZOBENZENE

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

**BNV765 CAS: 13275-42-8 HR: 2
2-(2-BROMOPHENYL)-1H-BENZIMIDAZOLE**

mf: C₁₃H₉BrN₂ mw: 273.15

SYNS: BENZIMIDAZOLE, 2-(o-BROMOPHENYL)- □ 1H-BENZIMIDAZOLE, 2-(2-BROMOPHENYL)- □ G 641

TOXICITY DATA with REFERENCE:

orl-mus LD :>1 g/kg ALXXAP #274153

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

**BNV775 CAS: 106-37-6 HR: 2
p-BROMOPHENYL BROMIDE**

mf: C₆H₄Br₂ mw: 235.92

SYNS: BENZENE, p-DIBROMO- □ BENZENE, 1,4-DIBROMO- (9CI) □ p-DIBROMOBENZENE □ 1,4-DIBROMOBENZENE

TOXICITY DATA with REFERENCE:

orl-mus LD50:3120 mg/kg GISAAA 44(12),19,79

ipr-mus LD50:1891 mg/kg GISAAA 44(12),19,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**BNV800 CAS: 107359-69-3 HR: 3
2-(4-BROMOPHENYL)-4-CHLORO-5-((4-CHLOROPHENYL)METHOXY)-3(2H)-PYRIDAZINONE**

mf: C₁₇H₁₁BrCl₂N₂O₂ mw: 426.11

SYNS: 3(2H)-PYRIDAZINONE, 2-(4-BROMOPHENYL)-4-CHLORO-5-((4-CHLOROPHENYL)METHOXY)-

TOXICITY DATA with REFERENCE:

orl-mus LD :>300 mg/kg USXXAM #4910201

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

**BNV850 HR: D
4-BROMOPHENYL CHLOROMETHYL SULFONE**

mf: C₇H₆BrClO₂S mw: 269.55

SYNS: SULFONE, p-BROMOPHENYL CHLOROMETHYL

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of SO_x, Br⁻, and Cl⁻.

BNW250 CAS: 7239-21-6 HR: 2
1-(4-BROMOPHENYL)-3,3-DIMETHYLTRIAZENEmf: C₈H₁₀BrN₃ mw: 228.12**SYNS:** 1-p-BROMFENYL-3,3-DIMETHYLTRIAZEN (CZECH) □
4-BROMO-PDMT**TOXICITY DATA with REFERENCE:**

mma-sat 5 mmol/L MUREAV 36,1,76

sln-dmg-orl 100 µmol/L CBINA8 9,365,74

orl-rat LD50:423 mg/kg 28ZPAK -,98,72

SAFETY PROFILE: Moderately toxic by ingestion.Mutation data reported. When heated to decomposition it emits very toxic fumes of Br⁻ and NO_x.**BNW300 CAS: 90035-11-3 HR: 3**
3-(3-(4-(2-(4-BROMOPHENYL)ETHYL)PHENYL)-1,2,3,4-TETRAHYDRO-1-NAPHTHALENYL)-4-HYDROXY-2H-1-BENZOPYRAN-2-ONEmf: C₃₃H₂₇BrO₃ mw: 551.51**TOXICITY DATA with REFERENCE:**

orl-rat LD50:820 µg/kg USXXAM #4520007

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of Br⁻.**BNW500 CAS: 1808-12-4 HR: 3**
BROMOPHENYL HYDRAMINE HYDROCHLORIDEmf: C₁₇H₂₀BrNO•ClH mw: 370.75**PROP:** Crystals from 2-propanol. Mp: 144–145°.**SYNS:** β-(p-BROMOBENZHYDRYLOXY)ETHYLDIMETHYL AMINE HYDROCHLORIDE □ 2-(4-BROMOBENZOHYDRYL-OXY) ETHYLDIMETHYLAMINE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:602 mg/kg CLDND* 112,318,54

ivn-mus LD50:63 mg/kg CLDND*

ivn-dog LD50:21 mg/kg CLDND*

SAFETY PROFILE: Poison by intravenous route.Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Br⁻, NO_x, and HCl.**BNW550 CAS: 622-88-8 HR: 2**
4-BROMOPHENYL HYDRAZINE HYDROCHLORIDEmf: C₆H₇BrN₂•ClH mw: 223.52**SYN:** HYDRAZINE, 1-(p-BROMOPHENYL)-, HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:500 mg/kg JPETAB 90,260,47

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, HCl, Cl⁻, and Br⁻.**BNW600 CAS: 61001-06-7 HR: D**
2-(p-BROMOPHENYL)IMIDAZO(2,1-A)ISOQUINOLINEmf: C₁₇H₁₁BrN₂ mw: 323.21**SYNS:** IMIDAZO(2,1-A)ISOQUINOLINE, 2-(p-BROMOPHENYL)-

□ IMIDAZO(2,1-A)ISOQUINOLINE, 2-(4-BROMOPHENYL)-

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BNW625 HR: D**
2-(p-BROMOPHENYL)IMIDAZO(2,1-a)ISO-QUINOLINEmf: C₂₃H₁₆N₂ mw: 320.41**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**BNW750 CAS: 1470-37-7 HR: 3**
4-BROMO-2-PHENYL-1,3-INDANDIONEmf: C₁₅H₉BrO₂ mw: 301.15**SYN:** 4-BROMO-2-FENILINDAN-1,3-DIONE (ITALIAN)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:745 mg/kg FRPSAX 31,403,76

orl-mus LD50:114 mg/kg FRPSAX 31,403,76

ipr-mus LDLo:160 mg/kg FRPSAX 31,315,76

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BNW825 CAS: 1985-12-2 HR: 3**
p-BROMOPHENYL ISOTHIOCYANATEmf: C₇H₄BrNS mw: 214.09**PROP:** Yellow needles. Mp: 60–61°.**SYN:** p-BROMOPHENYL ESTER ISOTHIOCYANIC ACID**TOXICITY DATA with REFERENCE:**

orl-rat LD50:400 mg/kg FCTXAV 5,741,67

ipr-rat LDLo:100 mg/kg ARZNAD 19,558,69

ipr-mus LDLo:100 mg/kg ARZNAD 21,121,71

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x, Br⁻, and NO_x. See also THIOCYANATES and ESTERS.**BNX000 CAS: 22480-64-4 HR: 3**
p-BROMO PHENYL LITHIUMmf: C₆H₄BrLi mw: 162.95**SAFETY PROFILE:** Explodes on exposure to oxygen. When heated to decomposition it emits toxic fumes of Br⁻. See also LITHIUM COMPOUNDS.**BNX035 CAS: 107359-76-2 HR: 3**
5-((4-BROMOPHENYL)METHOXY)-4-CHLORO-2-(4-CHLORO-2-FLUOROPHENYL)-3(2H)-PYRIDAZINONEmf: C₁₇H₁₀BrCl₂FN₂O₂ mw: 444.10**SYN:** 3(2H)-PYRIDAZINONE, 5-((4-BROMOPHENYL)-METHOXY)-4-CHLORO-2-(4-CHLORO-2-FLUOROPHENYL)-**TOXICITY DATA with REFERENCE:**

orl-mus LD :>300 mg/kg USXXAM #4910201

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x, F⁻, Br⁻, and Cl⁻.**BNX040 CAS: 107359-42-2 HR: 3**
5-((4-BROMOPHENYL)METHOXY)-4-CHLORO-2-

(4-CHLOROPHENYL)-3(2H)-PYRIDAZINONEmf: C₁₇H₁₁BrCl₂N₂O₂ mw: 426.11**SYN:** 3(2H)-PYRIDAZINONE, 5-((4-BROMOPHENYL)-METHOXY)-4-CHLORO-2-(4-CHLOROPHENYL)-**TOXICITY DATA with REFERENCE:**

orl-mus LD :>300 mg/kg USXXAM #4910201

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x, Br⁻, and Cl⁻.**BNX045 CAS: 90035-06-6 HR: 2****3-(3-(4-((4-BROMOPHENYL)METHOXY)-PHENYL)-1,2,3,4-TETRAHYDRO-1-NAPHTHALENYL)-4-HYDROXY-2H-1-BENZOPYRAN-2-ONE**mf: C₃₂H₂₅BrO₄ mw: 553.48**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 Br⁻.**BNX050 CAS: 51308-80-6 HR: 2****(4-BROMOPHENYL)METHYL BUTYL 3-PYRIDINYLCARBONIMIDODITHIOATE**mf: C₁₇H₁₉BrN₂OS mw: 379.35**SYN:** CARBONIMIDODITHIOIC ACID, 3-PYRIDINYL-, (4-BROMOPHENYL)METHYL BUTYL ESTER**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>1 g/kg USXXAM #3899582

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Br⁻.**BNX055 CAS: 51308-79-3 HR: 2****S-((4-BROMOPHENYL)METHYL) o-BUTYL 3-PYRIDINYLCARBONIMIDODITHIOATE**mf: C₁₇H₁₉BrN₂OS mw: 379.35**SYN:** CARBONIMIDODITHIOIC ACID, 3-PYRIDINYL-, S-((4-BROMOPHENYL)METHYL) o-BUTYL ESTER**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>1 g/kg USXXAM #3899582

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Br⁻.**BNX060 CAS: 34763-45-6 HR: 2****(4-BROMOPHENYL)METHYL 1-METHYLETHYL 3-PYRIDINYLCARBONIMIDODITHIOATE**mf: C₁₆H₁₇BrN₂S₂ mw: 381.38**SYN:** CARBONIMIDODITHIOIC ACID, 3-PYRIDINYL-, (4-BROMOPHENYL)METHYL 1-METHYLETHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>1 g/kg USXXAM #3899582

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Br⁻.**BNX125 CAS: 23139-02-8 HR: 2****3-(p-BROMOPHENYL)-1-METHYL-1-NITROSOUREA**mf: C₈H₈BrN₃O₂ mw: 258.10**SYNS:** 1-METHYL-3-(p-BROMOPHENYL)-1-NITROSOUREA □ 1-METHYL-3-(p-BROMOPHENYL)-1-NITROSOHARNSTOFF (GERMAN) □ 1-METHYL-1-NITROSO-3-(p-BROMOPHENYL)-UREA**TOXICITY DATA with REFERENCE:**

cyt-ham:lng 10 μmol/L IAPUDO 31,797,80

sce-ham:lng 10 μmol/L IAPUDO 31,797,80

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.**BNX250 CAS: 60050-37-5 HR: 2****2-(m-BROMOPHENYL)-N-(4-MORPHOLINO METHYL)SUCCINIMIDE**mf: C₁₅H₁₇BrN₂O₃ mw: 353.25**TOXICITY DATA with REFERENCE:**

orl-mus LD50:3012 mg/kg ARZNAD 29,290,79

ipr-mus LD50:443 mg/kg EJMCA5 13,465,78

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Br⁻ and NO_x.**BNX300 CAS: 40101-31-3 HR: 3****N-(p-BROMOPHENYL)PHTHALIMIDE**mf: C₁₄H₈BrNO₂ mw: 302.14**SYN:** PHTHALIMIDE, N-(p-BROMOPHENYL)-**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:1100 μL/kg JPETAB 93,26,48

orl-mus LD50:1600 μL/kg JPETAB 93,26,48

orl-rbt LD50:2300 μL/kg JPETAB 93,26,48

orl-gpg LD50:1200 μL/kg JPETAB 93,26,48

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BNX330 CAS: 315706-76-4 HR: 3****3-(4-BROMOPHENYL)-N-(4-PROPYLCYCLO HEXYL)-2-PROPENAMIDE**mf: C₁₈H₂₄BrNO mw: 350.30**TOXICITY DATA with REFERENCE:**

orl-mus TDLo:26.3 mg/kg FRMCE8 55,439,2000

orl-rat TDLo:100 mg/kg FRMCE8 55,439,2000

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BNX400 CAS: 119034-21-8 HR: 3****4-(p-BROMOPHENYL)SEMICARBAZONE 1-METHYL-1H-PYRROLE-2-CARBOX-ALDEHYDE**mf: C₁₃H₁₃BrN₄O mw: 321.21**SYNS:** HYDRAZINECARBOXAMIDE, N-(4-BROMOPHENYL)-2-((1-METHYL-1H-PYRROL-2-YL)METHYLENE)- (9CI) □ SEMI CARBAZIDE, 4-(p-BROMOPHENYL)-1-((1-METHYL-2-PYRROLYL)METHYLENE)-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:700 μg/kg YHHPAL 24,822,1989

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

BNX420 CAS: 119034-20-7 HR: 2
4-(p-BROMOPHENYL)SEMICARBAZONE-1H-PYRROLE-2-CARBOXALDEHYDEmf: C₁₂H₁₁BrN₄O mw: 307.18**SYNS:** HYDRAZINECARBOXAMIDE, N-(4-BROMOPHENYL)-2-(1H-PYRROL-2-YLMETHYLENE)-(9CI) □ SEMICARBAZIDE, 4-(p-BROMOPHENYL)-1-(2-PYRROLYLMETHYLENE)-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:599 mg/kg YHHPAL 24,822,1989

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BNX500 CAS: 5672-84-4 HR: 2**
4-BROMOPHENYL TRIFLUOROACETATEmf: C₈H₄BrF₃O₂ mw: 269.03**SYNS:** ACETIC ACID, TRIFLUORO-, p-BROMOPHENYL ESTER □ ACETIC ACID, TRIFLUORO-, 4-BROMOPHENYL ESTER □ p-BROMOPHENYL TRIFLUOROACETATE**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:500 µL/kg NTIS** OTS0545041

orl-mus LD50:714 mg/kg NTIS** OTS0544981

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Br⁻ and F⁻.**BNX750 CAS: 106-94-5 HR: 3**
1-BROMOPROPANEmf: C₃H₇Br mw: 123.01**PROP:** Liquid. Mp: -110°, bp: 71°, d: 1.35 @ 20°/4°, autoign temp: 914°F, flash p: <22°, lel: 4.6%.**SYNS:** 1-BROMOPROPANE (DOT) □ PROPYL BROMIDE**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:4000 mg/kg MUREAV 101,321,82

ihl-rat LC50:253,000 mg/m³/30M FAVUAI 7,35,75

ipr-rat LD50:2950 mg/kg 85GMAT -,102,82

ipr-mus LD50:2530 mg/kg 85GMAT -,102,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by inhalation. Experimental reproductive effects. Mutation data reported. Dangerous fire hazard when heated or exposed to flame or oxidizers. To fight fire, use water, foam, CO₂, dry chemical. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BNY000 CAS: 75-26-3 HR: 3**
2-BROMOPROPANE**DOT:** UN 2344mf: C₃H₇Br mw: 122.98**PROP:** Liquid. Flash p: <14°, d: 1.31 @ 20°/4°, fp: -89°, bp: 59.35°.**SYN:** ISOPROPYL BROMIDE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:4837 mg/kg GTPZAB 20(12),52,76

ihl-uns LC50:36 g/m³ GTPZAB 18(4),55,74**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. A very flammable liquid and dangerous fire hazard. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BNY750 CAS: 627-18-9 HR: D**
3-BROMOPROPANOLmf: C₃H₇BrO mw: 139.01**PROP:** Bp: 145-148°.**SYNS:** 3-BROMO-1-PROPANOL □ 3-HYDROXYPROPYL BROMIDE**TOXICITY DATA with REFERENCE:**

mmo-sat 177 µg/plate MUREAV 57,381,78

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BNZ000 CAS: 598-31-2 HR: 3**
BROMO-2-PROPANONE**DOT:** UN 1569mf: C₃H₅BrO mw: 136.99**PROP:** Liquid which turns violet rapidly. D: 1.634°, fp: -36.5°, bp: 136.5° @ 725 mm.**SYNS:** ACETONYL BROMIDE □ ACETYL METHYL BROMIDE □ BROMOACETONE □ BROMOACETONE (DOT) □ BROMO ACETONE, liquid (DOT) □ BROMOMETHYL METHYL KETONE □ 1-BROMO-2-PROPANONE □ MONOBROMOACETONE □ RCRA WASTE NUMBER P017**TOXICITY DATA with REFERENCE:**

ihl-hmn LCLo:572 ppm/10M NTIS** PB214-270

DOT CLASSIFICATION: 6.1; Label: Poison**SAFETY PROFILE:** A poisonous gas. Moderately toxic to humans by inhalation. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BOA000 CAS: 590-14-7 HR: D**
1-BROMOPROPENEmf: C₃H₅Br mw: 120.97**SYNS:** 1-BROMO-1-PROPENE □ 1-PROPENYL BROMIDE**TOXICITY DATA with REFERENCE:**

mmo-sat 1 µmol/plate ENMUDM 2,59,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BOA250 CAS: 557-93-7 HR: D**
2-BROMOPROPENEmf: C₃H₅Br mw: 120.97**PROP:** Liquid. D: 1.40 @ 20°/4°, fp: -124.8°, bp: 48.35°.**SYNS:** 2-BROMOPROPYLENE □ ISOPROPYLENE BROMIDE □ α-METHYLVINYL BROMIDE**TOXICITY DATA with REFERENCE:**

mmo-sat 1 µmol/plate ENMUDM 2,59,80

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BOA750 CAS: 42461-89-2 HR: 2**
5-(3-BROMO-1-PROPENYL)-1,3-

BENZODIOXOLEmf: C₁₀H₉BrO₂ mw: 241.10**SYNS:** 3'-BROMOISOSAFROLE □ 1,2-(METHYLENEDIOXY)-4-(3-BROMO-1-PROPENYL)BENZENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes such as Br⁻. See also BROMIDES.**BOB000 CAS: 598-72-1 HR: 3** **α -BROMOPROPIONIC ACID**mf: C₃H₅BrO₂ mw: 152.99**TOXICITY DATA with REFERENCE:**

orl-mus LD50:250 mg/kg JPETAB 86,336,46

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion. When heated to decomposition it emits toxic fumes of Br⁻.**BOB250 CAS: 590-92-1 HR: 2****3-BROMOPROPIONIC ACID**mf: C₃H₅BrO₂ mw: 152.99**PROP:** Plates. D: 1.485, mp: 62.5°, bp: 140–142° @ 45 mm.**SYN:** β -BROMOPROPIONIC ACID**TOXICITY DATA with REFERENCE:**mmo-sat 25 μ g/plate DHEFDK FDA-78-1046,78

ipr-mus LDLo:500 mg/kg CBCCT* 6,228,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.**BOB500 CAS: 2417-90-5 HR: 3****3-BROMOPROPIONITRILE**mf: C₃H₄BrN mw: 133.99**PROP:** Liquid. D: 1.62 @ 20°/4°, bp: 81–83° @ 15 mm.**SYN:** USAF DO-51**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:50 mg/kg NTIS** AD277-689

par-mus LDLo:80 mg/kg CBCCT* 7,692,55

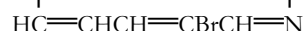
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Poison by parenteral and intraperitoneal routes. See also NITRILES. When heated to decomposition it emits very toxic fumes of NO_x, CN⁻, and Br⁻.**BOB550 CAS: 2114-00-3 HR: 3****2-BROMOPROPIOPHENONE**mf: C₉H₉BrO mw: 213.09**SYNS:** α -BROMOPROPIOPHENONE □ PROPIOPHENONE, 2-BROMO- □ TL 336**TOXICITY DATA with REFERENCE:**ihl-mus LCLo:1600 mg/m³/10M NDRC** NDCrc-132,AUG42

ivn-mus LD50:56 mg/kg CSLNX* NX#02729

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Moderately toxic by inhalation. When heated to decomposition it emits toxic vapors of Br⁻.**BOB570 CAS: 315706-68-4 HR: 3****4-BROMO-N-(4-PROPYLCYCLOHEXYL) BENZAMIDE**mf: C₁₆H₂₂BrNO mw: 324.26**TOXICITY DATA with REFERENCE:**

orl-mus TDLo:24.3 mg/kg FRMCE8 55,439,2000

orl-rat TDLo:100 mg/kg FRMCE8 55,439,2000

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.**BOB600 CAS: 109-04-6 HR: 3****2-BROMOPYRIDINE**mf: C₅H₄BrN mw: 158.01**SYN:** PYRIDINE, 2-BROMO-**TOXICITY DATA with REFERENCE:**ipr-mus LDLo:31,300 μ g/kg CBCCT* 4,322,52**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 Br⁻.**BOC510 CAS: 626-55-1 HR: 3****3-BROMOPYRIDINE**mf: C₅H₄BrN mw: 158.00**PROP:** Yellow liquid with strongly alkaline reaction. D: 1.645 @ 0°/4°, bp: 175°. Mod sol in H₂O.**SAFETY PROFILE:** Mixture with acetic acid + hydrogen peroxide explodes when heated above 50°C. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.**BOC600 CAS: 122322-20-7 HR: 3****5-((6-BROMO-3-PYRIDINYL)METHOXY)-4-CHLORO-2-(4-CHLOROPHENYL)-3(2H)-PYRIDAZINONE**mf: C₁₆H₁₀BrCl₂N₃O₂ mw: 427.10**SYN:** 3(2H)-PYRIDAZINONE, 5-((6-BROMO-3-PYRIDINYL)METHOXY)-4-CHLORO-2-(4-CHLOROPHENYL)-**TOXICITY DATA with REFERENCE:**

orl-mus LD :>300 mg/kg USXXAM #4910201

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x, Br⁻, and Cl⁻.**BOC650 CAS: 122322-21-8 HR: 3****5-((6-BROMO-3-PYRIDINYL)METHOXY)-4-CHLORO-2-(3,4-DICHLOROPHENYL)-3(2H)-PYRIDAZINONE**mf: C₁₆H₉BrCl₃N₃O₂ mw: 461.54**SYN:** 3(2H)-PYRIDAZINONE, 5-((6-BROMO-3-PYRIDINYL)-METHOXY)-4-CHLORO-2-(3,4-DICHLOROPHENYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD >300 mg/kg USXXAM #4910201

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

BOD000 CAS: 41287-72-3 HR: 3
3-(2-(5-BROMO-2-PYRIDYLOXY)ETHYL)
THIAZOLIDINE HYDROCHLORIDE

mf: $\text{C}_{10}\text{H}_{13}\text{BrN}_2\text{OS}\cdot\text{ClH}$ mw: 325.68

SYN: 5-BROMO-2-(2-(3-THIAZOLIDINYLOXY)ETHOXY)PYRIDINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:400 mg/kg JMCMA 16,319,73

ipr-mus LD50:150 mg/kg JMCMA 16,319,73

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

BOD500 CAS: 41287-56-3 HR: 3
2-(6-(5-BROMO-2-PYRIDYLOXY)HEXYL)
AMINOETHANE THIOL HYDROCHLORIDE

mf: $\text{C}_{13}\text{H}_{21}\text{BrN}_2\text{OS}\cdot\text{ClH}$ mw: 369.79

TOXICITY DATA with REFERENCE:

orl-mus LD50:350 mg/kg JMCMA 16,319,73

ipr-mus LD50:140 mg/kg JMCMA 16,319,73

SAFETY PROFILE: Poison by ingestion and intraperitoneal route. When heated to decomposition it emits very toxic Br^- , Cl^- , SO_x , and NO_x .

BOD550 CAS: 1113-59-3 HR: 3
3-BROMOPYRUVIC ACID

mf: $\text{C}_3\text{H}_3\text{BrO}_3$ mw: 166.97

SYNS: 3-BROMO-2-OXOPROPANOIC ACID \square 3-BROMO-PYRUVATE \square BROMOPYRUVIC ACID \square β -BROMOPYRUVIC ACID \square PROPANOIC ACID, 3-BROMO-2-OXO-(9CI) \square PYRUVIC ACID, BROMO-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:72 mg/kg JPETAB 123,48,58

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 Br^- .

BOD600 CAS: 87-12-7 HR: 2
5-BROMOSALICYL-4-BROMOANILIDE

mf: $\text{C}_{13}\text{H}_9\text{Br}_2\text{NO}_2$ mw: 371.05

SYNS: BENZAMIDE, 5-BROMO-N-(4-BROMOPHENYL)-2-HYDROXY- \square p-BROMANILID KYSELIN 5-BROMSALICYLOVE \square 3-BROMO-6-HYDROXYBENZ-p-BROMANILIDE \square 4',5-DIBROMOSALICYLANILIDE \square DIBROMSALAN \square NSC-20527 \square SALICYLANILIDE, 4',5-DIBROMO- \square TEMASEPT

TOXICITY DATA with REFERENCE:

orl-rat LD50:410 mg/kg IMSUAI 39,56,70

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 Br^- .

BOE500 CAS: 89-55-4 HR: 3
5-BROMOSALICYLIC ACID

mf: $\text{C}_7\text{H}_5\text{BrO}_3$ mw: 217.03

PROP: Needles. Mp: 168–169°.

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#04478

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BOE750 CAS: 13465-73-1 HR: 3
BROMOSILANE

mf: BrH_3Si mw: 111.02

SYN: SILYL BROMIDE

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: Ignites spontaneously upon exposure to air. When heated to decomposition it emits toxic fumes of Br^- .

BOF000 CAS: 103-64-0 HR: 2
 β -BROMOSTYRENE

mf: $\text{C}_8\text{H}_7\text{Br}$ mw: 183.06

SYNS: α -BROMO- β -PHENYLETHYLENE \square ω -BROMO-STYRENE \square BROMOSTYROL \square BROMOSTYROLNE \square β -BROMOSTYROL \square HYACINTH BASE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1250 mg/kg FCTXAV 11,104,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Br^- . See also BROMIDES.

BOF250 CAS: 32017-76-8 HR: D
4-BROMOSTYRENE OXIDE

mf: $\text{C}_8\text{H}_7\text{BrO}$ mw: 199.06

SYNS: 1-BROMO-4-(EPOXYETHYL)BENZENE \square (p-BROMOPHENYL)OXIRANE \square (4-BROMOPHENYLOXIRANE) (9CI) \square p-BROMOSTYRENE OXIDE \square p-BROMOSTYRENE-7,8-OXIDE \square 4'-BROMOSTYRENE OXIDE

TOXICITY DATA with REFERENCE:

mno-sat 10 μg /plate MUREAV 111,99,83

mno-esc 2 mmol/L CMSHAF 7,737,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

BOF500 CAS: 128-08-5 HR: 3
N-BROMOSUCCINIMIDE

mf: $\text{C}_4\text{H}_4\text{BrNO}_2$ mw: 178.00



PROP: White to pale-buff, fine, orthorhombic, crystalline powder with faint odor of bromine. Mp: 173–175°, d: 2.098. Sol in Me_2CO ; sltly sol in AcOH , H_2O , and CCl_4 ; prac insol in hexane.

SYNS: 1-BROMO-2,5-PYRROLIDINEDIONE □ N-BROMOSUCCIMIDE □ SUCCINBROMIMIDE □ SUCCINBROMIMIDE

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:256 mg/kg CBCCT* 2,244,50

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. An irritating poison to skin, eyes, and mucous membranes. Reacts explosively with aniline, diallyl sulfide, and hydrazine hydrate. Explosive reaction with propionitrile after heating to 105°C for 24 hours. Violent reaction with dibenzoyl peroxide + 4-toluic acid. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x. See also BROMIDES and NITROGEN MONOXIDE.

BOF750 CAS: 679-84-5 HR: 2
3-BROMO-1,1,2,2-TETRAFLUOROPROPANE

mf: C₃H₃BrF₄ mw: 194.97

PROP: Liquid. Bp: 74°.

SYNS: FHD-3 □ HALOPROPANE

TOXICITY DATA with REFERENCE:

ihl-hmn TCLo:40,000 ppm:CNS ANESAV 25,600,64

ihl-hmn TCLo:4000 ppm/30M:CVS ANESAV 25,600,64

SAFETY PROFILE: Human central nervous system and cardiovascular system effects by inhalation. When heated to decomposition it emits very toxic fumes of F⁻ and Br⁻.

BOG000 CAS: 14008-53-8 HR: 3
3-BROMOTETRAHYDROTHIOPHENE-1,1-DIOXIDE

mf: C₄H₇BrO₂S mw: 199.08

SYN: TETRAHYDRO-3-BROMOTHIOPHENE-1,1-DIOXIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:215 mg/kg AIPTAK 119,423,59

ipr-rat LD50:44 mg/kg AIPTAK 119,423,59

orl-mus LD50:121 mg/kg AIPTAK 119,423,59

ipr-mus LD50:59 mg/kg AIPTAK 119,423,59

ivn-mus LD50:25 mg/kg AIPTAK 119,423,59

ivn-dog LD50:29 mg/kg AIPTAK 119,423,59

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

BOG250 CAS: 6926-40-5 HR: 3
N-BROMOTETRAMETHYL GUANIDINE

mf: C₅H₁₂BrN₃ mw: 194.07

(CH₃)₂NC(:NBr)N(CH₃)₂

SAFETY PROFILE: An unstable material which explodes when heated above 50°C. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.

BOG255 CAS: 106-38-7 HR: 2
p-BROMOTOLUENE

mf: C₇H₇Br mw: 171.05

SYNS: PARABROMOTOLUENE □ TOLUENE, p-BROMO-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1741 mg/kg GTPZAB 20(12),52,76

ihl-uns LC50:1300 mg/m³ GTPZAB 18(4),55,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by inhalation and intraperitoneal routes. When heated to decomposition it emits toxic vapors of Br⁻.

BOG255 CAS: 23611-66-7 HR: 3
6-BROMO-2-THIO-2H-1,3-BENZOXAZINE-2,4(3H)-DIONE

mf: C₈H₄BrNO₂S mw: 258.10

SYN: 2H-1,3-BENZOXAZINE-2,4(3H)-DIONE, 6-BROMO-2-THIO-

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, SO_x, and Br⁻.

BOG260 CAS: 95-46-5 HR: 2
2-BROMOTOLUENE

mf: C₇H₇Br mw: 171.05

SYNS: BENZENE, 1-BROMO-2-METHYL-(9CI) □ 1-BROMO-2-METHYLBENZENE □ o-BROMOTOLUENE □ 2-METHYLBROMOBENZENE □ o-METHYLPHENYL BROMIDE □ TOLUENE, o-BROMO- □ o-TOLYL BROMIDE □ 2-TOLYL BROMIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1864 mg/kg GISAAA 44(12),19,79

ipr-mus LD50:1358 mg/kg GISAAA 44(12),19,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal route. When heated to decomposition it emits toxic vapors of Br⁻.

BOG300 CAS: 591-17-3 HR: 2
3-BROMOTOLUENE

mf: C₇H₇Br mw: 171.05

SYNS: BENZENE, 1-BROMO-3-METHYL- □ m-BROMOTOLUENE □ 5-BROMOTOLUENE □ m-METHYLBROMOBENZENE □ 3-METHYLBROMOBENZENE □ TOLUENE, m-BROMO- □ m-TOLYL BROMIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1436 mg/kg GISAAA 44(12),19,79

ipr-mus LD50:1215 mg/kg GISAAA 44(12),19,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BOG500 CAS: 583-68-6 HR: D
2-BROMOTOLUIDINE

SYNS: 4-METHYL-2-BROMOANILINE □ p-TOLUIDINE, 2-BROMO-

TOXICITY DATA with REFERENCE:

mma-sat 1 μmol/plate MUREAV 77,317,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BOH750 CAS: 75-62-7 HR: 3**BROMOTRICHLOROMETHANE**mf: CBrCl₃ mw: 198.27**PROP:** Colorless liquid. Fp: -5.8°, bp: 104.2°, d: 2.01 @ 20°/4°.**TOXICITY DATA with REFERENCE:**

dnd-mam:lym 1 mmol/L TOLED5 11,243,82

orl-rat LDLo:100 mg/kg IJMDAI 10,301,74

ipr-rat LD50:119 mg/kg FAATDF 2,161,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion and intraperitoneal routes. Narcotic in high concentration. Mutation data reported. See also CHLOROFORM. Incompatible with ethylene. When heated to decomposition it emits very toxic fumes of Cl⁻ and Br⁻.**BOI000 CAS: 13749-37-6 HR: 2****3-BROMO-1,1,1-TRICHLORO PROPANE**mf: C₃H₄BrCl₃ mw: 224.31**SAFETY PROFILE:** A preparative hazard. When heated to decomposition it emits toxic fumes of Cl⁻ and Br⁻. See also BROMIDES; and CHLORINATED HYDROCARBONS, ALIPHATIC.**BOI250 CAS: 63041-00-9 HR: 2****3-BROMOTRICYCLOQUINAZOLINE**mf: C₂₁H₁₁BrN₄ mw: 399.27**SAFETY PROFILE:** Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits very toxic fumes of Br⁻ and NO_x.**BOI500 CAS: 765-09-3 HR: 3****1-BROMOTRIDECAHE**mf: C₁₃H₂₇Br mw: 263.31**SYN:** TRIDECAHE, 1-BROMO-**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:180 mg/kg CSLNX* NX#03504

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits toxic vapors of Br⁻.**BOI750 CAS: 2767-54-6 HR: 3****BROMOTRIETHYLSTANNANE**mf: C₆H₁₅BrSn mw: 285.81**PROP:** Colorless liquid. D: 1.630, mp: -13.5°, bp: 221°. Sol in org solvs.**SYNS:** TRIETHYLSTANNIUM BROMIDE □ TRIETHYL TIN BROMIDE**TOXICITY DATA with REFERENCE:**ihl-mus LCLo:1640 mg/m³ NDRC* NDCrc-132, Feb, 42**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 0.1 mg(Sn)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).**NIOSH REL:** (Organotin Compounds) TWA 0.1 mg(Sn)/m³**SAFETY PROFILE:** Moderately toxic by inhalation. Experimental reproductive effects. See also TIN COMPOUNDS and BROMIDES. When heated to decomposition it emits toxic fumes of Br⁻.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**BOJ000 CAS: 598-73-2 HR: 3****BROMO TRIFLUOROETHYLENE**mf: BrF₃C₂ mw: 160.94**PROP:** Gas. Bp: -2.5°.**SYNS:** BROMOTRIFLUOROETHENE □

TRIFLUOROBROMOETHYLENE □

TRIFLUOROVINYLBROMIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison. A flammable gas. Ignites spontaneously in air. Incompatible with powerful oxidizers, O₂. When heated to decomposition it emits highly toxic fumes of Br⁻, F⁻, and COCF₂.**BOJ500 CAS: 401-78-5 HR: 1****m-BROMO- α,α,α -TRIFLUOROTOLUENE**mf: C₇H₄BrF₃ mw: 225.02**PROP:** Oil. Bp: 44-48° @ 10 mm.**SYNS:** 3-BROMBENZOTRIFLUORID (CZECH) □ m-BROMO-BENZOTRIFLUORIDE □ 3-BROMOBENZO TRIFLUORIDE □ 3-BROMOBENZYLTRIFLUORIDE □ m-BROMO(TRIFLUOROMETHYL)BENZENE □ 3-BROMO TRIFLUOROMETHYLBENZENE □ m-(TRIFLUOROMETHYL)BROMOBENZENE □ 3-(TRIFLUOROMETHYL) BROMOBENZENE □ m-(TRIFLUOROMETHYL) PHENYL BROMIDE □ 3-(TRIFLUOROMETHYL)-PHENYL BROMIDE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD 28ZPAK -,32,72

eye-rbt 500 mg/24H MOD 28ZPAK -,32,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin and eye irritant. See also FLUORIDES and BROMIDES. When heated to decomposition it emits very toxic fumes of Br⁻ and F⁻.**BOJ750 CAS: 392-83-6 HR: 2****o-BROMO- α,α,α -TRIFLUOROTOLUENE**mf: C₇H₄BrF₃ mw: 225.02**PROP:** Oil. Bp: 167-168°.**SYNS:** 2-BROMBENZOTRIFLUORID (CZECH) □ o-BROMO-BENZOTRIFLUORIDE □ 2-BROMOBENZO TRIFLUORIDE □ o-BROMOBENZYLTRIFLUORIDE □ o-(TRIFLUOROMETHYL)BROMOBENZENE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD 28ZPAK -,32,72

eye-rbt 500 mg/24H MOD 28ZPAK -,32,72

orl-rat LD50:2720 mg/kg 28ZPAK -,32,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A skin and eye irritant. See also FLUORIDES and BROMIDES. When heated to decomposition it emits very toxic fumes of Br⁻ and F⁻.

BOK250 CAS: 3091-18-7 HR: 3**BROMOTRIPENTYLSTANNANE**mf: C₁₅H₃₃BrSn mw: 412.08**SYN:** TRI-N-PENTYL TIN BROMIDE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#05775

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2mg(Sn)/m³ (skin).**NIOSH REL:** (Organotin Compounds) TWA 0.1mg(Sn)/m³**SAFETY PROFILE:** Poison by intravenous route. See also BROMIDES and TIN COMPOUNDS. When heated to decomposition it emits toxic fumes of Br⁻.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**BOK500 CAS: 1607-57-4 HR: D****BROMOTRIPHENYLETHYLENE**mf: C₂₀H₁₅Br mw: 335.26**PROP:** Crystals from hexane. Mp: 116–117°.**SYNS:** ETHYLENE, BROMOTRIPHENYL- □ STILBENE, α'-BROMO-α-PHENYL-**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Br⁻.**BOK750 CAS: 2767-61-5 HR: 3****BROMOTRIPROPYLSTANNANE**mf: C₉H₂₁BrSn mw: 327.90**PROP:** Liquid. D: 1.426 @ 25°/4°, mp: -49°, bp: 133°.**SYN:** TRI-N-PROPYL TIN BROMIDE**TOXICITY DATA with REFERENCE:**ihl-mus LCLo:1650 mg/m³ NDRC** NDCrc-132,FEB,42

ivn-mus LD50:3600 µg/kg CSLNX* NX#02334

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Sn)/m³; STEL 0.2mg(Sn)/m³ (skin).**NIOSH REL:** (Organotin Compounds) TWA 0.1mg(Sn)/m³**SAFETY PROFILE:** Poison by intravenous route. Moderately toxic by inhalation. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES and TIN COMPOUNDS.**ANALYTICAL METHOD:** For occupational chemical analysis use NIOSH: Organotin Compounds 5504.**BOL000 CAS: 51-20-7 HR: 2****5-BROMOURACIL**mf: C₄H₃BrN₂O₂ mw: 191.00**PROP:** Prisms from H₂O. Mp: 293°.**TOXICITY DATA with REFERENCE:**

mmo-esc 5000 ppm AGACBH 4,286,74

cyt-grh-ipr 10 mg IDZAAW 38,305,83

ipr-rat LD50:1700 mg/kg PSEBAA 93,124,56

ipr-mus LD50:1400 mg/kg PSEBAA 93,124,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Experimental reproductive effects.Mutation data reported. When heated to decomposition it emits very toxic fumes of Br⁻ and NO_x.**BOL250 CAS: 584-93-0 HR: 3****α-BROMOVALERIC ACID**mf: C₅H₉BrO₂ mw: 181.05**TOXICITY DATA with REFERENCE:**

orl-mus LD50:380 mg/kg JPETAB 86,336,46

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion. See also BROMIDES. When heated to decomposition it emits toxic fumes of Br⁻.**BOL300 CAS: 69304-47-8 HR: D****(E)-5-(2-BROMOVINY)-2'-DEOXYURIDINE**mf: C₁₀H₁₃BrN₂O₅ mw: 321.16**PROP:** Solid. Mp: 123–125°.**SYN:** trans-5-(2-BROMOVINY)-2'-DEOXYURIDINE**TOXICITY DATA with REFERENCE:**

dni-hmn:fbr 24 mg/L AMACCC 24,803,83

sce-hmn:lym 50 mg/L BMJOAE 283,817,81

sce-hmn:fbr 50 mg/L BMJOAE 283,817,81

sce-hmn:lng 50 mg/L MUREAV 117,317,83

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic fumes of Br⁻ and NO_x.**BOL303 CAS: 2374-05-2 HR: 2****4-BROMO-2,6-XYLENOL**mf: C₈H₉BrO mw: 201.08**SYNS:** 4-BROMO-2,6-DIMETHYLPHENOL □ 2,6-XYLENOL, 4-BROMO-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:650 mg/kg JMPCAS 2,201,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of Br⁻.**BOL310 CAS: 22585-64-4 HR: 3****BROMYL FLUORIDE**mf: BrFO₂ mw: 130.90**PROP:** White solid at low temp, liquid at room temperature. Mp: -10°. Sol in BrF₅.**SAFETY PROFILE:** Reacts explosively with water. When heated to decomposition it emits toxic fumes of F⁻ and Br⁻.**BOL315 CAS: 22393-63-1 HR: D****cis-BROPARESTROL**mf: C₂₂H₁₉Br mw: 363.32**SYNS:** BENZENE, 1-(2-BROMO-1,2-DIPHENYLETHENYL)-4-

ETHYL-, (Z)- □ (Z)-1-(2-BROMO-1,2-DIPHENYLETHENYL)-4-

ETHYLBENZENE □ (Z)-1-BROMO-1,2-DIPHENYL-2-(p-

ETHYLPHENYL)ETHYLENE □ BROMO-1 (p-ETHYLPHENYL)-2

DIPHENYL-1,2 ETHYLENE (Z) □ ETHYLENE, 1-BROMO-1,2-

DIPHENYL-2-(p-ETHYLPHENYL)-, (Z)- □ LN 2299

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

**BOL325 CAS: 23233-88-7 HR: 3
BROTIANIDE**

mf: C₁₅H₁₀Br₂ClNO₂S mw: 463.59

PROP: Solid. Mp: 181°.

SYNS: BAY 4059 □ BAY-VA 4059 □ 2-(ACETYLOXY)-3-BROMO-N-(4-BROMOPHENYL)-5-CHLORO-BENZENECARBO-THIOAMIDE □ 2-BROMO-6-(N-(p-BROMOPHENYL)THIO-CARBAMOYL)-4-CHLORO-BENZOIC ACID □ 3,4'-DIBROMO-5-CHLORO THIOSALICYLANILIDE ACETATE (ESTER) □ DIRIAN

TOXICITY DATA with REFERENCE:

orl-rat LD50:3000 mg/kg APFRAD 33,273,75

orl-mus LD50:184 mg/kg APFRAD 33,273,75

orl-rbt LD50:50 mg/kg APFRAD 33,273,75

orl-dom LD50:40 mg/kg FAZMAE 17,108,73

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of Cl⁻, Br⁻, SO_x, and NO_x.

**BOL400 CAS: 5140-42-1 HR: 2
BROWNIINE (7CI)**

mf: C₂₅H₄₁NO₇ mw: 467.67

SYN: ACONITANE-7,8,14-TRIOL, 20-ETHYL-4-(METHOXY METHYL)-1,6,16-TRIMETHOXY-, (1-α-6-β,14-α-16-β)-

TOXICITY DATA with REFERENCE:

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

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

**BOL500 CAS: 41451-75-6 HR: 3
BRUCEANTIN**

mf: C₂₈H₃₆O₁₁ mw: 548.64

PROP: Crystals from Et₂O. Mp: 225–226°. A quassinoid from the *Brucea antidysenterica* plant.

SYN: NSC-165563

TOXICITY DATA with REFERENCE:

dni-hmn:hla 50 nmol/L FEPA7 33,581,74

dni-mus:lym 15 μmol/L JPMSAE 68,883,79

oms-mus:lym 15 μmol/L JPMSAE 68,883,79

orl-mus LD50:7027 μg/kg NCISP* JAN86

ipr-mus LD50:2727 μg/kg NCISP* JAN86

scu-mus LD50:3359 μg/kg NCISP* JAN86

ivn-mus LD50:1950 μg/kg TXAPA9 41,192,77

ivn-dog LDLo:500 μg/kg TXAPA9 41,192,77

SAFETY PROFILE: A deadly poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

**BOL600 HR: 3
BRUCELLA MELITENSIS ENDOTOXIN**

SYN: ENDOTOXIN, BRUCELLA MELITENSIS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:18 mg/kg CUMIDD 1,263,78

ivn-mus LDLo:125 mg/kg PSEBAA 112,463,63

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

**BOL750 CAS: 357-57-3 HR: 3
BRUCINE**

DOT: UN 1570

mf: C₂₃H₂₆N₂O₄ mw: 394.51

PROP: Crystals, powder, or monoclinic prisms. Mp: 105° (hydrate), mp: 78° (anhydrate). Sol in EtOH and CHCl₃; sltly sol in C₆H₆ and Et₂O. An alkaloid extracted from *Strychnos* seeds (WQCHM* 4,-,74).

SYNS: BRUCINA (ITALIAN) □ (-)-BRUCINE □ BRUCINE (DOT) □ 2,3-DIMETHOXYSTRYCHNIDIN-10-ONE □ DI-METHOXY STRYCHNINE (DOT) □ 2,3-DIMETHOXYSTRYCHNINE □ 10,11-DIMETHYSTRYCHNINE □ STRY-CHNIDIN-10-ONE, 2,3-DIMETHOXY-(9CI) □ STRYCHNINE, 2,3-DIMETHOXY- □ RCRA WASTE NUMBER P018

TOXICITY DATA with REFERENCE:

ipr-rat LD50:91 mg/kg JPETAB 131,185,61

scu-mus LD50:60 mg/kg APSXAS 7,329,70

ivn-dog LDLo:8 mg/kg HBAMAK 4,1289,35

ivn-rbt LDLo:30 mg/kg NTIS** PB214-270

ivn-gpg LDLo:120 mg/kg NTIS** PB214-270

scu-pgn LDLo:58 mg/kg HBAMAK 4,1289,35

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A poison by subcutaneous, intravenous, and intraperitoneal routes. An alkaloid-like strychnine, but one-sixth as toxic. When heated to decomposition it emits toxic fumes of NO_x. See also STRYCHNINE.

**BOM000 CAS: 60723-51-5 HR: 3
BRUCINE METHIODIDE**

mf: C₂₃H₂₆N₂O₄•CH₃I mw: 536.45

SYNS: BRUCINE IODOMETHYLATE □ BRUCINE IODOMETHYLE (FRENCH)

TOXICITY DATA with REFERENCE:

ivn-mus LDLo:10 mg/kg CRSBAW 144,53,50

ivn-rbt LDLo:30 mg/kg CRSBAW 144,53,50

ivn-gpg LDLo:120 mg/kg CRSBAW 144,53,50

SAFETY PROFILE: A poison via intravenous route. See also BRUCINE. When heated to decomposition it emits very toxic fumes of NO_x and I⁻.

**BOM125 HR: 3
BUCKTHORN**

PROP: A shrub which grows to 6 feet with small elliptical leaves 1 to 2 inches long. It produces a berry which turns black when mature and has a pit. It grows wild in western Texas and New Mexico.

SYNS: COYOTILLO □ KARWINSKIA HUMBOLDTIANA □ TULLIDORA

SAFETY PROFILE: The berry contains poisonous anthracenones. Ingestion may result (over a period of weeks or months) in loss of function in the peripheral nervous system including respiratory paralysis and death.

BOM250 CAS: 129-74-8 HR: 3

BUCLIZINE DIHYDROCHLORIDEmf: $C_{28}H_{33}ClN_2 \cdot 2ClH$ mw: 506.00**PROP:** Crystals. Mp: 265–266°.

SYNS: BUCLODIN □ 1-(p-tert-BUTYLBENZYL)-4-(p-CHLORO-DIPHENYLMETHYL)PIPERAZINE DIHYDROCHLORIDE □ 1-(p-tert-BUTYLBENZYL-4-p-CHLORO- α -PHENYLBENZYL)PIPERAZINE DIHYDROCHLORIDE □ 1-(p-CHLOROBENZHYDRYL)-4-(p-tert-BUTYLBENZYL)DIETHYLENEDIAMINE DIHYDROCHLORIDE □ 1-p-CHLOROBENZHYDRYL-4-p-(tert-BUTYLBENZYL)PIPERAZINE DIHYDROCHLORIDE □ HISTABUTYZINE DIHYDROCHLORIDE □ LONGIFENE □ SOFTRAN □ UCB 4445 □ VIBAZINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:430 mg/kg JAPMA8 43,653,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. An experimental teratogen. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

BOM510 CAS: 36556-75-9 HR: 3 BUCUMOLOL HYDROCHLORIDEmf: $C_{17}H_{23}NO_4 \cdot ClH$ mw: 341.87

SYNS: dl-BUCUMOLOL HYDROCHLORIDE □ 8-(3-tert-BUTYLAMINO-2-HYDROXY)PROPOXY-5-METHYLCOUMARIN HYDROCHLORIDE □ CS 359

TOXICITY DATA with REFERENCE:

orl-rat LD50:1259 mg/kg IYKEDH 13,349,82

ipr-rat LD50:74,200 μ g/kg IYKEDH 13,349,82

scu-rat LD50:302 mg/kg IYKEDH 13,349,82

ivn-rat LD50:32,400 μ g/kg IYKEDH 13,349,82

orl-mus LD50:676 mg/kg IYKEDH 13,349,82

ipr-mus LD50:59,200 μ g/kg IYKEDH 13,349,82scu-mus LD50:82,300 μ g/kg IYKEDH 13,349,82ivn-mus LD50:31,600 μ g/kg JPAAZ 23,497,73

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

BOM520 CAS: 51333-22-3 HR: 3 BUDESONIDEmf: $C_{25}H_{34}O_6$ mw: 430.59

PROP: Crystals. Mp: 221–232° (decomp). It is a mixture of two isomers; the content of the S-isomer in the mixture varies between 40–51%.

SYNS: (11- β ,16- α)-16,17-(BUTYLIDENE)BIS(OXY)-11,21-DIHYDROXYPREGNA-1,4-DIENE-3,20-DIONE □ 16- α ,17- α -BUTYLIDENEDIOXY-11- β ,21-DIHYDROXY-1,4-PREGNADIENE-3,20-DIONE □ PREFERID □ PULMICORT □ RHINOCORT

TOXICITY DATA with REFERENCE:

ipr-rat LD50:138 mg/kg KSRNAM 19,4377,85

scu-rat LD50:58,400 μ g/kg KSRNAM 19,4377,85ivn-rat LD50:98,900 μ g/kg KSRNAM 19,4377,85

orl-mus LD50:4750 mg/kg KSRNAM 19,4377,85

ipr-mus LD50:179 mg/kg KSRNAM 19,4377,85

scu-mus LD50:53,600 μ g/kg KSRNAM 19,4377,85

ivn-mus LD50:124 mg/kg KSRNAM 19,4377,85

scu-dog LD50:173 mg/kg KSRNAM 19,4377,85

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. An experimental teratogen. Other

experimental reproductive effects. When heated to decomposition it emits acrid smoke and fumes.

BOM530 CAS: 57982-78-2 HR: 3 BUDIPINEmf: $C_{21}H_{27}N$ mw: 293.49**PROP:** Mp: 108–109°, bp: 160–165° @ 0.05 mm.

SYNS: BUDIPIN (GERMAN) □ 1-(1,1-DIMETHYLETHYL)-4,4-DIPHENYLPYRIDINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:165 mg/kg ARZNAD 32,85,82

ivn-rat LD50:28 mg/kg ARZNAD 32,85,82

orl-mus LD50:120 mg/kg ARZNAD 32,85,82

ivn-mus LD50:33 mg/kg ARZNAD 32,85,82

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

BOM600 CAS: 35543-24-9 HR: 3 BUFLOMEDIL HYDROCHLORIDEmf: $C_{17}H_{25}NO_4 \cdot ClH$ mw: 343.89**PROP:** Solid. Mp: 192–193°.

SYNS: A-48257 □ BUFEDIL □ BUFLOMEDIL □ CHLORHYDRATE de (TRIMETHOXY-2-4-6) PHENYL-(PYRROLIDINE-3) PROPYLACETONE (FRENCH) □ FONZYLANE □ LL 1656 □ LOFTYL □ 4-(1-PYRROLIDINYL)-1-(2,4,6-TRIMETHOXY-PHENYL)-1-BUTANONE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:50 mg/kg:BAH,SYS JTCTDW 30,305,92

orl-rat LD50:410 mg/kg:BAH,PUL KSRNAM 22,401,88

scu-rat LD50:796 mg/kg KSRNAM 22,401,88

ivn-rat LD50:58,500 μ g/kg KSRNAM 22,401,88

orl-mus LD50:275 mg/kg THERAP 30,207,75

ivn-mus LD50:55 mg/kg THERAP 30,207,75

ims-mus LD50:250 mg/kg THERAP 30,207,75

orl-dog LDLo:500 mg/kg THERAP 30,207,75

ivn-dog LDLo:50 mg/kg THERAP 30,207,75

SAFETY PROFILE: Poison by ingestion, intramuscular, and intravenous routes. Experimental reproductive effects. Human systemic effects by ingestion: ataxia, coma, convulsions, metabolic acidosis, respiratory depression, somnolence. A vasodilator. When heated to decomposition it emits toxic fumes of NO_x and HCl.

BOM650 CAS: 465-39-4 HR: 3 BUFOGENINmf: $C_{24}H_{32}O_4$ mw: 384.56**PROP:** Crystals from Me_2CO /hexane. Mp: 108–120°.

SYNS: 14,15- β -EPOXY-3- β -HYDROXY-5- β -BUFA-20,22-DIENOLIDE □ 3- β -HYDROXY-14,15- β -EPOXY-5- β -BUFA-20,22-DIENOLIDE □ RESIBUFOGENIN

TOXICITY DATA with REFERENCE:ivn-rat LD50:2200 μ g/kg NIIRDN 6,899,82ivn-mus LD50:4250 μ g/kg NIIRDN 6,899,82

ivn-cat LD50:5 mg/kg JPETAB 111,365,54

SAFETY PROFILE: Deadly poison by intravenous route. When heated to decomposition it emits acrid smoke and fumes. See also BUFOGENIN B.

BOM655 CAS: 465-19-0 HR: 3 BUFOGENIN Bmf: $C_{24}H_{34}O_5$ mw: 402.58

PROP: Crystals from MeOH. Mp: 210–223° (decomp). Elongated prisms from methanol. Begins to sinter at 195°, decomp @ 210–223°. Very sparingly sol in chloroform, methanol, acetone.

SYNS: DESACETYLBUFOTALIN □ 3-β,14,16-β-TRIHYDROXY-5-β-BUFA-20,22-DIENOLIDE

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:2940 µg/kg OYYAA2 5,973,71
idu-rat LDLo:28,400 µg/kg OYYAA2 5,973,71
orl-mus LD50:24,500 µg/kg OYYAA2 5,973,71
scu-mus LD50:6950 µg/kg OYYAA2 5,973,71
ivn-mus LD50:10 µg/kg CPBTAL 24,1714,76
ivn-dog LDLo:580 µg/kg OYYAA2 5,973,71

SAFETY PROFILE: Deadly poison by ingestion, subcutaneous, intravenous, and intraduodenal routes. When heated to decomposition it emits acrid smoke and fumes. See also BUFOGENIN.

BOM750 CAS: 1190-53-0 HR: 3

BUFORMIN HYDROCHLORIDE

mf: C₆H₁₅N₅•ClH mw: 193.72

PROP: Solid. Mp: 174–177°. Sol in H₂O and EtOH.

SYNS: BUFONAMIN □ DIABRIN □ INSULAMIN

TOXICITY DATA with REFERENCE:

cyt-hmn:emb 1900 µg/L SNSHBT (20),574,80
orl-rat LD50:320 mg/kg ARZNAD 12,314,62
orl-mus LD50:380 mg/kg ARZNAD 12,314,62
ipr-mus LD50:148 mg/kg PLRCAT 6,117,74

SAFETY PROFILE: A poison by intraperitoneal and ingestion routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

BON000 CAS: 471-95-4 HR: 3

BUFOTALINE

mf: C₂₆H₃₆O₆ mw: 444.62

PROP: Crystals. Mp: 223° (decomp).

SYNS: BUFOTALIN □ 3-β,14,16-β-TRIHYDROXY-5-β-BUFA-20,22-DIENOLIDE-16-ACETATE

TOXICITY DATA with REFERENCE:

scu-mus LD50:400 µg/kg CTOXAO 4,331,71
orl-dog LDLo:980 µg/kg CRSBAW 152,571,58
ivn-mus LD50:4130 µg/kg CPBTAL 24,1714,76
ivn-dog LDLo:360 µg/kg CRSBAW 152,571,58
ivn-cat LD50:130 µg/kg 85ELDJ -,189,63

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

BON250 HR: 2

BULAN and PROLAN MIXTURE (2:1)

SYNS: 1,1-BIS(p-CHLOROPHENYL)-2-NITROPROPANE mixed with 1,1-BIS(p-CHLOROPHENYL)-2-NITROBUTANE(1:2) □ CS 708 □ DILAN □ ENT 18,066

TOXICITY DATA with REFERENCE:

orl-rat LD50:475 mg/kg FMCHA2 -,D103,80
skn-rat LD50:5900 mg/kg CMPEP** -,1,56
orl-mus LD50:1100 mg/kg FEPR7 12,368,53
ipr-mus LD50:950 mg/kg FEPR7 12,368,53
orl-mam LD50:1100 mg/kg PCOC** -,929,66

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by skin contact. When

heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also individual components.

BON300 HR: 3

BULKOSOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:3740 mg/kg NIIRDN 6,205,82
ivn-rat LD50:101 mg/kg NIIRDN 6,205,82
orl-mus LD50:2450 mg/kg NIIRDN 6,205,82
scu-mus LD50:4300 mg/kg NIIRDN 6,205,82
ivn-mus LD50:76,800 µg/kg NIIRDN 6,205,82

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

BON325 CAS: 28395-03-1 HR: 3

BUMETANIDE

mf: C₁₇H₂₀N₂O₅S mw: 364.45

PROP: Crystals from aq ethanol. Mp: 230–231°.

SYNS: 3-(AMINOSULFONYL)-5-(BUTYLAMINO)-4-PHENOXY-3-(AMINOSULFONYL)-5-(BUTYLAMINO)-4-PHENOXYBENZOIC ACID □ BUMEX □ BURINE □ BURINEX □ 3-(BUTYLAMINO)-4-PHENOXY-5-SULFAMOYL BENZOIC ACID □ FONTEGO □ FORDIURAN □ LIXIL □ LUNETORON □ PF 1593 □ RO 10-6338 □ SEGUREX

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1000 mg/kg ARZNAD 1,218,51
scu-rat LD50:22,500 µg/kg OYYAA2 9,413,75
ivn-rat LD50:4 mg/kg ARZNAD 1,218,51
orl-mus LD50:156 mg/kg OYYAA2 9,413,75
scu-mus LD50:140 mg/kg ARZNAD 1,218,51
ivn-mus LD50:4900 µg/kg OYYAA2 9,413,75
ivn-rbt LD50:2400 µg/kg OYYAA2 9,413,75

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

BON350 HR: 3

BUNAZOCINE HYDROCHLORIDE

mf: C₁₉H₂₇N₅O₃•ClH mw: 409.91

SYNS: 4-AMINO-2-(4-BUTYRYLHEXAHYDRO-1H-1,4-DIAZEPIN-1-YL)-6,7-DIMETHOXYQUINAZOLINE HYDROCHLORIDE □ BUNAZOSIN HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1280 mg/kg IYKEDH 16,866,85
scu-rat LD50:365 mg/kg IYKEDH 16,866,85
ivn-rat LD50:50 mg/kg IYKEDH 16,866,85
ims-rat LD50:152 mg/kg IYKEDH 16,866,85
orl-mus LD50:1201 mg/kg IYKEDH 16,866,85
scu-mus LD50:730 mg/kg IYKEDH 16,866,85
ivn-mus LD50:57 mg/kg IYKEDH 16,866,85
ims-mus LD50:660 mg/kg IYKEDH 16,866,85

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

BON365 HR: 3

BUNGARUS CAERULEUS VENOM

SYN: VENOM, SNAKE, BUNGARUS CAERULEUS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:8 µg/kg TOXIA6 14,451,76

scu-mus LD50:450 µg/kg TOXIA6 5,47,67
 ivn-mus LD50:96 µg/kg IJMQA 60,512,72
 ivn-dog LDLo:120 µg/kg 19DDA6 1,269,67
 ivn-rbt LDLo:40 µg/kg TOXIA6 2,5,64
 ivn-mam LD50:90 µg/kg CLPTAT 8,849,67

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

B0N367**HR: 3****BUNGARUS FASCIATUS VENOM**

SYN: VENOM, SNAKE, BUNGARUS FASCIATUS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:150 µg/kg 85EGD4 5,161,78
 scu-mus LD50:3580 µg/kg TOXIA6 5,47,67
 ivn-mus LD50:170 µg/kg TOXIA6 21,681,83

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

B0N370**HR: 3****BUNGARUS MULTICINCTUS VENOM**

SYN: VENOM, FORMOSAN BANDED KRAIT, BUNGARUS MULTICINCTUS

TOXICITY DATA with REFERENCE:

ipr-mus LD50:25 µg/kg JOBIAO 48,714,60
 scu-mus LD50:160 µg/kg TIHHAH 61,239,62
 ivn-mus LD50:71 µg/kg TOXIA6 9,131,71
 ivn-rbt LDLo:1 mg/kg TOXIA6 3,281,66

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

B0N400**CAS: 23093-74-5****HR: 3****BUNITROLOL HYDROCHLORIDE**

mf: C₁₄H₂₀N₂O₂•ClH mw: 284.82

PROP: Solid. Mp: 163–165°.

SYNS: BETRILOL □ o-(3-tert-BUTYLAMINO-2-HYDROXYPROPOXY)BENZONITRILE HYDROCHLORIDE □ 2-(3-((1,1-DIMETHYLETHYL)AMINO)-2-HYDROXYPROPOXY)-BENZONITRILE HYDROCHLORIDE □ o-(2-HYDROXY-3-(tert-BUTYLAMINO)PROPOXY)BENZONITRILE HYDROCHLORIDE □ KO 1366-CL □ KOE 1366 CHLORIDE □ STRESSON

TOXICITY DATA with REFERENCE:

orl-rat LD50:639 mg/kg OYYAA2 11,795,76
 ipr-rat LD50:222 mg/kg IYKEDH 14,484,83
 scu-rat LD50:902 mg/kg IYKEDH 14,484,83
 ivn-rat LD50:69 mg/kg IYKEDH 14,484,83
 orl-mus LD50:250 mg/kg IYKEDH 12,25,81
 ipr-mus LD50:264 mg/kg IYKEDH 14,484,83
 scu-mus LD50:542 mg/kg IYKEDH 14,484,83
 ivn-mus LD50:264 mg/kg OYYAA2 9,457,75
 orl-dog LD50:490 mg/kg IYKEDH 14,484,83
 ivn-dog LD50:36 mg/kg IYKEDH 14,484,83

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

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by subcutaneous route. Experimental reproductive effects. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x, CN⁻ and HCl. See also NITRILES.

B0N750**CAS: 27262-46-0****HR: 3****BUPICAINE HYDROCHLORIDE (+)**

mf: C₁₈H₂₈N₂O•ClH mw: 324.94

SYN: 1-BUTYL-2',6'-PIPECOLOXYLIDIDE HYDROCHLORIDE (+)

TOXICITY DATA with REFERENCE:

scu-rat LD50:43 mg/kg AIPTAK 200,359,72
 ivn-rat LD50:6 mg/kg AIPTAK 200,359,72
 scu-mus LD50:58 mg/kg AIPTAK 200,359,72
 ivn-mus LD50:7200 µg/kg AIPTAK 200,359,72
 orl-rbt LD50:18 mg/kg AIPTAK 200,359,72
 ivn-rbt LD50:3300 µg/kg AIPTAK 200,359,72
 par-rbt LD50:185 mg/kg AIPTAK 200,359,72
 itr-rbt LD50:12 mg/kg AIPTAK 200,359,72

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, parenteral, and intratracheal routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See other bupicaine or bupivacaine entries.

B0O000**CAS: 18010-40-7****HR: 3****BUPICAINE HYDROCHLORIDE (±)**

mf: C₁₈H₂₈N₂O•ClH mw: 324.94

PROP: Crystals. Mp: 255–256°.

SYNS: BUPIVACINE HYDROCHLORIDE □ 1-BUTYL-2',6'-PIPECOLOXYLIDIDE (±) □ (±)-1-BUTYL-2',6'-PIPECOLOXYLIDIDE MONOHYDROCHLORIDE, MONOHYDRATE □ CARBOSTESIN □ LAC-43 □ MARCAIN □ 2-PIPERIDINE CARBOXAMIDE,1-BUTYL-N-(2,6-DIMETHYLPHENYL) MONOHYDROCHLORIDE MONOHYDRATE

TOXICITY DATA with REFERENCE:

scu-rat LD50:43 mg/kg AIPTAK 200,359,72
 ivn-rat LD50:6 mg/kg AIPTAK 200,359,72
 scu-mus LD50:59 mg/kg AIPTAK 200,359,72
 ivn-mus LD50:6400 µg/kg AIPTAK 200,359,72
 orl-rbt LD50:18 mg/kg AIPTAK 200,359,72
 ivn-rbt LD50:3400 µg/kg AIPTAK 200,359,72
 par-rbt LD50:48 mg/kg AIPTAK 200,359,72
 itr-rbt LD50:11 mg/kg AIPTAK 200,359,72
 ipr-gpg LD50:50 mg/kg NIIRDN 6,680,82

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, intraperitoneal, parenteral, and intratracheal routes. A local anesthetic. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See other bupicaine or bupivacaine entries.

B0O250**CAS: 27262-45-9****HR: 3****d(+)-BUPIVACINE**

mf: C₁₈H₂₈N₂O mw: 288.48

PROP: Crystals.

SYN: d-(+)-1-BUTYL-2',6'-PIPECOLOXYLIDIDE

TOXICITY DATA with REFERENCE:

scu-rat LD50:38 mg/kg APTOA6 31,273,72
 ivn-rat LD50:3800 µg/kg APTOA6 31,273,72
 scu-mus LD50:30 mg/kg APTOA6 31,273,72
 ivn-mus LD50:7900 µg/kg APTOA6 31,273,72
 ivn-rbt LDLo:5500 µg/kg APTOA6 31,273,72
 itr-rbt LD50:10 mg/kg ARZNAD 26,78,76

SAFETY PROFILE: Poison by subcutaneous, intratracheal and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. See other bupicaine or bupivacaine entries.

B0O500**CAS: 27262-47-1****HR: 3**

I(-)-BUPIVACAINEmf: $C_{18}H_{28}N_2O$ mw: 288.48**PROP:** Crystals.**SYN:** 1-(-)-1-BUTYL-2',6'-PIPECOLOXYLIDIDE**TOXICITY DATA with REFERENCE:**

scu-rat LD50:52 mg/kg APTOA6 31,273,72

ivn-rat LD50:7200 µg/kg APTOA6 31,273,72

scu-mus LD50:100 mg/kg APTOA6 31,273,72

ivn-mus LD50:9600 µg/kg APTOA6 31,273,72

ivn-rbt LDLo:9700 µg/kg APTOA6 31,273,72

itr-rbt LD50:14 mg/kg ARZNAD 26,78,76

SAFETY PROFILE: Poison by subcutaneous, intratracheal, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x . See other bupicaine or bupivacaine entries.**BOO625****HR: 2****BUPLEURUM MARGINATUM WALL. EX. DC., EXTRACT****PROP:** Indian plant belonging to the family Apiaceae (IJEBA6 22,312,84).**SYN:** BURPLEURUM FALCATUM LINN. VAR. MARGINATUM (WALL. EX. DC.) CL., EXTRACT**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:1 g/kg IJEBA6 22,312,84

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental reproductive effects.**BOO630****CAS: 53152-21-9****HR: 3****BUPRENORPHINE HYDROCHLORIDE**mf: $C_{29}H_{41}NO_4 \cdot ClH$ mw: 504.17**SYNS:** M-6029 □ MR 56**TOXICITY DATA with REFERENCE:**

orl-man TDLo:2857 µg/kg BMJOAE 296,214,88

ivn-rat LD50:62 mg/kg IYKEDH 13,486,82

orl-mus LD50:800 mg/kg IYKEDH 13,486,82

ivn-mus LD50:72 mg/kg IYKEDH 13,486,82

ivn-dog LD50:79 mg/kg YKYUA6 35,1351,84

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.**BOO631****CAS: 69327-76-0****HR: 2****BUPROFEZINE**mf: $C_{16}H_{23}N_3OS$ mw: 305.48**SYNS:** APPLAUD □ 2-((1,1-DIMETHYLETHYL)IMINO)TETRAHYDRO-3-(1-METHYLETHYL)-5-PHENYL-4H-1,3,5-THIADIAZIN-4-ONE □ NNI 750 □ BUPROFEZIN □ 2-tert-BUTYLIMINO-3-ISOPROPYL-5-PHENYLPERHYDRO-1,3,5-THIADIAZINAN-4-ONE □ 2-tert-BUTYLIMINO-3-ISOPROPYL-5-PHENYL-3,4,5,6-TETRAHYDRO-2H-1,3,5-THIADIAZIN-4-ONE □ 2-tert-BUTYLIMINO-3-ISOPROPYL-5-PHENYL-1,3,5-THIADIAZINAN-4-ONE □ PP618 □ 4H-1,3,5-THIADIAZIN-4-ONE, 2-((1,1-DIMETHYLETHYL)IMINO)TETRAHYDRO-3-(1-METHYLETHYL)-5-PHENYL-**TOXICITY DATA with REFERENCE:**

mnt-ham-emb 25 µmol/L MUREAV 303,121,1993

mor-ham-emb 12500 nmol/L MUREAV 303,121,1993

orl-rat LD50:2198 mg/kg PEMNDP 9,105,1991

skn-rat LD50:>5 g/kg JPIFAN (44),17,1984

orl-mus LD50:>5 g/kg JPIFAN (44),17,1984

SAFETY PROFILE: Moderately toxic by ingestion.

Low toxicity by skin contact. Mutation data reported.

When heated to decomposition it emits toxic vapors of NO_x and SO_x .**BOO632****CAS: 5486-03-3****HR: D****BUQUINOLATE**mf: $C_{20}H_{27}NO_5$ mw: 361.42**PROP:** Crystals. Mp: 288–291°.**SYNS:** BONAID □ ETHYL-6,7-DIISOBUTOXY-4-HYDROXYQUINOLINE-3-CARBOXYLATE □ 4-HYDROXY-6,7-BIS(2-METHYLPROPOXY)-3-QUINOLINECARBOXYLIC ACID ETHER ESTER □ 4-HYDROXY-6,7-DIISOBUTOXY-3-QUINOLINECARBOXYLIC ACID ETHYL ESTER**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**BOO635****CAS: 21564-17-0****HR: 3****BUSAN 72A**mf: $C_9H_6N_2S_3$ mw: 238.35**SYNS:** TCMTB □ 2-(THIOCYANOMETHYLTHIO)BENZOTHI-AZOLE, 60% □ THIOCYANIC ACID, 2-(BENZOTHAZOLYLTHIO)METHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1590 mg/kg BUCKL* TCMTB,81

ipr-rat LD50:73 mg/kg NNGADV 12,343,87

scu-rat LD50:1300 mg/kg NNGADV 12,343,87

orl-mus LD50:445 mg/kg NNGADV 12,343,87

ipr-mus LD50:143 mg/kg NNGADV 12,343,87

scu-mus LD50:205 mg/kg NNGADV 12,343,87

skn-rbt LD50:10 g/kg BUCKL* TCMTB,81

orl-dck LD50:1310 mg/kg BUCKL* TCMTB,81

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x and NO_x . See also THIOCYANATES.**BOO650****CAS: 8059-83-4****HR: 3****BUSCOPAN COMPOSITUM**mf: $C_{21}H_{30}NO_4 \cdot C_{13}H_{17}N_3O_4S \cdot Br \cdot Na$ mw: 774.81**SYNS:** N-BUTYLSCOPOLAMMONIUM BROMIDE combined with SODIUM SULPYRINE (1:25) □ SB 502**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4700 mg/kg KSRNAM 7,54,73

ipr-rat LD50:1400 mg/kg KSRNAM 7,54,73

scu-rat LD50:2850 mg/kg KSRNAM 7,54,73

orl-mus LD50:4350 mg/kg KSRNAM 7,54,73

ipr-mus LD50:2050 mg/kg KSRNAM 7,54,73

scu-mus LD50:2300 mg/kg KSRNAM 7,54,73

ivn-mus LD50:390 mg/kg KSRNAM 7,54,73

ivn-rbt LD50:480 mg/kg KSRNAM 7,54,73

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous and intraperitoneal routes. Mildly toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Br^- , SO_x , NH_3 , NO_x , and Na_2O .**BOO700****HR: 3****BUSHMAN'S POISON****PROP:** An evergreen shrub or small tree native to Africa but also found in California, Florida, and Hawaii. They are used as ornamental shrubs in California and in

greenhouses in the rest of the US. The plant has large leaves, fragrant flowers shaped like a flared tube, and a small, plum-like fruit which is red or purple-black when mature.

SYNS: ACOKANTHERA (VARIOUS SPECIES) □ A. LONGIFLORA □ A. OBLONGIFOLIA □ A. OPPOSITIFOLIA □ POISON BUSH □ POISON TREE □ WINTERSWEET

SAFETY PROFILE: The toxic agent is a cardiac glycoside similar to ouabain. It is found in all parts of the plant with the highest concentration in the seeds. The fruit of some species has low levels of toxin and is considered edible. Human systemic effects may include: nausea, vomiting, pain in the mouth and abdomen, cramps, diarrhea, slowed heartbeat and high blood potassium levels. Symptoms develop after a delay period which is dependent upon the dose. See also OUABAIN.

**BOO750 CAS: 149-16-6 HR: 3
BUTACAINE**

mf: $C_{18}H_{30}N_2O_2$ mw: 306.50

PROP: Colorless, odorless powder. Mp: 98–100°, bp: 178–182° @ 0.11 mm.

SYNS: 3-(p-AMINO BENZOXY)-1-DI-n-BUTYLAMINOPROPANE □ p-AMINO BENZOYLDIBUTYLAMINOPROPANOL □ BUTYN □ 3-(DIBUTYLAMINO)-1-PROPANOL-p-AMINO BENZOATE □ 3-DIBUTYLAMINOPROPYL-p-AMINO BENZOATE

TOXICITY DATA with REFERENCE:

scu-rat LDLo:150 mg/kg JPETAB 24,167,25
ivn-rat LDLo:7500 mg/kg PHREA7 12,190,32
scu-mus LDLo:100 mg/kg JPETAB 24,167,25
ivn-mus LDLo:12 mg/kg JAPMA8 39,4,50
scu-dog LDLo:55 mg/kg PHREA7 12,190,32
scu-cat LDLo:30 mg/kg JPETAB 24,167,25
ivn-cat LDLo:15 mg/kg AJPHAP 68,110,24
scu-rbt LDLo:50 mg/kg JPETAB 24,167,25
ivn-rbt LDLo:12 mg/kg PHREA7 12,190,32
scu-gpg LDLo:45 mg/kg JPETAB 62,69,38

SAFETY PROFILE: A poison via subcutaneous and intravenous routes. A weak allergen. Combustible. When heated to decomposition it emits toxic fumes of NO_x . See also BUTACAINE SULFATE.

**BOP000 CAS: 149-15-5 HR: 3
BUTACAINE SULFATE**

mf: $C_{36}H_{60}N_4O_4 \cdot H_2O_4S$ mw: 711.08

PROP: Solid. Mp: 138.5–139.5°.

SYNS: 3-(p-AMINO BENZOXY)-1-DI-n-BUTYLAMINOPROPANE SULFATE □ p-AMINO BENZOYLDIBUTYLAMINOPROPANOL SULFATE □ BUTELLINE □ BUTYN SULFATE □ 3-(DIBUTYL AMINO)-1-PROPANOL-p-AMINO BENZOATE (ESTER) SULFATE (2:1) □ 3-DIBUTYLAMINO-1-PROPANOL-4-AMINO BENZOATE (ESTER) SULFATE (SALT) (2:1) □ DIBUTYLAMINOPROPYL-p-AMINO BENZOATE SULFATE □ 3'-DIBUTYLAMINOPROPYL-4-AMINO BENZOATE SULFATE

TOXICITY DATA with REFERENCE:

scu-rat LDLo:197 mg/kg PHREA7 12,262,32
ipr-mus LD50:80 mg/kg BJPCAL 1,90,46
scu-mus LDLo:100 mg/kg JPETAB 24,167,25
ivn-mus LD50:12 mg/kg JAPMA8 40,373,51
orl-bwd LD50:100 mg/kg TXAPA9 21,315,72

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

topical anesthetic. See also SULFATES. When heated to decomposition it emits very toxic fumes of SO_x and NO_2 .

**BOP100 CAS: 25339-57-5 HR: 3
BUTADIENE**

DOT: UN 1010

mf: C_4H_6 mw: 54.10

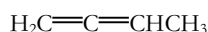
SYNS: BUTADIENES, inhibited (DOT) □ PLIOLITE

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

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

**BOP250 CAS: 590-19-2 HR: 2
1,2-BUTADIENE**

mf: C_4H_6 mw: 54.10



PROP: A gas. Flash p: <0°, fp: −136.19°, bp: 10.85°.

SAFETY PROFILE: A dangerous fire hazard. When heated to decomposition it emits acrid smoke and fumes. See also 1,3-BUTADIENE.

**BOP500 CAS: 106-99-0 HR: 3
1,3-BUTADIENE**

mf: C_4H_6 mw: 54.10



PROP: Colorless gas; mild aromatic odor. Very reactive. Bp: −2.6°, mp: −113°, fp: −108.9°, flash p: −105°F, lel: 2.0%, uel: 11.5%, d: 0.621 @ 20°/4°, autoign temp: 788°F, vap d: 1.87, vap press: 1840 mm @ 21°. IDLH 2000 ppm [10%LEL].

SYNS: BIETHYLENE □ BIVINYLY □ BUTADIEEN (DUTCH) □ BUTA-1,3-DIEEN (DUTCH) □ BUTADIEN (POLISH) □ BUTA-1,3-DIEN (GERMAN) □ BUTA-1,3-DIENE □ α-γ-BUTADIENE □ DIVINYLY □ ERYTHRENE □ NCI-C50602 □ PYRROLYLENE □ VINYLETHYLENE

TOXICITY DATA with REFERENCE:

mnt-mus:ihl 100 ppm/6H/2D-C ENMUDM 8(Suppl 6),18,86
msc-mus:lym 20 pph ENMUDM 8(Suppl 6),75,86
ihl-hmn TCLo:2000 ppm/7H:EYE JIHTAB 26,69,44
ihl-hmn TCLo:8000 ppm:EYE,PUL INMEAF 17,199,48
orl-rat LD50:5480 mg/kg 85JCAE -,14,86
ihl-rat LC50:285 g/m³/4H RPTOAN 31,162,68
ihl-mus LC50:270 g/m³/2H RPTOAN 31,162,68
ihl-rbt LCLo:25 pph/23M JIHTAB 26,69,44

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2A IMEMDT 54,237,92; Animal Sufficient Evidence IMEMDT 39,155,86; IARC Cancer Review: Animal Sufficient Evidence IMEMDT 54,237,92; Human Limited Evidence IMEMDT 54,237,92; Human Inadequate Evidence IMEMDT 39,155,86; NTP Carcinogenesis Studies (inhalation); Clear Evidence: mouse NTPTR* NTP-TR-288,84. Reported in EPA TSCA Inventory. Community Right-To-Know List.

OSHA PEL: TWA 1 ppm; STEL 5 ppm

ACGIH TLV: TWA 2 ppm; Suspected Human Carcinogen

DFG MAK: Confirmed Human Carcinogen

NIOSH REL: Reduce to lowest feasible level

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and neoplastigenic data. An experimental teratogen. Mutation data reported. Inhalation of high concentrations can cause unconsciousness and death. Human systemic effects by inhalation: cough, hallucinations, distorted perceptions, changes in the visual field and other unspecified eye effects. The vapors are irritating to eyes and mucous membranes. If spilled on skin or clothing, it can cause burns or frostbite (due to rapid vaporization). Chronic systemic poisoning in humans has not been reported.

Dangerous fire hazard when exposed to heat, flame, or powerful oxidizers. Upon exposure to air it forms explosive peroxides sensitive to heat, shock, or heating above 27°C. May decompose explosively when heated above 200°C/1.0 kbar. Explodes on contact with aluminum tetrahydroborate. Potentially explosive reaction with NO_x + O₂, ethanol + iodine + mercury oxide (at 35°C), ClO₂, crotonaldehyde (above 180°C), buten-3-yne (with heat and pressure). Reaction with sodium nitrite forms a spontaneously flammable product. Exothermic reaction with boron trifluoride etherate + phenol. To fight fire, stop flow of gas. When heated to decomposition it emits acrid smoke and fumes.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-56 or NIOSH: 1,3-Butadiene, 1024.

BOP750 CAS: 30031-64-2 HR: 3
I-BUTADIENE DIEPOXIDE

mf: C₄H₆O₂ mw: 86.10

PROP: Solid or liquid. Mp: 24–25.6°, bp: 144.5–145°.

SYNS: (S-(R*,R*)),-2,2'-BIOXIRANE □ I-DIEPOXYBUTANE □ (2S,3S)-DIEPOXYBUTANE □ I-1,2,3,4-DIEPOXYBUTANE □ (2S,3S)-1,2,3,4-DIEPOXYBUTANE □ NSC-32606

TOXICITY DATA with REFERENCE:

dnd-omi 5 mmol/L BBACAQ 228,400,71

mno-ssp 31 mmol/L ADWMAX -,193,62

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 11,115,76. EPA Genetic Toxicology Program.

SAFETY PROFILE: Suspected carcinogen with experimental neoplastigenic data. Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits acrid and irritating fumes.

BOQ250 HR: 3
BUTADIENE PEROXIDE

mf: C₄H₆O₂ mw: 86.09

SAFETY PROFILE: A shock-sensitive explosive formed by the peroxidation of butadiene upon prolonged exposure to air. Potentially explosive polymerization reaction with butadiene. Tank monitoring and a purging system are recommended to prevent explosion on contact with air over a long period of time. Concentration in butadiene as measured by standard methods of determining hydroperoxides may be only 5% of the true concentration. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES.

BOQ500 CAS: 16719-32-7 HR: 3
N-2,3-BUTADIENYL-N-METHYLBENZYLAMINE
HYDROCHLORIDE

mf: C₁₂H₁₅N•ClH mw: 209.74

SYN: U-1247

TOXICITY DATA with REFERENCE:

orl-mus LD50:339 mg/kg JPMSAE 57,430,68

ipr-mus LD50:156 mg/kg JPMSAE 57,430,68

ivn-mus LD50:32 mg/kg JPMSAE 57,430,68

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits very toxic fumes as Cl⁻ and NO_x.

BOQ625 CAS: 460-12-8 HR: 3
1,3-BUTADIYNE

mf: C₄H₂ mw: 50.06

PROP: A gas. Fp: -36°, bp: 10.3°.

SAFETY PROFILE: A dangerous explosive. Polymerizes violently above 0°C. Arsenic pentafluoride catalyzes explosive polymerization. Reaction with silver nitrate forms a very explosive friction-sensitive product. When heated to decomposition it emits acrid smoke and fumes.

BOQ750 CAS: 125-88-2 HR: 3
BUTALBITAL SODIUM

mf: C₁₀H₁₄N₂O₃•Na mw: 233.25

PROP: Hygroscopic powder.

SYNS: APROBARBITAL SODIUM □ APROBARBITONE SODIUM □ SODIUM-5-ALLYL-5-ISOPROPYLBARBITURATE

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:400 mg/kg NTIS** AD691-490

ipr-rat LD50:85 mg/kg APSCAX 18,204,49

scu-rat LDLo:125 mg/kg JACSAT 47,2236,25

SAFETY PROFILE: A poison via intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x and Na₂O. See also BARBITURATES.

BOR000 CAS: 1142-70-7 HR: 3
BUTALLYLONAL

mf: C₁₁H₁₅BrN₂O₃ mw: 303.19

PROP: Crystals. Mp: 132–133°.

SYNS: 5-(2-BROMOALLYL)-5-sec-BUTYLBARBITURIC ACID □ 5-(2'-BROMOALLYL)-5-(1'-METHYL-N-PROPYL)BARBITURIC ACID □ BUTYLLALLYLONAL □ 5-sec-BUTYL-5-(β-BROMOALLYL) BARBITURIC ACID □ PERNOCTON □ PERNOSTON □ 2,4,6(1H,3H,5H)-PYRIMIDINETRIONE, 5-(2-BROMO-2-PROPENYL)-5-(1-METHYLPROPYL)-(9CI) □ SONBUTAL

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:65 mg/kg JPETAB 44,325,32

scu-rat LD50:90 mg/kg AEPPAE 152,341,30

scu-mus LDLo:150 mg/kg REDH** #3850

orl-rbt LDLo:350 mg/kg REDH** #3850

ipr-rbt LDLo:75 mg/kg JPETAB 41,465,31

scu-rbt LDLo:160 mg/kg REDH** #3850

ivn-rbt LDLo:70 mg/kg REDH** #3850

scu-frg LDLo:150 mg/kg PHREA7 19,472,39

orl-mam LDLo:350 mg/kg JPETAB 42,253,31

SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. A central nervous system depressant (hypnotic) by ingestion. When

heated to decomposition it emits very toxic fumes of Br^- and NO_x . See also BARBITURATES and ALLYL COMPOUNDS.

BOR250 CAS: 3486-86-0 HR: 3
BUTALLYLONAL SODIUM

mf: $\text{C}_{11}\text{H}_{14}\text{BrN}_2\text{O}_3 \cdot \text{Na}$ mw: 325.17

PROP: Powder. Sol in H_2O and EtOH.

SYNS: sec-BUTYL-BROM-ALLYL BARBITURIC ACID SODIUM SALT □ SODIUM-5-(2-BROMOALLYL)-5-sec-BUTYLBARBITURATE

TOXICITY DATA with REFERENCE:

orl-cat LD50:135 mg/kg JPETAB 88,260,46

orl-rbt LD50:375 mg/kg JPETAB 42,253,31

ipr-rbt LD50:75 mg/kg JPETAB 42,253,31

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Br^- and NO_x . See also BARBITURATES.

BOR350 CAS: 18109-81-4 HR: 2
BUTAMIRATE CITRATE

mf: $\text{C}_{18}\text{H}_{29}\text{NO}_3 \cdot \text{C}_6\text{H}_8\text{O}_7$ mw: 499.62

PROP: Crystals from Me_2CO . Mp: 75°.

SYNS: ABBOTT 36581 □ ACODEEN □ BUTAMYRATE CITRATE □ 2-((2-(DIETHYLAMINO)ETHOXY)ETHYL-2-PHENYLBUTYRATE CITRATE □ α-ETHYLBENZENEACETIC ACID-2-((2-(DIETHYL AMINO)ETHOXY)ETHYL ESTER CITRATE □ HH-197 □ PHENYL ACETIC ACID DIETHYLAMINOETHOXY-ETHANOL ESTER CITRATE □ 2-PHENYLBUTYRIC ACID 2-(2-(DIETHYLAMINO) ETHOXY)ETHYL ESTER CITRATE □ SINCODEEN □ SINCODEX □ SINCODIN □ SINCODIX □ SINECOD

TOXICITY DATA with REFERENCE:

orl-rat LD50:4164 mg/kg TOIZAG 18,115,71

scu-rat LD50:3638 mg/kg TOIZAG 18,115,71

orl-mus LD50:865 mg/kg TOIZAG 18,115,71

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

BOR500 CAS: 106-97-8 HR: 3
BUTANE

DOT: UN 1011

mf: C_4H_{10} mw: 58.14

PROP: Colorless gas; faint disagreeable odor. Bp: -0.5° , fp: -135° , lel: 1.9%, uel: 8.5%, flash p: -76°F (CC), d: 0.599, autoign temp: 761°F , vap press: 2 atm @ 18.8° , vap d: 2.046. Slty sol in H_2O ; mod sol in Et_2O and CHCl_3 .

SYNS: n-BUTANE (DOT) □ BUTANE MIXTURES (DOT) □ BUTANEN (DUTCH) □ BUTANI (ITALIAN) □ DIETHYL □ METHYLETHYLMETHANE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:658 g/m³/4H FATOAO 30,102,67

ihl-mus LC50:680 g/m³/2H FATOAO 30,102,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 800 ppm

ACGIH TLV: TWA 800 ppm

DFG MAK: 1000 ppm (2400 mg/m³)

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: Mildly toxic by inhalation. Causes drowsiness. An asphyxiant. Very dangerous fire hazard when exposed to heat, flame, or oxidizers. Highly explosive when exposed to flame, or when mixed with $[\text{Ni}(\text{CO})_4 + \text{O}_2]$. To fight fire, stop flow of gas. When heated to decomposition it emits acrid smoke and fumes.

BOR750 CAS: 590-88-5 HR: 3
1,3-BUTANEDIAMINE

mf: $\text{C}_4\text{H}_{12}\text{N}_2$ mw: 88.18

PROP: Liquid. Bp: $142-150^\circ$, flash p: 125°F , d: 0.85, vap d: 3.04.

SYN: 1,3-DIAMINO BUTANE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open SEV AMIHBC 4,119,51

eye-rbt 250 µg open SEV AMIHBC 4,119,51

orl-rat LD50:1350 mg/kg AMIHBC 4,119,51

skn-rbt LD50:430 mg/kg AMIHBC 4,119,51

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Severe skin and eye irritant. Flammable liquid when exposed to heat or flame. To fight fire, use alcohol foam, foam, CO_2 , dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits toxic fumes of NO_x . See also 1,4-BUTANEDIAMINE and AMINES.

BOS000 CAS: 110-60-1 HR: 3
1,4-BUTANEDIAMINE

mf: $\text{C}_4\text{H}_{12}\text{N}_2$ mw: 88.18

PROP: Crystals with strong odor. Mp: $27-28^\circ$, bp: $158-159^\circ$.

SYNS: BUTYLENEDIAMINE □ 1,4-BUTYLENEDIAMINE □ 1,4-DIAMINO BUTANE □ PUTRESCIN □ PUTRESCINE □ TETRAMETHYLENEDIAMINE □ 1,4-TETRAMETHYLENE DIAMINE

TOXICITY DATA with REFERENCE:

cyt-hmn:hla 2 mmol/L JCLLAX 78,217,71

dns-mus:lvr 2 mmol/L AMOKAG 33,149,79

dni-mus:ast 10 mmol/L AMOKAG 33,149,79

dni-mus:lvr 20 mmol/L AMOKAG 33,149,79

orl-mus LDLo:1600 mg/kg AECTCV 14,111,85

orl-rbt LDLo:1600 mg/kg CRSBAW 83,481,20

orl-rbt LDLo:1600 mg/kg CRSBAW 83,481,20

scu-rbt LDLo:1 g/kg ZEPTAT 17,59,15

ivn-rbt LDLo:80 mg/kg CRSBAW 83,481,20

rec-rbt LDLo:400 mg/kg CRSBAW 83,481,20

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by subcutaneous, intravenous, and rectal routes. Moderately toxic by ingestion. An experimental teratogen. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also 1,3-BUTANEDIAMINE and AMINES.

BOS050 CAS: 119422-08-1 HR: 3
1,4-BUTANEDIAMINE, N,N'-BIS(4-(ETHYL-AMINO) BUTYL)-

mf: $\text{C}_{16}\text{H}_{38}\text{N}_4$ mw: 286.58

SYNS: N,N'-BIS(4-(ETHYLAMINO)BUTYL)-1,4-BUTANEDIAMINE □ N¹,N¹⁴-BIS(ETHYL)HOMO-SPRINE □ N¹,N¹⁴-DIETHYLHOMO-SPRINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:325 mg/kg JMCAR 37,346,94

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

BOS100 CAS: 2425-79-8 HR: 2

1,4-BUTANE DIGLYCIDYL ETHER

mf: C₁₀H₁₈O₄ mw: 202.28

SYNS: ARALDIT DY 026 □ 1,4-BIS(2,3-EPOXYPROPOXY) BUTANE □ 1,4-BIS(GLYCIDYLOXY)BUTANE □ BUTANE, 1,4-BIS(2,3-EPOXYPROPOXY)- □ BUTANEDIOL DIGLYCIDYL ETHER □ BUTANE-1:4-DIOL DIGLYCIDYL ETHER □ 1,4-BUTANEDIOL DIGLYCIDYL ETHER □ 2,2'-(1,4-BUTANE-DIYLBIS(OXYMETHYLENE))BISOXIRANE □ CD 15006 A □ CHS-RR2 □ 1,4-DIGLYCIDLOXYBUTANE □ GRILONIT RV 1806 □ OXIRANE, 2,2'-(1,4-BUTANEDIYLBIS(OXYMETHYL-ENE))BIS-(9CI) □ TK 10352

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H MOD AMIHAB 20,390,59

eye-rbt 100 mg MOD AMIHAB 20,390,59

mno-sat 333 µg/plate MUREAV 172,105,86

uns-bac-esc 300 µmol/L MUREAV 231,205,90

slt-dmg-orl 28,400 ppm EMMUEG 23,51,94

trn-oin-dmg-orl 28 ppb EMMUEG 23,51,94

cyt-rat-ipr 100 mg/kg BJPCAL 6,235,51

sce-ham:lng 6250 nmol/L MUREAV 249,55,91

orl-rat LD50:1134 mg/kg TSCAT* OTS0206386

skn-rbt LD50:1130 mg/kg AMIHAB 20,390,59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Mutation data reported. A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

BOS250 CAS: 584-03-2 HR: 2

1,2-BUTANEDIOL

mf: C₄H₁₀O₂ mw: 90.14

PROP: D: 1.0, vap d: 3.1, bp: 194°, flash p: 194°F.

SYN: 1,2-BUTYLENE GLYCOL

TOXICITY DATA with REFERENCE:

orl-mus LD50:3720 mg/kg TXAPA9 49,385,79

orl-mus LD50:3720 mg/kg TXAPA9 49,385,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BOS500 CAS: 107-88-0 HR: 1

1,3-BUTANEDIOL

mf: C₄H₁₀O₂ mw: 90.14

PROP: Viscous liquid. Bp: 207.5°, fp: <-50°, flash p: 250°F, d: 1.006 @ 20°/20°, autoign temp: 741°F, vap press: 0.06 mm @ 20°, vap d: 3.2.

SYNS: 1,3-BUTANDIOL (GERMAN) □ BUTANE-1,3-DIOL □ β-BUTYLENE GLYCOL □ 1,3-BUTYLENE GLYCOL (FCC) □ 1,3-DIHYDROXYBUTANE □ METHYLTRIMETHYLENE GLYCOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,207,86

eye-rbt 505 mg AJOPAA 29,1363,46

eye-rbt 500 mg/24H MLD 85JCAE -,207,86

orl-rat LD50:18,610 mg/kg JIDHAN 23,259,41

scu-rat LD50:20 g/kg NPRI* 1,14,74

orl-mus LD50:12,980 mg/kg JAPMA8 45,669,56

orl-gpg LD50:11 g/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion and subcutaneous routes. A skin and eye irritant. See also ETHYLENE GLYCOL. Experimental reproductive effects. Combustible when exposed to heat or flame. Incompatible with oxidizing materials. To fight fire, use foam, alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

BOS750 CAS: 110-63-4 HR: 3

1,4-BUTANEDIOL

mf: C₄H₁₀O₂ mw: 90.14

PROP: Nearly odorless, colorless, viscous liquid or crystals; to needles on chilling. Mp: 16°, bp: 230°, flash p: 250°F (OC), d: 1.02 @ 20°, vap d: 3.1.

SYNS: BUTANE-1,4-DIOL □ 1,4-BUTYLENE GLYCOL □ 1,4-DIHYDROXYBUTANE □ 1,4-TETRAMETHYLENE GLYCOL

TOXICITY DATA with REFERENCE:

unr-wmn LDLo:300 mg/kg;BAH PHARAT 3,110,48

rec-man LDLo:429 mg/kg PHARAT 3,110,48

orl-rat LD50:1525 mg/kg HYSAAV 33,41,68

ipr-rat LD50:1370 mg/kg TXAPA9 25,461,73

orl-mus LD50:2062 mg/kg HYSAAV 33,41,68

ipr-mus LDLo:500 mg/kg CBCCT* 3,363,51

orl-rbt LD50:2531 mg/kg HYSAAV 33,41,68

orl-gpg LD50:1200 mg/kg HYSAAV 33,41,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A human poison by an unspecified route. Moderately toxic by ingestion and intraperitoneal routes. Human systemic effects: altered sleep time. Combustible when exposed to heat or flame. To fight fire, use alcohol foam, mist, foam, CO₂, dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes.

BOT000 CAS: 513-85-9 HR: 1

2,3-BUTANEDIOL

mf: C₄H₁₀O₂ mw: 90.14

PROP: Colorless liquid or solid. Bp: 180°, fp: 19°, flash p: 185°F (TOC), d: 1.0095 @ 20°/20°, autoign temp: 756°F, vap press: 0.17 mm @ 20°, vap d: 3.1.

SYNS: 2,3-BUTYLENE GLYCOL □ 2,3-DIHYDROXYBUTANE □ DIMETHYLENE GLYCOL

TOXICITY DATA with REFERENCE:

orl-mus LD50:5462 mg/kg TXAPA9 49,385,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. See also ETHYLENE GLYCOL. Flammable when exposed to

heat or flame. Incompatible with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

BOT200 CAS: 4437-85-8 HR: 1
1,2-BUTANEDIOL, CYCLIC CARBONATE

mf: C₅H₈O₃ mw: 116.13

SYNS: 1,2-BUTYLENE CARBONATE □ CARBONIC ACID, CYCLIC ETHYLETHYLENE ESTER □ 1,3-DIOXOLAN-2-ONE, 4-ETHYL-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD JACTDZ 1,12,90

eye-rbt 100 mg MLD JACTDZ 1,12,90

orl-rat LD50:>5 g/kg JACTDZ 1,11,90

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

BOT250 CAS: 55-98-1 HR: 3
1,4-BUTANEDIOL DIMETHYL SULFONATE

mf: C₆H₁₄O₆S₂ mw: 246.32

PROP: White crystals or needles. Mp: 116°.

SYNS: 1,4-BIS(METHANESULFONOXY)BUTANE □ (1,4-BIS(METHANESULFONYLOXY)BUTANE) □ BISULFAN □ BISULPHANE □ 1,4-BUTANEDIOL DIMETHANESULPHONATE □ BUZULFAN □ C.B. 2041 □ CITOSULFAN □ 1,4-DIMESYLOXY BUTANE □ 1,4-DIMETHANESULFONOXYBUTANE □ 1,4-DI(METHANESULFONYLOXY)BUTANE □ 1,4-DIMETHANE SULPHONYLOXYBUTANE □ 1,4-DIMETHYLSULFONOXY BUTANE □ GT41 □ GT 2041 □ LEUCOSULFAN □ MABLIN □ METHANESULFONIC ACID TETRAMETHYLENE ESTER □ MIELUCIN □ MISULBAN □ MITOSTAN □ MYELOLEUKON □ MYLERAN □ NCI-C01592 □ NSC-750 □ SULPHABUTIN □ TETRAMETHYLENE BIS(METHANESULFONATE) □ TETRAMETHYLENE DIMETHANE SULFONATE □ X 149

TOXICITY DATA with REFERENCE:

mno-sat 333 µg/plate ENMUDM 8(Suppl 7),1,86

mma-esc 25 µg/plate TAKHAA 44,96,85

orl-wmn TDLo:80 mg/kg/8Y:EYE,GIT JAMAAP 238,1951,77

orl-man TDLo:8 mg/kg/2D-I:CNS LANCAO 2,1463,84

ipr-rat LD50:18 mg/kg BCPA6 1,39,58

scu-rat LD50:22 mg/kg KSRNAM 5,1894,71

ivn-rat LD50:1800 µg/kg ARZNAD 20,1467,70

orl-mus LD50:110 mg/kg KSRNAM 5,1894,71

ipr-mus LD50:86 mg/kg KSRNAM 5,1894,71

scu-mus LD50:63 mg/kg KSRNAM 5,1894,71

ivn-dog LDLo:8 mg/kg CCSUBJ 2,203,65

ivn-mky LDLo:8 mg/kg CCSUBJ 2,203,65

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 7,137,87; Animal Inadequate Evidence IMEMDT 4,247,74; Human Inadequate Evidence IMEMDT 4,247,74. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen producing leukemia, kidney, and uterine tumors. Experimental neoplastigenic and tumorigenic data. Poison by ingestion, subcutaneous, intraperitoneal, intravenous, and possibly other routes. Ingestion by pregnant women can cause cancer of the reproductive system of the fetus including the uterus. Human teratogenic effects by ingestion and possibly other routes include developmental abnormalities

of the eye, ear, craniofacial area including the nose and tongue, gastrointestinal system, endocrine system, urogenital system, and other unspecified areas. Other human reproductive effects by ingestion and possibly other routes include: impotence, changes in the uterus, cervix, and vagina, and menstrual-cycle disorders. Experimental reproductive effects. Human systemic effects by ingestion: general arteriolar or venous dilation of the eye, changes in structure or function of salivary glands. When heated to decomposition it emits toxic fumes of SO_x. See also SULFONATES.

BOT500 CAS: 431-03-8 HR: 3
2,3-BUTANEDIONE

DOT: UN 2346

mf: C₄H₆O₂ mw: 86.10

CH₃CO•CO•CH₃

PROP: Greenish-yellow liquid; strong odor. Bp: 88°, flash p: 80°F, d: 0.9904 @ 15°/15°, refr index:

1.393–1.397, vap d: 3.00. Misc in alc, fixed oils, propylene glycol; sol in glycerin, alc, water.

SYNS: BIACETYL □ BUTADIONE □ BUTANEDIONE (DOT) □ DIACETYL (FCC) □ 2,3-DIKETOBUTANE □ DIMETHYL DIKETONE □ DIMETHYLGLYOXAL □ GLYOXAL, DIMETHYL- □ FEMA No. 2370

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17(Suppl),695,79

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

oms-hmn:emb 20 mg/L BEXBAN 74,828,72

ipr-rat LD50:400 mg/kg FCTXAV 7,571,69

orl-mus LD50:250 mg/kg FRZKAP (1),44,83

orl-gpg LD50:990 mg/kg FCTXAV 2,327,64

orl-mam LD50:720 mg/kg RPTOAN 48,186,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. A skin irritant. Human mutation data reported. Flammable liquid. Dangerous fire hazard when exposed to heat or flame. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also KETONES.

BOT600 CAS: 16580-04-4 HR: 1
BUTANEDIPEROXOIC ACID DI-tert-BUTYL ESTER

mf: C₁₂H₂₂O₆ mw: 262.30

SYN: BUTANEDIPEROXOIC ACID, BIS(1,1-DIMETHYLETHYL) ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD50:5300 mg/kg VCVGK*,546,1994

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

BOU100 CAS: 60548-62-1 HR: D
1,4-BUTANEDIOL SULFAMATE

mf: C₄H₁₂N₂O₆S₂ mw: 248.30

SYNS: 1,4-BUTANEDIOL, BISSULFAMATE (ester) □ SULFAMIC ACID, TETRAMETHYLENE ESTER

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

**BOU250 CAS: 1633-83-6 HR: 3
BUTANE SULTONE**

mf: $\text{C}_4\text{H}_8\text{O}_3\text{S}$ mw: 136.18

PROP: Liquid. D: 1.33 @ 20°/4°, mp: 12.5–14.5°, bp: 134–136° @ 4 mm.

SYNS: BUTANESULFONE □ Δ-BUTANE SULTONE □ 1,4-BUTANESULTONE (MAK) □ 1,4-BUTYLENE SULFONE □ Δ-VALEROSULTONE

TOXICITY DATA with REFERENCE:

mmo-sat 100 µg/plate JNCIAM 62,893,79

dnr-esc 10 µL/disc JNCIAM 62,873,79

hma-mus/sat 138 mg/kg JNCIAM 62,911,79

orl-rat TDLo:1300 mg/kg/1Y-I:ETA,REP ZEKBAI 75,69,70

orl-rat LD50:500 mg/kg ZEKBAI 75,69,70

scu-rat LD50:350 mg/kg ZEKBAI 75,69,70

ivn-rat LD50:270 mg/kg ZEKBAI 75,69,70

ipr-mus LD50:138 mg/kg JJIND8 62,911,79

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

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Suspected carcinogen with experimental tumorigenic data. Poison by subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. Experimental reproductive effects. Human mutation data reported. See also SULFONATES. When heated to decomposition it emits toxic fumes of SO_x .

**BOU300 CAS: 3289-23-4 HR: D
1,3-BUTANESULTONE**

mf: $\text{C}_4\text{H}_8\text{O}_3\text{S}$ mw: 136.18

SYNS: γ-BUTANE SULTONE □ 1-BUTANESULFONIC ACID, 3-HYDROXY-, γ-SULTONE □ 5-METHYL-1,2-OXATHIOLANE 2,2-DIOXIDE □ 1,2-OXATHIOLANE, 5-METHYL-, 2,2-DIOXIDE

TOXICITY DATA with REFERENCE:

mic-ssp 18 mmol/L ADWMAX-,193,1962

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

**BOU500 CAS: 1703-58-8 HR: 2
1,2,3,4-BUTANETETRACARBOXYLIC ACID**

mf: $\text{C}_8\text{H}_{10}\text{O}_8$ mw: 234.18

SYN: BUTANETETRACARBOXYLIC ACID

TOXICITY DATA with REFERENCE:

eye-rbt 100 µg SpiEW# 13FEB80

orl-rat LD50:1720 mg/kg SpiEW# 13FEB80

skn-rbt LDLo:8000 mg/kg SpiEW# 13FEB80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**BOU550 CAS: 36169-16-1 HR: 2
1-BUTANETHIOL, TIN(2+) SALT**

mf: $\text{C}_4\text{H}_{10}\text{S} \cdot 1/2\text{Sn}$ mw: 149.54

SYN: ESTABEX S

TOXICITY DATA with REFERENCE:

orl-mus LD50:690 mg/kg ERNFA7 11,424,66

OSHA PEL: TWA 2 mg(Sn)/m³

ACGIH TLV: TWA 2 mg(Sn)/m³

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x and Sn.

**BOU700 CAS: 6659-60-5 HR: 3
1,2,4-BUTANETRIOL TRINITRATE**

mf: $\text{C}_4\text{H}_7\text{N}_3\text{O}_9$ mw: 241.14

SYN: 1,2,4-BUTANETRIOL, TRINITRATE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden

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

**BOV000 CAS: 96-48-0 HR: 2
4-BUTANOLIDE**

mf: $\text{C}_4\text{H}_6\text{O}_2$ mw: 86.10

PROP: Colorless liquid; mild caramel odor. Mp: −44°, bp: 203–204°, flash p: 209°F (OC), d: 1.441 @ 0°, refr index: 1.434–1.454 @ 25°, vap d: 3.0. Misc in H_2O .

SYNS: γ-6480 □ γ-BL □ BLO □ BLON □ BUTYRIC ACID LACTONE □ α-BUTYROLACTONE □ γ-BUTYROLACTONE (FCC) □ BUTYRYL LACTONE □ 4-DEOXYTETRONIC ACID □ DIHYDRO-2(3H)-FURANONE □ FEMA No. 3291 □ 4-HYDROXY BUTANOIC ACID LACTONE □ γ-HYDROXYBUTYRIC ACID CYCLIC ESTER □ 4-HYDROXYBUTYRIC ACID γ-LACTONE □ γ-HYDROXYBUTYROLACTONE □ NCI-C55878 □ TETRAHYDRO-2-FURANONE

TOXICITY DATA with REFERENCE:

dnd-bcs 20 µL/disc PMRSDJ 1,175,81

otr-ham:kdy 25 mg/L PMRSDJ 1,638,81

orl-rat LD50:1540 mg/kg GTPZAB 31(1),49,87

ipr-rat LD50:1000 mg/kg AITEAT 13,70,65

orl-mus LD50:1720 mg/kg GTPZAB 31(1),49,87

ipr-mus LD50:1100 mg/kg AITEAT 13,70,65

ivn-rbt LDLo:500 mg/kg AITEAT 13,70,65

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal No Evidence IMEMDT 11,231,76. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, intravenous, and intraperitoneal routes. An experimental teratogen. Other experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data by skin contact. Mutation data reported. Less acutely toxic than β-propiolactone. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, alcohol foam, CO_2 , dry chemical. Potentially explosive reaction with butanol + 2,4-dichlorophenol + sodium hydroxide. When heated to decomposition it emits acrid and irritating fumes.

**BOV625 CAS: 4154-69-2 HR: 3
2-BUTANONE OXIME HYDROCHLORIDE**

mf: $\text{C}_4\text{H}_{10}\text{ClNO}$ mw: 123.58

SYN: (2-HYDROXYLIMINIOBUTANE CHLORIDE)

SAFETY PROFILE: Decomposes violently above 50°C. When heated to decomposition it emits toxic fumes of Cl⁻ and NO_x.

BOV700
BUTAN-3-ONE-2-YL BUTYRATE

mf: C₈H₁₄O₃ mw: 158.19

PROP: White to slightly yellow liquid; red berry odor. D: 0.972–0.992, refr index: 1.408–1.429. Sol in alc, propylene glycol, most oils; insol in water.

SYN: FEMA No. 3332

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

BOV750 **CAS: 129-18-0** **HR: 3**
BUTAZOLIDINE SODIUM

mf: C₁₉H₂₀N₂O₂•Na mw: 331.40

SYNS: 4-BUTYL-1,2-DIPHENYL-3,5-PYRAZOLIDINEDIONE SODIUM SALT □ 3,5-DIOXO-1,2-DIPHENYL-4-N-BUTYLPYRAZOLIDIN SODIUM □ DIPHENYLDIOXOBUTYLPYRAZOLIDINE-BUTAZOLIDINE-SODIUM □ PHENYLBUTAZONE SODIUM □ SODIUM BUTAZOLIDINE □ SODIUM PHENYLBUTAZONE □ SODIUM SALT of PHENYLBUTAZONE

TOXICITY DATA with REFERENCE:

orl-wmn LDLo:16 mg/kg AIMEAS 39,1096,53
scu-rat LD50:360 mg/kg ARZNAD 8,229,58
orl-mus LD50:476 mg/kg RPOBAR 2,314,70
ipr-mus LD50:169 mg/kg RPOBAR 2,314,70
ivn-rat LD50:113 mg/kg FRPSAX 13,922,58
scu-mus LD50:271 mg/kg FRPSAX 12,521,57
ivn-mus LD50:94 g/kg FRPSAX 13,922,58

SAFETY PROFILE: A human poison by ingestion. Human systemic effects by ingestion: respiratory system damage, agranulocytosis, and dermatitis. An experimental poison via subcutaneous, intravenous, and intraperitoneal routes. An anti-inflammatory drug. When heated to decomposition it emits toxic fumes of NO_x and Na₂O.

BOV800 **HR: 3**
BUTEA FRONDOSA, seed extract

PROP: Indian plant belonging to the family Leguminosae (IJEBA6 11,43,73).

SYN: PALASH SEED EXTRACT

TOXICITY DATA with REFERENCE:

orl-mus LD50:7500 mg/kg IJPPAZ 13,239,69
ipr-mus LD50:20 mg/kg IJEBA6 11,43,73

SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects.

BOV810 **CAS: 93333-82-5** **HR: 2**
BUTEA MONO-SPRA (LAM.) KUNTZE, FLOWER EXTRACT

SYN: BUTEA FRONDOSA, FLOWER PETALS, ALCOHOLIC EXTRACT

TOXICITY DATA with REFERENCE:

ipr-mus LD50:500 mg/kg JOETD7 71,65,2000

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

BOV825 **CAS: 5716-20-1** **HR: 3**
BUTEDRIN

mf: C₂₄H₃₈N₂O₄•H₂O₄S mw: 516.72

SYNS: BAMETAN SULFATE □ BAMETHAN SULFATE □ BASCURAT □ BUPATOL □ BUTIBATOL □ α-(BUTYLAMINO) METHYL)-p-HYDROXYBENZYL ALCOHOL SULFATE □ BUTYLNORSYMPATOL □ CYCLATE □ ECLERIN □ GARMIAN □ PERIPHETOL □ ROTESAR □ VASCULAT □ VASCULIT □ VASCUNICOL □ VASKULAT

TOXICITY DATA with REFERENCE:

ipr-mus LD50:210 mg/kg NIIRDN 6,585,82
scu-mus LD50:422 mg/kg NIIRDN 6,585,82
ivn-mus LD50:72 mg/kg NIIRDN 6,585,82

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by subcutaneous route. A vasodilator. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also SULFATES.

BOW250 **CAS: 25167-67-3** **HR: 3**
1-BUTENE

mf: C₄H₈ mw: 56.11

PROP: A colorless, flammable gas; sltly aromatic odor. Bp: -6.3°, fp: -185.3°, lel: 1.6%, uel: 9.3%, flash p: -80° (-112°F), d: 0.668 @ 0°/1°, vap d: 1.93, vap press: 3480 mm @ 21°, autoign temp: 723°F.

SYNS: BUTYLENE □ α-BUTYLENE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A simple asphyxiant. Very dangerous fire hazard when exposed to heat, flame, or oxidizers. To fight fire, stop flow of gas. Moderately explosive when exposed to flame. Mixtures with aluminum tetrahydroborate explode after an induction period. When heated to decomposition it emits acrid smoke and fumes.

BOW255 **CAS: 107-01-7** **HR: 2**
2-BUTENE

mf: C₄H₈ mw: 56.12

SYNS: β-BUTYLENE □ PSEUDOBUTYLENE

TOXICITY DATA with REFERENCE:

ihl-mus LC50:425 ppm 85JCAE -,12,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BOW500 **HR: 3**
cis-2-BUTENE

mf: C₄H₈ mw: 56.11

PROP: Colorless, flammable gas; sltly aromatic odor. Bp: 1°, fp: -139°, flash p: -100°F, d: 0.627 @ 15.5°/15.5°, vap press: 1410 mm @ 21°, autoign temp: 615°F, lel: 1.7%, uel: 9.0%, vap d: 1.9.

SYNS: DIMETHYLETHYLENE □ PSEUDO-BUTYLENE

SAFETY PROFILE: A simple asphyxiant. Very dangerous fire hazard when exposed to heat or flame. Very likely to explode. Incompatible with oxidizing materials. To fight fire, stop flow of gas. When heated to decomposition it emits acrid smoke and fumes.

BOW750**HR: 3****trans-2-BUTENE**mf: C₄H₈ mw: 56.11**PROP:** A colorless, flammable gas; sltly aromatic odor.

Bp: 2.5°, fp: -105.6°, flash p: -100°F, d: 0.613 @ 15.5°/15.5°, vap d: 1.95, vap press: 1592 mm @ 21°, autoign temp: 615 F, lel: 1.8%, uel: 9.7%, vap d: 1.9.

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.**SAFETY PROFILE:** A simple asphyxiant. Very dangerous fire hazard when exposed to heat or flame. Very likely to explode. To fight fire, stop flow of gas. Incompatible with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes.**BOW800****CAS: 3675-13-6****HR: D****2-BUTENEDIAL, (Z)-**mf: C₄H₄O₂ mw: 84.07**SYN:** cis-2-BUTENE-1,4-DIAL**TOXICITY DATA with REFERENCE:**

mic-sat 1.4 µmol/plate/30M CRTOE 13,531,2000

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**BOX250****CAS: 10099-70-4****HR: 2****2-BUTENEDIOIC ACID BIS(1-METHYLETHYL) ESTER**mf: C₁₀H₁₆O₄ mw: 200.26**TOXICITY DATA with REFERENCE:**

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

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

orl-rat LD50:2140 mg/kg AMIHC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A skin and eye irritant. See also ESTERS. When heated to decomposition it emits acrid smoke and irritating fumes.**BOX300****CAS: 110-64-5****HR: 3****2-BUTENE-1,4-DIOL**mf: C₄H₈O₂ mw: 88.12**SYNS:** AGRISYNTH B2D □ 2-BUTENE, 1,4-DIHYDROXY- □ 1,4-DIHYDROXY-2-BUTENE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1250 mg/kg GAFCC*

ipr-rat LD50:327 mg/kg JPPMAB 26,597,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**BOX500****CAS: 109-75-1****HR: 3****3-BUTENE NITRILE**mf: C₄H₅N mw: 67.10**PROP:** Colorless liquid, onion-like odor. Bp: 116-119°, d: 0.8341 @ 20°/4°, mp: -87°.**SYNS:** ALLYL CYANIDE □ ALLYLNITRILE □ 1-BUTENE-4-NITRILE □ β-BUTENONITRILE □ TL 350 □ VINYLACETO-NITRILE**TOXICITY DATA with REFERENCE:**

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

orl-rat LD50:115 mg/kg AIHAAP 30,470,69

scu-rat LD50:150 mg/kg 85GMAT -,18,82

skn-rbt LD50:1410 mg/kg AIHAAP 23,95,62

ihl-gpg LC50:2500 mg/m³/4H GISAAA 34(4),36,69**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory. Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** A poison by ingestion and subcutaneous routes. Moderately toxic by inhalation and skin contact. Experimental reproductive effects. A skin irritant. See also NITRILES. Dangerous; emits highly toxic fumes of NO_x and CN⁻ when heated to decomposition or on contact with acids or acid fumes. To fight fire, use alcohol foam, mist.**BOX600****CAS: 1190-76-7****HR: 3****cis-2-BUTENENITRILE**mf: C₄H₅N mw: 67.10**SYNS:** 2-BUTENENITRILE, (Z)- □ CROTONONITRILE, (Z)- (8CI)

□ cis-CROTONONITRILE □ (Z)-CROTONONITRILE □ cis-CYANOPROPENE □ ISOCROTONIC NITRILE □ ISOCROTONO NITRILE (6CI,7CI) □ cis β-METHYLACRYLONITRILE □ cis-1-PROPENYL CYANIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:167 mg/kg GISAAA 37(4),10,72

orl-mus LD50:184 mg/kg GISAAA 37(4),10,72

orl-gpg LD50:216 mg/kg GISAAA 37(4),10,72

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**BOX750****CAS: 106-88-7****HR: 3****1-BUTENE OXIDE****DOT:** UN 3022mf: C₄H₈O mw: 72.12**PROP:** Colorless liquid. D: 0.8312 @ 20°/20°, bp: 63°, flash p: 5°F, lel: 1.5%, uel: 18.3%. Sol in water; misc with most org solvs.**SYNS:** BUTYLENE OXIDE □ 1,2-BUTYLENE OXIDE □ 1,2-BUTYLENE OXIDE, stabilized (DOT) □ EPOXYBUTANE □ 1,2-EPOXYBUTANE □ ETHYLENE OXIDE, ETHYL- □ ETHYL ETHYLENE OXIDE □ ETHYLOXIRANE □ NCI-C55527**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD 85JCAE -,770,86

eye-rbt 100 mg/24H MOD 85JCAE -,770,86

mmo-klp mmol/L MUREAV 89,269,81

trn-dmg-orl 5 pph ENMUDM 7,349,85

mma-ssp 1600 µmol/L TCMUD8 3,75,83

orl-rat LD50:500 mg/kg NTIS** PB81-168510

ihl-rat LCLo:4000 ppm/4H AIHAAP 23,95,62

skn-rbt LD50:2100 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: NTP Carcinogenesis Studies (inhalation); Clear Evidence: rat; No Evidence: mouse NTPTR* NTP-TR-329,88. Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.**DFG MAK:** Animal Carcinogen, Suspected Human Carcinogen**SAFETY PROFILE:** Confirmed carcinogen with experimental carcinogenic data. Moderately toxic by

ingestion and skin contact. Mildly toxic by inhalation. Experimental reproductive effects. Mutation data reported. Dangerous fire hazard when exposed to heat, flame, or powerful oxidizers. To fight fire, use dry chemical, water spray, mist or fog, alcohol foam. When heated to decomposition it emits acrid smoke and fumes.

BOX825 CAS: 16187-15-8 HR: 3

trans-2-BUTENE OZONIDE

mf: C₄H₈O₃ mw: 104.11

SYN: (3,5-DIMETHYL-1,2,4-TRIOXOLANE)

SAFETY PROFILE: May explode when heated. When heated to decomposition it emits acrid smoke and fumes. See also OZONE.

BOY000 CAS: 6117-91-5 HR: 2

2-BUTEN-1-OL

mf: C₄H₈O mw: 72.12

PROP: Colorless liquid. Mp: <30°, bp: 118°, flash p: 92°F, d: 0.8726 @ 0°/4°, vap d: 2.49.

SYNS: 2-BUTENOL □ 2-BUTENYL ALCOHOL □ CROTONYL ALCOHOL □ CROTYL ALCOHOL

TOXICITY DATA with REFERENCE:

mno-sat 10 µg/plate TCMUD8 1,259,80

orl-rat LD50:930 mg/kg AIHAAP 23,95,62

skn-rbt LD50:1270 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Mutation data reported. Dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS.

BOY250 HR: 3

1-BUTEN-3-ONE

mf: C₄H₆O mw: 70.10

PROP: Flash p: -7°C.

SAFETY PROFILE: A dangerous fire hazard. When heated to decomposition it emits acrid smoke and fumes. See also KETONES.

BOY500 CAS: 78-94-4 HR: 3

3-BUTEN-2-ONE

DOT: UN 1251

mf: C₄H₆O mw: 70.10

PROP: Colorless liquid; powerfully irritating odor. Bp: 81.4°, flash p: 20°F (CC), d: 0.8393 @ 25°/4°, vap d: 2.41.

SYNS: ACETYL ETHYLENE □ 3-BUTENE-2-ONE □ METHYL ENE ACETONE □ METHYL-VINYL-CETONE (FRENCH) □ METHYL VINYLKETON (GERMAN) □ METHYL VINYL KETONE □ γ-OXO-α-BUTYLENE □ VINYL METHYL KETONE

TOXICITY DATA with REFERENCE:

mno-sat 250 µmol/L MUREAV 93,305,82

mna-sat 250 µmol/L MUREAV 93,305,82

orl-rat LD50:31 mg/kg 85GMAT -,88,82

ihl-rat LC50:7 mg/m³/4H 85GMAT -,88,82

orl-mus LD50:33 mg/kg 85GMAT -,88,82

ipr-mus LD50:76 mg/kg ZolH## 23OCT75

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

ACGIH TLV: STEL CL 0.2 ppm (skin, sensitizer)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by ingestion, inhalation, and intraperitoneal routes. A severe irritant to skin, eyes, and mucous membranes. A lachrymator. Mutation data reported. See also KETONES. Dangerous fire hazard when exposed to heat, flame, or oxidizers. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

BPA250 CAS: 14746-03-3 HR: 3

2-BUTEN-1-YL DIAZOACETATE

mf: C₆H₈N₂O₂ mw: 140.14

N₂CHCO•OCH₂CH=CHCH₃

SAFETY PROFILE: Potentially explosive. When heated to decomposition it emits toxic fumes of NO_x. See also other diazo compounds.

BPA500 CAS: 2237-92-5 HR: 3

5-(1-BUTENYL)-5-ETHYLBARBITURIC ACID

mf: C₁₀H₁₄N₂O₃ mw: 210.26

TOXICITY DATA with REFERENCE:

orl-mus LD50:320 mg/kg JACSAT 62,1199,40

ipr-mus LD50:225 mg/kg JACSAT 62,1199,40

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

BPA750 CAS: 67050-00-4 HR: 3
5-(2-BUTENYL)-5-ETHYL-2-THIOBARBITURIC ACID SODIUM SALT

mf: C₁₀H₁₃N₂O₂S•Na mw: 248.30

TOXICITY DATA with REFERENCE:

ipr-rat LD50:123 mg/kg JAPMA8 34,183,45

ivn-rbt LD50:53 mg/kg JAPMA8 34,183,45

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x, Na₂O, and SO_x. See also BARBITURATES.

BPB500 CAS: 67050-04-8 HR: 3

5-(1-BUTENYL)-5-ISOPROPYLBARBITURIC ACID

mf: C₁₁H₁₆N₂O₃ mw: 224.29

TOXICITY DATA with REFERENCE:

orl-mus LD50:300 mg/kg JACSAT 62,1199,40

ipr-mus LD50:250 mg/kg JACSAT 62,1199,40

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

BPC500 CAS: 67050-11-7 HR: 3

5-(2-BUTENYL)-5-(1-METHYLBUTYL)-2-THIOBARBITURIC ACID SODIUM SALT

mf: C₁₃H₁₉N₂O₂S•Na mw: 290.39

TOXICITY DATA with REFERENCE:

ipr-rat LD50:341 mg/kg JAPMA8 34,183,45

ivn-rbt LD50:49 mg/kg JAPMA8 34,183,45

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

BPC600 **HR: 2**
3-(3-BUTENYLNITROSAMINO)-1-PROPANOL

mf: $\text{C}_7\text{H}_{14}\text{N}_2\text{O}_2$ mw: 158.23

SYN: BUTENYL(3-HYDROXYPROPYL)NITROSAMINE

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

BPC750 **HR: 2**
2-BUTENYLPHENOL (mixed isomers)

mf: $\text{C}_{10}\text{H}_{12}\text{O}$ mw: 148.22

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H SEV AMIHBC 4,119,51

eye-rbt 50 μg SEV AMIHBC 4,119,51

orl-rat LD50:410 mg/kg AMIHBC 4,119,51

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

BPD000 **CAS: 54746-50-8** **HR: 2**
3-BUTENYL-(2-PROPENYL)-N-NITROSAMINE

mf: $\text{C}_7\text{H}_{12}\text{N}_2\text{O}$ mw: 140.21

SYN: N-ALLYL-N-NITROSO-3-BUTENYLAMINE

TOXICITY DATA with REFERENCE:

mno-sat 250 μg /plate MUREAV 68,195,79

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

BPE109 **CAS: 689-97-4** **HR: 3**
BUTEN-3-YNE

mf: C_4H_4 mw: 52.08



PROP: Gas with acetylene-like odor. Flash p: $<-5^\circ$, lel: 2%, uel: 100% d: 0.68 @ 1.7 atm, vap d: 1.8, bp: $2-3^\circ$.

SYN: VINYL ACETYLENE

TOXICITY DATA with REFERENCE:

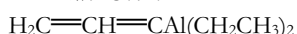
ihl-mus LC50:97,200 mg/ $\text{m}^3/2\text{H}$ 85GMAT-,119,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by inhalation. Forms explosive peroxides with air or oxygen. Very exothermic decomposition when heated. Reacts explosively when heated with 1,3-butadiene or oxygen. Reacts with silver nitrate to form the explosive silver buten-3-ynide. When heated to decomposition it emits acrid smoke and irritating fumes. See also ACETYLENE COMPOUNDS.

BPE250 **HR: 3**
3-BUTEN-1-YNYL DIETHYL ALUMINUM

mf: $\text{C}_8\text{H}_{13}\text{Al}$ mw: 137.17



SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits acrid smoke and fumes. See also ALUMINUM COMPOUNDS.

BPE500 **HR: 3**
3-BUTEN-1-YNYL DIISOBUTYL ALUMINUM

mf: $\text{C}_{12}\text{H}_{21}\text{Al}$ mw: 189.3

SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits acrid smoke and fumes. See also ALUMINUM COMPOUNDS.

BPE750 **HR: 3**
2-BUTEN-1-YNYL TRIETHYL LEAD

mf: $\text{C}_{10}\text{H}_{18}\text{Pb}$ mw: 341.41

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

SAFETY PROFILE: Explodes when heated rapidly. See also LEAD COMPOUNDS.

BPE800 **CAS: 83730-53-4** **HR: D**
1-BUTHIONINE-(S,R)-SULFOXIMINE

mf: $\text{C}_8\text{H}_{18}\text{N}_2\text{O}_3\text{S}$ mw: 222.34

SYNS: BUTANOIC ACID, 2-AMINO-4-(S-BUTYLSULFONIMIDOYL)-, (2S)- □ 1-BUTHIONINE SULFOXIMINE □ NSC 326231

TOXICITY DATA with REFERENCE:

dni-hmn-lng 10 mmol/L CBTOE2 7,249,1991

sce-ipr-mus 200 mg/kg MUREAV 413,227,1998

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

BPF000 **CAS: 125-40-6** **HR: 3**
BUTISOL

mf: $\text{C}_{10}\text{H}_{16}\text{N}_2\text{O}_3$ mw: 212.28

PROP: Bitter-tasting microcrystal powder. Mp: $165-168^\circ$. Sltly sol in H_2O .

SYNS: BUTABARB □ BUTABARBITAL □ BUTABARBITONE □ BUTATAB □ BUTATAL □ BUTICAPS □ BUTRATE □ 5-sec-BUTYL-5-ETHYLBARBITURIC ACID □ 5-sec-BUTYL-5-ETHYLMALONYL UREA □ 5-ETHYL-5-(1-METHYLPROPYL)-BARBITURATE □ 5-ETHYL-5-(1-METHYLPROPYL)BARBITURIC ACID □ 5-ETHYL-5-(1-METHYLPROPYL)-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE (9CI) □ MEDARSED □ NILOX □ SECBUBARBITAL □ SECBUTA BARBITAL □ SECBUTOBARBITONE □ UNICELLES

TOXICITY DATA with REFERENCE:

ipr-rat LD50:70 mg/kg JPETAB 44,325,32

scu-rat LDLo:140 mg/kg JACSAT 52,2440,30

ipr-mus LDLo:200 mg/kg JACSAT 58,731,36

ivn-mus LD50:175 mg/kg AIPTAK 132,164,61

orl-rbt LD50:140 mg/kg JPETAB 44,325,32

ipr-rbt LD50:75 mg/kg JPETAB 44,325,32

scu-rbt LDLo:200 mg/kg JACSAT 45,243,23

ivn-rbt LDLo:90 mg/kg JPPGAR 30,364,32

SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. A central nervous system depressant. When heated to decomposition it emits toxic fumes of NO_x . See also BARBITURATES.

**BPF250 CAS: 143-81-7 HR: 3
BUTISOL SODIUM**mf: $C_{10}H_{16}N_2O_3 \cdot Na$ mw: 235.27**PROP:** Bitter powder. Very sol in H_2O ; prac insol in Et_2O .**SYNS:** BUTABARBITAL SODIUM □ 5-sec-BUTYL-5-ETHYL BARBITURIC ACID SODIUM SALT □ 5-ETHYL-5-(1-METHYL PROPYL)BARBITURIC ACID SODIUM SALT □ 5-ETHYL-5-(1-METHYLPROPYL)-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE MONO SODIUM SALT □ SECBUBARBITAL SODIUM □ SODIUM BUTA BARBITAL □ SODIUM-5-sec-BUTYL-5-ETHYLBARBITURATE □ SODIUM-5-ETHYL-5-sec-BUTYLBARBITURATE □ SODIUM-5-ETHYL-5-(1-METHYLPROPYL)BARBITURATE**TOXICITY DATA with REFERENCE:**

orl-hmn LDLo:125 mg/kg CTOXAO 10,327,77
 orl-hmn TDLo:120 mg/kg; CNS, PSY BMJOAE 1,144,77
 orl-rat LD50:78 mg/kg JPETAB 81,254,44
 ipr-rat LD50:70 mg/kg JPETAB 81,254,44
 ivn-rat LD50:70 mg/kg JPETAB 81,254,44
 ipr-mus LD50:247 mg/kg JPETAB 81,254,44
 ivn-dog LD50:90 mg/kg JPETAB 81,254,44
 orl-rbt LD50:194 mg/kg JPETAB 81,254,44
 ipr-rbt LD50:95 mg/kg JPETAB 81,254,44
 ivn-rbt LD50:91 mg/kg JPETAB 81,254,44

SAFETY PROFILE: An experimental poison by ingestion, intraperitoneal, and intravenous routes. Human central nervous system and psychotropic effects by ingestion. When heated to decomposition it emits toxic fumes of NO_x and Na_2O . See also BARBITURATES.**BPF500 CAS: 77-28-1 HR: 3
BUTOBARBITAL**mf: $C_{10}H_{16}N_2O_3$ mw: 212.28**PROP:** Crystals from $EtOH$ (aq) with slightly bitter taste. Mp: 127–128°.**SYNS:** BUDORM □ BUTETHAL □ BUTOBARBITONE □ BUTOBARBITURAL □ 5-BUTYL-5-ETHYLBARBITURIC ACID □ 5-BUTYL-5-ETHYL-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE (9CI) □ 5-ETHYL-5-N-BUTYLBARBITURIC ACID □ ETOVAL □ HYPER BUTAL □ LONGANOCT □ MEONAL □ MONODORM □ NEONAL □ SONERILE □ SONERYL**TOXICITY DATA with REFERENCE:**

orl-wmn TDLo:120 mg/kg; BAH CTOXAO 2,133,69
 orl-wmn TDLo:166 mg/kg; CNS BMJOAE 1,1238,55
 ipr-rat LDLo:135 mg/kg JPETAB 44,325,32
 scu-rat LDLo:190 mg/kg JPETAB 26,371,25
 ipr-mus LD50:320 mg/kg JPETAB 89,356,47
 orl-cat LDLo:80 mg/kg JPETAB 33,43,28
 orl-rbt LDLo:100 mg/kg JPETAB 44,337,32
 ipr-rbt LDLo:115 mg/kg JPETAB 44,325,32
 scu-rbt LDLo:100 mg/kg JACSAT 45,243,23
 ivn-rbt LDLo:90 mg/kg JACSAT 57,1961,35

SAFETY PROFILE: A poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Experimental teratogenic and reproductive effects. Human systemic effects by ingestion: changes in motor activity, coma, and nausea or vomiting. A central nervous system depressant. When heated to decomposition it emits toxic fumes of NO_x . See also BARBITURATES.**BPF750 CAS: 35763-44-1 HR: 3
BUTOBARBITAL SODIUM**mf: $C_{10}H_{15}N_2O_3 \cdot Na$ mw: 234.26**SYNS:** BUTETHAL SODIUM □ BUTOBARBITONE SODIUM □ 5-BUTYL-5-ETHYL-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE MONOSODIUM SALT (9CI) □ SODIUM ETHYL-N-BUTYL BARBITURATE**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:197 mg/kg JPETAB 81,254,44
 scu-rat LDLo:190 mg/kg JACSAT 47,2236,25
 ipr-mus LDLo:275 mg/kg JPETAB 31,455,27

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x and Na_2O . See also BARBITURATES.**BPF825 CAS: 32838-28-1 HR: 2
BUTOCTAMIDE SEMISUCCINATE**mf: $C_{16}H_{29}NO_5$ mw: 315.46**SYNS:** BUTANEDIOIC ACID MONO(3-((2-ETHYLHEXYL) AMINO)-1-METHYL-3-OXOPROPYL) ESTER (9CI) □ BUTOCT AMIDE HYDROGEN SUCCINATE □ N-(2-ETHYL HEXYL)-3-HYDROXYBUTYRAMIDE HYDROGEN SUCCINATE □ N-2-ETHYLHEXYL-β-OXYBUTYRAMIDE SEMISUCCINATE □ M-2H □ SUCCINIC ACID MONOESTER with N-(2-ETHYLHEXYL)-3-HYDROXYBUTYRAMIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:12,100 mg/kg YAKUD5 24,2029,82
 ipr-rat LD50:635 mg/kg TOIZAG 18,648,71
 scu-rat LD50:3350 mg/kg TOIZAG 18,648,71
 orl-mus LD50:5600 mg/kg TOIZAG 18,648,71
 ipr-mus LD50:473 mg/kg TOIZAG 18,648,71
 scu-mus LD50:3730 mg/kg TOIZAG 18,648,71

SAFETY PROFILE: Moderately toxic by intraperitoneal, ingestion and subcutaneous routes. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x .**BPG000 CAS: 126-22-7 HR: 2
BUTONATE**mf: $C_8H_{14}Cl_3O_3P$ mw: 327.54**PROP:** Bp: 129°.**SYNS:** BUTANOIC ACID 2,2,2-TRICHLORO-1-(DIMETHOXY PHOSPHINYL)ETHYL ESTER □ BUTILCHLORO FOS □ DIMETHOXY-2,2,2-TRICHLORO-1-N-BUTYRYLOXY-ETHYL PHOSPHINE OXIDE □ O,O-DIMETHYL-(1-BUTYRYLOXY-2,2,2-TRICHLOROETHYL) PHOSPHONATE □ O,O-DIMETHYL 2,2,2-TRICHLORO-1-(N-BUTYRYLOXY)ETHYLPHOSPHONATE □ ENT 20,852 □ F-139 □ T-113 □ TRIBUFON**TOXICITY DATA with REFERENCE:**

dnd-mus-ipr 200 mg/kg PCBPBS 6,101,76
 orl-rat LD50:1100 mg/kg ARSIM* 20,6,66
 skn-rat LD50:7000 mg/kg FMCHA2 -,C40,83
 ipr-rat LD50:700 mg/kg ZHYGAM 25,512,79
 scu-rat LD50:3000 mg/kg PAREAQ 11,636,59
 orl-mus LD50:760 mg/kg ZHYGAM 25,512,79
 skn-dog LD50:3080 mg/kg ZHYGAM 25,512,79

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, intraperitoneal, subcutaneous, and possibly other routes. Mutation data reported. When heated to decomposition it emits highly toxic fumes of PO_x and Cl^- . See also ESTERS.**BPG250 CAS: 6365-83-9 HR: 3**

BUTOPHEN

mf: C₁₀H₁₂N₂O₅•H₃N mw: 257.28

SYNS: 2-sec-BUTYL-4,6-DINITROPHENOL AMMONIUM SALT
□ CHEMOX SELECTIVE □ 4,6-DINITRO-2-sec-BUTYLPHENOL-
ATE AMMONY (CZECH) □ 4,6-DINITRO-*o*-sec-BUTYLPHENOL
AMMONIUM SALT □ 4,6-DINITRO-2-sec-BUTYLPHENOL
AMMONIUM SALT □ DINOSEB (AMINE) □ DNPB AMMONIUM
SALT □ DOW SELECTIVE □ 2-(1-METHYL-N-PROPYL) 4,6-
DINITROPHENOL AMMONIUM SALT □ SELECTIVE □ SINOX
W

TOXICITY DATA with REFERENCE:

eye-rbt 50 µg/24H SEV 28ZPAK -,108,72
orl-rat LD50:45 mg/kg 28ZPAK -,108,72
skn-rat LDLo:67 mg/kg BJIMAG 26,59,69

SAFETY PROFILE: A poison by ingestion and skin contact. A severe eye irritant. When heated to decomposition it emits very toxic fumes of NH₃ and NO_x.

BPG325 CAS: 58786-99-5 HR: 3 BUTORPHANOL TARTRATE

mf: C₂₁H₂₉NO₂•C₄H₆O₆ mw: 477.61

PROP: Solid. Mp: 217–219°.

SYNS: BT □ STADOL □ TORATE □ TORBUTROL

TOXICITY DATA with REFERENCE:

orl-rat LD50:315 mg/kg IYKEDH 13,145,82
ipr-rat LD50:127 mg/kg IYKEDH 13,145,82
scu-rat LD50:425 mg/kg IYKEDH 13,145,82
ivn-rat LD50:17 mg/kg DRUGAY 16,474,78
ims-rat LD50:255 mg/kg IYKEDH 13,145,82
orl-mus LD50:395 mg/kg DRUGAY 16,474,78
ipr-mus LD50:192 mg/kg IYKEDH 13,145,82
scu-mus LD50:299 mg/kg PBPSDY 2,19,79
ivn-mus LD50:36 mg/kg IYKEDH 13,145,82
ims-mus LD50:208 mg/kg IYKEDH 13,145,82

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

BPG500 CAS: 3329-56-4 HR: 3 BUTOXY ACETYLENE

mf: C₆H₁₀O mw: 98.14

(C₄H₉)OC≡CH

PROP: Liquid. Bp: 106–108°.

SAFETY PROFILE: Explodes at 100°C when heated in a sealed container. When heated to decomposition it emits acrid smoke and fumes. See also ACETYLENE COMPOUNDS.

BPG750 CAS: 60444-92-0 HR: 3 2-N-BUTOXYBENZAMIDE

mf: C₁₁H₁₅NO₂ mw: 193.27

SYNS: H.P. 165 □ *o*-BUTOXYBENZAMIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1300 mg/kg JPPMAB 4,872,52
ipr-mus LD50:360 mg/kg JPPMAB 4,872,52

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

BPH750 CAS: 67032-45-5 HR: 3 p-BUTOXYBENZOIC ACID-3-(2-METHYLPIPERI DINO)PROPYL ESTER HYDROCHLORIDE

mf: C₂₀H₃₁NO₃•ClH mw: 369.98

SYN: C-10

TOXICITY DATA with REFERENCE:

skn-rbt 1% MLD AIPTAK 137,410,62
eye-rbt 2500 ppm MLD AIPTAK 137,410,62
ipr-mus LD50:73,600 µg/kg AIPTAK 137,410,62
scu-mus LD50:177 mg/kg JACSAT 68,2592,46
ivn-mus LD50:22 mg/kg JACSAT 68,2592,46

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous and intravenous routes. A skin and eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also ESTERS.

BPI125 CAS: 29025-14-7 HR: 3 BUTOXYBENZYL HYOSCYAMINE BROMIDE

mf: C₂₈H₃₈NO₄•Br mw: 532.58

PROP: Crystals from ethanol-acetone. Mp: 166–168°.

Also reported as white needles from isopropanol, mp: 158–160°. Freely sol in glacial acetic acid; sol in chloroform, DMF. Sparingly sol in ethanol; sltly sol in water, 0.1N HCl, 0.1N NaOH. Practically insol in acetone, ether, and benzene.

SYNS: BHB □ *p*-BUTOXYBENZYL HYOSCYAMINIUM BROMIDE □ (–)-8-(*p*-BUTOXYBENZYL)-3- α -HYDROXY-1- α -H,5- α -H-TROPANIUM BROMIDE TROPATE (ester) □ 1-(1-(*p*-n-BUTOXY BENZYL)HYOSCYAMINIUM) BROMIDE □ BUTROPIUM BROMIDE □ COLIOPAN

TOXICITY DATA with REFERENCE:

ipr-rat LD50:113 mg/kg IYKEDH 5,106,74
ivn-rat LD50:21 mg/kg IYKEDH 5,106,74
orl-mus LD50:1500 mg/kg USXXAM #3696110
scu-mus LD50:370 mg/kg NIIRDN 6,355,82
ivn-mus LD50:6400 µg/kg IYKEDH 5,106,74
ims-mus LD50:285 mg/kg NIIRDN 6,355,82
ivn-rbt LD50:6800 µg/kg OYYAA2 8,285,74

SAFETY PROFILE: Poison by subcutaneous, intramuscular, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of Br[–] and NO_x. See also BROMIDES.

BPI300 CAS: 832-06-4 HR: 2 2-BUTOXYCARBONYLMETHYLENE-4- OXOTHIAZOLIDONE

mf: C₉H₁₃NO₃S mw: 215.29

SYNS: ACETIC ACID, (4-OXO-2-THIAZOLIDINYLIDENE)-, BUTYL ESTER (9CI) □ 2-(*n*-BUTYLOXYCARBONYLMETHYLENE) THIAZOLID-4-ONE □ ICI 43823

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

BPI400 CAS: 87188-51-0 HR: 2 p-tert-BUTOXYCARBONYLOXYSTYRENE MONOMER

mf: C₁₃H₁₆O₃ mw: 220.29

SYNS: 4-BOC-STYRENE □ C-1566 □ CARBONIC ACID, 1,1-DIMETHYLETHYL 4-ETHENYLPHENYL ESTER □ 1,1-DIMETHYLETHYL 4-ETHENYLPHENYL CARBONATE □ TBSM

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL MLD NTIS** OTS0530366-1

skn-rbt LD50:>2 g/kg NTIS** OTS0530366-1

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

BP1500 CAS: 38915-40-1 HR: D
N-(2-BUTOXY-7-CHLORO BENZO)(b)-1,5-NAPHTHYRIDIN-10-(YL)-N'-(2-CHLORO-ETHYL-1,3-PROPANEDIAMINE-N'-ETHYL-)

mf: C₂₃H₂₉Cl₂N₄O mw: 448.2

SYN: ICR 355

TOXICITY DATA with REFERENCE:

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

msc-ham:ovr 1 µmol/L CNREA8 39,487,79

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

BP1625 CAS: 58763-31-8 HR: 3
4'-BUTOXY-3'-CHLORO-5'-METHYL-3-PIPERIDINO-PROPIOPHENONE HYDROCHLORIDE

mf: C₁₉H₂₈ClNO₂•ClH mw: 374.39

SYNS: 1-(4-BUTOXY-3-CHLORO-5-METHYLPHENYL)-3-(1-PIPERIDINYL)-1-PROPANONE HYDROCHLORIDE (9CI) □ β-PIPERIDINOETHYL-(3-CHLORO-4-n-BUTOXY-5-METHYLPHENYL)KETONHYDROCHLORID (GERMAN)

TOXICITY DATA with REFERENCE:

orl-mus LD50:475 mg/kg PHARAT 31,21,76

scu-mus LD50:1000 mg/kg PHARAT 31,21,76

ivn-mus LD50:43 mg/kg PHARAT 31,21,76

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

BP1750 HR: 3
4'-BUTOXY-2'-CHLORO-2-PYRROLIDINYL ACETANILIDE HYDROCHLORIDE

mf: C₁₆H₂₃ClN₂O₂•ClH mw: 347.32

SYN: C 3187

TOXICITY DATA with REFERENCE:

eye-rbt 2% SEV ARZNAD 8,270,58

ipr-rat LD50:287 mg/kg ARZNAD 8,270,58

scu-mus LD50:550 mg/kg ARZNAD 8,270,58

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

BPJ000 CAS: 41296-95-1 HR: 3
4'-BUTOXY-2-(DIETHYLAMINO)ACETANILIDE HYDROCHLORIDE

mf: C₁₆H₂₆N₂O₂•ClH mw: 314.90

SYN: C 3121

TOXICITY DATA with REFERENCE:

eye-rbt 2% MOD ARZNAD 8,270,58

ipr-rat LD50:220 mg/kg ARZNAD 8,270,58

scu-mus LD50:695 mg/kg ARZNAD 8,270,58

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. An eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

BPJ250 CAS: 77966-20-2 HR: 3
2-BUTOXY-N-(2-(DIETHYLAMINO)ETHYL)-N-(2,6-XYLYL)CINCHONINAMIDE HYDROCHLORIDE

mf: C₂₈H₃₇N₃O₂•ClH mw: 484.14

SYN: 2-BUTOXY-N-((2-DIETHYLAMINO)ETHYL)-N-(2,6-XYLYL)-4-QUINOLINECARBOXAMIDE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

eye-rbt 2% SEV ARZNAD 8,708,58

ipr-rat LD50:300 mg/kg ARZNAD 8,708,58

scu-mus-LD50:1175 mg/kg ARZNAD 8,708,58

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. A severe eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

BPJ500 CAS: 78109-80-5 HR: 3
o-BUTOXY-N-(5-(DIETHYLAMINO)-2-PENTYL)BENZAMIDE HYDROCHLORIDE

mf: C₂₀H₃₄N₂O₂•ClH mw: 371.02

SYNS: 2-BUTOXYBENZOEAEURE-4'-DIAETHYLAMINO-L'-METHYL-BUTYLAMID (1') HYDROCHLORID (GERMAN) □ D-649

TOXICITY DATA with REFERENCE:

scu-mus LD50:130 mg/kg ARZNAD 10,743,60

ivn-mus LD50:15 mg/kg ARZNAD 10,743,60

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

BPJ750 CAS: 78109-81-6 HR: 3
o-BUTOXY-N-(3-(DIETHYLAMINO)PROPYL) BENZAMIDE HYDROCHLORIDE

mf: C₁₈H₃₀N₂O₂•ClH mw: 342.96

SYNS: 2-BUTOXYBENZOEAEURE-3'-DIAETHYLAMINOPROPYLAMID-(1') HYDROCHLORID (GERMAN) □ D-638

TOXICITY DATA with REFERENCE:

ipr-mus LD50:75 mg/kg ARZNAD 10,743,60

scu-mus LD50:160 mg/kg ARZNAD 10,743,60

ivn-mus LD50:30 mg/kg ARZNAD 10,743,60

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

BPJ850 CAS: 111-76-2 HR: 3
2-BUTOXYETHANOL DOT: UN 2369

mf: C₆H₁₄O₂ mw: 118.20

PROP: Clear, mobile liquid; pleasant odor. Fp: -74.8°, bp: 171–172°, flash p: 160°F (COC), d: 0.9012 @ 20°/20°, vap press: 300 mm @ 140°. IDLH 700 ppm.

SYNS: BUCS □ BUTOKSYETYLOWY ALKOHOL (POLISH) □ 2-BUTOSSI-ETANOLO (ITALIAN) □ 2-BUTOXY-AETHANOL (GERMAN) □ BUTOXYETHANOL □ n-BUTOXYETHANOL □ 2-BUTOXY-1-ETHANOL □ BUTYL CELLOSOLVE □ o-BUTYL

ETHYLENE GLYCOL □ BUTYL GLYCOL □ BUTYLGLYCOL (FRENCH, GERMAN) □ BUTYL OXITOL □ DOWANOL EB □ EGBE □ EKTASOLVE EB □ ETHYLENE GLYCOL-*n*-BUTYL ETHER □ ETHYLENE GLYCOL MONOBUTYL ETHER (MAK, DOT) □ GAFCOL EB □ GLYCOL BUTYL ETHER □ GLYCOL ETHER EB □ GLYCOL ETHER EB ACETATE □ GLYCOL MONOBUTYL ETHER □ JEFFERSOL EB □ MONOBUTYL GLYCOL ETHER □ 3-OXA-1-HEPTANOL □ POLY-SOLV EB

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS**
 orl-wmn TDLo:600 mg/kg HUTODJ 7,187,88
 ihl-hmn TCLo:195 ppm/8H:GIT AMIHAB 14,114,56
 ihl-hmn TCLo:100 ppm:NOSE,EYE,CNS NPIRI* 1,50,74
 orl-rat LD50:470 mg/kg DOWCC* MSD-46
 ihl-rat LC50:2900 mg/m³ GTPZAB 32(3),48,88
 ipr-rat LD50:220 mg/kg 85GMAT -,67,82
 ivn-rat LD50:340 mg/kg AMIHAB 14,114,56
 ihl-mus LC50:700 ppm/7H JIHTAB 25,157,43
 scu-mus LDLo:500 mg/kg JPETAB 42,355,31
 orl-rbt LD50:300 mg/kg YKYUA6 32,1241,81
 skn-gpg LD50:230 mg/kg TXAPA9 7,559,65

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

OSHA PEL: TWA 25 ppm (skin)

ACGIH TLV: 20 ppm (skin); Confirmed Animal Carcinogen.

DFG MAK: 20 ppm (98 mg/m³)

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Poison by ingestion, skin contact, intraperitoneal, and intravenous routes. Moderately toxic via inhalation and subcutaneous routes. Human systemic effects by inhalation: nausea or vomiting, headache, unspecified eye effects. Experimental teratogenic and reproductive effects. A skin irritant. Combustible liquid when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical. Incompatible with oxidizing materials, heat, and flame. When heated to decomposition it emits acrid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Alcohols IV, 1403.

BPK250 CAS: 78-51-3 HR: 3

2-BUTOXYETHANOL PHOSPHATE

mf: C₁₈H₃₉O₇P mw: 398.54

PROP: Light-colored liquid; butyl-like odor. Mp: -70°, bp: 200–230° @ 4 mm, flash p: 435°F, d: 1.02 @ 20°/20°, vap press: 0.03 mm @ 150°, vap d: 13.8.

SYNS: KP 140 □ KRONITEX KP-140 □ PHOSFLEX T-BEP □ TBEP □ TRI(2-BUTOXYETHANOL PHOSPHATE) □ TRIBUTOXY ETHYL PHOSPHATE □ TRI(2-BUTOXYETHYL) PHOSPHATE □ TRIBUTYL CELLOSOLVE PHOSPHATE □ TRIS(2-BUTOXY ETHYL) ESTER PHOSPHORIC ACID □ TRIS(2-BUTOXYETHYL) PHOSPHATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,1142,86
 eye-rbt 500 mg/24H MLD 85JCAE -,1142,86
 orl-rat LD50:3000 mg/kg NPIRI* 2,93,75
 ivn-mus LD50:180 mg/kg CSLNX* NX#00391
 orl-gpg LD50:3000 mg/kg 29ZWAE -,336,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by ingestion. A skin and eye irritant. Combustible when exposed to heat or flame. Dangerous; see also PHOSPHATES; can react with oxidizing materials. To fight fire, use water, foam, CO₂, dry chemical. When heated to decomposition it emits toxic fumes of PO_x.

BPK500 CAS: 7251-90-3 HR: 2
2-BUTOXYETHOXY ACRYLATE

mf: C₉H₁₆O₄ mw: 188.25

SYNS: BUTYL CELLOSOLVE ACRYLATE □ 2-PROPENOIC ACID 2-BUTOXYETHYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt LD50:6500 mg/kg AIHAAP 30,470,69
 skn-rbt LD50:640 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BPK750 CAS: 4413-13-2 HR: 2
1-BUTOXY-2-ETHOXYETHANE

mf: C₈H₁₈O₂ mw: 146.26

SYN: 1-(2-ETHOXYETHOXY)-BUTANE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 10,61,54
 skn-rbt 500 mg/24H MLD 85JCAE -,256,86
 eye-rbt 20 mg open AMIHBC 10,61,54
 eye-rbt 100 mg/24H MOD 85JCAE -,256,86
 orl-rat LD50:2830 mg/kg AMIHBC 10,61,54
 skn-rbt LD50:2120 mg/kg AMIHBC 10,61,54

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.

BPL250 CAS: 112-56-1 HR: 3
2-(2-BUTOXY ETHOXY)ETHYL THIOCYANATE

mf: C₉H₁₇NO₂S mw: 203.33

PROP: Liquid. Bp: 120–125° @ 0.25 mm.

SYNS: 2-(2-(BUTOXY)ETHOXY)ETHYL THIOCYANIC ACID ESTER □ BUTOXYRHODANODIETHYL ETHER □ β-BUTOXY-β'-THIOCYANODIETHYL ETHER □ 2-BUTOXY-2'-THIOCYANO DIETHYL ETHER □ 1-BUTOXY-2-(2-THIOCYANOETHOXY) ETHANE □ 1-BUTOXY-2-(2-THIOCYANATOETHYXY)ETHANE □ BUTYL CARBITOL RHODANATE □ BUTYL CARBITOL THIO CYANATE □ ENT 6 □ ETHANOL-2-(2-BUTOXYETHOXY) THIOCYANATE □ LETHANE □ LETHANE 384 □ LETHANE 384 REGULAR

TOXICITY DATA with REFERENCE:

skn-rat LD50:250 mg/kg WRPCA2 9,119,70
 ipr-rat LD50:90 mg/kg INMEAF 11,-,42
 scu-rat LD50:550 mg/kg INMEAF 11,-,42
 ipr-mus LD50:41 mg/kg PCBPBS 2,95,72
 scu-mus LDLo:200 mg/kg JIDHAN 18,310,36
 ivn-mus LD50:56 mg/kg CSLNX* NX#02402
 orl-dog LD50:30 mg/kg PCOC** -,657,66

scu-dog LD50:200 mg/kg INMEAF 11,-,42
 orl-rbt LD50:35 mg/kg JPETAB 82,377,44
 skn-rbt LD50:125 mg/kg SPEADM 78-1,20,78

SAFETY PROFILE: A poison by ingestion, skin contact, intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by an unspecified route. High concentrations can cause central nervous system depression. An insecticide. See also THIOCYANATES, ESTERS, and ETHERS. When heated to decomposition it emits very toxic fumes of SO_x, NO_x, and CN⁻.

BPL500 CAS: 124-16-3 HR: 2

1-BUTOXY ETHOXY-2-PROPANOL

mf: C₉H₂₀O₃ mw: 176.29

PROP: D: 0.9310 @ 20°/20°, bp: 230.3°, fp: -90°, flash p: 250°F (OC). Sol in water.

SYN: 1-(2-BUTOXYETHOXY)-2-PROPANOL

TOXICITY DATA with REFERENCE:

skn-rbt 485 mg open MLD UCDS** 12/29/71

orl-rat LD50:4 mL/kg AIHAAP 30,470,69

skn-rbt LD50:2830 µL/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and eye irritant. Combustible when exposed to heat or flame. To fight fire, use alcohol foam, dry chemical, spray, or mist. When heated to decomposition it emits acrid and irritating fumes.

BPL750 CAS: 10043-18-2 HR: 2

3-(2-BUTOXYETHOXY)PROPANOL

mf: C₉H₂₀O₃ mw: 176.29

TOXICITY DATA with REFERENCE:

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

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

orl-rat LD50:5160 mg/kg AMIHBC 10,61,54

skn-rbt LD50:3000 mg/kg AMIHBC 10,61,54

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

BPM000 CAS: 112-07-2 HR: 3

2-BUTOXYETHYL ACETATE

mf: C₈H₁₆O₃ mw: 160.24

PROP: Colorless liquid; fruity odor. Bp: 192.3°, d: 0.9424 @ 20°/20°, fp: -63.5°, flash p: 190°F. Sol in hydrocarbons and org solvs; insol in water.

SYNS: 2-BUTOXYETHANOL ACETATE □ 2-BUTOXYETHYL ESTER ACETIC ACID □ BUTYL CELLOSOLVE ACETATE □ EKTASOLVE EB ACETATE □ ETHYLENE GLYCOL MONO BUTYL ETHER ACETATE (MAK) □ GLYCOL MONOBUTYL ETHER ACETATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 1/31/66

eye-rbt 500 mg/24H MLD 85JCAE -,713,86

orl-rat LD50:2400 mg/kg TXAPA9 51,117,79

orl-mus LD50:3200 mg/kg KODAK* 21MAY71

skn-rbt LD50:1500 mg/kg TXAPA9 51,117,79

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

ACGIH TLV: 20 ppm; Confirmed Animal Carcinogen

DFG MAK: 20 ppm (130 mg/m³)

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Mild skin irritant. Flammable when exposed to heat, flame, or oxidizers. To fight fire, use alcohol foam. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

BPM500 CAS: 57629-90-0 HR: D

(BUTOXYMETHYL)NITROSOMETHYLAMINE

mf: C₆H₁₄N₂O₂ mw: 146.22

SYN: N-(BUTYLOXY)METHYL-N-METHYLNITROSAMINE

TOXICITY DATA with REFERENCE:

mno-sat 3 µmol/plate MUREAV 49,187,78

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BPM660 CAS: 1852-16-0 HR: 2

N-(BUTOXYMETHYL)-2-PROPENAMIDE

mf: C₈H₁₅NO₂ mw: 157.24

SYNS: ACRYLAMIDE, N-BUTOXYMETHYL- □ N-(BUTOXY METHYL)ACRYLAMIDE □ N-BUTOXYMETHYL AKRYLAMID □ 2-PROPENAMIDE, N-(BUTOXYMETHYL)-(9CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1030 mg/kg 85JCAE -,706,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BPM690 CAS: 90842-58-3 HR: 2

BUTOXPENTACHLOROBENZENE

mf: C₁₀H₉Cl₅O mw: 322.44

SYNS: BENZENE, BUTOXPENTACHLORO- □ CP 205 □ ETHER, BUTYL PENTACHLOROPHENYL □ PENTACHLORO PHENYL BUTYL ETHER

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/24H SEV NTIS** OTS0545733

orl-rat LD50:600 mg/kg NTIS** OTS0545733

skn-rbt LDLo:2 g/kg NTIS** OTS0545733

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

BPM750 CAS: 27471-60-9 HR: 3

2-(p-BUTOXYPHENOXY)-N-(2-(DIETHYL AMINO)ETHYL)-2,5'-DIETHOXYACET-ANILIDE MONOHYDROCHLORIDE

mf: C₂₈H₄₂N₂O₅•ClH mw: 523.18

PROP: Solid. Mp: 140°.

SYNS: ANP 3548 □ CHLORHYDRATE de N-(DIETHOXY-2,5-PHENYL)-N-DIETHYLAMINO-2-ETHYL BUTOXY-4-PHENOXY ACETAMIDE □ N,N-DIETHYL-N'-(2,5-DIETHOXYPHENYL)-N'-(4-BUTOXYPHENOXYACETYL) ETHYLENEDIAMINE HCl □ FENOXEDIL □ FENOXEDIL HYDROCHLORIDE □ SUPLEXEDIL

TOXICITY DATA with REFERENCE:

orl-rat LD50:2400 mg/kg EJMCA5 10,291,75
 ipr-rat LD50:175 mg/kg EJMCA5 10,291,75
 scu-rat LD50:2065 mg/kg EJMCA5 10,291,75
 ivn-rat LD50:10 mg/kg EJMCA5 10,291,75
 orl-mus LD50:750 mg/kg EJMCA5 10,286,75
 ipr-mus LD50:82 mg/kg EJMCA5 10,291,75
 scu-mus LD50:341 mg/kg EJMCA5 10,291,75
 ivn-mus LD50:17 mg/kg USXXAM #3818021
 orl-rbt LD50:815 mg/kg EJMCA5 10,291,75

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

BPN000 CAS: 27468-64-0 HR: 3
2-(p-BUTOXYPHENOXY)-N-(2-(DIETHYLAMINO)ETHYL)-N-(2,4-DIMETHOXYPHENYL)-ACETAMIDE HYDROCHLORIDE

mf: C₂₆H₃₈N₂O₅•ClH mw: 495.12

TOXICITY DATA with REFERENCE:

orl-mus LD50:400 mg/kg EJMCA5 10,286,75
 ivn-mus LD50:40 mg/kg EJMCA5 10,286,75

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

BPN250 CAS: 27468-66-2 HR: 3
2-(p-BUTOXYPHENOXY)-N-(2-(DIETHYLAMINO)ETHYL)-N-(2,5-DIMETHOXYPHENYL)-ACETAMIDE HYDROCHLORIDE

mf: C₂₆H₃₈N₂O₅•ClH mw: 495.12

TOXICITY DATA with REFERENCE:

orl-mus LD50:400 mg/kg EJMCA5 10,286,75
 ivn-mus LD50:25 mg/kg EJMCA5 10,286,75

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

BPO250 CAS: 27468-71-9 HR: 3
2-(p-BUTOXYPHENOXY)-N-(2(DIMETHYL-AMINO)ETHYL)-N-(2,6-DIMETHYLPHENYL)-ACETAMIDE HYDROCHLORIDE

mf: C₂₄H₃₄N₂O₃•ClH mw: 435.06

TOXICITY DATA with REFERENCE:

orl-mus LD50:400 mg/kg EJMCA5 10,286,75
 ivn-mus LD50:18 mg/kg EJMCA5 10,286,75

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

BPP250 CAS: 3102-00-9 HR: 3
3-n-BUTOXY-1-PHENOXY-2-PROPANOL

mf: C₁₃H₂₀O₃ mw: 224.33

SYNS: (3-n-BUTOXY-2-HYDROXYPROPYL)PHENYL ETHER □ 1-BUTOXY-3-PHENOXY-2-PROPANOL □ FEBUPROL □ H-33 □ K-10033 □ VALBIL

TOXICITY DATA with REFERENCE:

orl-rat LD50:2370 mg/kg DRFUD4 3,191,78
 ipr-rat LD50:400 mg/kg DRFUD4 3,191,78
 orl-mus LD50:3050 mg/kg DRFUD4 3,191,78

ipr-mus LD50:436 mg/kg DRFUD4 3,191,78
 orl-dog LD50:500 mg/kg DRFUD4 3,191,78
 ivn-dog LD50:150 mg/kg DRFUD4 3,191,78

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Stimulates the production of bile by the liver. See also ETHERS. When heated to decomposition it emits acrid smoke and irritating fumes.

BPP750 CAS: 2438-72-4 HR: 2
p-BUTOXYPHENYLACETOHYDROXAMIC ACID

mf: C₁₂H₁₇NO₃ mw: 223.30

PROP: Needles from Me₂CO. Mp: 153–154°. Insol in H₂O.

SYNS: BUFEXAMIC ACID □ 4-BUTOXYPHENYLACETOHYDROXAMIC ACID □ CP 1044 J3 □ DROXAROL □ DROXARYL □ FLOGICID □ FLOGOCID N PLASTIGEL □ J3 □ PARFENAC □ PARFENAL

TOXICITY DATA with REFERENCE:

sce-ham:ovr 20 μmol/L PAACA3 21,126,80
 orl-rat LD50:3370 mg/kg NIIRDN 6,681,82
 ipr-rat LD50:805 mg/kg YKYUA6 28,253,77
 orl-mus LD50:8000 mg/kg JMCMA3 13,211,70
 ipr-mus LD50:1195 mg/kg YKYUA6 28,253,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental teratogenic effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

BPQ000 CAS: 77372-68-0 HR: D
4-N-BUTOXYPHENYLACETOHYDROXAMIC ACID-*o*-PROPIONATE ESTER

mf: C₁₅H₂₁NO₄ mw: 279.2

TOXICITY DATA with REFERENCE:

mmo-sat 1 nmol/plate PAACA3 21,126,80
 sce-ham:ovr 20 μmol/L PAACA3 21,126,80
 sce-ham:ovr 80 μmol/L MUREAV 88,81,81

SAFETY PROFILE: Mutation data reported. See also ESTERS. When heated to decomposition it emits toxic fumes of NO_x.

BPQ250 CAS: 76790-19-7 HR: D
N-(p-BUTOXYPHENYL ACETYL)-*o*-FORMYL HYDROXYLAMINE

mf: C₁₃H₁₇NO₄ mw: 251.2

SYN: 4-N-BUTOXYPHENYLACETOHYDROXAMIC ACID-*o*-FORMATE ESTER

TOXICITY DATA with REFERENCE:

mmo-sat 1 nmol/plate PAACA3 21,126,80
 sce-ham:ovr 400 μmol/L/13H-C MUREAV 88,81,81

SAFETY PROFILE: Mutation data reported. See also ESTERS. When heated to decomposition it emits toxic fumes of NO_x.

BPQ300 CAS: 119034-04-7 HR: 3
4-(p-BUTOXYPHENYL)SEMICARBAZONE 1-METHYL-1H-PYRROLE-2-CARBOX-ALDEHYDE

mf: C₁₇H₂₂N₄O₂ mw: 314.43

SYNS: HYDRAZINECARBOXAMIDE, N-(4-BUTOXYPHENYL)-2-((1-METHYL-1H-PYRROL-2-YL)METHYLENE)-(9CI) □ SEMI CARBAZIDE, 4-(p-BUTOXYPHENYL)-1-((1-METHYL-2-PYRROLYL) METHYLENE)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:550 µg/kg YHHPAL 24,822,1989

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

BPQ330 CAS: 119034-03-6 HR: 2
4-(p-BUTOXYPHENYL)SEMICARBAZONE-1H-PYRROLE-2-CARBOXALDEHYDE

mf: C₁₆H₂₀N₄O₂ mw: 300.40

SYNS: HYDRAZINECARBOXAMIDE, N-(4-BUTOXYPHENYL)-2-(1H-PYRROL-2-YLMETHYLENE)-(9CI) □ SEMICARBAZIDE, 4-(p-BUTOXYPHENYL)-1-(2-PYRROLYLMETHYLENE)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:450 mg/kg YHHPAL 24,822,1989

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

BPR000 CAS: 77791-53-8 HR: 3
4'-BUTOXY-2-PIPERIDINOACETANILIDE HYDROCHLORIDE

mf: C₁₇H₂₆N₂O₂•ClH mw: 326.91

SYN: C 3125

TOXICITY DATA with REFERENCE:

eye-rbt 2% SEV ARZNAD 8,407,58

ipr-rat LD50:200 mg/kg ARZNAD 8,407,58

scu-mus LD50:665 mg/kg ARZNAD 8,407,58

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. A severe eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

BPR250 HR: 3
4-BUTOXY-3-(PIPERIDINO)PROPIOPHENONE HYDROCHLORIDE

mf: C₁₈H₂₇NO₂•ClH mw: 325.92

SYN: C 5422

TOXICITY DATA with REFERENCE:

eye-rbt 2% SEV ARZNAD 8,708,58

ipr-rat LD50:33 mg/kg ARZNAD 8,708,58

scu-mus LD50:37 mg/kg ARZNAD 8,708,58

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

BPR500 CAS: 536-43-6 HR: 3
4'-BUTOXY-3-PIPERIDINO PROPIOPHENONE HYDROCHLORIDE

mf: C₁₈H₂₇NO₂•ClH mw: 325.92

PROP: Solid. Mp: 175–176°.

SYNS: 1-(2-(4-BUTOXYBENZOYL)ETHYL)PIPERIDINE HYDROCHLORIDE □ 4-n-BUTOXY-β-(1-PIPERIDYL)PROPIOPHENONE HYDROCHLORIDE □ DICLONIA □ DYCLONCAINUM □ DYCLONE HYDROCHLORIDE □ DYCLONINE HYDROCHLORIDE □ DYCLOTHANE □ P-267 □ S 154

TOXICITY DATA with REFERENCE:

skn-rbt 1% MLD AIPTAK 137,410,62

eye-rbt 1% MLD AIPTAK 137,410,62

eye-rbt 2% SEV ARZNAD 8,708,58

ipr-rat LD50:33 mg/kg ARZNAD 8,708,58

scu-rat LD50:201 mg/kg JPETAB 115,413,55

orl-mus LDLo:100 mg/kg TXAPA9 2,616,60

ipr-mus LD50:52 mg/kg AIPTAK 137,410,62

scu-mus LD50:42 mg/kg ARZNAD 5,559,55

ivn-mus LD50:20 mg/kg JPETAB 115,419,55

orl-dog LDLo:40 mg/kg TXAPA9 2,616,60

ivn-dog LD50:9500 µg/kg JPETAB 115,419,55

orl-rbt LDLo:200 mg/kg TXAPA9 2,616,60

SAFETY PROFILE: A poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. A skin and severe eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

BPS000 CAS: 7420-06-6 HR: 2
3-BUTOXY PROPANOIC ACID

mf: C₇H₁₄O₃ mw: 146.21

SYN: 3-BUTOXYPROPIONIC ACID

TOXICITY DATA with REFERENCE:

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

eye-rbt 250 µg open SEV AMIHBC 10,61,54

orl-rat LD50:5190 mg/kg AMIHBC 10,61,54

skn-rbt LD50:630 mg/kg AMIHBC 10,61,54

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

BPS250 CAS: 5131-66-8 HR: 2
1-BUTOXY-2-PROPANOL

mf: C₇H₁₆O₂ mw: 132.23

SYNS: PROPASOL SOLVENT B □ PROPYLENE GLYCOL-n-BUTYL ETHER

TOXICITY DATA with REFERENCE:

skn-rbt LD50:3100 mg/kg NPIRI* 1,102,74

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

SAFETY PROFILE: Moderately toxic by skin contact. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

BPS500 CAS: 10215-33-5 HR: 3
3-BUTOXY-1-PROPANOL

mf: C₇H₁₆O₂ mw: 132.23

SYN: PROPYLENE GLYCOL MONO-n-BUTYL ETHER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 7/28/66

eye-rbt 15 mg SEV UCDS** 7/28/66

eye-rbt 2 mg/24H SEV 85JCAE -,633,86

orl-rat LD50:5950 µL/kg AIHAAP 30,470,69

ivn-mus LD50:320 mg/kg CSLNX* NX#02921

skn-rbt LD50:1590 mg/kg AIHAAP 30,470,69

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

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

BPS750 CAS: 63716-40-5 HR: 2
n-BUTOXYPROPANOL (mixed isomers)mf: C₇H₁₆O₂ mw: 132.23

SYN: BUTOXYPROPANOL (mixed isomers)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 10/13/64

eye-rbt 15 mg SEV UCDS** 10/13/64

orl-rat LD50:2830 mg/kg UCDS** 10/13/64

skn-rbt LD50:3560 mg/kg TXAPA9 28,313,74

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A mild skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**BPT000 CAS: 6959-71-3 HR: 2**
3-BUTOXYPROPIONITRILEmf: C₇H₁₃NO mw: 127.21

SYN: 3-BUTOXYPROPANENITRILE

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg AMIHBC 10,61,54

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

eye-rbt 500 mg/24H MLD 85JCAE -,918,86

orl-rat LD50:7460 mg/kg AMIHBC 10,61,54

ipr-mus LDLo:500 mg/kg CBCCT* 9,135,57

skn-rbt LD50:8980 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Cyanide and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Mildly toxic by ingestion and skin contact. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.**BPT250 HR: 3**
4'-BUTOXY-2-PYRROLIDINYLACETANILIDE HYDROCHLORIDEmf: C₁₆H₂₄N₂O₂•ClH mw: 312.88

SYN: C 3130

TOXICITY DATA with REFERENCE:

eye-rbt 2% SEV ARZNAD 8,270,58

ipr-rat LD50:186 mg/kg ARZNAD 8,270,58

scu-mus LD50:545 mg/kg ARZNAD 8,270,58

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. A severe eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and HCl.**BPT300 CAS: 70193-21-4 HR: 2**
N-(1-BUTOXY-2,2,2-TRICHLOROETHYL) SALICYLAMIDEmf: C₁₃H₁₆Cl₃NO₃ mw: 340.65

SYNS: BENZAMIDE, N-(1-BUTOXY-2,2,2-TRICHLOROETHYL)-2-HYDROXY- □ N-(1-BUTOXY-2,2,2-TRICHLOROETHYL)-2-HYDROXYBENZAMIDE □ (RS)-N-(1-BUTOXY-2,2,2-TRICHLOROETHYL)SALICYLAMIDE □ HATACLEAN □ NK 483 □ TRICHLAMIDE □ WL 105305

TOXICITY DATA with REFERENCE:

orl-rat LD50:7590 mg/kg NNGADV 13,395,1988

skn-rat LD50:>5 g/kg NNGADV 13,395,1988

ipr-rat LD50:1140 mg/kg NNGADV 13,395,1988

orl-mus LD50:>5 g/kg NNGADV 13,395,1988

skn-mus LD50:>5 g/kg NNGADV 13,395,1988

ipr-mus LD50:1590 mg/kg JPIFAN (56),12,1990

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Low toxicity by ingestion and skin contact. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**BPT500 CAS: 35941-65-2 HR: D**
BUTRIPTYLINEmf: C₂₁H₂₇N mw: 293.49**PROP:** Oil. Bp: 180–185° @ 1 mm.

SYNS: 5H-DIBENZO(a,d)CYCLOHEPTENE-5-PROPANAMINE, 10-11-DIHYDRO-N,N,β-TRIMETHYL-, (±)- □ d,l-10,11-DIHYDRO-N,N,β-TRIMETHYL-5H-DIBENZO(a,d)-CYCLOHEPTENE-5-PROPYLAMINE

SAFETY PROFILE: An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.**BPT750 CAS: 5585-73-9 HR: 3**
BUTRIPTYLINE HYDROCHLORIDEmf: C₂₁H₂₇N•ClH mw: 329.95**PROP:** Solid. Mp: 188–190° (decomp).

SYNS: (±)-10,11-DIHYDRO-N,N,β-TRIMETHYL- 5H-DIBENZO(a,d)CYCLOHEPTENE-5-PROPANAMINE HCl □ (±)-10,11-DIHYDRO-N,N,β-TRIMETHYL-5H-DIBENZO(a,d)-CYCLOHEPTENE-5-PROPYLAMINE HCl □ EVADYNE □ AY-62014

TOXICITY DATA with REFERENCE:

orl-rat LD50:700 mg/kg 27ZQAG -,62,72

ipr-rat LD50:150 mg/kg 27ZQAG -,62,72

orl-mus LD50:345 mg/kg 27ZQAG -,62,72

ipr-mus LD50:120 mg/kg 27ZQAG -,62,72

ivn-mus LD50:48 mg/kg 27ZQAG -,62,72

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. An antidepressant. When heated to decomposition it emits toxic fumes of HCl and NO_x.**BPU000 CAS: 16227-10-4 HR: 3**
BUTRIZOLmf: C₆H₁₁N₃ mw: 125.20

SYNS: BT □ 4-N-BUTYL-4H-1,2,4-TRIAZOLE □ 4-BUTYL-s-TRIAZOLE □ DITHANE R-24 □ INDAR □ RH-124

TOXICITY DATA with REFERENCE:

orl-rat LD50:50 mg/kg 85ARAE 4,94,76/77

skn-rbt LD50:315 mg/kg FMCHA2 -,C131,83

SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits toxic fumes of NO_x.**BPU500 CAS: 91-49-6 HR: 3**
N-BUTYLACETANILIDEmf: C₁₂H₁₇NO mw: 191.30**PROP:** Yellowish liquid, mp: 20.8°, bp: 273–275° @ 718 mm, flash p: 286°F, vap d: 6.6, d: 0.992 @ 25°/25°.**TOXICITY DATA with REFERENCE:**

orl-mus LD50:800 mg/kg TXAPA9 19,20,71

orl-gpg LD50:300 mg/kg 28ZEAL 4,78,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion. Combustible. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits toxic fumes of NO_x.

BPU750 **CAS: 123-86-4** **HR: 3**
***n*-BUTYL ACETATE**

DOT: UN 1123

mf: C₆H₁₂O₂ mw: 116.18

PROP: Colorless liquid; strong fruity odor. Fp: -77°, bp: 126°, ULC: 50–60, lel: 1.4%, uel: 7.5%, flash p: 72°F, d: 0.88 @ 20°/20°, refr index: 1.393–1.396, autoign temp: 797°F, vap press: 15 mm @ 25°. Misc with alc, ether, and propylene glycol. Sol in EtOH, Et₂CO, and Me₂CO; insol in H₂O. IDLH 1700 ppm [10%LEL].

SYNS: ACETATE de BUTYLE (FRENCH) □ ACETIC ACID *n*-BUTYL ESTER □ BUTILE (ACETATI di) (ITALIAN) □ BUTYLACETAT (GERMAN) □ BUTYL ACETATE □ 1-BUTYL ACETATE □ BUTYLACETATEN (DUTCH) □ BUTYLE (ACETATE de) (FRENCH) □ BUTYL ETHANOATE □ FEMA No. 2174 □ OCTAN *n*-BUTYLU (POLISH)

TOXICITY DATA with REFERENCE:

eye-hmn 300 ppm JIHTAB 25,282,43
 skn-rbt 500 mg/24H MOD FCTXAV 17,509,79
 skn-rbt 500 mg/24H MLD 85JCAE -,355,86
 eye-rbt 20 mg SEV AMIHBC 10,61,54
 ihl-hmn TClO:200 ppm:NOSE,EYE,PUL JIHTAB 25,282,43
 orl-rat LD50:13,100 mg/kg 85GMAT -,28,82
 ihl-rat LC50:2000 ppm/4H NPIRI* 1,7,74
 orl-mus LD50:7060 mg/kg YKYUA6 32,1241,81
 ihl-mus LC50:6 g/m³/2H YKYUA6 32,1241,81
 ipr-mus LD50:1230 mg/kg SCCUR* -,2,61
 ihl-cat LCLo:68 g/m³/72M AGGHAR 5,1,33
 orl-rbt LD50:3200 mg/kg 85GMAT -,28,82
 orl-gpg LDLo:4700 mg/kg FCTXAV 17,509,79
 ihl-gpg LCLo:67 g/m³/4H FCTXAV 17,515,79
 ipr-gpg LDLo:1500 mg/kg AIHAAP 35,21,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 150 ppm; STEL 200 ppm

ACGIH TLV: Proposed: 150 ppm; STEL 200 ppm

DFG MAK: 100 ppm (480 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by inhalation and ingestion. An experimental teratogen. A skin and severe eye irritant. Human systemic effects by inhalation: conjunctiva irritation, unspecified nasal and respiratory system effects. A mild allergen. High concentrations are irritating to eyes and respiratory tract and cause narcosis. Evidence of chronic systemic toxicity is inconclusive. Flammable liquid. Moderately explosive when exposed to flame. Ignites on contact with potassium *tert*-butoxide. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid and irritating fumes. See also ESTERS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Esters I, 1450.

BPV000 **CAS: 105-46-4** **HR: 3**
***sec*-BUTYL ACETATE**

DOT: UN 1123

mf: C₆H₁₂O₂ mw: 116.18

PROP: Colorless liquid; mild odor. Bp: 112°, flash p: 18°, d: 0.862–0.866 @ 20°/20°, vap d: 4.00, lel: 1.3%, uel: 7.5%. IDLH 1700 ppm [10%LEL].

SYNS: ACETATE de BUTYLE SECONDAIRE (FRENCH) □ ACETIC ACID-2-BUTOXY ESTER □ ACETIC ACID-1-METHYL PROPYL ESTER (9CI) □ 2-BUTANOL ACETATE □ *sec*-BUTYL ACETATE □ 2-BUTYL ACETATE □ *sec*-BUTYL ALCOHOL ACETATE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 200 ppm

ACGIH TLV: TWA 200 ppm

DFG MAK: 100 ppm (480 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: An irritant and allergen. See also ESTERS. Flammable liquid. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Esters I, 1450.

BPV100 **CAS: 540-88-5** **HR: 3**
***tert*-BUTYL ACETATE**

DOT: UN 1123

mf: C₆H₁₂O₂ mw: 116.18

PROP: Liquid. Bp: 97–98°. IDLH 1500 ppm [10%LEL].

SYNS: ACETIC ACID-*tert*-BUTYL ESTER □ ACETIC ACID-1,1-DIMETHYLETHYL ESTER □ TEXACO LEAD APPRECIATOR □ TLA

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 200 ppm

ACGIH TLV: TWA 200 ppm

DFG MAK: 100 ppm (480 mg/m³)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by inhalation and ingestion. Flammable. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Esters I, 1450.

BPV250 **CAS: 591-60-6** **HR: 1**
BUTYL ACETOACETATE

mf: C₈H₁₄O₃ mw: 158.22

PROP: Bp: 214°, flash p: 185°F, d: 0.96, vap d: 5.55.

SYNS: ACETOACETIC ACID BUTYL ESTER □ 3-OXO-BUTANOIC ACID BUTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,355,86
 eye-rbt 500 mg open AMIHBC 10,61,54
 orl-rat LD50:11,260 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin and eye irritant. See also ESTERS. Flammable. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid and irritating fumes.

BPV325 **CAS: 56986-35-7** **HR: 2**
***N*-BUTYL-*N*-(1-ACETOXYBUTYL)NITROSAMINE**

mf: C₁₀H₂₀N₂O₃ mw: 216.32

SYNS: ACETIC ACID-1-(BUTYLNITROSAMINO)BUTYL ESTER □ N-(α-ACETOXY)BUTYL-N-BUTYLNITROSAMINE □ 1-ACETOXY-N-NITROSODIBUTYLAMINE □ BABN □ 1-(BUTYL NITROSAMINO)BUTYL ACETATE

TOXICITY DATA with REFERENCE:

mmo-sat 50 nmol/plate CNREA8 40,162,80

dnr-bcs 500 nmol/plate CNREA8 40,162,80

dns-rat:oth 10 μmol/L CBINA8 53,99,85

cyt-ham:lng 32 mg/L GMCRCDC 27,95,81

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES and ESTERS.

BPV500 CAS: 56986-37-9 HR: D
sec-BUTYL ACETOXYMETHYL NITROSAMINE

mf: C₇H₁₄N₂O₃ mw: 174.23

SYNS: ACETIC ACID (sec-BUTYLNITROSAMINOMETHYL) ESTER □ N-sec-BUTYL-N-(ACETOXYMETHYL)NITROSAMINE

TOXICITY DATA with REFERENCE:

mmo-sat 1 μmol/plate GANNA2 66,457,75

cyt-ham:fbr 63 mg/L/48H MUREAV 48,337,77

dnr-bcs 500 nmol/plate GANNA2 66,457,75

mmo-esc 25 μmol/plate GANNA2 70,663,79

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BPW000 CAS: 66409-97-0 HR: 3
n-BUTYL-3,α-ACETYL-12-β-13-α-DIHYDROJERVINE

mf: C₃₃H₄₉NO₄ mw: 523.83**SYN:** n-BUTYL-12-β-13-α-DIHYDROJERVINE-3-ACETATE**TOXICITY DATA with REFERENCE:**

orl-ham LDLo:170 mg/kg JAFCAU 26(3),564,78

SAFETY PROFILE: Poison by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.

BPW025 CAS: 1070-66-2 HR: D
2-BUTYLACROLEIN

mf: C₇H₁₂O mw: 112.17**SYN:** HEXANAL, 2-METHYLENE-**TOXICITY DATA with REFERENCE:**

mic-sat 0.7 μmol/L/20M EMMUEG 37,324,2001

mic-sat 1.8 μmol/L/20M EMMUEG 37,324,2001

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

BPW050 CAS: 107-58-4 HR: 2
N-tert-BUTYLACRYLAMIDE

mf: C₇H₁₃NO mw: 127.21

SYNS: ACRYLAMIDE, N-tert-BUTYL- □ N-(1,1-DIMETHYLETHYL)-2-PROPENAMIDE □ 2-PROPENAMIDE, N-(1,1-DIMETHYLETHYL)-(pCI)

TOXICITY DATA with REFERENCE:

orl-mus LD50:941 mg/kg ARTODN 47,179,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BPW100 CAS: 141-32-2 HR: 3
n-BUTYL ACRYLATE

DOT: UN 2348mf: C₇H₁₂O₂ mw: 128.19

PROP: Water-white, extremely reactive monomer. Bp: 69° @ 50 mm, fp: -64.6°, flash p: 120°F (OC), d: 0.89 @ 25°/25°, vap press: 10 mm @ 35.5°, vap d: 4.42.

SYNS: ACRYLIC ACID BUTYL ESTER □ ACRYLIC ACID n-BUTYL ESTER (MAK) □ BUTYL ACRYLATE □ BUTYL-ACRYLATE, INHIBITED (DOT) □ BUTYL-2-PROPENOATE

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 4,119,51

skn-rbt 500 mg open MLD UCDS** 4/5/73

eye-rbt 50 mg MLD UCDS** 4/5/73

orl-rat LD50:900 mg/kg 85GMAT -,28,82

ihl-rat LC50:2730 ppm/4H JTEHD6 16,811,85

skn-rat LDLo:1700 mg/kg PJPPAA 32,223,80

ipr-rat LD50:550 mg/kg AMPMAR 36,58,75

orl-mus LD50:7561 mg/kg TOLED5 11,125,82

ihl-mus LC50:7800 mg/m³/2H 85GMAT -,28,82

ipr-mus LD50:853 mg/kg JDREAF 51,526,72

skn-rbt LD50:2000 mg/kg TXAPA9 28,313,74

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 39,67,86. Reported in EPA TSCA Inventory. Community Right-To-Know List.

OSHA PEL: TWA 10 ppm

ACGIH TLV: TWA 2 ppm (sensitizer); Not Classifiable as a Carcinogen

DFG MAK: 2 ppm (11 mg/m³)**DOT CLASSIFICATION:** 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, skin contact, and intraperitoneal routes. Experimental reproductive effects. A skin and eye irritant. Questionable carcinogen. A flammable liquid when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits acrid and irritating fumes. See also ESTERS.

BPW250 HR: 3
tert-BUTYL-1-ADAMANTANE PEROXY CARBOXYLATE

mf: C₁₅H₂₄O₃ mw: 252.35

SAFETY PROFILE: Explodes on heating to 90-100°. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES.

BPW500 CAS: 71-36-3 HR: 3
n-BUTYL ALCOHOL

mf: C₄H₁₀O mw: 74.14

PROP: Colorless liquid; vinous odor. Bp: 117.4°, ULC: 40, lel: 1.4%, uel: 11.2%, fp: -90°, flash p: 95-100°F, d: 0.80978 @ 20°/4°, autoign temp: 689°F, vap press: 5.5

mm @ 20°, vap d: 2.55. Misc in alc, ether, and org solvs. Mod sol in water. IDLH 1400 ppm [10%LEL].

SYNS: ALCOOL BUTYLIQUE (FRENCH) □ BUTANOL (FRENCH) □ n-BUTANOL □ BUTAN-1-OL □ 1-BUTANOL □ BUTANOL (DOT) □ BUTANOLEN (DUTCH) □ BUTANOLO (ITALIAN) □ BUTYL ALCOHOL (DOT) □ BUTYL HYDROXIDE □ BUTYLOWY ALKOHOL (POLISH) □ BUTYRIC or NORMAL PRIMARY BUTYL ALCOHOL □ CCS 203 □ FEMA No. 2178 □ 1-HYDROXYBUTANE □ METHYLOLPROPANE □ PROPYL-CARBINOL □ PROPYLMETHANOL □ RCRA WASTE NUMBER U031

TOXICITY DATA with REFERENCE:

eye-hmn 50 ppm JIHTAB 25,282,43
 skn-rbt 405 mg/24H MOD BIOFX* 2-5/69
 skn-rbt 20 mg/24H MOD 85JCAE -,193,86
 eye-rbt 1620 µg SEV AJOPAA 29,136,46
 eye-rbt 2 mg/24H SEV 85JCAE -,193,86
 cyt-smc 10 mmol/tube HEREAY 33,457,47
 ihl-hmn TCLo:25 ppm:IRR JIHTAB 25,282,43
 orl-rat LD50:790 mg/kg SAMJAF 43,795,69
 ihl-rat LC50:8000 ppm/4H NPIRI* 1,10,74
 ivn-rat LD50:310 mg/kg EVHPAZ 61,321,85
 ipr-mus LD50:603 mg/kg 85GMAT -,28,82
 ivn-mus LD50:377 mg/kg AIPTAK 135,330,62
 orl-rbt LDLo:4250 mg/kg JLCMAK 10,985,25
 skn-rbt LD50:3400 mg/kg NPIRI* 1,10,74

CONSENSUS REPORTS: Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: CL 50 ppm (skin)

ACGIH TLV: TWA 20 ppm

DFG MAK: 100 ppm (310 mg/m³)

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by skin contact, ingestion, subcutaneous, and intraperitoneal routes. Human systemic effects by inhalation: conjunctiva irritation, unspecified respiratory system effects, and nasal effects. Experimental reproductive effects. A severe skin and eye irritant. Though animal experiments have shown the butyl alcohols to possess toxic properties, they have produced few cases of poisoning in industry, probably because of their low volatility. The use of normal butyl alcohol is reported to have resulted in irritation of the eyes, with corneal inflammation, slight headache and dizziness, slight irritation of the nose and throat, and dermatitis about the fingernails and along the side of the fingers. Keratitis has also been reported. Mutation data reported. See also ALCOHOLS. Flammable liquid. Moderately explosive when exposed to flame. Incompatible with Al, chromium trioxide, oxidizing materials. To fight fire, use water spray, alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Alcohols II, 1401.

BPW750 CAS: 78-92-2 HR: 3
sec-BUTYL ALCOHOL

mf: C₄H₁₀O mw: 74.14

PROP: Colorless liquid. Mp: -89°, bp: 99.5°, flash p: 14°, d: 0.808 @ 20°/4°, autoign temp: 763°F, vap press: 10 mm @ 20°, vap d: 2.55, lel: 1.7% @ 212°F, uel: 9.8% @ 212°F. IDLH 2000 ppm.

SYNS: ALCOOL BUTYLIQUE SECONDAIRE (FRENCH) □ sec-BUTANOL (DOT) □ BUTAN-2-OL □ 2-BUTANOL □ BUTANOL SECONDAIRE (FRENCH) □ 2-BUTYL ALCOHOL □ BUTYLENE HYDRATE □ CCS 301 □ ETHYLMETHYL CARBINOL □ 2-HYDROXYBUTANE □ METHYLETHYLCARBINOL □ S.B.A.

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,193,86
 eye-rbt 16 mg open AMIHBC 10,61,54
 eye-rbt 100 mg/24H MOD 85JCAE -,193,86
 orl-rat LD50:6480 mg/kg AMIHBC 10,61,54
 ihl-rat LCLo:16,000 ppm/4H AMIHBC 10,61,54
 ipr-rat LD50:1193 mg/kg EVHPAZ 61,321,85
 ivn-rat LD50:138 mg/kg EVHPAZ 61,321,85
 ipr-mus LD50:771 mg/kg SCCUR* -,2,61
 ivn-mus LD50:764 mg/kg AIPTAK 135,330,62
 orl-rbt LD50:4893 mg/kg IMSUAI 41,31,72
 ipr-rbt LD50:277 mg/kg EVHPAZ 61,321,85

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 100 ppm

ACGIH TLV: TWA 100 ppm

DFG MAK: 100 ppm (310 mg/m³)

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Mildly toxic by ingestion. Experimental reproductive effects. A skin and eye irritant. See also n-BUTYL ALCOHOL and ALCOHOLS. Dangerous fire hazard when exposed to heat or flame. Auto-oxidizes to an explosive peroxide. Ignites on contact with chromium trioxide. To fight fire, use water spray, alcohol foam, CO₂, dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Alcohols II, 1401.

BPX000 CAS: 75-65-0 HR: 3
tert-BUTYL ALCOHOL

mf: C₄H₁₀O mw: 74.14

PROP: Colorless liquid or rhombic prisms or plates with camphoraceous odor. Mp: 25.5°, bp: 82.8°, flash p: 50°F (CC), d: 0.781 @ 25°/4°, autoign temp: 896°F, vap press: 40 mm @ 24.5°, vap d: 2.55, lel: 2.4%, uel: 8.0%. Misc in H₂O. IDLH 1600 ppm.

SYNS: ALCOOL BUTYLIQUE TERTIAIRE (FRENCH) □ tert-BUTANOL □ BUTANOL TERTIAIRE (FRENCH) □ tert-BUTYL HYDROXIDE □ 1,1-DIMETHYLETHANOL □ 2-METHYL-2-PROPANOL □ NCI-C55367 □ TRIMETHYLCARBINOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:3500 mg/kg SCIEAS 116,663,52
 ipr-mus LD50:933 mg/kg SCCUR* -,2,61
 ivn-mus LD50:1538 mg/kg AIPTAK 135,330,62
 orl-rbt LD50:3559 mg/kg IMSUAI 41,31,72
 par-frg LDLo:12 g/kg AIPTAK 50,296,35

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 100 ppm; Not Classifiable as a Human Carcinogen

DFG MAK: 100 ppm (310 mg/m³)

SAFETY PROFILE: Moderately toxic by ingestion, intravenous, and intraperitoneal routes. An experimental

teratogen. Other experimental reproductive effects. Dangerous fire hazard when exposed to heat or flame. Moderately explosive in the form of vapor when exposed to flame. Ignites on contact with potassium-sodium alloys. To fight fire, use alcohol foam, CO₂, dry chemical. Incompatible with oxidizing materials, H₂O₂. See also n-BUTYL ALCOHOL and ALCOHOLS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Alcohols I, 1400.

BPX500 CAS: 13449-22-4 HR: 3

n-BUTYL AMIDO SULFURYL AZIDE

mf: C₄H₁₀N₄O₂S mw: 178.21

(C₄H₉)NHSO₂N₃

SAFETY PROFILE: May explode when heated. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also AZIDES.

BPX750 CAS: 109-73-9 HR: 3

n-BUTYLAMINE

DOT: UN 1125

mf: C₄H₁₁N mw: 73.16

PROP: Liquid; ammonia-like odor. Mp: -50°, bp: 78°, flash p: 10°F (OC), 10°F (CC), d: 0.74-0.76 @ 20°/20°, autoign temp: 594°F, vap d: 2.52, lel: 1.7%, uel: 9.8%. IDLH 300 ppm.

SYNS: 1-AMINO-BUTAN (DUTCH) □ 1-AMINO BUTAN (GERMAN) □ 1-AMINO BUTANE □ 1-BUTANAMINE □ n-BUTILAMINA (ITALIAN) □ n-BUTYLAMIN (GERMAN) □ BUTYLAMINE (OSHA) □ MONOBUTILAMINA □ MONOBUTYLAMINE □ MONO-n-BUTYLAMINE □ NORVALAMINE

TOXICITY DATA with REFERENCE:

cyt-rat-ori 110 mg/kg ZKKOBW 86,47,76
skn-rbt 10 mg/24H open JIHTAB 26,269,44
skn-rbt 500 mg open SEV UCDS** 7/19/65
ori-rat LD50:366 mg/kg TXAPA9 63,150,82
par-rat LDLo:600 mg/kg JPETAB 20,435,23
ori-mus LD50:430 mg/kg GISAAA 40(11),21,75
ihl-mus LC50:800 mg/m³/2H 85GMAT -,28,82
ipr-mus LD50:629 mg/kg JPETAB 88,82,46
ivn-mus LD50:198 mg/kg JPETAB 88,82,46
ori-gpg LD50:430 mg/kg 85GMAT -,28,82
skn-rbt LD50:850 mg/kg UCDS** 7/19/65
skn-gpg LD50:370 mg/kg JIHTAB 26,269,44

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 5 ppm (skin)

ACGIH TLV: CL 5 ppm

DFG MAK: 5 ppm (15 mg/m³)

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

SAFETY PROFILE: Poison by ingestion, skin contact, and intravenous routes. Moderately toxic by inhalation, intraperitoneal, and parenteral routes. A corrosive and severe skin irritant. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. A flammable liquid and dangerous fire hazard when exposed to heat, flame, or oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. Explodes on contact with perchloryl fluoride. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: n-Butylamine s138.

BPY000 CAS: 13952-84-6 HR: 3

sec-BUTYLAMINE

DOT: UN 2733/UN 2734

mf: C₄H₁₁N mw: 73.16

PROP: Liquid. Mp: -104°, bp: 63°, flash p: 15°F, d: 0.724 @ 20°.

SYNS: 2-AB □ 2-AMINO BUTANE □ BUTAFUME □ 2-BUTANAMINE □ DECCOTANE □ FRUCOTE □ 1-METHYL PROPYLAMINE □ TUTANE

TOXICITY DATA with REFERENCE:

ori-rat LD50:152 mg/kg TXAPA9 63,150,82
ori-dog LD50:225 mg/kg PEMNDP 9,112,91
skn-rbt LD50:2500 mg/kg PEMNDP 9,112,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: 5 ppm (15 mg/m³)

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

SAFETY PROFILE: A poison by ingestion. A powerful irritant. Moderately toxic by skin contact. Dangerous fire hazard when exposed to heat or flame. To fight fire, use alcohol foam, water spray or mist, dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits toxic fumes of NO_x. A fungicide.

BPY100 CAS: 513-49-5 HR: 3

sec-BUTYLAMINE, (S)-

mf: C₄H₁₁N mw: 73.16

SYNS: (+)-2-BUTYLAMINE □ S-2-BUTYLAMINE

TOXICITY DATA with REFERENCE:

ori-rat LD50:380 mg/kg 28ZEAL 5,33,76
ori-dog LD50:225 mg/kg 28ZEAL 5,33,76
skn-rbt LD50:2500 mg/kg 28ZEAL 5,33,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BPY250 CAS: 75-64-9 HR: 3

tert-BUTYLAMINE

DOT: UN 2733/UN 2734

mf: C₄H₁₁N mw: 73.16

PROP: Colorless liquid. Mp: -67.5°, bp: 46.4°, fp: -72.65°, d: 0.700 @ 15°, lel: 1.7% @ 212°F, uel: 8.9% @ 212°F, vap d: 2.5, autoign temp: 716°F.

SYNS: 2-AMINOISOBUTANE □ 2-AMINO-2-METHYLPROPANE □ BUTYLAMINE, tertiary □ 1,1-DIMETHYLETHYLAMINE □ TRIMETHYLAMINOMETHANE

TOXICITY DATA with REFERENCE:

ihl-man TCLo:40 mg/m³/8H-I BJIMAG 48,26,91
ori-rat LD50:78 mg/kg TXAPA9 63,150,82
ori-mus LD50:900 mg/kg WQCHM* 4-,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: 5 ppm (15 mg/m³)

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

SAFETY PROFILE: Poison by ingestion. Moderately toxic to humans by inhalation. A corrosive liquid. See also n-BUTYLAMINE and AMINES. Very dangerous fire hazard when exposed to heat or flame. Very exothermic reaction with 2,2-dibromo-1,3-dimethylcyclopropanoic acid. To fight fire, use alcohol foam. When heated to decomposition it emits toxic fumes of NO_x.

BPY500 CAS: 77966-25-7 HR: 3
2-(BUTYLAMINO)-p-ACETOPHENETIDIDE
HYDROCHLORIDE

mf: C₁₄H₂₂N₂O₂•ClH mw: 286.84

SYN: C 5414

TOXICITY DATA with REFERENCE:

eye-rbt 2% MLD ARZNAD 8,407,58

ipr-rat LD50:220 mg/kg ARZNAD 8,407,58

scu-mus LD50:800 mg/kg ARZNAD 8,407,58

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. An eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

BPY625 CAS: 78907-16-1 HR: 3
3-(tert-BUTYLAMINO)ACETYLINDOLE
HYDROCHLORIDE HYDRATE

mf: C₁₄H₁₈N₂O•ClH•H₂O mw: 284.82

SYN: 3-((tert-BUTYLAMINO)ACETYL)INDOLE HYDROCHLORIDE HYDRATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:410 mg/kg PCJOAU 15,412,81

scu-mus LD50:275 µg/kg PCJOAU 15,412,81

ivn-mus LD50:90 mg/kg PCJOAU 15,412,81

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

BPZ000 CAS: 94-25-7 HR: 3
BUTYL-p-AMINO BENZOATE

mf: C₁₁H₁₅NO₂ mw: 193.27

PROP: Yellow, amorphous powder; mp: 57–59°, bp: 174° @ 8 mm.

SYNS: p-AMINO BENZOIC ACID BUTYL ESTER □ BUTAMBEN

TOXICITY DATA with REFERENCE:

ipr-mus LD50:67 mg/kg JMC MAR 17,900,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. An allergen. See also ESTERS and AMINES. Combustible when exposed to heat or flame. When heated to decomposition it emits toxic fumes such as NO_x.

BQA010 CAS: 94-24-6 HR: 3
p-(BUTYLAMINO)BENZOIC ACID-2-(DIMETHYL
AMINO)ETHYL ESTER

mf: C₁₅H₂₄N₂O₂ mw: 264.41

PROP: Solid. Mp: 43°, bp: 210° @ 4 mm.

SYNS: AMETHOCAINE □ ANETAIN □ p-BUTYLAMINO BENZOYL-2-DIMETHYLAMINOETHANOL □ CONTRALGIN □ DICAIN □ DICAINE □ DIKAIN □ DIMETHYLAMINOETHYL-p-BUTYL-AMINO BENZOATE □ 2-DIMETHYLAMINOETHYL-p-BUTYLAMINO BENZOATE □ FISSUCAIN □ INTERCAIN □ LANDOCAINE □ LAUDOCAINE □ MEDICAINE □ MEDICALER-TETRACAINE □ MEETHOBALM □ METRASPRAY □ MUCAESTHIN □ NIPHANOID □ PANTOCAINE □ PONTOCAINE □ REXOCAINE □ TETRACAINE □ UROMUCAESTHIN

TOXICITY DATA with REFERENCE:

dnd-esc 30 µmol/L MUREAV 89,95,81

dns-hmn:hla 1 µmol/L BCPA6 14,205,65

par-man LDLo:1 mg/kg:CNS,PUL SAVEAB 10,50,39

ivn-rat LD50:6 mg/kg ARZNAD 8,539,58

ipr-mus LD50:20 mg/kg RPTOAN 35(3),114,72

scu-mus LD50:25 mg/kg PHTXA6 20,521,57

ivn-mus LD50:6 mg/kg EJMCA5 10,291,75

scu-rbt LDLo:20 mg/kg AEPPAE 160,53,31

ivn-rbt LDLo:6 mg/kg AEPPAE 160,53,31

par-rbt LD50:33,500 µg/kg ARZNAD 26,78,76

itr-rbt LD50:6500 µg/kg ARZNAD 26,78,76

par-frg LDLo:200 mg/kg AEPPAE 168,447,32

SAFETY PROFILE: A human poison by parenteral route with systemic effects including: muscle contractions, coma, and cyanosis. A poison experimentally by intravenous, parenteral, intratracheal, intraperitoneal, and subcutaneous routes. Human mutation data reported. A local anesthetic. See also ESTERS. When heated to decomposition it emits toxic fumes of NO_x.

BQA020 CAS: 16488-48-5 HR: 3
p-(BUTYLAMINO)BENZOIC ACID-2-(DIETHYL
AMINO)ETHYL ESTER MONOHYDRO-
CHLORIDE

mf: C₁₇H₂₈N₂O₂•ClH mw: 328.93

SYNS: BENZOE-DIAETHYL (GERMAN) □ HYDROCHLORID SALZ des p-N-n-BUTYLAMINO-BENZOESAUERE-DIAETHYLAMINOÄTHYLESTERS (GERMAN)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:27 mg/kg ARZNAD 1,218,51

scu-rat LD50:22,500 µg/kg OYYAA2 9,413,75

ivn-rat LD50:4 mg/kg ARZNAD 1,218,51

orl-mus LD50:156 mg/kg OYYAA2 9,413,75

scu-mus LD50:140 mg/kg ARZNAD 1,218,51

ivn-mus LD50:4900 µg/kg OYYAA2 9,413,75

ivn-rbt LD50:2400 µg/kg OYYAA2 9,413,75

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

BQA100 CAS: 60040-13-3 HR: D
4'-N-BUTYL-4-AMINO BIPHENYL

mf: C₁₆H₁₉N mw: 225.33

SYN: (1,1'-BIPHENYL)-4-AMINE, 4'-BUTYL-

TOXICITY DATA with REFERENCE:

mic-sat 500 µLg/plate/20M MUREAV 515,15,2002

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

BQA500 CAS: 77791-55-0 HR: 2
2-(BUTYLAMINO)-2'-CHLOROACETANILIDE

HYDROCHLORIDEmf: C₁₂H₁₇ClN₂O•ClH mw: 277.22**SYN:** C 5413**TOXICITY DATA with REFERENCE:**

eye-rbt 2% MLD ARZNAD 8,407,58

ipr-rat LD50:670 mg/kg ARZNAD 8,407,58

scu-mus LD50:1075 mg/kg ARZNAD 8,407,58

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. An eye irritant. When heated to decomposition it emits very toxic fumes of Cl⁻, NO_x, and HCl.**BQA750 CAS: 6027-28-7 HR: 3
2-(BUTYLAMINO)-6'-CHLORO-6-ACETO
TOLUIDIDE MONOHYDROCHLORIDE**mf: C₁₃H₁₉ClN₂O•ClH mw: 291.25**PROP:** Crystals from EtOH. Mp: 236–239°.**SYNS:** BUTANILCAINE HYDROCHLORIDE □ 2-(BUTYLAMINO)-N-(2-CHLORO-6-METHYLPHENYL)ACETAMIDE HYDROCHLORIDE □ HOSTACAIN □ HOSTACAINE □ HOSTACAINE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

eye-rbt 2% MLD ARZNAD 8,407,58

ipr-rat LD50:259 mg/kg ARZNAD 8,407,58

ipr-mus LD50:363 mg/kg ARZNAD 8,407,58

scu-mus LD50:570 mg/kg ARZNAD 8,181,58

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. An eye irritant. When heated to decomposition it emits very toxic fumes of Cl⁻, NO_x, and HCl.**BQB000 CAS: 5915-41-3 HR: 2
2-tert-BUTYLAMINO-4-CHLORO-6-ETHYL-
AMINO-s-TRIAZINE**mf: C₉H₁₆ClN₅ mw: 229.75**PROP:** Solid. Mp: 177–179°. Very sltly sol in H₂O; sltly sol in org solvs.**SYNS:** 2-tert-BUTYLAMINO-4-AETHYLAMINO-6-CHLOR-1,3,5-TRIAZIN (GERMAN) □ GARDOPRIM □ GS 13529 □ PRIMATOL-M80 □ SORGOPRIM □ TERBUTHYLAZINE □ TURBULETHYLAZIN (GERMAN)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1845 mg/kg GUHAZ 6,60,73

par-rat LD50:2160 mg/kg DOVEAA 26,5,72

unr-rat LD50:2500 mg/kg 30ZDA9 -,437,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and possibly other routes. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.**BQB250 CAS: 15148-80-8 HR: 3
1-(tert-BUTYLAMINO)-3-(2-CHLORO-5-METHYL
PHENOXY)-2-PROPANOL HYDRO-
CHLORIDE**mf: C₁₄H₂₂ClNO₂•ClH mw: 308.28**PROP:** Crystals. Mp: 220–222°.**SYNS:** BETADRENOL □ BETADRENOL HYDROCHLORIDE □ BUPRANOLOL HYDROCHLORIDE □ 1-(2-CHLORO-5-METHYLPHENOXY)-3-((1,1-DIMETHYLETHYL)AMINO)-2-PROPANOL HYDROCHLORIDE □ KL 255 □ (-)-KL 255 □ SKF 16805A**TOXICITY DATA with REFERENCE:**

orl-rat LD50:518 mg/kg NIIRDN 6,682,82

ipr-rat LD50:96 mg/kg NIIRDN 6,682,82

scu-rat LD50:630 mg/kg OYYAA2 7,75,73

orl-mus LD50:329 mg/kg NIIRDN 6,682,82

scu-mus LD50:567 mg/kg OYYAA2 7,75,73

ivn-mus LD50:39 mg/kg NIIRDN 6,682,82

orl-dog LD50:438 mg/kg NIIRDN 6,682,82

orl-rbt LD50:895 mg/kg NIIRDN 6,682,82

ivn-rbt LD50:15,300 µg/kg NIIRDN 6,682,82

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. Moderately toxic by subcutaneous route. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x and Cl⁻.**BQB825 CAS: 81994-68-5 HR: 3
4-BUTYLAMINO-N-(2-(DIETHYLAMINO)ETHYL)
PHTHALIMIDE HYDROCHLORIDE**mf: C₁₈H₂₇N₃O₂•ClH mw: 353.94**SYN:** 5-BUTYLAMINO-2-(2-DIETHYLAMINOETHYL)-1H-ISOINDOLE-1,3(2H)-DIONE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:580 mg/kg EJMCA5 16,59,81

ipr-rat LD50:66 mg/kg EJMCA5 16,59,81

scu-rat LD50:130 mg/kg EJMCA5 16,59,81

ivn-rat LD50:6200 µg/kg EJMCA5 16,59,81

orl-mus LD50:312 mg/kg EJMCA5 16,59,81

ipr-mus LD50:71 mg/kg EJMCA5 16,59,81

scu-mus LD50:67 mg/kg EJMCA5 16,59,81

ivn-mus LD50:3700 µg/kg EJMCA5 16,59,81

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of HCl and NO_x.**BQC000 CAS: 111-75-1 HR: 2
2-BUTYLAMINOETHANOL**mf: C₆H₁₅NO mw: 117.22**PROP:** Liquid. Bp: 200°, flash p: 170°F (OC), d: 0.89, vap d: 4.03. Sol in H₂O.**SYN:** 2-n-BUYTLAMINOETHANOL**TOXICITY DATA with REFERENCE:**

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

eye-rbt 250 µg open SEV AMIHBC 10,61,54

orl-rat LD50:1150 mg/kg AMIHBC 10,61,54

ipr-rat LD50:840 mg/kg TXAPA9 12,486,68

orl-mam LD50:7100 mg/kg TXAPA9 8,344,66

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and intraperitoneal routes. A skin and severe eye irritant. See also AMINES. Combustible when exposed to heat or flame. To fight fire, use alcohol foam, foam, CO₂, dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits toxic fumes of NO_x.**BQC250 CAS: 26259-45-0 HR: 2
2-sec-BUTYLAMINO-4-ETHYLAMINO-6-
METHOXY-s-TRIAZINE**mf: C₁₀H₁₉N₅O mw: 225.34**PROP:** Powder. Mp: 86–88°. Sltly sol in H₂O.

SYNS: 2-sec-BUTYLAMINO-4-ETHYLAMINO-6-METHOXY-1,3,5-TRIAZINE □ ETAZIN □ ETAZINE □ GEIGY G.S. 14254 □ GS 15254 □ 2-METHOXY-4-sec-BUTYLAMINO-6-AETHYLAMINO-s-TRIAZIN (GERMAN) □ SUMITOL □ SUMITOL 80W

TOXICITY DATA with REFERENCE:

eye-rbt 35 mg SEV CIGET* -,77
 orl-rat LD50:1000 mg/kg FMCHA2 -,C224,83
 skn-rbt LD50:1910 mg/kg CIGET* -,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BQC500 CAS: 33693-04-8 HR: 2

2-tert-BUTYLAMINO-4-ETHYLAMINO-6-METHOXY-s-TRIAZINE

mf: C₁₀H₁₉N₅O mw: 225.34

PROP: Solid. Mp: 123–124°. Very sltly sol in H₂O; sol in org solvs.

SYNS: 2-tert-BUTYLAMINO-4-ETHYLAMINO-6-METHOXY-1,3,5-TRIAZINE □ CARAGARD □ GS 14259 □ 2-METHOXY-4-tert-BUTYLAMINO-6-AETHYLAMINO-s-TRIAZIN (GERMAN) □ TERBUMETON

TOXICITY DATA with REFERENCE:

orl-rat LD50:483 mg/kg GUCHAZ 6,62,73
 skn-rat LD50:>3170 mg/kg PEMNDP 9,796,91
 par-rat LD50:483 mg/kg DOVEAA 26,5,72

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

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

BQC750 CAS: 886-50-0 HR: 2

2-tert-BUTYLAMINO-4-ETHYLAMINO-6-METHYL MERCAPTO-s-TRIAZINE

mf: C₁₀H₁₉N₅S mw: 241.40

PROP: Powder. Mp: 104–105°. Very sltly sol in H₂O; sol in most org solvs.

SYNS: 4-AETHYLAMINO-2-tert-BUTYLAMINO-6-METHYLTHIO-s-TRIAZIN (GERMAN) □ 2-tert-BUTYLAMINO-4-ETHYLAMINO-6-METHYLTHIO-s-TRIAZINE □ 2-METHYLTHIO-4-ETHYLAMINO-6-tert-BUTYLAMINO-s-TRIAZINE

TOXICITY DATA with REFERENCE:

skn-rbt 380 mg open MLD CIGET* -,77
 eye-rbt 76 mg MOD CIGET* -,77
 orl-rat LD50:2045 mg/kg PESTD5 17,351,76
 ipr-rat LD50:699 mg/kg PESTD5 17,351,76
 orl-mus LD50:3884 mg/kg PESTD5 17,351,76
 ipr-mus LD50:554 mg/kg PESTD5 17,351,76
 orl-ckn LD50:4000 mg/kg 31ZOAD 1,56,68
 unr-mam LD50:2900 mg/kg 30ZDA9 -,438,71

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal and possibly other routes. A skin and eye irritant. An herbicide. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS and AMINES.

BQD000 CAS: 54340-62-4 HR: 3

2-tert-BUTYLAMINO-1-(7-ETHYL-2-BENZO FURANYL)ETHANOL HYDROCHLORIDE

mf: C₁₆H₂₃NO₂•ClH mw: 297.86

SYNS: BUFURALOL □ 1-(7-ETHYLBENZOFURAN-2-YL)-2-tert-BUTYLAMINO-1-HYDROXYETHANE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:750 mg/kg ARZNAD 27,1410,77
 scu-rat LD50:1400 mg/kg ARZNAD 27,1410,77
 orl-mus LD50:177 mg/kg ARZNAD 27,1410,77
 ipr-mus LD50:88 mg/kg ARZNAD 27,1410,77
 ivn-mus LD50:30 mg/kg ARZNAD 27,1410,77

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

BQD125 HR: 3
3-(2-(tert-BUTYLAMINO)ETHYL)-6-HYDROXY BENZYL ALCOHOL SULFATE (2:1)

mf: C₂₆H₄₂N₂O₄•O₄S mw: 542.76

TOXICITY DATA with REFERENCE:

ipr-rat LD50:295 mg/kg IYKEDH 9,222,78
 ivn-rat LD50:59 mg/kg IYKEDH 9,222,78
 orl-mus LD50:4750 mg/kg IYKEDH 9,222,78
 ipr-mus LD50:239 mg/kg IYKEDH 9,222,78
 scu-mus LD50:737 mg/kg IYKEDH 9,222,78
 ivn-mus LD50:49 mg/kg IYKEDH 9,222,78

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

BQD250 CAS: 3775-90-4 HR: 3
tert-BUTYL AMINO ETHYL METHACRYLATE

mf: C₁₀H₁₉NO₂ mw: 185.30

PROP: Liquid. Bp: 100–105°, d: 0.914, flash p: 205°F (OC).

SYNS: AGEFLEX FM-4 □ 2-(tert-BUTYLAMINO)ETHYL METHACRYLATE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:174 mg/kg JDREAF 51,526,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. See also ESTERS and AMINES. Combustible when exposed to heat or flame. To fight fire, use alcohol foam, water spray or mist, dry chemical. When heated to decomposition it emits toxic fumes of NO_x.

BQD500 CAS: 34866-46-1 HR: 3
(5-(2-(tert-BUTYLAMINO)-1-HYDROXYETHYL)-2-HYDROXYPHENYL)UREA HYDRO-CHLORIDE

mf: C₁₃H₂₁N₃O₃•ClH mw: 303.83

PROP: Solid. Mp: 205–207° (decomp).

SYN: CARBUTEROL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ivn-rat LD50:87 mg/kg JPETAB 189,167,74
 orl-mus LD50:3543 mg/kg JPETAB 189,167,74
 ivn-mus LD50:37 mg/kg JPETAB 189,167,74
 scu-gpg LD50:473 mg/kg JPETAB 189,167,74

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

BQE000 CAS: 68377-91-3 HR: 3
(±)-2-(3'-tert-BUTYLAMINO-2'-HYDROXY-PROPYL THIO)-4-(5'-CARBAMOYL-2'-THIENYL)THIAZOLE HYDROCHLORIDE

mf: C₁₅H₂₁N₃O₂S₃•ClH mw: 408.03

PROP: Crystals from MeOH (aq). Mp: 234–235.5°.

SYN: S 596

TOXICITY DATA with REFERENCE:

orl-rat LD50:86 mg/kg DRFUD4 4,442,79

orl-mus LD50:5000 mg/kg DRFUD4 4,442,79

ipr-mus LD50:360 mg/kg DRFUD4 4,442,79

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

BQE250 CAS: 56776-01-3 HR: 3
α-(tert-BUTYLAMINO)METHYL-2-CHLORO-BENZYL ALCOHOL HYDROCHLORIDE

mf: C₁₂H₁₈ClNO•ClH mw: 264.22

SYNS: α-((tert-BUTYLAMINO)METHYL)-o-CHLOROBENZYL ALCOHOL HYDROCHLORIDE □ C 78 □ o-CHLORO-α-((tert-BUTYLAMINO)METHYL)BENZYLALCOHOL HYDROCHLORIDE □ 1-(o-CHLOROPHENYL)-2-tert-BUTYLAMINO ETHANOL HYDROCHLORIDE □ LOBUTEROL □ TOLUBUTEROL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:780 mg/kg DRFUD4 1,217,76

ipr-rat LD50:104 mg/kg ARZNAD 25,1028,75

scu-rat LD50:349 mg/kg ARZNAD 25,1028,75

ivn-rat LD50:42 mg/kg YAKUD5 23,1107,81

orl-mus LD50:243 mg/kg DRFUD4 1,217,76

ipr-mus LD50:76 mg/kg ARZNAD 25,1028,75

scu-mus LD50:121 mg/kg IYKEDH 12,933,81

ivn-mus LD50:40 mg/kg ARZNAD 25,1028,75

orl-dog LD50:300 mg/kg ARZNAD 27,1439,77

SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Experimental reproductive effects. A bronchodilator. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also AMINES.

BQF250 CAS: 3703-79-5 HR: 3
α-((BUTYLAMINO)METHYL)-p-HYDROXY-BENZYL ALCOHOL

mf: C₁₂H₁₉NO₂ mw: 209.32

SYNS: BAMETHANE □ BUTEDRINE □ 2-BUTYLAMINO-1-p-HYDROXYPHENYLETHANOL □ α-((BUTYLAMINO)METHYL)-4-HYDROXYBENZENEMETHANOL □ BUTYL-NOR-SYMPATOL □ n-BUTYLNORSYPATHOL □ n-BUTYLNORSYNEPHRINE □ BUTYLSYPATHOL □ 1-(p-HYDROXYPHENYL)-2-BUTYLAMINO ETHANOL □ 1-(4-HYDROXYPHENYL)-1-HYDROXY-2-BUTYL AMINOETHANE

TOXICITY DATA with REFERENCE:

ivn-rat LD50:80 mg/kg RPOBAR 2,272,70

orl-mus LD50:562 mg/kg RPOBAR 2,272,70

ipr-mus LD50:150 mg/kg JPETAB 89,297,47

ivn-mus LD50:72 mg/kg RPOBAR 2,271,70

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. A vasodilator. When heated to decomposition it emits toxic fumes of NO_x. See also ALCOHOLS and AMINES.

BQF500 CAS: 18559-94-9 HR: 3
α'-((tert-BUTYL AMINO)METHYL)-4-HYDROXY-m-XYLENE-α,α'-DIOL

mf: C₁₃H₂₁NO₃ mw: 239.35

SYNS: AEORLIN □ AH 3365 □ ALBUTEROL □ BRONCOVALEAS □ 2-(tert-BUTYLAMINO)-1-(4-HYDROXY-3-HYDROXYMETHYL PHENYL)ETHANOL □ α-1-((tert-BUTYLAMINO)METHYL)-4-HYDROXY-m-XYLENE-α,α'-DIOL □ α-1-(((1,1-DIMETHYLETHYL) AMINO)METHYL)-4-HYDROXY-1,3-BENZENEDIMETHANOL □ 4-HYDROXY-3-HYDROXY-METHYL-α-((tert-BUTYLAMINO) METHYL)BENZYL ALCOHOL □ PROVENTIL □ SALBUTAMOL □ SOLBUTAMOL □ SULTANOL □ VENETLIN □ VENTOLIN

TOXICITY DATA with REFERENCE:

orl-man TDLo:5714 µg/kg;BAH,CVS AEMED3 22,1474,93

orl-chd TDLo:1850 µg/kg;CNS,CVS BMJOAE 282,1932,81

orl-wmn TDLo:2240 µg/kg;BAH AEMED3 22,1474,93

ihl-man TCLo:36 µg/kg/6H BMJOAE 292,1430,86

ivn-hmn TDLo:6 µg/kg;CVS BMJOAE 1,365,76

orl-rat LD50:660 mg/kg USXXAM #4026897

ipr-rat LD50:295 mg/kg IYKEDH 4,193,73

ivn-rat LD50:57,100 µg/kg USXXAM #4026987

ipr-mus LD50:239 mg/kg IYKEDH 4,193,73

scu-mus LD50:737 mg/kg IYKEDH 4,193,73

ivn-mus LD50:48,700 µg/kg IYKEDH 4,193,73

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. Human systemic effects: change in heart rate and plasma or blood volume pulse rate increase, tremors. Human (child) behavioral and cardiac effects by ingestion including tremors, excitement, and change in heart rate. Human maternal effects of the uterus, cervix, and vagina by ingestion. An experimental teratogen. Other experimental reproductive effects. A bronchodilator. When heated to decomposition it emits toxic fumes of NO_x.

BQF750 CAS: 86166-58-7 HR: 2
1-(tert-BUTYLAMINO)3-(3-METHYL-2-NITRO PHENOXY)-2-PROPANOL

mf: C₁₃H₂₂N₂O₄ mw: 282.38

SYNS: dl-1-(2-NITRO-3-EMTHYLPHENOXY)-3-tert-BUTYLAMINO-PROPAN-2-OL □ ZAMI 1305 □ dl-ZAMI 1305

TOXICITY DATA with REFERENCE:

dni-rat:lvrr 14 mmol/L CBINA8 50,77,84

oms-rat:lvrr 28 mmol/L CBINA8 50,77,84

oms-rat-ipr 300 mg/kg/6D CBINA8 52,203,84

dni-rat-ipr 100 mg/kg TOPADD 13,18,85

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

BQF825 CAS: 102071-76-1 HR: 3
2-(BUTYLAMINO)-2-METHYL-1-PROPANOL

BENZOATE HYDROCHLORIDEmf: $C_{15}H_{23}NO_2 \cdot ClH$ mw: 285.85**SYN:** 2-(BUTYLAMINO)-2-METHYL-1-PROPANOL BENZOATE (ester) HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:230 mg/kg AIPTAK 115,483,58

scu-mus LD50:305 mg/kg AIPTAK 115,483,58

ivn-mus LD50:21 mg/kg AIPTAK 115,483,58

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.**BQG250 HR: 3****2-(BUTYLAMINO)-N-METHYL-N-(1-(2,6-XYLYLOXY)-2-PROPYL) ACETAMIDE HYDROCHLORIDE****SYN:** C 6259**TOXICITY DATA with REFERENCE:**

eye-rbt 2% SEV ARZNAD 9,70,59

scu-mus LD50:170 mg/kg ARZNAD 9,70,59

SAFETY PROFILE: Poison by subcutaneous route. A severe eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and HCl.**BQG500 CAS: 102585-37-5 HR: 3****2-(sec-BUTYLAMINO)-N-METHYL-N-(1-(2,4-XYLYLOXY)-2-PROPYL)ACETAMIDE HYDROCHLORIDE**mf: $C_{18}H_{30}N_2O_2 \cdot ClH$ mw: 342.96**SYN:** C 6260**TOXICITY DATA with REFERENCE:**

eye-rbt 2% SEV ARZNAD 9,70,59

scu-mus LD50:180 mg/kg ARZNAD 9,70,59

SAFETY PROFILE: Poison by subcutaneous route. A severe eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and HCl.**BQG600 CAS: 4618-24-0 HR: 3****1-BUTYLAMINO-3-(NAPHTHYLOXY)-2-PROPANOL**mf: $C_{17}H_{23}NO_2$ mw: 273.41**SYN:** 2-PROPANOL, 1-BUTYLAMINO-3-(NAPHTHYLOXY)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:105 mg/kg FATOBP 35,29,72

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x .**BQG650 CAS: 103-62-8 HR: 2****4-(BUTYLAMINO)PHENOL**mf: $C_{10}H_{15}NO$ mw: 165.26**SYNS:** PHENOL, 4-(BUTYLAMINO)- □ TENAMENE 1**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:450 mg/kg NTIS** OTS0533716

skn-gpg LD50:>5 g/kg RCTEA4 45,627,192

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. When heated to decomposition it emits toxic vapors of NO_x .**BQG750 CAS: 102585-38-6 HR: 3**
2-(BUTYLAMINO)-N-(1-PHENOXY-2-PROPYL)**ACETAMIDE HYDROCHLORIDE**mf: $C_{15}H_{24}N_2O_2 \cdot ClH$ mw: 300.87**SYN:** C 6257**TOXICITY DATA with REFERENCE:**

eye-rbt 2% MLD ARZNAD 9,70,59

scu-mus LD50:245 mg/kg ARZNAD 9,70,59

SAFETY PROFILE: Poison by subcutaneous route. An eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x .**BQG850 CAS: 78907-15-0 HR: 3****3-(tert-BUTYLAMINO)PROPIONYLINDOLE HYDROCHLORIDE HYDRATE**mf: $C_{15}H_{20}N_2O \cdot ClH \cdot H_2O$ mw: 298.85**SYNS:** 2-(tert-BUTYLAMINO)-1-(3-INDOLYL)-1-PROPANONE HYDROCHLORIDE HYDRATE □ 2-(tert-BUTYLAMINO)-1-(3-INDOLYL)-1-PROPANONE MONOHYDROCHLORIDE, MONOHYDRATE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:515 µg/kg PCJOAU 15,412,81

scu-mus LD50:315 µg/kg PCJOAU 15,412,81

ivn-mus LD50:95 mg/kg PCJOAU 15,412,81

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and HCl.**BQH250 CAS: 528-97-2 HR: 3**
p-BUTYLAMINO SALICYLIC ACID-2-(DIETHYL AMINO)ETHYL ESTER HYDROCHLORIDEmf: $C_{17}H_{28}N_2O_3 \cdot ClH$ mw: 344.93**SYNS:** BRONCHIOCAIN □ BRONCHOCAIN □ BRONCHOC AINE □ 4-(BUTYLAMINO)SALICYLIC ACID 2-(DIETHYL-AMINO) ETHYL ESTER HYDROCHLORIDE □ 4-(BUTYL-AMINO)-SALICYLIC ACID 2-(DIETHYLAMINO)ETHYL ESTER MONO HYDROCHLORIDE □ C 4208 □ HCl SALZ DES p,N,N-BUTYL AMINOSALICYLSAEUREDIAETHYLAMINO AETHYL-ESTER (GERMAN) □ PARAESIN □ PHENOCAINE □ S 650 □ SALICYL-DIAETHYL (GERMAN) □ WOFACAIN A**TOXICITY DATA with REFERENCE:**

eye-rbt 2% SEV ARZNAD 8,708,58

ipr-rat LD50:62 mg/kg ARZNAD 1,218,51

ipr-mus LD50:12 mg/kg ARZNAD 1,218,51

scu-mus LD50:120 mg/kg ARZNAD 8,708,58

ivn-mus LD50:16 mg/kg ARZNAD 1,218,51

SAFETY PROFILE: A poison via intraperitoneal, subcutaneous, and intravenous routes. A severe eye irritant. See also AMINES and ESTERS. When heated to decomposition, it emits very toxic fumes of NO_x and HCl.**BQH500 CAS: 17284-75-2 HR: 3**
p-BUTYLAMINO SALICYLIC ACID-2-(DIMETHYL AMINO)ETHYL ESTER HYDROCHLORIDEmf: $C_{15}H_{24}N_2O_3 \cdot ClH$ mw: 316.87**PROP:** Crystals from H_2O . Mp: 157°. Sltly sol in H_2O .**SYNS:** C 4207 □ SALICYL-DIMETHYL (GERMAN)**TOXICITY DATA with REFERENCE:**

eye-rbt 2% SEV ARZNAD 8,708,58

ipr-rat LD50:90 mg/kg ARZNAD 1,218,51

ivn-rat LD50:12 mg/kg ARZNAD 1,218,51

scu-mus LD50:130 mg/kg ARZNAD 8,708,58

ivn-mus LD50:30 mg/kg ARZNAD 1,218,51

SAFETY PROFILE: Poison by subcutaneous, intraperitoneal, and intravenous routes. A severe eye irritant. See also AMINES and ESTERS. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

BQH750 CAS: 78308-37-9 HR: 3
p-BUTYLAMINO SALICYLIC ACID-1-ETHYL-4-PIPERIDYL ESTER HYDROCHLORIDE

mf: C₁₈H₂₈N₂O₃•ClH mw: 356.94

SYN: C 4211

TOXICITY DATA with REFERENCE:

eye-rbt 2% SEV ARZNAD 8,708,58

scu-mus LD50:57 mg/kg ARZNAD 8,708,58

SAFETY PROFILE: Poison by subcutaneous route. A severe eye irritant. See also AMINES and ESTERS. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.

BQH800 CAS: 7532-60-7 HR: 3
1-(BUTYLAMINO)-3-p-TOLUIDINO-2-PROPANOL

mf: C₁₄H₂₄N₂O mw: 236.40

SYN: 1-(BUTYLAMINO)-3-((4-METHYLPHENYL)AMINO)-2-PROPANOL (9CI)

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:7600 µg/kg JPETAB 107,250,53

orl-mus LDLo:20 mg/kg JPETAB 107,250,53

ipr-mus LD50:12,400 µg/kg JPETAB 109,407,53

ivn-mus LDLo:3 mg/kg JPETAB 107,250,53

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

BQH850 CAS: 1126-78-9 HR: 3
N-BUTYLANILINE

DOT: UN 2738

mf: C₁₀H₁₅N mw: 149.26

PROP: Liquid. D: 0.936 @ 20°/4°, bp: 249°. Sol in acids, EtOH, C₆H₆, CHCl₃; insol in H₂O.

SYNS: BENZENAMINE, N-BUTYL-(9CI) □ N-(n-BUTYL)-ANILINE □ N-n-BUTYLANILINE (DOT) □ N-BUTYL-BENZENAMINE (9CI) □ 4-(PHENYLAMINO)BUTANE

TOXICITY DATA with REFERENCE:

skn-rbt 20 mg/24H MOD 85JCAE -,465,86

eye-rbt 500 mg/24H MLD 85JCAE -,465,86

orl-rat LD50:1620 mg/kg AMIHBC 10,61,54

unr-mam LD50:282 mg/kg GISAAA 48(6),22,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by an unspecified route. Moderately toxic by skin contact and ingestion. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also ANILINE DYES.

BQI000 CAS: 25013-16-5 HR: 3
BUTYLATED HYDROXYANISOLE

mf: C₁₁H₁₆O₂ mw: 180.27

PROP: White waxy solid; faint characteristic odor. Mp: 104–105°. Sol in alc and propylene glycol; insol in water.

SYNS: ANTRANCINE 12 □ BHA (FCC) □ BUTYLHYDROXY-ANISOLE □ tert-BUTYLHYDROXYANISOLE □ tert-BUTYL-4-HYDROXYANISOLE □ 2(3)-tert-BUTYL-4-HYDROXYANISOLE □ BUTYLOHYDROKSYANIZOL (POLISH) □ EMBANOX □ FEMA No. 2183 □ NIPANTIOX 1-F □ PREMERGE PLUS □ SUSTANE □ SUSTANE 1-F □ TENOX BHA □ VERTAC

TOXICITY DATA with REFERENCE:

mmo-omi 12,500 µg/L FMLED7 14,183,82

sce-ham:fbr 100 µmol/L JNCIAM 58,1635,77

orl-rat LD50:2 g/kg TRENAF 22,231,70

ipr-rat LD50:881 mg/kg TOLED5 27,15,85

orl-mus LD50:1100 mg/kg TRENAF 22,231,70

orl-rbt LD50:2100 mg/kg JAOCA7 54,239,77

orl-rat LDLo:2200 mg/kg AFREAW 3,197,51

orl-mus LD50:2000 mg/kg AFREAW 3,197,51

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 40,123,86. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Moderately toxic by ingestion and intraperitoneal routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid and irritating fumes.

BQI010 CAS: 88-32-4 HR: 2
3-tert-BUTYLATED HYDROXYANISOLE

mf: C₁₁H₁₆O₂ mw: 180.27

SYNS: 3-tert-BHA □ 3-tert-BUTYL-4-METHOXYPHENOL

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

BQI050 HR: D
BUTYLATED HYDROXYMETHYLPHENOL

mf: C₁₅H₂₄O₂ mw: 236.35

PROP: White crystalline powder. Mp: 140–141°. Sol in alc; insol in water, propylene glycol.

SYN: 4-HYDROXYMETHYL-2,6-DI-tert-BUTYLPHENOL

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

BQI125 CAS: 84928-98-3 HR: 3
N-BUTYL-N-2-AZIDOETHYLNITRAMINE

mf: C₆H₁₃N₅O₂ mw: 187.20

(C₄H₉)N(NO₂)C₂H₄N₃

SAFETY PROFILE: An impact-sensitive explosive. When heated to decomposition it emits toxic fumes of NO_x. See also AZIDES.

BQI250 CAS: 1070-19-5 HR: 3
tert-BUTYL AZIDOFORMATE

mf: C₅H₉N₃O₂ mw: 143.17

PROP: Bp: 73–74° @ 70 mm.

(CH₃)₃COCO•N₃

SYNS: t-BUTOXYCARBONYL AZIDE □ tert-BUTOXY-CARBONYL AZIDE (DOT) □ tert-BUTYLOXYCARBONYL AZIDE □ CARBON AZIDIC ACID, 1,1-DIMETHYLETHYL ESTER □ FORMIC ACID, AZIDO-, tert-BUTYL ESTER

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: An unstable shock- and heat-sensitive explosive. It may explode above 100°C and ignites at 143°C. When heated to decomposition it emits toxic fumes of NO_x. See also AZIDES.

BQ1270 CAS: 50265-78-6 HR: 1
(E)-1-T-BUTYLAZO-1-HYDROXYCYCLOPENTANE

mf: C₉H₁₈N₂O mw: 170.29

SYNS: CYCLOPENTANOL, 1-((1,1-DIMETHYLETHYL)AZO)-, (E)- □ (E)-1-((1,1-DIMETHYLETHYL)AZO)CYCLOPENTANOL

TOXICITY DATA with REFERENCE:

ihl-rat LCLo: 20 g/m³/1H NTIS** OTS0555153

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

BQ1300 CAS: 64819-51-8 HR: 2
2-t-BUTYLAZO-2-HYDROXY-5-METHYLHEXANE

mf: C₁₁H₂₄N₂O mw: 200.37

SYNS: 2-((1,1-DIMETHYLETHYL)AZO)-5-METHYL-2-HEXANOL □ 2-HEXANOL, 2-((1,1-DIMETHYLETHYL)AZO)-5-METHYL-

TOXICITY DATA with REFERENCE:

ihl-rat LCLo: 860 mg/m³/6H EPASR* 8EHQ-0491-1041

skn-rbt LD50: 707 mg/kg EPASR* 8EHQ-0491-1041

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BQ1400 CAS: 57910-39-1 HR: 3
2-tert-BUTYLAZO-2-HYDROXYPROPANE

mf: C₇H₁₆N₂O mw: 144.25

SYNS: 2-((1-DIMETHYLETHYL)AZO)-2-PROPANOL □ LUCEL-3 □ 2-PROPANOL, 2-((1-DIMETHYLETHYL)AZO)- □ SN-1-3778-95

TOXICITY DATA with REFERENCE:

orl-rat LD50: 329 mg/kg EPASR* 8EHQ-0191-1154

ihl-rat LCLo: >2 g/m³/1H EPASR* 8EHQ-0191-1154

skn-rbt LD50: 88,400 µg/kg EPASR* 8EHQ-0191-1154

SAFETY PROFILE: A poison by ingestion and skin contact. Low toxicity by inhalation route. When heated to decomposition it emits toxic vapors of NO_x.

BQ1500 CAS: 63018-64-4 HR: 2
5-n-BUTYL-1,2-BENZANTHRACENE

mf: C₂₂H₂₀ mw: 284.42

SYN: 8-BUTYLBENZ(a)ANTHRACENE

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

BQ1750 CAS: 104-51-8 HR: 1
n-BUTYLBENZENE

mf: C₁₀H₁₄ mw: 134.24

PROP: Colorless liquid. Mp: -81.2°, bp: 182.1°, d: 0.875 @ 13°/4°, vap press: 1 mm @ 22.7°, autoign temp: 774°F, lel: 0.8%, uel: 5.8%, vap d: 4.6.

SYN: 1-PHENYLBUTANE

TOXICITY DATA with REFERENCE:

orl-rat LDLo: 5000 mg/kg AMIHAB 19,403,59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mildly toxic by ingestion.

Flammable when exposed to heat or flame. To fight fire, use alcohol foam, CO₂, dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits acrid and irritating fumes.

BQJ000 CAS: 135-98-8 HR: 3
sec-BUTYLBENZENE

mf: C₁₀H₁₄ mw: 134.24

PROP: Colorless liquid. Mp: -82.7°, bp: 173.5°, fp: -75.8°, flash p: 126°F (TOC), d: 0.8621 @ 20°, vap press: 1 mm @ 18.6°, vap d: 4.62, autoign temp: 788°F, lel: 0.8%, uel: 6.9%.

SYN: 2-PHENYLBUTANE

TOXICITY DATA with REFERENCE:

skn-rbt 100 mg/24H MOD 85JCAE -,36,86

eye-rbt 500 mg/24H MLD 85JCAE -,36,86

orl-rat LD50: 2240 mg/kg TXAPA9 28,313,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion. A skin and eye irritant. Flammable liquid when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical, water spray or mist. Incompatible with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes.

BQJ250 CAS: 98-06-6 HR: 3
tert-BUTYLBENZENE

mf: C₁₀H₁₄ mw: 134.24

PROP: Colorless liquid. Bp: 170-171°, fp: -58°, flash p: 140°F (TOC), d: 0.8665 @ 20°, vap press: 1 mm @ 13.0°, vap d: 4.62, autoign temp: 842°F, lel: 0.7% @ 212°F, uel: 5.7% @ 212°F.

SYNS: 2-METHYL-2-PHENYLPROPANE □

PSEUDOBUTYLBENZENE □ TRIMETHYLPHENYLMETHANE

TOXICITY DATA with REFERENCE:

orl-rat LDLo: 5000 mg/kg AMIHAB 19,403,59

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mildly toxic by ingestion.

Flammable liquid when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical, water spray, fog, mist. Incompatible with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes.

BQJ350 CAS: 122-43-0 HR: 1
BUTYLBENZENEACETATE

mf: C₁₂H₁₆O₂ mw: 192.28

SYNS: ACETIC ACID, PHENYL-, BUTYL ESTER □

BENZENEACETIC ACID, BUTYL ESTER (9CI) □ BUTYL

PHENYLACETATE □ n-BUTYL PHENYLACETATE □

PHENYLETHANOIC ACID BUTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 21,657,83
 orl-rat LD50:>5 g/kg FCTOD7 21,657,83
 skn-rbt LD50:>5 g/kg FCTOD7 21,657,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BQJ500 CAS: 583-03-9 HR: 3
α-BUTYLBENZENEMETHANOL

mf: C₁₁H₁₆O mw: 164.27

SYNS: α-BUTYLBENZYL ALCOHOL □ FENIPENTOL □ 1-HYDROXY-1-PHENYLPENTANE □ PANCORAL □ PC 1 □ PH BC □ PHENYLBUTYLCARBINOL □ 1-PHENYL-1-HYDROXY-PENTANE □ PHENYLPENTANOL □ 1-PHENYLPENTANOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:5432 mg/kg IYKEDH 4,90,72
 ipr-rat LD50:256 mg/kg NIIRDN 6,657,82
 scu-rat LD50:6930 mg/kg IYKEDH 4,90,73
 orl-mus LD50:2900 mg/kg OSDIAF 14,261,65
 ipr-mus LD50:188 mg/kg NIIRDN 6,657,82
 scu-mus LD50:3153 mg/kg IYKEDH 4,90,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. An experimental teratogen. Other experimental reproductive effects. Stimulates the production of bile by the liver. When heated to decomposition it emits acrid smoke and irritating fumes.

BQJ650 CAS: 3622-84-2 HR: 2
N-BUTYLBENZENESULFONAMIDE

mf: C₁₀H₁₅NO₂S mw: 213.32

SYNS: BENZENESULFONAMIDE, N-BUTYL- □ BENZENE SULFONIC ACID BUTYL AMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2050 mg/kg TPKVAL 15,110,79
 orl-mus LD50:2500 mg/kg TPKVAL 15,110,79
 orl-uns LD50:2900 mg/kg GISAAA 39(4),86,74

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.

BQJ750 CAS: 24425-13-6 HR: 3
2-tert-BUTYLBENZIMIDAZOLE

mf: C₁₁H₁₄N₂ mw: 174.27

TOXICITY DATA with REFERENCE:

mmo-sat 250 µg/plate CHIMAD 27,68,73
 ivn-mus LD50:56 mg/kg CSLNX* NX#07472

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

BQK000 CAS: 14255-87-9 HR: 2
5-BUTYL-2-BENZIMIDAZOLECARBAMIC ACID

METHYL ESTER

mf: C₁₃H₁₇N₃O₂ mw: 247.33

PROP: Crystals from EtOH (aq). Mp: 225–227° (decomp).

SYNS: N-(BUTYL-5-BENZIMIDAZOLYL)-2-CARBAMATE de METHYLE (FRENCH) □ (4-BUTYL-1H-BENZIMIDAZOL-2-YL)-CARBAMIC ACID METHYL ESTER □ 5-BUTYL-2-(CARBO METHOXYAMINO)BENZIMIDAZOLE □ HELMATAC □ METHYL-5-BUTYL-2-BENZIMIDAZOLECARBAMATE □ PARBENDAZOLE □ PBDZ □ SKF 29044 □ VERMINUM □ WORM GUARD

TOXICITY DATA with REFERENCE:

oms-hmn:leu 1 mg/L THERAP 31,505,76
 oms-dom:leu 1 mg/L THERAP 31,505,76
 orl-mus LD50:1700 mg/kg BSVMA8 77,379,75
 orl-dom LDLo:660 mg/kg AUVJA2 46,297,70

SAFETY PROFILE: Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. Human mutation data reported. An anthelmintic agent. When heated to decomposition it emits toxic fumes of NO_x. See also CARBAMATES.

BQK250 CAS: 136-60-7 HR: 2
BUTYL BENZOATE

mf: C₁₁H₁₄O₂ mw: 178.25

PROP: Liquid. Mp: –21.5°, bp: 248–249°, flash p: 225°F (OC), d: 1.01 @ 15°/15°, vap press: <0.01 mm @ 20°, vap d: 6.15.

SYNS: ANTHRAPOLE AZ □ BENZOIC ACID-n-BUTYL ESTER □ n-BUTYL BENZOATE □ DAI CARI XBN

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open SEV AMIHBC 10,61,54
 skn-rbt 500 mg open MOD UCDS** 10/15/58
 eye-rbt 500 mg AMIHBC 10,61,54
 orl-rat LD50:5140 mg/kg AMIHBC 10,61,54
 skn-rbt LD50:4000 mg/kg NPIRI* 2,7,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. Severe skin irritant and moderate eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO₂, dry chemical, water mist, fog, spray. When heated to decomposition it emits acrid and irritating fumes. See also ESTERS.

BQK500 CAS: 98-73-7 HR: 2
p-tert-BUTYL BENZOIC ACID

mf: C₁₁H₁₄O₂ mw: 178.25

PROP: Colorless, fine, crystalline powder. Mp: 163–164.4°, d: 1.142 @ 20°/4°.

SYN: TBBA

TOXICITY DATA with REFERENCE:

orl-rat LD50:700 mg/kg TSCAT* OTS0510267

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. An irritant. Combustible when exposed to heat or flame. Incompatible with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

BQK750 CAS: 95-31-8 HR: 3
N-tert-BUTYL-2-BENZOTHAZOLE-SULFENAMIDEmf: C₁₁H₁₄N₂S mw: 206.33**PROP:** Solid. Mp: 107.5–109°.**SYNS:** PENNAC TBBS □ VANNAX NS**TOXICITY DATA with REFERENCE:**

mma-mus:lym 40 mg/L ENMUDM 5,193,83

otr-mus:emb 35 mg/L ENMUDM 5,193,83

orl-rat LDLo:7940 mg/kg JACTDZ 1,104,90

ipr-mus LD50:5 g/kg IPSTB3 3,93,76

ivn-mus LD50:180 mg/kg CSLNX* NX#02241

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Low toxicity by ingestion. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.**BQK800 CAS: 23902-88-7 HR: 3**
4-(p-tert-BUTYLBENZYL)PIPERAZINYL β-(p-CHLOROPHENYL) KETONEmf: C₃₀H₃₆ClN₂O mw: 476.13**SYNS:** 1-(p-tert-BUTYLBENZYL)-4-(3-(p-CHLOROPHENYL)-3-PHENYLPROPIONYL)PIPERAZINE □ KETONE, 4-(p-tert-BUTYLBENZYL)PIPERAZINYL β-(p-CHLOROPHENYL)PHENETHYL □ PIPERAZINE, 1-(p-tert-BUTYLBENZYL)-4-(3-(p-CHLOROPHENYL)-3-PHENYLPROPIONYL)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:800 mg/kg JMCMA 12,860,69

DOT CLASSIFICATION: 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**BQK830 CAS: 17766-62-0 HR: 3**
4-(p-tert-BUTYLBENZYL)PIPERAZINYL 3,4,5-TRIMETHOXYPHENYL KETONEmf: C₂₅H₃₄N₂O₄ mw: 426.61**SYNS:** 1-(p-tert-BUTYLBENZYL)-4-(3,4,5-TRIMETHOXYBENZOYL)PIPERAZINE □ KETONE, 4-(p-tert-BUTYLBENZYL)PIPERAZINYL 3,4,5-TRIMETHOXYPHENYL □ PIPERAZINE, 1-(p-tert-BUTYLBENZYL)-4-(3,4,5-TRIMETHOXYBENZOYL)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:800 mg/kg JMCMA 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.**BQK850 CAS: 61481-19-4 HR: 3**
tert-BUTYL-BICYCLOPHOSPHATEmf: C₉H₂₀O₂ mw: 206.20**PROP:** Crystals from C₆H₆ or H₂O. Mp: 321–324°.**SYNS:** 2-(tert-BUTYL)-2-(HYEROXYMETHYL)-1,3-PROPANEDIOL, CYCLIC PHOSPHATE (1:1) □ 4-tert-BUTYL-1-OXO-1-PHOSPHA-2,6,7-TRIOXABICYCLO(2.2.2)OCTANE □ 4-(tert-BUTYL)-2,6,7-TRIOXA-1-PHOSPHABICYCLO(2.2.2)OCTAN-1-ONE**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:35 µg/kg TXAPA9 46,411,78

orl-mus LD50:45 µg/kg TXAPA9 46,411,78

ipr-mus LD50:35 µg/kg TXAPA9 46,411,78

ivn-mus LD50:120 µg/kg

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of PO_x. See also PHOSPHATES.**BQL000 CAS: 1190-53-0 HR: 3**
N-BUTYLBIGUANIDE HYDROCHLORIDEmf: C₆H₁₅N₅•ClH mw: 193.72**SYNS:** ANDERE □ BIFORON □ BIGUNAL □ BUFONAMIN □ BUFORMIN HYDROCHLORIDE □ BULBONIN □ 1-BUTYL BIGUANIDE HYDROCHLORIDE □ 1-BUTYLDIGUANIDE HYDROCHLORIDE □ N-BUTYLIMIDODICARBONIMIDIC DIAMIDE MONOHYDROCHLORIDE (9CI) □ DIABRIN □ DIBETOS □ GLIBUTIDE □ GLIPORAL □ INSULAMIN □ KREBON □ PANFORMIN □ SILUBIN □ SINDIATIL □ TIDEMOL □ ZIAVETINE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:380 mg/kg ARZNAD 12,314,62

ipr-mus LD50:380 mg/kg JAJAAA 18,196,65

ivn-mus LD50:105 mg/kg ARZNAD 12,314,62

SAFETY PROFILE: A poison via ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.**BQL500 CAS: 64037-56-5 HR: 3**
sec-BUTYLBIS(2-CHLOROETHYL)AMINE HYDROCHLORIDEmf: C₈H₁₇Cl₂N•ClH mw: 234.62**SYNS:** sec-BUTYL-BIS(β-CHLOROETHYL)AMINE HYDROCHLORIDE □ N-sec-BUTYL-2,2'-

DICHLORODIETHYLAMINE, HYDROCHLORIDE □ TL 524

TOXICITY DATA with REFERENCE:

orl-rat LDLo:50 mg/kg NCNSA6 5,11,53

ipr-mus LD50:2800 µg/kg CANCAR 2,1055,49

scu-mus LDLo:2 mg/kg NDRC** No. 9-4-1-9,43

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.**BQL750 CAS: 64037-57-6 HR: 3**
tert-BUTYLBIS(β-CHLOROETHYL)AMINE HYDROCHLORIDEmf: C₈H₁₇Cl₂N•ClH mw: 234.62**SYNS:** tert-BUTYLBIS(2-CHLOROETHYL)AMINE HYDROCHLORIDE □ N-tert-BUTYL-2,2'-DICHLORO-DIETHYLAMINE HYDROCHLORIDE □ TL 568**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:75 mg/kg NCNSA6 5,11,53

ipr-rat LD50:3 mg/kg CPBTAL 8,99,60

ipr-mus LD50:1420 µg/kg CANCAR 2,1055,49

scu-mus LDLo:25 mg/kg NTIS** PB158-507

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also AMINES.**BQM000 CAS: 102-79-4 HR: 2**
N-BUTYL-N,N-BIS(HYDROXY ETHYL)AMINEmf: C₈H₁₉NO₂ mw: 161.28

PROP: Liquid. Mp: -70° , bp: $273-275^{\circ}$, flash p: 245°F (OC), d: 0.97, vap d: 5.55.

SYNS: N-BUTYLDIETHANOLAMINE \square N-BUTYL-2,2'-IMINODIETHANOL

TOXICITY DATA with REFERENCE:

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

eye-rbt 750 μg open SEV AMIHBC 10,61,54

orl-rat LD50:4250 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic via ingestion. A skin and severe eye irritant. Combustible when exposed to heat or flame. To fight fire, use alcohol foam, foam, CO_2 , dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits toxic fumes of NO_x . See also AMINES.

BQM250 CAS: 507-19-7 HR: 2
tert-BUTYL BROMIDE

mf: $\text{C}_4\text{H}_9\text{Br}$ mw: 137.04

PROP: Colorless liquid. Mp: -20° , bp: 72.8° , fp: -16.3° , d: 1.20 @ $15^{\circ}/4^{\circ}$.

SYNS: 2-BROMOISOBUTANE \square 2-BROMO-2-

METHYLPROPANE (DOT) \square TRIMETHYLBROMOMETHANE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1250 mg/kg 85GMAT -,29,82

ipr-mus LD50:4400 mg/kg 85GMAT -,29,82

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

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of Br^- . See also BROMIDES.

BQM309 CAS: 1867-72-7 HR: 3
N-tert-BUTYL-1,4-BUTANEDIAMINE DIHYDROCHLORIDE

mf: $\text{C}_8\text{H}_{20}\text{N}_2 \cdot 2\text{ClH}$ mw: 217.22

SYNS: N-tert-BUTYL-1,4-DIAMINOBTANE DIHYDROCHLORIDE \square CI-505 \square DIBUTADIAMIN DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:810 mg/kg AIPTAK 154,263,65

ipr-rat LD50:349 mg/kg AIPTAK 154,263,65

scu-rat LD50:390 mg/kg AIPTAK 154,263,65

ivn-rat LD50:186 mg/kg AIPTAK 154,263,65

orl-mus LD50:1280 mg/kg AIPTAK 154,263,65

ipr-mus LD50:418 mg/kg AIPTAK 154,263,65

scu-mus LD50:1000 mg/kg AIPTAK 154,263,65

ivn-mus LD50:88 mg/kg AIPTAK 154,263,65

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

BQM500 CAS: 109-21-7 HR: 3
n-BUTYL n-BUTANOATE

mf: $\text{C}_8\text{H}_{16}\text{O}_2$ mw: 144.24

PROP: Colorless liquid; pineapple odor. Bp: 166° , flash p: 128°F (OC), d: 0.67–0.871, refr index: 1.405, vap d: 5.0.

Misc with alc, ether, vegetable oils; sltly sol in propylene glycol, water.

SYNS: BUTYL BUTYRATE (FCC) \square n-BUTYL BUTYRATE \square n-BUTYL n-BUTYRATE \square FEMA No. 2186

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,521,79

ipr-rat LD50:2300 mg/kg FCTXAV 17,521,79

ipr-mus LD50:8900 mg/kg FCTXAV 17,521,79

orl-rbt LD50:9520 mg/kg IMSUAI 41,31,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic via intraperitoneal route. Mildly toxic by ingestion. Moderately irritating to eyes, skin, and mucous membranes by inhalation. Narcotic in high concentrations. Flammable liquid. To fight fire, use alcohol foam, foam, CO_2 , dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits acrid and irritating fumes.

BQM750 CAS: 63937-32-6 HR: 3
BUTYL-2-BUTOXYCYCLOPROPANE-1-CARBOXYLATE

mf: $\text{C}_{12}\text{H}_{22}\text{O}_3$ mw: 214.34

SYN: 2-BUTOXY-CYCLOPROPANECARBOXYLIC ACID BUTYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:24 mg/kg TXAPA9 28,313,74

skn-rbt LD50:110 mg/kg TXAPA9 28,313,74

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

BQN250 CAS: 78329-87-0 HR: 3
p-(N-BUTYL-2-(BUTYLAMINO)ACETAMIDO)-BENZOIC ACID BUTYL ESTER HYDROCHLORIDE

mf: $\text{C}_{20}\text{H}_{32}\text{N}_2\text{O}_3 \cdot \text{ClH}$ mw: 385.00

SYN: C 3192

TOXICITY DATA with REFERENCE:

eye-rbt 2% SEV ARZNAD 8,609,58

ipr-rat LD50:260 mg/kg ARZNAD 8,609,58

scu-mus LD50:2825 mg/kg ARZNAD 8,609,58

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. See also ESTERS. A severe eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x .

BQN500 CAS: 78218-43-6 HR: 3
N-BUTYL-2-(BUTYLAMINO)-2',6'-PROPIONOXYLIDIDE HYDROCHLORIDE

mf: $\text{C}_{19}\text{H}_{32}\text{N}_2\text{O} \cdot \text{ClH}$ mw: 340.99

SYN: C 3160

TOXICITY DATA with REFERENCE:

eye-rbt 2% SEV ARZNAD 8,609,58

ipr-rat LD50:68 mg/kg ARZNAD 8,609,58

scu-mus LD50:256 mg/kg ARZNAD 8,609,58

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. A severe eye irritant. When heated to decomposition it emits very toxic fumes of HCl and NO_x . See also AMINES.

BQN600 CAS: 33629-47-9 HR: 3
N-sec-BUTYL-4-tert-BUTYL-2,6-DINITROANILINEmf: C₁₄H₂₁N₃O₄ mw: 295.38**SYNS:** A 820 □ 72-A34 □ AMCHEM 70-25 □ AMCHEM A-280 □ AMEX □ AMEX 820 □ ANILINE, N-sec-BUTYL-4-tert-BUTYL-2,6-DINITRO- □ 70-314B □ BENZENAMINE, 4-(1,1-DIMETHYLETHYL)-N-(1-METHYLPROPYL)-2,6-DINITRO-(9CI) □ BUTALIN □ BUTRALIN □ BUTRALINE □ DIBUTALIN □ 4-(1,1-DIMETHYLETHYL)-N-(1-METHYLPROPYL)-2,6-DINITROBENZENAMINE □ RUTRALIN □ TAMEX**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2500 mg/kg SWSPBE 24,58,71

ihl-rat LC50:50 g/m³/4H SWSPBE 24,58,71

skn-rbt LD50:200 mg/kg FMCHA2 -,C55,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by skin contact. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**BQP000 CAS: 7492-70-8 HR: 1**
BUTYL BUTYROLACTATEmf: C₁₁H₂₀O₄ mw: 216.28**PROP:** Colorless liquid; butter, creamlike odor. D: 0.970, refr index: 1.420, flash p: 212°F. Misc with alc, fixed oils; sol in propylene glycol; insol in water.**SYNS:** BUTANOIC ACID-2-BUTOXY-1-METHYL-2-OXOETHYL ESTER (9CI) □ BUTYL BUTYRYL LACTATE □ BUTYRIC ACID ESTER with BUTYL LACTATE □ FEMA No. 2190 □ LACTIC ACID, BUTYL ESTER, BUTYRATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H FCTXAV 17,241,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. See also ESTERS. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.**BQP250 CAS: 592-35-8 HR: 3**
BUTYL CARBAMATEmf: C₅H₁₁NO₂ mw: 117.17**SYNS:** CARBAMIC ACID, BUTYL ESTER □ USAF EL-101 □ USAF FO-1**TOXICITY DATA with REFERENCE:**

mmo-esc 5000 ppm/3H AMNTA4 85,119,51

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

scu-mus LD50:540 mg/kg AJEBAK 45,507,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison via intraperitoneal route. Moderately toxic via subcutaneous route. Experimental teratogenic effects. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. See also CARBAMATES. When heated to decomposition it emits toxic fumes of NO_x.**BQP500 CAS: 124-17-4 HR: 2**
BUTYL CARBITOL ACETATEmf: C₁₀H₂₀O₄ mw: 204.30**PROP:** Colorless liquid. Fp: -32.2°, bp: 247°, flash p: 240°F (OC), d: 0.981 @ 20°/20°, autoign temp: 570°F, vap press: 0.01 mm @ 20°.**SYNS:** 2-(2-BUTOXYETHOXY)ETHANOL ACETATE □ 2-(2-BUTOXYETHOXY)ETHYL ACETATE □ DIETHYLENE GLYCOL BUTYL ETHER ACETATE □ DIGLYCOL MONOBUTYL ETHER ACETATE □ EKTASOLVE DB ACETATE □ GLYCOL ETHER DB ACETATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 12/29/71

eye-rbt 500 mg AJOPAA 29,1363,46

orl-rat LD50:6500 mg/kg 28ZEAL 5,32,76

orl-mus LD50:6600 mg/kg JPETAB 93,26,48

orl-rbt LD50:2600 mg/kg JPETAB 82,377,44

skn-rbt LD50:14,500 mg/kg NPIRI* 1,27,74

orl-gpg LD50:2340 mg/kg JHTAB 23,259,41

orl-ckn LD50:5000 mg/kg JPETAB 93,26,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Glycol ethers are on the Community Right-To-Know List.**SAFETY PROFILE:** Moderately toxic by ingestion. Mild skin and eye irritant. Combustible when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical. Incompatible with oxidizing materials, heat, flame. When heated to decomposition it emits acrid smoke and irritating fumes.**BQP750 CAS: 85-70-1 HR: 2**
BUTYL CARBOBUTOXYMETHYL PHTHALATEmf: C₁₈H₂₄O₆ mw: 336.42**SYNS:** BUTYL PHTHALATE BUTYL GLYCOLATE □ BUTYL PHTHALYL BUTYL GLYCOLATE □ DIBUTYL-*o*-(*o*-CARBOXYBENZOYL) GLYCOLATE □ DIBUTYL-*o*-CARBOXYBENZOYL-OXYACETATE □ SANTICIZIER B-16**TOXICITY DATA with REFERENCE:**

eye-rbt 500 mg AJOPAA 29,1363,46

cyt-ham:fbr 125 mg/L/24H MUREAV 48,337,77

orl-rat LD50:7 g/kg EVHPAZ 3,131,73

ipr-rat LD50:6889 mg/kg JPMSAE 61,51,72

orl-mus LD50:12,567 mg/kg IPSTB3 3,93,76

ipr-mus LD50:6880 mg/kg JSCCA5 28,667,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic via intraperitoneal route. Experimental teratogenic and reproductive effects. Mutation data reported. An eye irritant. When heated to decomposition it emits acrid and irritating fumes.**BQQ250 CAS: 38252-74-3 HR: 3**
N-BUTYL-(3-CARBOXY PROPYL)NITROSAMINEmf: C₈H₁₆N₂O₃ mw: 188.26**SYNS:** BCPN □ 4-(BUTYLNITROSOAMINO)BUTANOIC ACID □ N-NITROSO-N-BUTYL-N-(3-CARBOXYPROPYL)AMINE**TOXICITY DATA with REFERENCE:**

mmo-sat 10 μmol/plate CNREA8 37,399,77

dnd-rat-par 50 mg/kg CBINA8 29,291,80

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 17,51,78. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Mutation

data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BQQ750 CAS: 109-69-3 HR: 3
n-BUTYL CHLORIDE

mf: C₄H₉Cl mw: 92.58

PROP: Colorless liquid. Mp: -123.1°, bp: 78.5°, lel: 1.9%, uel: 10.1%, flash p: 15°F (OC), d: 0.892 @ 15°, autoign temp: 860°F, fp: -123.1°, vap d: 3.20.

SYNS: BUTYL CHLORIDE (DOT) □ 1-CHLOROBUTANE (DOT) □ CHLORURE de BUTYLE (FRENCH) □ NCI-C06155 □ N-PROPYLCARBINYL CHLORIDE

TOXICITY DATA with REFERENCE:

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

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

msc-mus:lym 500 mg/L NTPTR* NTP-TR-312,86

orl-rat LD50:2670 mg/kg AMIHBC 10,61,54

ihl-rat LCLo:8000 ppm/4H AMIHBC 10,61,54

skn-rbt LDLo:20 g/kg 34ZIAG -,745,69

CONSENSUS REPORTS: NTP Carcinogenesis Studies (gavage); No Evidence: mouse, rat NTPTR* NTP-TR-312,86. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. See CHLORINATED HYDROCARBONS, ALIPHATIC. Skin and eye irritant. Dangerous fire hazard when exposed to heat or flame. Moderately explosive when exposed to flame. When heated to decomposition it emits highly toxic fumes of phosgene and Cl⁻. To fight fire, use foam, CO₂, dry chemical. Incompatible with oxidizing materials.

BQR000 CAS: 507-20-0 HR: 3
tert-BUTYL CHLORIDE

mf: C₄H₉Cl mw: 92.58

PROP: Liquid. Flash p: 32°F, d: 0.87, vap d: 3.2, bp: 51°, fp: -27.1°.

SYNS: 2-CHLOROISOBUTANE □ 2-CHLORO-2-METHYLPROPANE □ TRIMETHYLCHLOROMETHANE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Dangerous fire hazard when exposed to heat, flame (sparks), and oxidizers. To fight fire, use water, spray, fog, alcohol foam, dry chemical. When heated to decomposition it emits toxic fumes of Cl⁻. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

BQR100 CAS: 107-59-5 HR: 3
tert-BUTYL CHLOROACETATE

mf: C₆H₁₁ClO₂ mw: 150.62

SYNS: ACETIC ACID, CHLORO-, tert-BUTYL ESTER □ ACETIC ACID, CHLORO-, 1,1-DIMETHYLETHYL ESTER □ CHLORO ACETIC ACID tert-BUTYL ESTER □ 1,1-DIMETHYLETHYL CHLOROACETATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/4H SEV IJTOFN 19,333,2000

eye-rbt 100 µL/24H MOD IJTOFN 19,333,2000

orl-rat LD50:380 mg/kg IJTOFN 19,333,2000

ihl-rat LC50:4738 mg/m³/4H IJTOFN 19,333,2000

skn-rat LD50:1414 mg/kg IJTOFN 19,333,2000

SAFETY PROFILE: A poison by ingestion. Moderately toxic by inhalation skin contact. S severe skiin and moderate eye irritant. When heated to decomposition it emits toxic vapors of Cl⁻.

BQR250 CAS: 27778-80-9 HR: 3
β-sec-BUTYL-3-CHLORO-N,N-DIMETHYL-4-ETHOXYPHENETHYLAMINE

mf: C₁₆H₂₆ClNO mw: 283.88

TOXICITY DATA with REFERENCE:

orl-rat LD50:400 mg/kg CHTPBA 6,453,71

ivn-mus LD50:30 mg/kg CHTPBA 6,453,71

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also AMINES.

BQR750 CAS: 27778-78-5 HR: 3
β-sec-BUTYL-3-CHLORO-N,N-DIMETHYL-4-METHOXYPHENETHYLAMINE

mf: C₁₅H₂₄ClNO mw: 269.85

TOXICITY DATA with REFERENCE:

orl-rat LD50:400 mg/kg CHTPBA 6,453,71

ivn-mus LD50:37 mg/kg CHTPBA 6,453,71

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also AMINES.

BQS000 CAS: 33132-85-3 HR: 3
β-sec-BUTYL-5-CHLORO-N,N-DIMETHYL-2-METHOXYPHENETHYLAMINE

mf: C₁₅H₂₄ClNO mw: 269.85

TOXICITY DATA with REFERENCE:

orl-mus LD50:115 mg/kg CHTPBA 6,453,71

ivn-mus LD50:25 mg/kg CHTPBA 6,453,71

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also AMINES.

BQS250 CAS: 33132-71-7 HR: 3
β-sec-BUTYL-p-CHLORO-N,N-DIMETHYL PHENETHYLAMINE

mf: C₁₄H₂₂ClN mw: 239.82

TOXICITY DATA with REFERENCE:

orl-mus LD50:145 mg/kg CHTPBA 6,453,71

ivn-mus LD50:40 mg/kg CHTPBA 6,453,71

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also AMINES.

BQS300 CAS: 18162-48-6 HR: 2
tert-BUTYLCHLORODIMETHYLSILANE

mf: C₆H₁₅ClSi mw: 150.75

SYNS: tert-BUTYLDIMETHYLCHLOROSILANE □ tert-BUTYLDIMETHYLSILYL CHLORIDE □ SILANE, T-BUTYL CHLORODIMETHYL- □ SILANE, CHLORO-tert-BUTYLDI

METHYL- □ SILANE, CHLORO(1,1-DIMETHYLETHYL)

DIMETHYL- □ TBDMS CHLORIDE

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:1 g/kg StoGD# 27MAY1975

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of Cl⁻.**BQT000 CAS: 29122-56-3 HR: 3**
 β -sec-BUTYL-5-CHLORO-2-ETHOXY-N,N-DIISOPROPYLPHENETHYLAMINEmf: C₂₀H₃₄ClNO mw: 340.00**TOXICITY DATA with REFERENCE:**

orl-mus LD50:220 mg/kg CHTPBA 6,453,71

ivn-mus LD50:31 mg/kg CHTPBA 6,453,71

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x. See also AMINES.**BQT250 CAS: 29122-60-9 HR: 3**
1-(β -sec-BUTYL-5-CHLORO-2-ETHOXY PHENETHYL)PIPERIDINEmf: C₁₉H₃₀ClNO mw: 323.95**TOXICITY DATA with REFERENCE:**

orl-rat LD50:400 mg/kg CHTPBA 6,453,71

ivn-mus LD50:27 mg/kg CHTPBA 6,453,71

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and Cl⁻.**BQT500 CAS: 16224-33-2 HR: 2**
BUTYL (3-CHLORO-2-HYDROXYPROPYL) ETHERmf: C₇H₁₅ClO₂ mw: 166.67**SYN:** BUTYL-CHLORHYDRINETHER (CZECH)**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD 28ZPAK -,81,72

eye-rbt 250 µg/24H SEV 28ZPAK -,81,72

orl-rat LD50:3520 mg/kg 28ZPAK -,81,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A skin and severe eye irritant. See also ETHERS. When heated to decomposition it emits toxic fumes of Cl⁻.**BQT600 CAS: 12002-53-8 HR: 2**
t-BUTYL-CHLORO-2-METHYL-CYCLOHEXANE CARBOXYLATEmf: C₁₂H₂₁ClO₂ mw: 232.78**SYNS:** CYCLOHEXANECARBOXYLIC ACID, CHLORO-2-METHYL-, tert-BUTYL ESTER □ CYCLOHEXANECARBOXYLIC ACID, 4(or 5)-CHLORO-2-METHYL-, tert-BUTYL ESTER (8CI) □ CYCLOHEXANECARBOXYLIC ACID, 4(or 5)-CHLORO-2-METHYL-, 1,1-DIMETHYLETHYL ESTER (9CI) □ ENT 31,560 □ PHEROCON MFF □ TRIMEDLURE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4556 mg/kg TXAPA9 31,421,75

ihl-rat LC50:>2900 mg/m³ TXAPA9 31,421,75

skn-rbt LDLo:2025 mg/kg TXAPA9 31,421,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by skin contact. Low toxicity by ingestion and inhalation. When heated to decomposition it emits toxic vapors of Cl⁻.**BQT750 CAS: 5902-51-2 HR: 1**
3-tert-BUTYL-5-CHLORO-6-METHYLURACILmf: C₉H₁₃ClN₂O₂ mw: 216.69**PROP:** Crystals or solid. Mp: 175–177°. Sltly sol in H₂O.**SYNS:** 3-tert-BUTYL-5-CHLOR-6-METHYLURACIL (GERMAN) □ 5-CHLORO-3-tert-BUTYL-6-METHYLURACIL □ 5-CHLORO-3-(1,1-DIMETHYLETHYL)-6-METHYL-2,4(1H,3H)-PYRIMIDINEDIONE □ COMPOUNE 732 □ DU PONT 732 □ DU PONT HERBICIDE 732 □ EXPERIMENTAL HERBICIDE 732 □ SINBAR □ TERBACIL □ TURBSVIL**TOXICITY DATA with REFERENCE:**

orl-rat LD50:7500 mg/kg FMCHA2 -,D302,80

unk-mam LD50:5000 mg/kg 30ZDA9 -,421,71

SAFETY PROFILE: Mildly toxic by ingestion and possibly other routes. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.**BQU000 CAS: 56139-33-4 HR: 3**
tert-BUTYL CHLOROPEROXYFORMATEmf: C₅H₉ClO₃ mw: 152.58
(CH₃)₃COOCO•Cl**SAFETY PROFILE:** A storage hazard. May ignite or explode at room temperature. When heated to decomposition it emits toxic fumes of Cl⁻. See also PEROXIDES, ORGANIC.**BQU500 CAS: 5902-52-3 HR: 3**
o-(4-tert-BUTYL-2-CHLOROPHENYL)-o-METHYL PHOSPHORAMIDOTHIONATEmf: C₁₁H₁₇ClNO₂PS mw: 293.77**SYNS:** DOWCO 109 □ METHYL-PHOSPHORAMIDOTHIOIC ACID o-(tert-BUTYL-2-CHLOROPHENYL)ESTER □ NARLENE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:820 mg/kg TXAPA9 21,315,72

orl-bwd LD50:75 mg/kg TXAPA9 21,315,72

SAFETY PROFILE: Poison by ingestion. See also ESTERS. When heated to decomposition it emits very toxic fumes of SO_x, PO_x, NO_x, and Cl⁻.**BQU600 CAS: 34763-20-7 HR: 2**
BUTYL(4-CHLOROPHENYL)METHYL 3-PYRIDINYLCARBONIMIDODITHIOATEmf: C₁₇H₁₉ClN₂S₂ mw: 350.95**SYN:** CARBONIMIDODITHIOIC ACID, 3-PYRIDINYL-, BUTYL(4-CHLOROPHENYL)METHYL ESTER**TOXICITY DATA with REFERENCE:**

orl-mus LD50:>600 mg/kg USXXAM #3899582

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Cl⁻.**BQU750 CAS: 67195-50-0 HR: 2**
tert-20-BUTYLCHOLANTHRENEmf: C₂₄H₂₂ mw: 310.46

SYN: 3-tert-BUTYLCHOLANTHRENE

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

BQV000 CAS: 1189-85-1 HR: 3
tert-BUTYL CHROMATE

mf: $C_8H_{18}CrO_4$ mw: 230.26
 $[(CH_3)_3CO]_2CrO_2$

PROP: Red crystals from pet ether. IDLH 15 mg/m³ {as Cr(VI)}.

SYN: CHROMIC ACID, DI-tert-BUTYL ESTER

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

OSHA PEL: CL 0.1 mg(CrO₃)/m³ (skin)

ACGIH TLV: CL 0.1 mg(CrO₃)/m³ (skin)

NIOSH REL: (Chromium(VI)) CL 0.001 Mg(Cr(VI))/m³

SAFETY PROFILE: A very flammable mixture. When heated to decomposition it emits acrid and irritating fumes. See CHROMIUM COMPOUNDS and ESTERS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Chromium Hexavalent 7024.

BQV250 CAS: 7492-44-6 HR: 2
α-BUTYLCINNAMALDEHYDE

mf: $C_{13}H_{16}O$ mw: 188.2

SYNS: BUTYL CINNAMIC ALDEHYDE □ α-BUTYLCINNAMIC ALDEHYDE □ α-n-BUTYL-β-PHENYLACROLEIN □ 2-(PHENYLMETHYLENE)HEXANAL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV FCTXAV 18,649,80

orl-rat LD50:4400 mg/kg FCTXAV 18,649,80

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

BQV500 CAS: 538-65-8 HR: 1
n-BUTYL CINNAMATE

mf: $C_{13}H_{16}O_2$ mw: 204.27

SYNS: n-BUTYL PHENYLACRYLATE □ CINNAMIC ACID-n-BUTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 18,649,80

orl-rat LD50:>5 g/kg FCTXAV 18,655,80

orl-mus LD50:7 g/kg APFRAD 14,370,56

skn-rbt LD50:>5 g/kg FCTXAV 18,655,80

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

BQV600 CAS: 88-60-8 HR: 2
6-tert-BUTYL-m-CRESOL

mf: $C_{11}H_{16}O$ mw: 164.27

SYNS: 2-(1,1-DIMETHYLETHYL)-5-METHYLPHENOL □ PHENOL, 2-tert-BUTYL-5-METHYL-

TOXICITY DATA with REFERENCE:

orl-mus LD50:1080 mg/kg JAPMA8 38,366,49

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

BQV750 CAS: 2409-55-4 HR: 3
2-tert-BUTYL-p-CRESOL

mf: $C_{11}H_{16}O$ mw: 164.27

PROP: Clear liquid, sol in org solvs and aqueous potassium hydroxide. Fp: 23.1°, bp: 118–119° @ 14 mm, d: 0.922, flash p: 116°F.

SYNS: 2-tert-BUTYL-p-KRESOL (CZECH) □ 2-tert-BUTYL-4-METHYLPHENOL

TOXICITY DATA with REFERENCE:

skn-rbt 2 mg/24H SEV 85JCAE -,227,86

eye-rbt 50 µg/24H SEV 28ZPAK -,55,72

dni-hmn:lyms 25 µmol/L RCOCB8 54,133,86

orl-rat LD50:2500 mg/kg TPKVAL 12,124,71

orl-mus LD50:700 mg/kg JAPMA8 38,366,49

ipr-mus LD50:144 mg/kg JMCMA8 18,868,75

ivn-mus LD50:10 mg/kg CSLNX* NX#03020

skn-rbt LD50:2200 mg/kg JAPMA8 38,366,49

orl-gpg LD50:1180 mg/kg TPKVAL 12,124,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and skin contact. Questionable carcinogen with experimental neoplastigenic data. A severe skin and eye irritant. Mutation data reported. Flammable liquid when exposed to heat, flame, or oxidizers. To fight fire, use alcohol foam, foam, water spray, fog, dry chemical. When heated to decomposition it emits acrid and irritating fumes.

BQW000 CAS: 98-52-2 HR: 3
4-tert-BUTYLCYCLOHEXANOL

mf: $C_{10}H_{20}O$ mw: 156.30

SYNS: PADARYL □ USAF DO-20

TOXICITY DATA with REFERENCE:

orl-rat LD50:4200 mg/kg FCTXAV 12,807,74

ipr-mus LD50:50 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 acrid smoke and irritating fumes. See also ALCOHOLS.

BQW250 CAS: 98-53-3 HR: 1
p-tert-BUTYLCYCLOHEXANONE

mf: $C_{10}H_{18}O$ mw: 154.28

PROP: Crystals. Mp: 49–50°, bp: 90–92° @ 9 mm.

TOXICITY DATA with REFERENCE:

orl-rat LD50:5000 mg/kg FCTXAV 13,681,75

skn-rbt LD50:5000 mg/kg FCTXAV 13,681,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BQW490 CAS: 88-41-5 HR: 1
2-tert-BUTYLCYCLOHEXYL ACETATE

mf: $C_{12}H_{22}O_2$ mw: 198.34

SYNS: 1-ACETOXY-2-tert-BUTYLCYCLOHEXANE □ 2-tert-BUTYLCYCLOHEXANOL ACETATE □ CYCLOHEXANOL, 2-(1,1-

DIMETHYLETHYL)-, ACETATE □ 2-(1,1-DIMETHYLETHYL)
CYCLOHEXANOL ACETATE □ GRUMEX □ VERDOX

TOXICITY DATA with REFERENCE:

orl-rat LD50:4600 mg/kg FCTOD7 30,13S,92

skn-rbt LD50:>5 g/kg FCTOD7 30,13S,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BQW500 CAS: 32210-23-4 HR: 1

***p*-tert-BUTYLCYCLOHEXYL ACETATE**

mf: C₁₂H₂₂O₂ mw: 198.34

SYNS: 4-tert-BUTYLCYCLOHEXYL ACETATE □ 4-tert-BUTYLHEXAHYDROPHENYL ACETATE □ VERTENEX

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,637,78

orl-rat LD50:5000 mg/kg FCTXAV 16,637,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BQW750 CAS: 10108-56-2 HR: 3

N-BUTYL CYCLOHEXYL AMINE

mf: C₁₀H₂₁N mw: 155.32

PROP: Liquid. Flash p: 200°F (OC), d: 0.8, bp: 207°.

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:330 mg/kg AIHAAP 23,95,62

skn-rbt LD50:530 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: A poison by ingestion. Moderately toxic by skin contact. See also AMINES. A skin irritant. Combustible when exposed to heat or flame. To fight fire, use alcohol foam. When heated to decomposition it emits toxic fumes of NO_x.

BQW825 CAS: 841-73-6 HR: 3
5-BUTYL-1-CYCLOHEXYLBARBITURIC ACID

mf: C₁₄H₂₂N₂O₃ mw: 266.38

PROP: Needles from methanol. Mp: 84°, bp: 185–187°.

SYNS: BCP □ BUCOLOM □ BUCOLOME □ 5-BUTYL-1-CYCLOHEXYL-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE □ 5-n-BUTYL-1-CYCLOHEXYL-2,4,6-TRIOXOPERHYDROPYRIMIDINE □ PARAMIDIN □ PARAMIDINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1115 mg/kg NIIRDN 6,675,82

ipr-rat LD50:455 mg/kg NIIRDN 6,675,82

orl-mus LD50:1550 mg/kg NIIRDN 6,675,82

ipr-mus LD50:550 mg/kg ARZNAD 17,1519,67

SAFETY PROFILE: Poison by ingestion and intravenous routes. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also BARBITURATES.

BQX000 CAS: 61925-70-0 HR: 3
**N-(4-tert-BUTYL CYCLOHEXYL)-3,3-DIPHENYL
PROPYLAMINE HYDROCHLORIDE**

mf: C₂₅H₂₅N•ClH mw: 375.97

SYN: MG 18037

TOXICITY DATA with REFERENCE:

orl-rat LD50:2550 mg/kg ARZNAD 26,2127,76

ipr-rat LD50:137 mg/kg ARZNAD 26,2127,76

orl-mus LD50:1850 mg/kg ARZNAD 26,2127,76

ipr-mus LD50:98 mg/kg ARZNAD 26,2127,76

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

BQX250 CAS: 89-19-0 HR: 1

BUTYL DECYL PHTHALATE

mf: C₂₂H₃₄O₄ mw: 362.56

SYNS: DECYL BUTYL PHTHALATE □ PLASTICIZER BDP

TOXICITY DATA with REFERENCE:

orl-rat LD50:21 g/kg AIHAAP 30,470,69

skn-rbt LD50:16 g/kg AIHAAP 30,470,69

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

BQX750 HR: 3

tert-BUTYL DIAZOACETATE

mf: C₆H₁₀N₂O₂ mw: 142.16

SAFETY PROFILE: May explode during vacuum distillation. When heated to decomposition it emits toxic fumes of NO_x.

BQY000 CAS: 10457-58-6 HR: 2

14-n-BUTYL DIBENZ(a,h)ACRIDINE

mf: C₂₅H₂₁N mw: 335.47

SYN: 10-n-BUTYL-1,2,5,6-DIBENZACRIDINE (FRENCH)

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also AROMATIC AMINES.

BQY250 CAS: 2422-88-0 HR: 2

n-BUTYL-2-DIBUTYLTHIOUREA

mf: C₁₃H₂₈N₂S mw: 244.49

TOXICITY DATA with REFERENCE:

orl-rat LD50:3000 mg/kg TNICS* 13,78,73

orl-mus LD50:4300 mg/kg TNICS* 13,78,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BQY275 CAS: 2156-72-1 HR: 2

tert-BUTYLDICHLOROAMINE

mf: C₄H₉Cl₂N mw: 142.04

SYNS: CP 99109 □ N,N-DICHLORO-tert-BUTYLAMINE □ N,N-DICHLORO-1,1-DIMETHYLETHYLAMINE □ ETHYLAMINE, N,N-DICHLORO-1,1-DIMETHYL- □ 2-PROPANAMINE, N,N-DICHLORO-2-METHYL-

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL/24H SEV NTIS** OTS0546156

orl-rat LD50:780 mg/kg NTIS** OTS0546156

ihl-rat LCLo:33,300 mg/m³/30M NTIS** OTS0546156

skn-rbt LD :>1260 mg/kg NTIS** OTS0546156

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Low toxicity by inhalation. A severe eye irritant. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

BQY300 CAS: 684-82-2 HR: 3

sec-BUTYLDICHLOROARSINE

mf: C₄H₉AsCl₂ mw: 202.95

SYNS: ARSINE, sec-BUTYLDICHLORO- □ ARSONOUS DICHLORIDE, (1-METHYLPROPYL)-(9CI) □ sec-BUTYLDI CHLORARSINE □ DICHLORO(1-METHYLPROPYL)ARSINE

TOXICITY DATA with REFERENCE:

ihl-mus LC50:12 g/m³/10M NTIS** PB158-508

OSHA PEL: TWA 0.5 mg(As)/m³

SAFETY PROFILE: Poison by inhalation. When heated to decomposition it emits toxic fumes of As and Cl⁻.

BQY500 CAS: 14090-22-3 HR: 3

BUTYLDICHLOROBORANE

mf: C₄H₉BCl₂ mw: 138.7

PROP: Air and moisture-sensitive liquid. Bp: 106–108°.

SAFETY PROFILE: Explosive reaction on contact with water. Ignites in air after a delay period. When heated to decomposition it emits toxic fumes of Cl⁻. See also BORANES and BORON COMPOUNDS.

BQZ000 CAS: 94-80-4 HR: 2

BUTYL DICHLOROPHENOXYACETATE

mf: C₁₂H₁₄Cl₂O₃ mw: 277.16

PROP: Bp: 146–147° @ 1 mm.

SYNS: BUTYL 2,4-D □ BUTYL (2,4-DICHLOROPHENOXY) ACETATE □ 2,4-D BUTYL ESTER □ BUTYL ESTER 2,4-D □ (2,4-DICHLOROPHENOXY)ACETIC ACID, BUTYL ESTER □ ESSO HERBICIDE 10 □ FERNESTA □ LIRONOX □ SHELL 40

TOXICITY DATA with REFERENCE:

orl-rat LD50:600 mg/kg FAATDF 9,423,87

orl-mus LD50:425 mg/kg 85GMAT -29,82

orl-cat LD50:780 mg/kg 85GMAT -29,82

CONSENSUS REPORTS: IARC Cancer Review:

Animal Inadequate Evidence IMEMDT 15,111,77

SAFETY PROFILE: Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. Questionable carcinogen. An herbicide. See also ESTERS. When heated to decomposition it emits toxic fumes of Cl⁻.

BQZ100 CAS: 34763-43-4 HR: 2

BUTYL (3,4-DICHLOROPHENYL)METHYL 3-PYRIDINYLCARBONIMIDODITHIOATE

mf: C₁₇H₁₈Cl₂N₂S₂ mw: 385.39

SYN: CARBONIMIDODITHIOIC ACID, 3-PYRIDINYL-, BUTYL (3,4-DICHLOROPHENYL)METHYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD50:800 mg/kg USXXAM #3899582

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

BRA250 CAS: 555-37-3 HR: 3

1-BUTYL-3-(3,4-DICHLOROPHENYL)-1-METHYLUREA

mf: C₁₂H₁₆Cl₂N₂O mw: 275.20

PROP: White or colorless crystals from dioxan (aq). Mp: 101.5–103°. Sltly sol in hydrocarbon solvents: practically insol in water.

SYNS: N-BUTYL-N'-(3,4-DICHLOROPHENYL)-N-METHYL-UREA □ 3-(3,4-DICHLOROPHENYL)-1-N-BUTYL-HARNSTOFF (GERMAN) □ 3-(3,4-DICHLOROPHENYL)-1-METHYL-1-BUTYL-UREA □ GRANUREX □ KLOBEN □ KLOBEN NEBURON □ NEBUREA □ NEBUREX □ NEBURON

TOXICITY DATA with REFERENCE:

orl-rat LD50:11,000 mg/kg 85ARAE 2,144,77

ivn-mus LD50:180 mg/kg CSLNX* NX#03862

SAFETY PROFILE: Poison by intravenous route. Mildly toxic by ingestion. See also CHLORIDES and NITROGEN MONOXIDE. When heated to decomposition it emits toxic fumes of Cl⁻ and NO_x.

BRA300 CAS: 39807-15-3 HR: D

5-tert-BUTYL-3-(2,4-DICHLORO-5-PROPARGYLOXYPHENYL)-1,3,4-OXADIAZOL-2(3H)-ONE

mf: C₁₅H₁₄Cl₂N₂O₃ mw: 341.21

SYNS: 3-(2,4-DICHLORO-5-(2-PROPYNYLOXY)PHENYL)-5-(1,1-DIMETHYLETHYL)-1,3,4-OXADIAZOL-2(3H)-ONE □ 1,3,4-OXADIAZOL-2(3H)-ONE, 3-(2,4-DICHLORO-5-(2-PROPYNYLOXY)PHENYL)-5-(1,1-DIMETHYLETHYL)- □ RP 020630

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

BRA500 CAS: 102489-47-4 HR: 3

2-(BUTYL(2-(DIETHYLAMINO)ETHYL)AMINO)-6'-CHLORO-o-ACETOTOLUIDIDE HYDROCHLORIDE

mf: C₁₉H₃₂ClN₃O•ClH mw: 390.45

SYN: C 5388

TOXICITY DATA with REFERENCE:

eye-rbt 2% MLD ARZNAD 9,167,59

ipr-rat LD50:31 mg/kg ARZNAD 9,167,59

scu-mus LD50:47 mg/kg ARZNAD 9,167,59

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. An eye irritant. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.

BRA550 CAS: 17563-48-3 HR: 3

n-BUTYLDIETHYL TIN IODIDE

mf: C₈H₁₉ISn mw: 360.86

SYN: STANNANE, BUTYLDIETHYLIODO-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:7100 µg/kg CSLNX* NX#05977

OSHA PEL: TWA 0.1 mg(Sn)/m³

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)

NIOSH REL: (Organotin compound): 10H TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of Sn and I⁻.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BRA600 CAS: 29149-32-4 HR: 3
***tert*-BUTYLDIFLUOROPHOSPHINE**

mf: C₄H₉F₂P mw: 126.09
 (CH₃)₃CPF₂

PROP: Liquid. Bp: 54°.

SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of F⁻ and PO_x. See also PHOSPHINE.

BRA625 CAS: 692-13-7 HR: 3
1-BUTYLDIGUANIDE

mf: C₆H₁₅N₅ mw: 157.26

PROP: Strong base. Very sol in water.

SYNS: BUFORMIN □ BUFORMINE □ BUTFORMIN □ BUTYLBIGUANIDE □ BUTYLDIGUANIDE □ DBV □ GLYBIGID □ H 224 □ W 37

TOXICITY DATA with REFERENCE:

orl-mus LD50:300 mg/kg JMCMA 24,1521,81

ipr-mus LD50:140 mg/kg JMCMA 24,1521,81

scu-gpg LD50:18 mg/kg MEXPAG 8,237,63

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

BRB000 CAS: 62018-91-1 HR: D
N-BUTYL-N-(2,4-DIHYDROXYBUTYL) NITROSAMINE

mf: C₈H₁₈N₂O₃ mw: 190.28

SYN: 4-(BUTYLNITROSOAMINO)-1,3-BUTANEDIOL

TOXICITY DATA with REFERENCE:

mma-sat 11 μmol/plate CNREA 37,399,77

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BRB100 CAS: 80060-09-9 HR: 2
1-*tert*-BUTYL-3-(2,6-DI-ISOPROPYL-4-PHENOXY PHENYL)THIOUREA

mf: C₂₃H₃₂N₂OS mw: 384.63

SYNS: N-(2,6-BIS(1-METHYLETHYL)-4-PHENOXYPHENYL)-N'-(1,1-DIMETHYLETHYL)THIOUREA □ CGA 106630 □ DIAFENTHIURON □ THIOUREA, N-(2,6-BIS(1-METHYLETHYL)-4-PHENOXYPHENYL)-N'-(1,1-DIMETHYLETHYL)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:2068 mg/kg PEMNDP 9,240,91

ihl-rat LC50:558 mg/m³/14H PEMNDP 9,240,91

skn-rat LD50:>2 g/kg PEMNDP 9,240,91

orl-qal LD50:>1500 mg/kg PEMNDP 9,240,91

orl-dck LD50:>1500 mg/kg PEMNDP 9,240,91

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

BRB200 CAS: 66902-73-6 HR: 3
BUTYLDIMETHYL(2-(3-ACETYL-2-METHYL-1-INDOLIZINYL)-2-METHYLETHYL)-AMMONIUM IODIDE

mf: C₂₀H₃₁N₂O•I mw: 442.43

SYN: AMMONIUM, BUTYLDIMETHYL(2-(3-ACETYL-2-METHYL-1-INDOLIZINYL)-2-METHYLETHYL)-, IODIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:400 mg/kg JMCMA 6,361,1963

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

BRB300 CAS: 927-62-8 HR: 2
BUTYLDIMETHYLAMINE

mf: C₆H₁₅N mw: 101.22

SYNS: AR 84996 □ BUTYLAMINE, N,N-DIMETHYL- □ 1-BUTANAMINE, N,N-DIMETHYL- □ N,N-DIMETHYL-1-BUTANAMINE □ N,N-DIMETHYLBUTYLAMINE

TOXICITY DATA with REFERENCE:

eye-rbt 100 μL/24H MOD NTIS** OTS0535667

orl-rat LDLo:500 mg/kg NTIS** OTS0535667

ihl-rat LCLo:200 g/m³/4H NTIS** OTS0535667

skn-rbt LD :>2 g/kg NTIS** OTS0535667

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

BRB450 CAS: 24596-39-2 HR: 2
4'-n-BUTYL-4-DIMETHYLAMINOAZOBENZENE

mf: C₁₈H₂₃N₃ mw: 281.44

SYNS: ANILINE, p-((p-BUTYLPHENYL)AZO)-N,N-DIMETHYL- □ p-((p-BUTYLPHENYL)AZO)-N,N-DIMETHYLANILINE

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

BRB460 CAS: 24596-41-6 HR: 2
4'-*tert*-BUTYL-4-DIMETHYLAMINOAZO-BENZENE

mf: C₁₈H₂₃N₃ mw: 281.44

SYNS: ANILINE, p-((*tert*-BUTYL)PHENYL)AZO)-N,N-DIMETHYL- □ p-((*tert*-BUTYLPHENYL)AZO)-N,N-DIMETHYLANILINE

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

BRB500 CAS: 69745-66-0 HR: 3
4-(1-*sec*-BUTYL-2-(DIMETHYLAMINO)ETHYL) PHENOL

mf: C₁₄H₂₃NO mw: 221.38

TOXICITY DATA with REFERENCE:

orl-mus LD50:375 mg/kg CHTPBA 6,453,71

ivn-mus LD50:73 mg/kg CHTPBA 6,453,71

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

BRB750 CAS: 33098-26-9 HR: 3
2-(1-*sec*-BUTYL-2-(DIMETHYLAMINO)ETHYL) QUINOLINE

mf: C₁₇H₂₄N₂ mw: 256.43

TOXICITY DATA with REFERENCE:

orl-mus LD50:60 mg/kg CHTPBA 6,453,71

ivn-mus LD50:20 mg/kg CHTPBA 6,453,71

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

BRC000 CAS: 33098-27-0 HR: 3
2-(1-sec-BUTYL-2-(DIMETHYLAMINO)ETHYL) QUINOXALINE

mf: C₁₆H₂₃N₃ mw: 257.42

TOXICITY DATA with REFERENCE:

orl-mus LD50:102 mg/kg CHTPBA 6,453,71

ivn-mus LD50:35 mg/kg CHTPBA 6,453,71

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

BRC250 CAS: 34548-72-6 HR: 3
2-(1-sec-BUTYL-2-(DIMETHYLAMINO)ETHYL) THIOPHENE

mf: C₁₂H₂₁NS mw: 211.40

TOXICITY DATA with REFERENCE:

orl-mus LD50:260 mg/kg CHTPBA 6,453,71

ivn-mus LD50:50 mg/kg CHTPBA 6,453,71

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

BRC500 CAS: 51003-83-9 HR: 3
2-n-BUTYL-3-DIMETHYLAMINO-5,6-METHYLENE DIOXYINDENE HYDROCHLORIDE

mf: C₁₆H₂₁NO₂•ClH mw: 295.84

SYNS: 6-BUTYL-5-DIMETHYLAMINO-5H-INDENO(5,6-d)-1,3-DIOXOLE HYDROCHLORIDE □ bu-MDI

TOXICITY DATA with REFERENCE:

ipr-rat LD50:240 mg/kg RCOCB8 26,85,79

ipr-mus LD50:185 mg/kg RCOCB8 26,85,79

ivn-mus LD50:32 mg/kg RCOCB8 26,85,79

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

BRC750 CAS: 6279-54-5 HR: 2
BUTYL-3-((DIMETHYLAMINO)METHYL)-4-HYDROXYBENZOATE

mf: C₁₄H₂₁NO₃ mw: 251.36

TOXICITY DATA with REFERENCE:

orl-mus LDLo:2000 mg/kg ARZNAD 11,85,61

scu-mus LD50:475 mg/kg ARZNAD 11,85,61

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

BRD000 CAS: 5221-53-4 HR: 3
5-BUTYL-2-(DIMETHYLAMINO)-6-METHYL-4(1H)-PYRIMIDINONE

mf: C₁₁H₁₉N₃O mw: 209.33

SYNS: 5-n-BUTYL-2-DIMETHYLAMINO-4-HYDROXY-6-METHYLPYRIMIDINE □ 5-BUTYL-2-(DIMETHYLAMINO)-6-METHYL-4-PYRIMIDINOL □ DIMETHIRIMOL □ 2-DIMETHYLAMINO-4-HYDROXY-5-n-BUTYL-6-METHYL PYRIMIDINE □ 2-

DIMETHYLAMINO-4-METHYL-5-n-BUTYL-6-HYDROXY PYRIMIDINE □ METHYRIMOL □ MILCURB □ PP 675

TOXICITY DATA with REFERENCE:

orl-rat LD50:2350 mg/kg WRPCA2 9,119,70

ipr-rat LDLo:200 mg/kg NATUAS 219,1160,68

orl-mus LD50:800 mg/kg 28ZEAL 5,79,76

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

BRD500 CAS: 27778-82-1 HR: 3
β-sec-BUTYL-N,N-DIMETHYL-2-ETHOXY-5-FLUOROPHENETHYLAMINE

mf: C₁₆H₂₆FNO mw: 267.43

TOXICITY DATA with REFERENCE:

orl-rat LD50:285 mg/kg CHTPBA 6,453,71

ivn-mus LD50:11 mg/kg CHTPBA 6,453,71

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also AMINES.

BRD600 CAS: 51308-64-6 HR: 2
o-BUTYL S-((4-(1,1-DIMETHYLETHYL)PHENYL)METHYL)-3-PYRIDINYLCARBONIMIDOTHIOATE

mf: C₂₁H₂₈N₂OS mw: 356.57

SYN: CARBONIMIDOTHIOIC ACID, 3-PYRIDINYL-, o-BUTYL S-((4-(1,1-DIMETHYLETHYL)PHENYL)METHYL) ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD50:>1 g/kg USXXAM #3899582

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

BRD750 CAS: 27684-90-8 HR: 3
β-sec-BUTYL-N,N-DIMETHYL-5-FLUORO-2-METHOXYPHENETHYLAMINE

mf: C₁₅H₂₄FNO mw: 253.40

TOXICITY DATA with REFERENCE:

orl-rat LD50:300 mg/kg CHTPBA 6,453,71

ivn-mus LD50:18 mg/kg CHTPBA 6,453,71

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also AMINES.

BRE000 CAS: 56654-53-6 HR: 2
1-BUTYL-3,3-DIMETHYL-1-NITROSOUREA

mf: C₇H₁₅N₃O₂ mw: 173.25

TOXICITY DATA with REFERENCE:

mno-esc 4 mmol/L CPBTAL 34,5056,86

orl-rat TDLo:3140 mg/kg/45W-C:ETA,REP JNCIAM

56,1177,76

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

BRE250 CAS: 33132-61-5 HR: 3
β-sec-BUTYL-N,N-DIMETHYLPHENETHYLAMINE

mf: C₁₄H₂₃N mw: 205.38**TOXICITY DATA with REFERENCE:**

orl-mus LD50:170 mg/kg CHTPBA 6,453,71

ivn-mus LD50:31 mg/kg CHTPBA 6,453,71

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.**BRE255****HR: 3** **β -sec-BUTYL-N,N-DIMETHYLPHENETHYL-AMINE HYDROCHLORIDE**mf: C₁₄H₂₃N•ClH mw: 241.84**SYNS:** 1-DIMETHYLAMINO-2-PHENYL-3-METHYLPENTANE HYDROCHLORIDE □ Z-134**TOXICITY DATA with REFERENCE:**

orl-rat LD50:357 mg/kg JPETAB 117,451,56

ipr-rat LD50:93 mg/kg JPETAB 117,451,56

ims-rat LD50:119 mg/kg JPETAB 117,451,56

orl-mus LD50:237 mg/kg JPETAB 117,451,56

ipr-mus LD50:110 mg/kg JPETAB 117,451,56

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intramuscular routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.**BRE300****CAS: 67626-66-8****HR: 2****N-BUTYL-2,6-DIMETHYL-1-PIPERIDINE CARBOXAMIDE**mf: C₁₂H₂₄N₂O mw: 212.38**SYNS:** 1-PIPERIDINECARBOXAMIDE, N-BUTYL-2,6-DIMETHYL- □ RH-46920**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD NTIS** OTS0544804

eye-rbt 100 mg/24H MOD NTIS** OTS0544804

orl-rat LDLo:3200 mg/kg NTIS** OTS0544804

SAFETY PROFILE: Moderately toxic by ingestion. A moderate skin and eye irritant. When heated to decomposition it emits toxic vapors of NO_x.**BRE500****CAS: 88-85-7****HR: 3****2-sec-BUTYL-4,6-DINITROPHENOL**mf: C₁₀H₁₂N₂O₅ mw: 240.24**PROP:** Crystals from pentane (tech grade usually liquid). Vap d: 7.73, mp: 40–41°.**SYNS:** ARETT □ BASANITE □ BNP 30 □ BUTAPHENE □ CALDON □ CHEMOX GENERAL □ CHEMOX P.E. □ DINITRO □ DINITRO-3 □ 4,6-DINITRO-2-sec-BUTYLPHENOL (CZECH) □ DINITROBUTYLPHENOL □ 2,4-DINITRO-6-sec-BUTYLPHENOL □ 4,6-DINITRO-o-sec-BUTYLPHENOL □ 4,6-DINITRO-2-sec-BUTYLPHENOL □ 4,6-DINITRO-2-(1-METHYL-N-PROPYL)PHENOL □ 2,4-DINITRO-6-(1-METHYL-PROPYL)PHENOL (FRENCH) □ DINOSEB □ DINOSEBE (FRENCH) □ DN 289 □ DNBP □ DNOSBP □ DNSBP □ DOW GENERAL □ DOW GENERAL WEED KILLER □ DOW SELECTIVE WEED KILLER □ ELGETOL □ ELGETOL 318 □ ENT 1,122 □ GEBUTOX □ HEL-FIRE □ KILOSEB □ 6-(1-METHYL-PROPYL)-2,4-DINITROFENOL (DUTCH) □ 2-(1-METHYLPROPYL)-4,6-DINITROPHENOL □ 6-(1-METIL-PROPIl)-2,4-DINITRO-FENOLO (ITALIAN) □ NITRO PONE C □ PHENOTAN □ PREMERGE □ PREMERGE 3 □ RCRA WASTE NUMBER P020 □ SINOX GENERAL □ SPARIC □ SPURGE □ SUBITEX □ UNICROP DNBP □ VERTAC DINITRO WEED KILLER □

VERTAC GENERAL WEED KILLER □ VERTAC SELECTIVE WEED KILLER

TOXICITY DATA with REFERENCE:

eye-rbt 50 µg/24H SEV 28ZPAK -,108,72

mrc-smc 185 ppm MUREAV 21,83,73

orl-rat LD50:25 mg/kg TXAPA9 7,353,65

skn-rat LD50:80 mg/kg WRPCA2 9,119,70

scu-rat LD50:20,368 µg/kg JPPMAB 4,1062,52

orl-mus LD50:16 mg/kg 85GMAT -,61,82

ihl-cat LCLo:45 mg/m³/3H 85GMAT -,61,82

skn-rbt LD50:80 mg/kg 31ZOAD 1,178,68

CONSENSUS REPORTS: EPA Genetic Toxicology Program. EPA Extremely Hazardous Substances List.**SAFETY PROFILE:** A poison by ingestion, inhalation, skin contact, subcutaneous, and intraperitoneal routes. Experimental teratogenic and reproductive effects. A severe eye irritant. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. An herbicide. When heated to decomposition it emits toxic fumes of NO_x.**BRE750****CAS: 6420-47-9****HR: 3****o-sec-BUTYL-4,6-DINITROPHENOL-TRIETHANOLAMINE SALT**mf: C₁₆H₂₇N₃O₈ mw: 389.46**SYNS:** 2-sec-BUTYL-4,6-DINITROPHENOL- 2,2',2"-NITRILOTRIETHANOL SALT □ DINITROBUTYLPHENOL- 2,2',2"-NITRILOTRIETHANOL SALT □ 2-(1-METHYL-N-PROPYL)-4,6-DINITROPHENOL TRIETHANOLAMINE SALT**TOXICITY DATA with REFERENCE:**

orl-rat LD50:37 mg/kg SPEADM 74-1,-,74

skn-rat LD50:80 mg/kg SPEADM 74-1,-,74

SAFETY PROFILE: Poison by ingestion and skin contact. When heated to decomposition it emits toxic fumes of NO_x.**BRF500****CAS: 50-33-9****HR: 3****4-BUTYL-1,2-DIPHENYL-3,5-DIOXO-PYRAZOLIDINE**mf: C₁₉H₂₀N₂O₂ mw: 308.41**PROP:** Crystals from EtOH. Mp: 105.5–106.5°.**SYNS:** ALINDOR □ ALQOVERIN □ ANERVAL □ ANTADOL □ ANUSPIRAMIN □ ARTIZIN □ ARTRIZONE □ ARTROPAN □ AZDID □ AZOLID □ BENZONE □ BETAZED □ BUSONE □ BUTACOMPREN □ BUTACOTE □ BUTALAN □ BUTALGINA □ BUTALIDON □ BUTAPIRAZOL □ BUTAPYRAZOLE □ BUTARECBON □ BUTARTRINA □ BUTAZINA □ BUTAZONA □ BUTAZONE □ BUTIDIONA □ BUTONE □ BUTOZ □ 4-BUTYL-1,2-DIPHENYLPYRAZOLIDINE-3,5-DIONE □ BUTYLPYRIN □ BUVETZONE □ BUZON □ DIGIBUTINA □ DIOSSIDONE □ 3,5-DIOXO-1,2-DIPHENYL-4-N-BUTYLPYRAZOLIDENE □ DIOZOL □ DIPHEBUZOL □ DIPHENYLBUTAZONE □ 1,2-DIPHENYL-4-BUTYL-3,5-DIOXOPYRAZOLIDINE □ ELMEDAL □ EQUI BUTE □ ERIBUTAZONE □ ESTEVE □ FENARTIL □ FENIBUTAZONA □ FENIBUTOL □ FENILBUTINE □ FENILIDINA □ FENOTONE □ FENYLBUTAZON □ FLEXAZONE □ INTALBUT □ IPSOFLAME □ LINGEL □ MALGESIC □ MEPHABUTAZONE □ MERIZONE □ NADOZONE □ NCI-C56531 □ NOVOPHENYL □ PHEBUZIN □ PHENBUTAZOL □ PHENOPYRINE □ PHENYLBUTAZON (GERMAN) □ PHENYLBUTAZONE □ PIRARREUMOL "B" □ PRAECIRHEUMIN □ PYRAZOLIDIN □

REUDO □ REUMASYL □ REUMAZOL □ REUPOLAR □
 RUBATONE □ SCANBUTAZONE □ SHIGRODIN □ TAZONE □
 TEVCODYNE □ THERAZONE □ TODALGIL □ UZONE □
 WESCOZONE □ ZOLAPHEN □ ZOLIDINUM □ ZORANE

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MOD CMROCX 4,17,76
 oms-hmn:emb 20 mg/L BEXBAN 74,828,72
 mnt-mus-ipr 50 mg/kg IJEBAA6 18,869,80
 orl-man TDLo:4368 mg/kg/4Y-C:CAR,BLD BMJOAE
 1,744,64
 orl-man TD:140 mg/kg/3W-C:CAR,BLD BMJOAE
 2,1552,60
 par-hmn LDLo:168 mg/kg/2W-I:SYS 27ZXA3 -,448,63
 orl-man TDLo:17,500 µg/kg/3W-I:KID AIMEAS
 41,1075,54
 unr-man TDLo:200 mg/kg/5W-I:CVS,KID BMJOAE
 282,950,81
 unr-wmn TDLo:40 mg/kg/4D-I:BLD,MET PGPKA8
 4(5),48,59
 orl-rat LD50:245 mg/kg AIPTAK 123,48,59
 ipr-rat LD50:142 mg/kg FRPSAX 14,347,59
 scu-rat LD50:230 mg/kg OYYAA2 6,1285,72
 ivn-rat LD50:100 mg/kg ARZNAD 10,665,60
 ims-rat LD50:220 mg/kg ARZNAD 10,665,60
 orl-mus LD50:270 mg/kg BCFAAI 111,293,72
 ipr-mus LD50:128 mg/kg PCJOAU 19,33,85
 scu-mus LD50:230 mg/kg JPPMAB 7,1022,55
 ivn-mus LD50:90 mg/kg ARZNAD 19,36,69
 ims-mus LD50:430 mg/kg OYYAA2 13,97,77
 orl-dog LD50:332 mg/kg OYYAA2 20,265,80
 ivn-dog LD50:121 mg/kg AIPTAK 149,571,64
 ivn-cat LD50:100 mg/kg ARZNAD 19,36,69
 orl-rbt LD50:781 mg/kg OYYAA2 20,265,80
 ivn-rbt LD50:146 mg/kg ARZNAD 10,129,60
 orl-gpg LD50:250 mg/kg ARZNAD 19,1207,69
 orl-ham LD50:1260 mg/kg ATSUDG 7,365,84

CONSENSUS REPORTS: IARC Cancer Review:
 Group 3 IMEMDT 7,316,87; Human Inadequate
 Evidence IMEMDT 13,183,77. EPA Genetic Toxicology
 Program. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Suspected human carcinogen
 producing leukemia. A human poison by parenteral route.
 An experimental poison by ingestion, intraperitoneal,
 subcutaneous, intravenous, and intramuscular routes.
 Human systemic effects by ingestion and possibly other
 routes: fever, blood pressure increase, other unspecified
 vascular effects, damage to kidney tubules and glomeruli,
 decreased urine volume, blood in the urine, reduction in
 the number of white blood cells, and agranulocytosis.
 Experimental teratogenic and reproductive effects.
 Human mutation data reported. An eye irritant. An anti-
 inflammatory agent. When heated to decomposition it
 emits toxic fumes of NO_x.

BRF550 CAS: 20333-40-8 HR: 3 BUTYL DISELENIDE

mf: C₈H₁₈Se₂ mw: 272.18

SYNS: DIBUTYL DISELENIDE □ DI-n-BUTYL-DISELENIDE □
 DIBUTYLDISELENIUM □ DISELENIDE, DIBUTYL-(9CI)

TOXICITY DATA with REFERENCE:

ivn-mus LD50:75 mg/kg CSLNX* NX#09252

OSHA PEL: TWA 0.2 mg(Se)/m³

ACGIH TLV: TWA 0.2 mg(Se)/m³

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

BRG000 CAS: 110-57-6 HR: 3 2-BUTYLENE DICHLORIDE

mf: C₄H₆Cl₂ mw: 125.00

PROP: Colorless liquid. Mp: 1–3°, bp: 156°, d: 1.183 @
 25°/4°.

SYNS: 1,4-DICHLOROBUTENE-2 (trans) □ 1,4-DICHLORO-2-
 BUTENE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:86 ppm/4H AIHAM* -, -,68

CONSENSUS REPORTS: IARC Cancer Review:
 Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence
 IMEMDT 15,149,77. Reported in EPA TSCA Inventory.
 EPA Extremely Hazardous Substances List.

SAFETY PROFILE: A poison by inhalation.
 Questionable carcinogen with experimental neoplastigenic
 and tumorigenic data. When heated to decomposition it
 emits toxic fumes of Cl₂. See also CHLORINATED
 HYDROCARBONS, ALIPHATIC.

BRG100 CAS: 63869-10-3 HR: 2 1,3-BUTYLENE DIMETHACRYLATE

mf: C₁₂H₁₈O₄ mw: 226.30

SYNS: 1,3-BUTANEDIOL, DIMETHACRYLATE □
 METHACRYLIC ACID, 1,3-BUTYLENE ESTER (2:1) □
 METHACRYLIC ACID, ISOBUTYLENE ESTER □ METHACRYLIC
 ACID, 1-METHYL-1,3-PROPYLENE ESTER □ METHACRYLIC
 ACID, 3-METHYL-1,3-PROPYLENE ESTER

TOXICITY DATA with REFERENCE:

orl-rat LDLo:15 g/kg 34ZIAG -,75,69

ipr-mus LD50:3598 mg/kg JPMASAE 62,778,73

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

BRG500 CAS: 19485-03-1 HR: 2 1,3-BUTYLENE GLYCOL DIACRYLATE

mf: C₁₀H₁₄O₄ mw: 198.24

SYNS: ACRYLIC ACID-1-METHYLTRIMETHYLENE ESTER □
 1,3-BUTANEDIOL DIACRYLATE □ 1,3-BUTYLENE
 DIACRYLATE □ 2-PROPENOIC ACID-1-METHYL-13-
 PROPANEDIYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:3540 mg/kg TXAPA9 28,313,74

skn-rbt LD50:450 mg/kg TXAPA9 28,313,74

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

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

BRG700 CAS: 25876-07-7 HR: 2 BUTYL 2,3-EPOXYPROPYL FUMARATE

mf: C₁₁H₁₆O₅ mw: 228.27

SYN: FUMARIC ACID, BUTYL 2,3-EPOXYPROPYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:710 µL/kg AIHAAP 30,470,69

skn-rbt LD50:1260 µL/kg AIHAAP 30,470,69

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

BRH250 CAS: 106-83-2 HR: 2
BUTYL-9,10-EPOXYSTEARATE

mf: $C_{22}H_{42}O_3$ mw: 354.64

SYN: 9,10-EPOXYOCTADECANOIC ACID BUTYL ESTER

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BRH300 CAS: 4620-70-6 HR: 2
tert-BUTYLETHANOLAMINE

mf: $C_6H_{15}NO$ mw: 117.22

SYNS: 2-((1,1-DIMETHYLETHYL)AMINO)ETHANOL □ ETHANOL, 2-((1,1-DIMETHYLETHYL)AMINO)-

TOXICITY DATA with REFERENCE:

eye-rbt 40 mg/24H SEV NTIS** OTS0534931

orl-rat LD50:1620 mg/kg NTIS** OTS0534931

skn-rbt LD50:635 mg/kg NTIS** OTS0534931

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

BRH750 CAS: 142-96-1 HR: 3
n-BUTYL ETHER

DOT: UN 1149

mf: $C_8H_{18}O$ mw: 130.26

PROP: Colorless liquid. Mp: -98° , bp: 142° , flash p: $77^\circ F$, d: 0.784 @ $0^\circ/4^\circ$, autoign temp: $382^\circ F$, vap d: 4.48, lel: 1.5%, uel: 7.6%.

SYNS: 1-BUTOXYBUTANE □ BUTYL ETHER (DOT) □ DI-n-BUTYL ETHER (DOT) □ DIBUTYL OXIDE □ ETHER BUTYLIQUE (FRENCH) □ 1,1'-OXYBIS(BUTANE)

TOXICITY DATA with REFERENCE:

eye-hmn 200 ppm/15M JIHTAB 28,262,46

skn-rbt 100 mg/24H MOD 85JCAE -,250,86

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

eye-rbt 500 mg/24H MLD 85JCAE -,250,86

ihl-hmn TCLo:200 ppm:NOSE,EYE JIHTAB 28,262,46

orl-rat LD50:7400 mg/kg AMIHBC 10,61,54

ihl-rat LCLo:4000 ppm/4H AMIHBC 10,61,54

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mildly toxic by inhalation, ingestion, and skin contact. Human systemic effects by inhalation: conjunctiva irritation and unspecified nasal effects. An experimental skin and human eye irritant. See also ETHERS. Dangerous fire hazard when exposed to heat, flame, or oxidizers. Incompatible with NCl_3 and oxidizing materials. To fight fire, use alcohol foam, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

BRH760 CAS: 6863-58-7 HR: 3

sec-BUTYL ETHER

mf: $C_8H_{18}O$ mw: 130.26

SYNS: BIS(2-BUTYL)ETHER □ BUTANE, 2,2'-OXYBIS-(9CI) □ DI-sec-BUTYL ETHER □ 2,2'-OXYBISBUTANE

TOXICITY DATA with REFERENCE:

ihl-mus LC50:130 mg/ m^3 /15M ANESAV 11,455,50

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by inhalation. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

BRI000 CAS: 123-05-7 HR: 3
BUTYL ETHYL ACETALDEHYDE

mf: $C_8H_{16}O$ mw: 128.24

PROP: Bp: 163.4° , flash p: $125^\circ F$ (OC), autoign temp: $387^\circ F$, d: 0.8205, vap press: 1.8 mm @ 20° , vap d: 4.42.

SYNS: ETHYLBUTYLACETALDEHYDE □ α -ETHYLCAPROALDEHYDE □ 2-ETHYLHEXALDEHYDE □ ETHYLHEXALDEHYDE (DOT) □ 2-ETHYLHEXANAL □ β -PROPYL- α -ETHYLACROLEIN

TOXICITY DATA with REFERENCE:

skn-rbt 20 mg/24H MOD 85JCAE -,274,86

skn-rbt 425 mg open MLD UCDS** 7/21/65

eye-rbt 500 mg open AMIHBC 4,119,51

orl-rat LD50:3730 mg/kg AMIHBC 4,119,51

ihl-rat LCLo:4000 ppm/4H AMIHBC 4,119,51

ipr-rat LD50:500 mg/kg HYDRDA 3,201,78

orl-mus LD50:3550 mg/kg 85GMAT -,103,82

skn-rbt LD50:5040 mg/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by inhalation and skin contact. An eye and severe skin irritant. See also ALDEHYDES. Dangerous fire hazard; spontaneously flammable in air. To fight fire, use foam, CO_2 , dry chemical, water spray, mist, fog. Incompatible with oxidizing materials. When heated to decomposition it emits acrid and irritating fumes.

BRI250 CAS: 149-57-5 HR: 2
BUTYL ETHYL ACETIC ACID

mf: $C_8H_{16}O_2$ mw: 144.24

PROP: Flash p: $260^\circ F$ (OC), bp: $225-228^\circ$.

SYNS: α -ETHYLCAPROIC ACID □ 2-ETHYLHEXANOIC ACID □ 2-ETHYLHEXOIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open JIHTAB 26,269,44

skn-rbt 450 mg open MLD UCDS** 11/4/71

eye-rbt 20 mg SEV AJOPAA 29,1363,46

orl-rat LD50:3000 mg/kg JIHTAB 26,269,44

skn-rbt LD50:1260 mg/kg UCDS** 11/4/71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 5 mg/ m^3

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. An experimental teratogen. A skin and severe eye irritant. Combustible when exposed to heat or flame.

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

BR1500 CAS: 77966-77-9 HR: 3
n-BUTYL-2-(ETHYLAMINO)-2',6'-ACETOXYLIDIDE HYDROCHLORIDE

mf: $C_{16}H_{26}N_2O \cdot ClH$ mw: 298.90

SYN: C 3164

TOXICITY DATA with REFERENCE:

eye-rbt 2% MLD ARZNAD 8,609,58

ipr-rat LD50:72 mg/kg ARZNAD 8,609,58

scu-mus LD50:125 mg/kg ARZNAD 8,609,58

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

BR1750 CAS: 23947-60-6 HR: 2
5-n-BUTYL-2-ETHYLAMINO-4-HYDROXY-6-METHYL-PYRIMIDINE

mf: $C_{11}H_{19}N_3O$ mw: 209.33

PROP: Solid. Mp: 159°. Very sltly sol in H_2O ; sltly sol in EtOH; sol in $CHCl_3$.

SYNS: 5-BUTYL-2-(ETHYLAMINO)-6-METHYL-4(1H)-PYRIMIDINONE □ ETHIRIMOL □ 2-ETHYLAMINO-4-METHYL-5-n-BUTYL-6-HYDROXYPYRIMIDINE □ MILCURB □ MILCURB SUPER □ MILGO □ MILGO E □ MILSTEM □ MILSTEM SEED DRESSING □ NEW MILSTEM □ PP149

TOXICITY DATA with REFERENCE:

mno-smc 50 ppm RSTUDV 6,161,76

orl-rat LD50:4000 mg/kg 28ZEAL 5,106,76

skn-rat LD50:>1 g/kg PEMNDP 9,345,91

par-rat LD50:4 g/kg DOVEAA 26,5,72

orl-mus LD50:4 g/kg 85JFAN A183,83

ivn-mus LD50:800 mg/kg CHINAG (42),1512,69

unr-mus LD50:4 g/kg TGANAK 16(1),45,82

orl-cat LD50:1000 mg/kg CHINAG (42),1512,69

orl-rbt LD50:1000 mg/kg CHINAG (42),1512,69

orl-gpg LD50:500 mg/kg CHINAG (42),1512,69

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

BRJ000 CAS: 41483-43-6 HR: 2
5-BUTYL-2-ETHYLAMINO-6-METHYLPYRIMID-4-YL DIMETHYLSULPHAMATE

mf: $C_{13}H_{24}N_4O_3S$ mw: 316.47

PROP: Pale-tan waxy solid. Mp: 50–51°. Very sltly sol in H_2O ; sol in most org solvs.

SYNS: 2-AETHYLAMINO-5-BUTYL-4-YL-DIMETHYL-SULFAMAT (GERMAN) □ DIMETHYLSULFAMIC ACID 5-BUTYL-2-(ETHYL AMINO)-6-METHYL-4-PYRIMIDINYL ESTER □ NIMROD □ NIMROD T □ PP588 □ SULFAMIC ACID, DIMETHYL-, 5-BUTYL-2-(ETHYLAMINO)-6-METHYL-4-PYRIMIDINYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:4000 mg/kg 85ARAE 4,115,76

skn-rat LD50:500 mg/kg DOVEAA 30,200,76

orl-mus LD50:4000 mg/kg 85DPAN -,71/76

orl-gpg LD50:4000 mg/kg 85DPAN -,71/76

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits very toxic fumes of NO_x and SO_x . See also ESTERS.

BRJ125 CAS: 13080-06-3 HR: 3
BUTYLETHYLMALONIC ACID-2-(DIETHYLAMINO)ETHYL ETHYL ESTER

mf: $C_{17}H_{33}NO_4$ mw: 315.51

SYNS: BUTYLAETHYLMALONSAEURE-AETHYL-DIAETHYLAMINO-AETHYL-DI-ESTER (GERMAN) □ BUTYLETHYL-PROPANEDIOIC ACID-2-(DIETHYL AMINO)ETHYL ETHYL ESTER (9CI) □ Sch 5712

TOXICITY DATA with REFERENCE:

orl-rat LD50:638 mg/kg AEPPAE 237,264,59

ipr-rat LD50:225 mg/kg AEPPAE 237,264,59

orl-mus LD50:412 mg/kg AEPPAE 237,264,59

ipr-mus LD50:258 mg/kg AEPPAE 237,264,59

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

BRJ250 CAS: 67050-26-4 HR: 3
5-sec-BUTYL-5-ETHYL-1-METHYLBARBITURIC ACID

mf: $C_{11}H_{18}N_2O_3$ mw: 226.31

SYN: N-METHYLBUTABARBITAL

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:120 mg/kg JACSAT 58,1358,36

ivn-mus LD50:75 mg/kg AIPATK 132,164,61

ivn-rbt LDLo:85 mg/kg JACSAT 58,1354,36

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

BRJ325 CAS: 67330-25-0 HR: 2
BUTYL FLUFENAMATE

mf: $C_{18}H_{18}F_3NO_2$ mw: 337.37

PROP: Bp: 169–170° @ 1 mm.

SYNS: BUTYL-o-((m-(TRIFLUOROMETHYL)PHENYL)AMINO)BENZOATE □ BUTYL-2-((3-(TRIFLUOROMETHYL)PHENYL)AMINO)BENZOATE □ HF 264 □ N-(α,α,α-TRIFLUORO-m-TOLYL)ANTHRANILIC ACID BUTYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:510 mg/kg OYYAA2 18,845,79

ipr-rat LD50:4550 mg/kg OYYAA2 18,845,79

scu-rat LD50:7800 mg/kg OYYAA2 18,845,79

ivn-rat LD50:650 mg/kg OYYAA2 18,845,79

orl-mus LD50:3100 mg/kg OYYAA2 18,845,79

ipr-mus LD50:4100 mg/kg OYYAA2 18,845,79

ivn-mus LD50:610 mg/kg IYKEDH 14,297,83

ipr-dog LD50:1500 mg/kg OYYAA2 18,845,79

scu-dog LD50:9300 mg/kg OYYAA2 18,845,79

ipr-rbt LD50:11,500 mg/kg OYYAA2 18,845,79

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

BRJ750 CAS: 2425-74-3 HR: 3
***tert*-BUTYL FORMAMIDE**

mf: C₅H₁₁NO mw: 101.17**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:180 mg/kg CSLNX* NX#04680

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x.**BRK000 CAS: 592-84-7 HR: 3**
n*-BUTYL FORMATE*DOT:** UN 1128mf: C₅H₁₀O₂ mw: 102.15**PROP:** Colorless liquid. Mp: -90°, bp: 106.0°, flash p: 64°F (CC), d: 0.911, autoign temp: 612°F, vap press: 40 mm @ 31.6°, vap d: 3.52, lel: 1.7%, uel: 8%.**SYNS:** BUTYLESTER KYSELINY MRAVENCI □ BUTYL FORMATE (DOT)**TOXICITY DATA with REFERENCE:**

ihl-hmn TCLo:10,418 ppm:EYE,CNS,PUL AMIHAB 20,517,59

ihl-cat LCLo:10,418 ppm/70M AMIHAB 20,517,59

orl-rbt LD50:2656 mg/kg IMSUAI 41,31,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Moderately toxic by ingestion. Mildly toxic by inhalation. Human systemic effects by inhalation: muscle contractions and spasticity, conjunctiva irritation, and unspecified respiratory changes. An irritant and narcotic in high concentrations. See also ESTERS, *n*-BUTYL ALCOHOL, and FORMIC ACID. Dangerous fire hazard when exposed to heat or flame. To fight fire, use alcohol foam, foam, CO₂, dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits acrid and irritating fumes.**BRK100 CAS: 16120-70-0 HR: 2**
***N*-*n*-BUTYL-*N*-FORMYLHYDRAZINE**mf: C₅H₁₂N₂O mw: 116.19**SYNS:** BFH □ FORMIC ACID, 1-BUTYLHYDRAZIDE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.**BRK250 CAS: 64441-42-5 HR: 3**
1-BUTYL-3-(2-FUROYL)UREAmf: C₁₀H₁₄NO₃ mw: 196.25**SYNS:** *n*-BUTYL-*N'*-(2-FUROYL) □ *N*-FUROYL-*N'*-*n*-BUTYLHARNSTOFF (GERMAN)**TOXICITY DATA with REFERENCE:**

orl-mus LD50:730 mg/kg ARZNAD 10,686,60

ipr-mus LD50:230 mg/kg ARZNAD 10,686,60

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.**BRK750 CAS: 2426-08-6 HR: 3**
***n*-BUTYL GLYCIDYL ETHER**mf: C₇H₁₄O₂ mw: 130.21**PROP:** Bp: 327°. IDLH 250 ppm.**SYNS:** AGEFLEX BGE □ BGE □ BGE (OSHA) □ BUTYL GLYCIDYL ETHER □ 2,3-EPOXYPROPYL BUTYL ETHER □ ETHER, BUTYL 2,3-EPOXYPROPYL □ ETHER, BUTYL GLYCIDYL □ GLYCIDYL BUTYL ETHER □ TK 10408**TOXICITY DATA with REFERENCE:**

skn-rbt 454 mg/3D MLD AMIHAB 14,250,56

skn-rbt 20 mg/24H MOD 85JCAE -,774,86

eye-rbt 91 mg MLD AMIHAB 14,250,56

eye-rbt 750 µg/24H SEV 28ZPAK -,135,72

mmo-esc 20 µmol/L ARTODN 46,277,80

dnd-esc 1 µmol/L ARTODN 46,277,80

orl-rat LD50:2050 mg/kg AIHAAP 23,95,62

orl-rat LD50:2050 mg/kg AIHAAP 23,95,62

ihl-rat LCLo:670 ppm AMIHAB 14,250,56

ipr-rat LD50:1140 mg/kg AMIHAB 14,250,56

orl-mus LD50:1520 mg/kg AMIHAB 14,250,56

ipr-mus LD50:700 mg/kg AMIHAB 14,250,56

skn-rbt LD50:2520 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 25 ppm**ACGIH TLV:** TWA 25 ppm**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (Glycidyl Ethers) CL 30 mg/m³/15M**SAFETY PROFILE:** Suspected Carcinogen.

Moderately toxic by ingestion, skin contact, and intraperitoneal routes. Mildly toxic by inhalation. An experimental teratogen. Mutation data reported. A skin and severe eye irritant. See also ETHERS. When heated to decomposition it emits acrid and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: *n*-Butyl Glycidyl Ether S81.**BRK800 CAS: 7665-72-7 HR: 3**
tert-BUTYL GLYCIDYL ETHERmf: C₇H₁₄O₂ mw: 130.21**SYNS:** *t*-BGE □ 1,1-DIMETHYLETHYL GLYCIDYL ETHER □ OXIRANE, ((1,1-DIMETHYLETHOXY)METHYL)- □ PROPANE, 1-tert-BUTOXY-2,3-EPOXY-**TOXICITY DATA with REFERENCE:**

mmo-sat 333 µg/plate MUREAV 172,105,86

bfa-mus:sat 500 mg/kg/5D-I ENMUDM 2,284,80

orl-rat LD50:2 g/kg 38MAJ 2A,2202,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**SAFETY PROFILE:** Suspected carcinogen. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**BRK830 CAS: 38615-43-9 HR: 2**
***N*-BUTYL-1,6-HEXANEDIAMINE**mf: C₁₀H₂₄N₂ mw: 172.36**SYNS:** *N*-BUTYLHEXAMETHYLENEDIAMINE □ 1,6-HEXANEDIAMINE, *N*-BUTYL-**TOXICITY DATA with REFERENCE:**

orl-rat LD50:536 mg/kg JJATDK 4,320,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BRK900 CAS: 626-82-4 HR: 1
BUTYL HEXANOATE

mf: $\text{C}_{10}\text{H}_{20}\text{O}_2$ mw: 172.30

SYNS: BUTYL CAPROATE □ n-BUTYL HEXANOATE □ HEXANOIC ACID, BUTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 21,653,83

orl-rat LD50:>5 g/kg FCTOD7 21,653,83

skn-rbt LD50:>5 g/kg FCTOD7 21,653,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BRL500 CAS: 56795-65-4 HR: 2
n-BUTYLHYDRAZINE HYDROCHLORIDE

mf: $\text{C}_4\text{H}_{12}\text{N}_2\cdot\text{ClH}$ mw: 124.64

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

BRL750 CAS: 40711-41-9 HR: D
BUTYLHYDRAZINE OXALATE

mf: $\text{C}_4\text{H}_{12}\text{N}_2\cdot\text{C}_2\text{H}_2\text{O}_4$ mw: 178.22

SYN: BUTYLHYDRAZINE ETHANEDIOATE

TOXICITY DATA with REFERENCE:

mma-sat 1200 $\mu\text{g}/\text{plate}$ NEZAAQ 33,474,78

mmo-sat 1200 $\mu\text{g}/\text{plate}$ NEZAAQ 33,474,78

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes such as NO_x . See also HYDRAZINE.

BRM000 CAS: 300-00-0 HR: 3
O,O-tert-BUTYL HYDROGEN MONOPEROXY MALEATE

mf: $\text{C}_8\text{H}_{12}\text{O}_5$ mw: 188.18

SAFETY PROFILE: Slightly shock-sensitive. Commercial grade 95% dry is very hazardous. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES, ORGANIC.

BRM250 CAS: 75-91-2 HR: 2
tert-BUTYLHYDROPEROXIDE

mf: $\text{C}_4\text{H}_{10}\text{O}_2$ mw: 90.14

CH_3COOH

PROP: Water-white liquid. Flash p: 80°F or above, fp: -35° , d: 0.860, mp: -8° , bp: 40° @ 23 mm, vap d: 2.07. Sltly sol in water; very sol in esters and alc.

SYNS: terc.BUTYLHYDROPEROXID (CZECH) □ CADOX TBH □ 1,1-DIMETHYLETHYL HYDROPEROXIDE □ HYDRO-PEROXYDE de BUTYLE TERTIAIRE (FRENCH) □ 2-HYDRO-PEROXY-2-METHYLPROPANE □ PERBUTYL H □ TBHP-70 □ TRIGONOX A-75 (CZECH)

TOXICITY DATA with REFERENCE:

dnd-ham:lng 500 $\mu\text{mol}/\text{L}$ MUREAV 213,243,89

cyt-ham:lng 150 $\mu\text{mol}/\text{L}$ MUREAV 213,243,89
skn-rbt 500 mg AIHAAP 19,205,58
skn-rbt 500 mg/24H SEV 28ZPAK -,39,72
eye-rbt 7 mg AIHAAP 19,205,58
eye-rbt 100 mg/24H MOD 28ZPAK -,39,72
eye-rbt 150 mg/1M rns SEV ZAARAM 8,25,58
mmo-sat 17 $\mu\text{g}/\text{plate}$ ENMUDM 5(Suppl 1),3,83
mma-sat 17 $\mu\text{g}/\text{plate}$ ENMUDM 5(Suppl 1),3,83
pic-esc 25 mg/L VIRLAX 99,257,79
orl-rat LD50:406 mg/kg AIHAAP 19,205,58
ihl-rat LC50:500 ppm/4H AIHAAP 19,205,58
skn-rat LD50:790 mg/kg BSP11* 1/75-19B
ipr-rat LD50:87 mg/kg AIHAAP 19,205,58
orl-mus LD50:710 mg/kg BSP11* 1/75-19B
ihl-mus LC50:350 ppm/4H AIHAAP 19,205,58

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

DFG MAK: Moderate skin effects

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: Moderately toxic by ingestion and inhalation. A severe skin and eye irritant. Mutation data reported. At highest dosage levels, symptoms noted were severe depression, incoordination, and cyanosis. Death was due to respiratory arrest. Very dangerous fire hazard when exposed to heat or flame, or by spontaneous chemical reaction such as with reducing materials. Moderately explosive; may explode during distillation. Violent reaction with traces of acid. Concentrated solutions may ignite spontaneously on contact with molecular sieve. Mixtures with transition metal salts may react vigorously and release oxygen. Forms an unstable solution with 1,2-dichloroethane. To fight fire, use alcohol foam, CO_2 , dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES, ORGANIC.

BRM500 CAS: 1948-33-0 HR: 3
tert-BUTYLHYDROQUINONE

mf: $\text{C}_{10}\text{H}_{14}\text{O}_2$ mw: 166.24

PROP: White crystalline solid; characteristic odor. Mp: $126.5\text{--}128.5^\circ$. Sol in alc, ether; insol in water.

SYNS: MONO-tert-BUTYLHYDROQUINONE □ MTBHQ □ SUSTANE □ TBHQ (FCC) □ TENOX TBHQ

TOXICITY DATA with REFERENCE:

cyt-mus-ipr 200 mg/kg FCTOD7 22,459,84

orl-rat LD50:700 mg/kg JAOCA7 52,53,75

ihl-rat LCLo:2900 mg/ m^3 /4H JACTDZ 1,753,92

ipr-rat LD50:300 mg/kg JAOCA7 52,53,75

orl-mus LD50:1000 mg/kg KODAK* 21MAY71

ipr-mus LD50:144 mg/kg DCTODJ 7,335,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BRM750 CAS: 21070-33-7 HR: 2
6-BUTYL-4-HYDROXYAMINOQUINOLINE-1-OXIDE

mf: $\text{C}_{13}\text{H}_{16}\text{N}_2\text{O}_2$ mw: 232.31

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

BRN000 CAS: 121-00-6 HR: 3
3-tert-BUTYL-4-HYDROXYANISOLE

mf: C₁₁H₁₆O₂ mw: 180.27

PROP: Solid. Mp: 62–63°.

SYNS: 2-tert-BUTYL-4-METHOXYPHENOL □ 4-METHOXY-2-tert-BUTYLPHENOL

TOXICITY DATA with REFERENCE:

cyt-ham:lng 125 mg/L MUREAV 241,125,90

orl-rat LD50:2910 mg/kg PLRCAT 16,1041,84

ipr-rat LD50:32 mg/kg PLRCAT 16,1041,84

orl-mus LD50:1583 mg/kg PLRCAT 16,1041,84

ipr-mus LD50:29 mg/kg PLRCAT 16,1041,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

BRN250 CAS: 55621-29-9 HR: D
n-BUTYL-N-(2-HYDROXYBUTYL)NITROSAMINE

mf: C₈H₁₈N₂O₂ mw: 174.28

SYN: 1-(BUTYLNITROSAMINO)-2-BUTANOL

TOXICITY DATA with REFERENCE:

mma-sat 4 μmol/plate CNREA8 37,399,77

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BRN500 CAS: 40911-07-7 HR: D
n-BUTYL-N-(3-HYDROXYBUTYL)NITROSAMINE

mf: C₈H₁₈N₂O₂ mw: 174.28

SYN: 4-(BUTYLNITROSAMINO)-2-BUTANOL

TOXICITY DATA with REFERENCE:

mmo-sat 18 μmol/plate CNREA8 37,399,77

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BRN600 CAS: 153759-62-7 HR: D
BUTYL(3-HYDROXYBUTYL)TIN DILAURATE

mf: C₃₂H₆₄O₅Sn mw: 647.65

SYNS: 2-BUTANOL, 4-(BUTYLBIS((1-OXODODECYL)OXY)STANNYL)- □ 4-(BUTYLBIS((1-OXODODECYL)OXY)STANNYL)-2-BUTANOL □ 3-OHDBTL

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

BRO000 CAS: 51938-14-8 HR: 2
BUTYL(2-HYDROXYETHYL)NITROSOAMINE

mf: C₆H₁₄N₂O₂ mw: 146.22

SYNS: BHEN □ 2-(BUTYLNITROSAMINO)ETHANOL

TOXICITY DATA with REFERENCE:

mmo-sat 100 μg/plate MUREAV 56,219,78

mma-sat 5 μmol/plate CNREA8 37,399,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BRO250 CAS: 78128-80-0 HR: 2
3-BUTYL-4-HYDROXY-2(5H)FURANONE

mf: C₈H₁₂O₃ mw: 156.20

SYN: α-n-BUTYL-β-HYDROXY-Δ^{α,β}-BUTENOLID (GERMAN)

TOXICITY DATA with REFERENCE:

scu-mus LD50:1750 mg/kg ARZNAD 11,277,61

ivn-mus LD50:1187 mg/kg ARZNAD 11,277,61

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

BRO500 CAS: 38252-75-4 HR: D
n-BUTYL-N-(2-HYDROXYL-3-CARBOXY-PROPYL)NITROSAMINE

mf: C₈H₁₆N₂O₄ mw: 204.26

SYN: 4-(BUTYLNITROSAMINO)-3-HYDROXYBUTYRIC ACID

TOXICITY DATA with REFERENCE:

mmo-sat 24 μmol/plate CNREA8 37,399,77

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BRO750 CAS: 67590-46-9 HR: 3
2-(tert-BUTYL)-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL, CYCLIC PHOSPHITE (1:1)

mf: C₈H₁₅O₃P mw: 190.20

SYN: 4-(tert-BUTYL)-2,6,7-TRIOXA-1-PHOSPHABICYCLO (2.2.2)OCTANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:40 μg/kg TXAPA9 47,287,79

ivn-mus LD50:210 μg/kg EJMCA5 13,207,78

SAFETY PROFILE: A deadly poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes of PO_x.

BRP250 CAS: 9003-13-8 HR: 1
α-BUTYL-ω-HYDROXPOLY(OXY(METHYL-1,2-ETHANEDIYL))

mf: (C₃H₆O)_n•C₄H₁₀O

SYNS: BUTOXPOLYPROPYLENE GLYCOL □ BUTOXY-PROPANEDIOL POLYMER □ CRAG FLY REPELLENT □ ENT 8286 □ EXP. MITICIDE No. 7 □ NEWPOL LB3000 □ OPSB □ POLY(OXYPROPYLENE) BUTYL ETHER □ POLYOXYPROPYL ENE MONOBUTYL ETHER □ POLYPROPYLENE GLYCOL MONOBUTYL ETHER □ PPG-14 BUTYL ETHER □ PPG-16 BUTYL ETHER □ PPG-33 BUTYL ETHER □ STABILENE □ STABILENE FLY REPELLENT □ UCON LB-250 □ UCON LB 1145 □ UCON LB 1800X

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 5/23/68

orl-rat LD50:9100 mg/kg ARSIM* 20,666

orl-rbt LD50:23,900 mg/kg SPEADM 78-1,53,78

skn-rbt LD50:21 g/kg UCDS* 1/16/58

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

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

BRP500 CAS: 507-40-4 HR: 3
tert-BUTYL HYPOCHLORITE

mf: C_4H_9OCl mw: 106.6

PROP: Pale-yellow liquid. Bp: 77–78°.

SAFETY PROFILE: A storage hazard. Ultraviolet light causes exothermic decomposition. Reacts violently with rubber. Reaction with sodium hydrogen cyanamide forms the explosive cyanonitrene. When heated to decomposition it emits toxic fumes of Cl^- . See also HYPOCHLORITES.

BRP750 CAS: 85-60-9 HR: 1
4,4'-BUTYLIDENEBIS(3-METHYL-6-tert-BUTYL PHENOL)

mf: $C_{26}H_{38}O_2$ mw: 382.64

SYNS: 1,1-BIS(2-METHYL-4-HYDROXY-5-tert-BUTYLPHENYL) BUTANE □ 4,4'-BUTYLIDENEBIS(6-tert-BUTYL-m-CRESOL) □ 4,4'-BUTYLIDENEBIS(6-tert-BUTYL-3-METHYLPHENYL) □ SANTO WHITE POWDER □ SUMILIT BBM □ SWP (ANTIOXIDANT)

TOXICITY DATA with REFERENCE:

orl-rat LDLo:17 g/kg RCTEA4 45(3),627,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BRQ000 CAS: 3772-23-4 HR: 1
6,6'-BUTYLIDENEBIS(2,4-XYLENOL)

mf: $C_{20}H_{22}O$ mw: 278.42

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg IHFCAY 6,1,67

orl-rat LD50:5500 mg/kg IHFCAY 6,1,67

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

BRQ050 CAS: 541-33-3 HR: 1
BUTYLIDENE CHLORIDE

mf: $C_4H_8Cl_2$ mw: 127.02

SYNS: BUTANE, 1,1-DICHLORO- □ 1,1-DICHLOROBUTANE

TOXICITY DATA with REFERENCE:

orl-mus LD50:4859 mg/kg JPPMAB 3,169,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Slightly toxic by ingestion. When heated to decomposition it emits toxic vapors of Cl^- .

BRQ100 CAS: 551-08-6 HR: 2
3-BUTYLIDENE PHTHALIDE

mf: $C_{12}H_{12}O_2$ mw: 188.24

PROP: Needles from $CHCl_3$. Mp: 82–83°.

SYNS: BUTYLIDENE PHTHALIDE □ n-BUTYLIDENE PHTHALIDE □ 1(3H)-ISOBENZOFURANONE, 3-BUTYLIDENE-(9CI) □ PHTHALIDE, 3-BUTYLIDENE-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 21,659,83

orl-rat LD50:1850 mg/kg FCTOD7 21,659,83

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.

BRQ250 CAS: 542-69-8 HR: 3
n-BUTYL IODIDE

mf: C_4H_9I mw: 184.03

PROP: Liquid. D: 1.6166 @ 20°/4°, fp: –103°, bp: 130.4–131°.

SYN: 1-IODOBUTANE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:6100 mg/m³/4H 34ZIAG -,756,69

ipr-rat LD50:692 mg/kg 85GMAT -,30,82

ipr-mus LD50:101 mg/kg 85GMAT -,30,82

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

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by inhalation. Questionable carcinogen with experimental neoplastigenic data. See also IODIDES. When heated to decomposition it emits toxic fumes of I^- .

BRQ300 CAS: 37627-60-4 HR: 3
3-(1-BUTYL-3-ISOBUTYL-3-PYRROLIDINYL) PHENOL CITRATE

mf: $C_{18}H_{29}NO \cdot C_6H_8O_7$ mw: 467.62

SYNS: PHENOL, 3-(1-BUTYL-3-ISOBUTYL-3-PYRROLIDINYL)-, CITRATE □ PHENOL, 2-(1,1-DIMETHYLETHYL)-4-METHOXY- □ PYRROLIDINE, 1-BUTYL-3-(m-HYDROXYPHENYL)-3-ISOBUTYL-, CITRATE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:121 mg/kg JMCMA 15,687,72

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

BRQ350 HR: 3
BUTYL ISOBUTYRATE

mf: $C_8H_{16}O_2$ mw: 44.44

PROP: Colorless liquid; apple-pineapple odor. D: 0.859–0.864, refr index: 1.401, flash p: 113°F. Misc with alc, ether, fixed oils; insol in glycerin, propylene glycol, water @ 166°.

SYN: FEMA No. 2188

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

BRQ500 CAS: 111-36-4 HR: 3
n-BUTYL ISOCYANATE

DOT: UN 2485

mf: C_5H_9NO mw: 99.15

PROP: Colorless liquid. Bp: 115°, d: 0.880 @ 20°/4°.

SYNS: BIC □ ISOCYANIC ACID, BUTYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:600 mg/kg GTPZAB 20(3),53,76

ihl-rat LC50:3000 mg/m³ GTPZAB 20(3),53,76

orl-mus LD50:150 mg/kg GTPZAB 20(3),53,76

ihl-mus LC50:680 mg/m³ GTPZAB 20(3),53,76

ivn-mus LD50:1 mg/kg CSLNX* NX#05701

orl-gpg LD50:250 mg/kg GTPZAB 20(3),53,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison; DOT Class: 6.1; Label: Poison; DOT Class: 6.1; Label: Poison, Flammable Liquid; DOT Class: 3; Label: Flammable Liquid, Poison

SAFETY PROFILE: A poison by ingestion and intravenous routes. Mildly toxic by inhalation. A powerful irritant to eyes, skin, and mucous membranes. A flammable liquid. See also CYANATES and NITROGEN MONOXIDE.

BRQ750 CAS: 7188-38-7 HR: 2

***tert*-BUTYL ISOCYANIDE**

mf: C₅H₉N mw: 83.15

PROP: Liquid with very unpleasant odor. Bp: 92–93° @ 725 mm.

SYN: *tert*-BUTYLISONITRILE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:710 mg/m³/4H ARTODN 33,241,75

ihl-mus LC50:377 mg/m³/4H ARTODN 33,241,75

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

SAFETY PROFILE: Moderately toxic by inhalation. When heated to decomposition it emits toxic fumes of NO_x and CN[−].

BRQ800 CAS: 73791-40-9 HR: 3

BUTYL(ISOPROPYL)ARSINIC ACID

mf: C₇H₁₇AsO₂ mw: 208.16

SYNS: ARSINE OXIDE, BUTYLHYDROXYISOPROPYL- □ BUTYLHYDROXYISOPROPYLARSINE OXIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#05105

OSHA PEL: TWA 0.5 mg(As)/m³

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

BRR250 CAS: 30026-92-7 HR: 3

***tert*-BUTYL ISOPROPYL BENZENE HYDROPEROXIDE**

mf: C₁₃H₂₀O₂ mw: 208.33

PROP: Crystals.

SYN: *tert*-BUTYL ISOPROPYL BENZENE HYDROPEROXIDE (DOT)

SAFETY PROFILE: Powerful irritant. See also PEROXIDES, ORGANIC. Dangerous fire hazard when exposed to heat or flame or by chemical reaction. Incompatible with oxidizing or reducing materials. When heated to decomposition it emits acrid smoke and fumes.

BRR500 CAS: 74926-97-9 HR: 3

2-sec-BUTYL-6-ISOPROPYLPHENOL

mf: C₁₃H₂₀O mw: 192.2

TOXICITY DATA with REFERENCE:

ivn-mus LD50:50 mg/kg JMC MAR 23,1350,80

ivn-rbt LDLo:15 mg/kg JMC MAR 23,1350,80

SAFETY PROFILE: Poison by intravenous route.

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

BRR600 CAS: 138-22-7 HR: 3

***n*-BUTYL LACTATE**

mf: C₇H₁₄O₃ mw: 146.21

PROP: Liquid. Sltly sol in water; misc in alc and ether.

Mp: −43°, bp: 188°, flash p: 160°F (OC), d: 0.968, autoign temp: 720°F, vap d: 5.04, vap press: 0.4 mm @ 20°.

SYNS: BUTYL α-HYDROXYPROPIONATE □ BUTYL LACTATE □ 2-HYDROXYPROPANOIC ACID, BUTYL ESTER □ LACTIC ACID, BUTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,727,79

scu-rat LD50:12 g/kg NPIRI* 1,15,74

ipr-mus LDLo:200 mg/kg CBCCT* 7,690,55

scu-mus LD50:11,000 mg/kg FCTXAV 17,727,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 5 ppm

ACGIH TLV: TWA 5 ppm

SAFETY PROFILE: Poison by intraperitoneal route. A skin irritant. Toxic concentration in air for humans is about 4 ppm. Flammable when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS, *n*-BUTYL ALCOHOL, and LACTIC ACID.

BRR700 CAS: 2052-15-5 HR: 1

***n*-BUTYL LEVULINATE**

mf: C₉H₁₆O₃ mw: 172.25

SYNS: BUTYL LAEVULINATE □ *n*-BUTYL LAEVULINATE □ BUTYL LEVULINATE □ BUTYL 4-OXOPENTANOATE □ 4-KETOPENTANOIC ACID BUTYL ESTER □ LEVULINIC ACID, BUTYL ESTER □ PENTANOIC ACID, 4-OXO-, BUTYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 21,655,83

orl-rat LD50:>5 g/kg FCTOD7 21,655,83

skn-rbt LD50:>5 g/kg FCTOD7 21,655,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BRR739 CAS: 109-72-8 HR: 3

BUTYLLITHIUM

mf: C₄H₉Li mw: 64.06

PROP: Liquid. Eliminates LiH on heating. D: 0.765 @ 25°, mp: −76°, bp: 80–90° @ 0.0001 mm. Sol in ethers or hydrocarbons.

SAFETY PROFILE: Probably very toxic. Solutions of greater than 20% will ignite spontaneously in air. Ignites on contact with water or CO₂. May cause potentially explosive polymerization of styrene. Extremely flammable. To fight fire, use dry chemical; see special instructions of manufacturer. See also LITHIUM COMPOUNDS and BUTYLLITHIUM.

BRR750 CAS: 594-19-4 HR: 3
tert-BUTYLLITHIUM

mf: C₄H₉Li mw: 64.06

PROP: Colorless crystals. Decomposes to LiH and (H₃C)₂CHCH₂. Sublimes at 0.1°.

SAFETY PROFILE: Probably very toxic. Solutions in heptane may ignite spontaneously in air. Potentially violent reaction with 2,2,2,4,4,4-hexafluoro-1,3-dimethyl-1,3,2,4-diazadiphosphetidine. Extremely flammable. To fight fire, use dry chemical; see special instructions of manufacturer. See also LITHIUM COMPOUNDS and BUTYL LITHIUM.

BRR800 CAS: 5606-24-6 HR: 3
N-BUTYLMELAMINE

mf: C₇H₁₄N₆ mw: 182.27

SYNS: 2,6-DIAMINO-4-BUTYLAMINO-s-TRIAZINE □ MELAMINE, BUTYL- □ s-TRIAZINE, 2,6-DIAMINO-4-BUTYLAMINO- □ 1,3,5-TRIAZINE-2,4,6-TRIAMINE, N-BUTYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#04055

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

BRR900 CAS: 109-79-5 HR: 3
n-BUTYL MERCAPTAN

DOT: UN 2347

mf: C₄H₁₀S mw: 90.20

PROP: Colorless liquid; skunk-like odor. Mp: -116°, bp: 98°, d: 0.8365 @ 25°/4°, flash p: 35°F, vap d: 3.1. IDLH 500 ppm.

SYNS: BUTANETHIOL (OSHA) □ BUTYL MERCAPTAN □ n-BUTYL MERCAPTAN (ACGIH, DOT) □ NCI-C60866

TOXICITY DATA with REFERENCE:

eye-rbt 83 mg AIHAAP 19,171,58

orl-rat LD50:1500 mg/kg AIHAAP 19,171,58

ihl-rat LC50:4020 ppm/4H AIHAAP 19,171,58

ipr-rat LD50:399 mg/kg AIHAAP 19,171,58

orl-mus LD50:3 g/kg 85JCAE -,982,86

ihl-mus LC50:2500 ppm/4H AIHAAP 19,171,58

orl-rat LD50:3800 mg/kg

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.5 ppm

ACGIH TLV: TWA 0.5 ppm

DFG MAK: 0.5 ppm (1.9 mg/m³)

NIOSH REL: (n-Alkane Mono Thiols) CL 0.5 ppm/15M

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. An eye irritant. Dangerous fire hazard by exposure to heat, flame, sparks, or powerful oxidizers. Reacts violently with HNO₃. Incompatible with

acids, acid fumes, oxidizing materials, heat, flame, and sparks. To fight fire, use alcohol foam. When heated to decomposition it emits toxic SO_x. See also MERCAPTANS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: 1-Butanethiol 2525.

BRS000 CAS: 486-17-9 HR: 3
p-BUTYLMERCAPTOBENZHYDRYL-β-DIMETHYLAMINOETHYLSULFIDE

mf: C₂₁H₂₉NS₂ mw: 359.63

SYNS: 2-((p-(BUTYLTHIO)-α-PHENYLBENZYL)THIO)-N,N-DIMETHYLETHYLAMINE □ CAPTODIAME □ CAPTODIAMIN □ CAPTODIAMINE □ COVATIN □ COVATIX □ N 68 □ SUVREN

TOXICITY DATA with REFERENCE:

orl-rat LD50:3800 mg/kg ARZNAD 8,154,58

ipr-rat LD50:343 mg/kg ARZNAD 8,154,58

orl-mus LD50:1630 mg/kg ARZNAD 8,154,58

ipr-mus LD50:116 mg/kg JPETAB 108,201,53

scu-mus LD50:1750 mg/kg AIPTAK 136,440,62

SAFETY PROFILE: Poison by intraperitoneal route.

Moderately toxic by ingestion and subcutaneous routes. See also MERCAPTANS and SULFIDES. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

BRS250 CAS: 6192-29-6 HR: 3
BUTYLMERCAPTOMETHYLPENICILLIN

mf: C₁₄H₂₂N₂O₄S₂ mw: 346.50

SYNS: n-BUTYLTHIOMETHYLPENICILLIN □ PENICILLIN BT

TOXICITY DATA with REFERENCE:

ice-mus LD50:101 mg/kg JLCMAK 24,126,49

ice-dog LD50:11,500 mg/kg JLCMAK 24,126,49

isp-dog LD50:56 mg/kg JLCMAK 24,126,49

ice-rbt LD50:15,600 mg/kg JLCMAK 24,126,49

SAFETY PROFILE: Poison by intracerebral and intraspinal routes. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also MERCAPTANS and other penicillin entries.

BRS500 CAS: 6165-01-1 HR: 3
9-BUTYL-6-MERCAPTOPURINE

mf: C₉H₁₂N₄S mw: 208.31

SYNS: 9-BUTYL-1,9-DIHYDRO-6H-PURINE-6-THIONE □ 9-BUTYL-6-MP □ 9-BUTYL-9H-PURINE-6-THIOL □ NSC-19488 □ SRI 753

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:300 mg/kg CPCHAO 18,307,62

ipr-mus LD50:270 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.

BRS750 CAS: 543-63-5 HR: 3
n-BUTYLMERCURIC CHLORIDE

mf: C₄H₉ClHg mw: 293.17

PROP: Plates or needles from EtOH. Mp: 128.3–128.8°. Sol in CHCl₃; sltly sol in EtOH; insol in H₂O. IDLH 10 mg/m³ (as Hg).

SYN: BMC

TOXICITY DATA with REFERENCE:

dnr-esc 2 mmol/L MJDHDW 28,F39,80

cyt-hmn:hla 1 mg/L JJEMAG 39,47,69

scu-rat LDLo:73 mg/kg JJEMAG 39,47,69

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

OSHA PEL: TWA 0.01 mg(Hg)/m³; STEL 0.03 mg/m³ (skin)

ACGIH TLV: TWA 0.01 mg(Hg)/m³; BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Organomercury): TWA 0.01 mg/m³; STEL 0.03 mg/m³ (skin)

SAFETY PROFILE: A poison by subcutaneous route. Mutation data reported. See also MERCURY COMPOUNDS, ORGANIC, and CHLORIDES. When heated to decomposition it emits very toxic fumes of Cl⁻ and Hg.

BRT000 CAS: 532-34-3 HR: 2
***n*-BUTYL MESITYL OXIDE OXALATE**

mf: C₁₂H₁₈O₄ mw: 226.30

PROP: Yellow to pale-red liquid. Bp: 256–270°, d: 1.052–1.060 @ 20°/4°, flash p: 315°F.

SYNS: BMOO □ BUTOPYRANOXYL □ BUTYL-3,4-DIHYDRO-2,2-DIMETHYL-4-OXO-2H-PYRAN-6-CARBOXYLATE □ *n*-BUTYL ESTER of 3,4-DIHYDRO-2,2-DIMETHYL-4-OXO-2H-PYRAN-6-CARBOXYLIC ACID □ *n*-BUTYLMESITYLOXID OXALATE □ 2-CARBO-*n*-BUTOXY-6,6-DIMETHYL-5,6-DIHYDRO-1,4-PYRONE □ 3,4-DIHYDRO-2,2-DIMETHYL-4-OXO-2H-PYRAN-6-CARBOXYLIC ACID-*n*-BUTYL ESTER □ DIHDYROPYRONE □ α,α-DIMETHYL-α'-CARBOBUTOXY-DIHYDRO-γ-PYRONE □ 2,2-DIMETHYL-6-CARBOBUTOXY-2,3-DIHYDRO-4-PYRONE □ ENT 9 □ INDALONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:7400 mg/kg JPETAB 93,26,48

orl-mus LD50:11,600 mg/kg JPETAB 93,26,48

orl-rbt LD50:5400 mg/kg JPETAB 93,26,48

orl-gpg LD50:3200 mg/kg JPETAB 93,26,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Produces liver necrosis in experimental animals. A mild skin irritant. See also OXALATES and ESTERS. Combustible when exposed to heat or flame. When heated to decomposition it emits acrid fumes.

BRT250 CAS: 1912-32-9 HR: D
BUTYL MESYLATE

mf: C₅H₁₂O₃S mw: 152.23

SYNS: BUTYL METHANESULFONATE □ *n*-BUTYL METHANESULFONATE

TOXICITY DATA with REFERENCE:

mno-sat 20 mmol/L CNREA8 38,1595,78

sln-dmg-par 10 mmol/L JOGNAU 54,146,56

msc-hmn:lym 1 mmol/L/24H MUREAV 54,193,78

dnd-mam:lym 10 mmol/L CRNGDP 5,621,84

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Human mutation data reported. See also SULFONATES. When heated to decomposition it emits toxic fumes of SO_x.

BRT750 HR: D
BUTYL METHOXYMETHYLNITROSAMINE

mf: C₆H₁₄N₂O₂ mw: 146.22

TOXICITY DATA with REFERENCE:

cyt-ham:fbr 1 g/L/48H MUREAV 48,337,77

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BRU000 HR: D
sec-BUTYL METHOXYMETHYLNITROSAMINE

mf: C₆H₁₄N₂O₂ mw: 146.22

SYN: N-METHOXYMETHYL-N-NITROSO-sec-BUTYLAMINE

TOXICITY DATA with REFERENCE:

cyt-ham:fbr 2 g/L/48H MUREAV 48,337,77

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BRU250 CAS: 5412-64-6 HR: 3
***n*-BUTYL-α-METHYLBENZYLAMINE**

mf: C₁₂H₁₉N mw: 177.32

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:360 mg/kg AIHAAP 23,95,62

skn-rbt LD50:570 mg/kg AIHAAP 23,95,62

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

BRU300 CAS: 464-07-3 HR: 1
tert-BUTYL METHYL CARBINOL

mf: C₆H₁₄O mw: 102.20

SYNS: 2-BUTANOL, 3,3-DIMETHYL- □ 3,3-DIMETHYL-2-BUTANOL □ PINACOLYL ALCOHOL (6CI)

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:3600 ppm/2.3H JJATDK 7,307,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BRU500 CAS: 83-66-9 HR: 3
6-tert-BUTYL-3-METHYL-2,4-DINITRO ANISOLE

mf: C₁₂H₁₆N₂O₅ mw: 268.30

SYNS: 2,6-DINITRO-3-METHOXY-4-tert-BUTYLTOLUENE □ MUSK AMBRETTE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 13,681,75

mno-sat 2 µmol/plate FCTOD7 21,707,83

mma-sat 100 µg/plate FCTOD7 24,27,86

sln-dmg-orl 10 mmol/L FCTOD7 21,707,83

orl-rat LD50:339 mg/kg FCTXAV 2,327,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion. Mutation data reported. A skin irritant. When heated to decomposition it emits toxic fumes of NO_x . See also AROMATIC AMINES.

BRU750 CAS: 2487-01-6 HR: 3
2-tert-BUTYL-5-METHYL-4,6-DINITROPHENYL ACETATE

mf: $\text{C}_{13}\text{H}_{16}\text{N}_2\text{O}_6$ mw: 296.31

SYNS: ACETIC ACID-2-(tert-BUTYL)-4,6-DINITRO-m-TOLYL ESTER □ 6-(1,1-DIMETHYLETHYL)-3-METHYL-2,4-DINITROPHENYL ACETATE □ 2,4-DINITRO-3-METHYL-6-tert-BUTYLPHENYLACETAT (GERMAN) □ 2,4-DINITRO-3-METHYL-6-tert-BUTYLPHENYL ACETATE □ MC 1488 □ MEDINOTERB ACETATE □ P 1488

TOXICITY DATA with REFERENCE:

orl-rat LD50:42 mg/kg FMCHA2 -,D191,80
 skn-rat LD50:1300 mg/kg GUCHAZ 6,326,73
 orl-mus LD50:90 mg/kg 85GYAZ -,75-71
 orl-rbt LD50:80 mg/kg 28ZEAL 4,82,69
 orl-gpg LD50:55 mg/kg 28ZEAL 4,82,69
 skn-gpg LD50:7200 mg/kg 85GYAZ -,75,71
 orl-ckn LD50:560 mg/kg 28ZEAL 5,144,76

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

BRU780 CAS: 628-28-4 HR: 3
BUTYL METHYL ETHER (DOT)
DOT: UN 2350

mf: $\text{C}_5\text{H}_{12}\text{O}$ mw: 88.17

SYNS: BUTANE, 1-METHOXY-(9CI) □ ETHER, BUTYL METHYL □ α -METHOXYBUTANE □ 1-METHOXYBUTANE □ METHYL BUTYL ETHER □ METHYL n-BUTYL ETHER

TOXICITY DATA with REFERENCE:

ihl-mus LC50:176 mg/ m^3 /15M ANESAV 11,455,50

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by inhalation. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

BRU790 CAS: 2219-82-1 HR: 3
2-tert-BUTYL-6-METHYLPHENOL

mf: $\text{C}_{11}\text{H}_{16}\text{O}$ mw: 164.27

SYN: PHENOL, 2-tert-BUTYL-6-METHYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:120 mg/kg JMCMA 23,1350,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BRU800 CAS: 98-27-1 HR: 3
4-tert-BUTYL-2-METHYLPHENOL

mf: $\text{C}_{11}\text{H}_{16}\text{O}$ mw: 164.27

SYN: PHENOL, 4-tert-BUTYL-2-METHYL-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:81 mg/kg JMCMA 18,868,75

ivn-mus LD50:180 mg/kg JMCMA 23,1350,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BRV000 CAS: 100836-63-3 HR: 3
tert-BUTYL-N-(3-METHYL-2-THIAZOLIDINYL IDENE)CARBAMATE

mf: $\text{C}_9\text{H}_{16}\text{N}_2\text{O}_2\text{S}$ mw: 216.33

TOXICITY DATA with REFERENCE:

orl-mus LD50:306 mg/kg JMCMA 23,773,80

ivn-mus LD50:68 mg/kg JMCMA 23,773,80

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

BRV100 CAS: 1005-67-0 HR: 3
4-BUTYLMORPHOLINE

mf: $\text{C}_8\text{H}_{17}\text{NO}$ mw: 143.26

PROP: Bp: 110–115°

SYNS: N-BUTYLMORPHOLINE □ N-(n-BUTYL)MORPHOLINE □ MORPHOLINE, 4-BUTYL-

TOXICITY DATA with REFERENCE:

skn-rbt 500/24H MOD JACTDZ 1,13,90

eye-rbt 100 mg MOD JACTDZ 1,13,90

orl-rat LD50:338 mg/kg JACTDZ 1,13,90

skn-rbt LD50:1800 mg/kg JACTDZ 1,13,90

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

BRV325 CAS: 928-45-0 HR: 3
BUTYL NITRATE

mf: $\text{C}_4\text{H}_9\text{NO}_3$ mw: 119.12

PROP: Liquid. Bp: 136°.

SAFETY PROFILE: An explosive. Reacts explosively with Lewis acids (e.g., boron trifluoride; aluminum chloride; etc.). When heated to decomposition it emits toxic fumes of NO_x . See also NITRATES.

BRV500 CAS: 544-16-1 HR: 3
n-BUTYL NITRITE

mf: $\text{C}_4\text{H}_9\text{NO}_2$ mw: 103.14

PROP: Oily liquid, characteristic odor, misc in alc and ether. Bp: 78°, d: 0.9114 @ 0°/4°, vap d: 3.5, flash p: 10°.

SYNS: BUTYL NITRITE (DOT) □ NBN □ NCI-C56553 □ NITROUS ACID-n-BUTYL ESTER

TOXICITY DATA with REFERENCE:

mmo-sat 1 mg/plate PSEBAA 157,688,78

orl-man TDLo:153 mg/kg:BLD AIMEAS 92,570,80

orl-rat LD50:83 mg/kg JJATDK 1,30,81

ihl-rat LC50:420 ppm/4H FAATDF 8,101,87

orl-mus LD50:171 mg/kg RCSADO 3,233,82

ihl-mus LC50:567 ppm/1H FAATDF 1,448,81

ipr-mus LD50:169 mg/kg TXAPA9 48,A43,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. Mildly toxic by inhalation. An irritant. Human systemic effects by ingestion: methemoglobinemia-carboxyhemoglobinemia. Resembles amyl nitrite in causing fall in blood pressure, headache, pulse throbbing, and weakness. Mutation data reported. Flammable when exposed to heat or flame or by spontaneous chemical reaction. When heated to decomposition it emits toxic fumes of NO_x. See also NITRITES, n-BUTYL ALCOHOL, and ESTERS.

BRV750 CAS: 924-43-6 HR: 3
sec-BUTYL NITRITE

mf: C₄H₉NO₂ mw: 103.14

PROP: Liquid. Bp: 68°, d: 0.8981 @ 0°/4°, vap d: 3.5.

SYNS: NITROUS ACID-*sec*-BUTYL ESTER □ NITROUS ACID-1-METHYL PROPYL ESTER

TOXICITY DATA with REFERENCE:

mma-sat 1 mg/plate BSIBAC 56,816,80

orl-mus LD50:423 mg/kg RCSADO 3,233,82

ihl-mus LD50:1753 ppm/1H FAATDF 1,448,81

ipr-mus LD50:592 mg/kg TXAPA9 48,443,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and intraperitoneal routes. Mutation data reported. Flammable when exposed to heat or flame or by spontaneous chemical reaction. An oxidizer. Potentially explosive. To fight fire, use water, spray, foam, dry chemical. When heated to decomposition it emits toxic fumes of NO_x. See also n-BUTYL NITRITE, NITRITES, and ESTERS.

BRV760 CAS: 540-80-7 HR: 3
tert-BUTYL NITRITE

mf: C₄H₉NO₂ mw: 103.14

PROP: Yellow liquid, agreeable odor. D: 0.8941, bp: 63°, n: (20/D) 1.3687. Very sol in alc, ether, chloroform, carbon disulde; sltly sol in water; practically insol in glycerol.

SYNS: α,α-DIMETHYLETHYL NITRITE □ NITROUS ACID-1,1-DIMETHYLETHYL ESTER

TOXICITY DATA with REFERENCE:

mmo-sat 10 μmol/plate BCPCA6 35,3847,86

orl-mus LD50:308 mg/kg RCSADO 3,233,82

ihl-mus LC50:10,852 ppm/1H FAATDF 1,448,81

ipr-mus LD50:625 mg/kg TXAPA9 48,443,79

SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal route. Mutation data reported. A jet propellant. When heated to decomposition it emits toxic fumes of NO_x. See also n-BUTYL NITRITE, NITRITES, and ESTERS.

BRW000 HR: 3
tert-BUTYL NITROACETYLENE

mf: C₆H₉NO₂ mw: 127.14

SAFETY PROFILE: When ignited in absence of a solvent, the primary, secondary and tertiary amines explode. Incompatible with amines. See also ACETYLENE COMPOUNDS.

BRW100 CAS: 82486-82-6 HR: 2
2-(BUTYLNITROAMINO)ETHANOL NITRATE (ESTER)

mf: C₆H₁₃N₃O₅ mw: 207.22

SYNS: N-BUTYL-2-NITRATOETHYL NITRAMINE □ ETHANOL, 2-(BUTYLNITROAMINO)-, NITRATE (ESTER)

TOXICITY DATA with REFERENCE:

skn-rbt LD50:>2 g/kg NTIS** AD-A252-109

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

BRW250 HR: 3
tert-BUTYL-p-NITRO PEROXY BENZOATE

mf: C₁₁H₁₃NO₅ mw: 239.2

SAFETY PROFILE: Explodes in contact with flame. When heated to decomposition it emits toxic fumes of NO_x. See also PEROXIDES, ORGANIC.

BRW500 CAS: 71002-67-0 HR: 3
BUTYL-p-NITROPHENYL ESTER of ETHYL-PHOSPHONIC ACID

mf: C₁₂H₁₈NO₅P mw: 287.28

SYN: ETHYLPHOSPHONIC ACID BUTYL-p-NITROPHENYL ESTER

TOXICITY DATA with REFERENCE:

scu-mus LD50:1500 μg/kg RPTOAN 42,106,79

ivn-mus LD50:1300 μg/kg RPTOAN 42,106,79

scu-rat LD50:1500 μg/kg FATOAO 42(3),299,79

ivn-rat LD50:1300 μg/kg FATOAO 42(3),299,79

SAFETY PROFILE: Deadly poison by subcutaneous and intravenous routes. See also ESTERS. When heated to decomposition it emits very toxic fumes of PO_x and NO_x.

BRW750 CAS: 21070-32-6 HR: 2
6-BUTYL-4-NITROQUINOLINE-1-OXIDE

mf: C₁₃H₁₄N₂O₃ mw: 246.29

TOXICITY DATA with REFERENCE:

dns-ham:oth 4 μmol/L NATUAS 229,416,71

dnd-mus:fbr 100 μmol/L CNREA8 35,521,75

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

BRX000 CAS: 52731-39-2 HR: D
4-(BUTYLNITROSAMINO)BUTYL ACETATE

mf: C₁₀H₂₀N₂O₃ mw: 216.2

SYNS: BABN □ N-BUTYL-N-(1-ACETOXYBUTYL)-NITROSAMINE

TOXICITY DATA with REFERENCE:

mmo-sat 1 μmol/plate GANNA2 71,124,80

mmo-esc 1 μmol/plate GANNA2 71,124,80

dnr-bcs 500 nmol/plate GANNA2 66,457,75

msc-ham:lng 100 μmol/L GANNA2 72,531,81

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

**BRX250 CAS: 62018-92-2 HR: D
N-BUTYL-N-NITROSO-β-ALANINE**mf: C₇H₁₄N₂O₃ mw: 174.23**SYN:** N-BUTYL-N-(2-CARBOXYETHYL)NITROSAMINE**TOXICITY DATA with REFERENCE:**

mma-sat 30 μmol/plate CNREA8 37,399,77

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. See also NITROSAMINES. When heated to decomposition it emits toxic fumes of NO_x.**BRX500 CAS: 56986-36-8 HR: 2
BUTYLNITROSOAMINOMETHYL ACETATE**mf: C₇H₁₄N₂O₃ mw: 174.23**SYNS:** ACETOXYMETHYLBUTYLNITROSAMINE □ N-(ACETOXY)METHYL-N,N-BUTYLNITROSAMINE □ BAMN □ BUTYL ACETOXYMETHYLNITROSAMINE □ N-BUTYL-N-(ACETOXYMETHYL)NITROSAMINE □ N-NITROSO-N-(1-ACETOXYMETHYL)BUTYLAMINE**TOXICITY DATA with REFERENCE:**

mmo-sat 1 μmol/plate MUREAV 49,187,78

mmo-esc 1 μmol/plate GANNA2 71,124,80

dnr-bcs 500 nmol/plate GANNA2 66,457,75

dns-rat:oth 10 μmol/L CBINA8 53,99,85

dnd-mus:fbr 260 nmol/L GANNA2 73,565,82

cyt-ham:fbr 16 mg/L/24H MUREAV 48,337,77

msc-ham:lng 100 μmol/L GANNA2 75,531,81

orl-rat LD50:1500 mg/kg ZKKOBW 91,317,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.**BRX750 CAS: 51938-13-7 HR: D
3-(BUTYLNITROSOAMINO)-1-PROPANOL**mf: C₇H₁₆N₂O₂ mw: 160.25**SYN:** BUTYL-(3-HYDROXYPROPYL)NITROSAMINE**TOXICITY DATA with REFERENCE:**

mmo-sat 100 μg/plate MUREAV 56,219,78

SAFETY PROFILE: Mutation data reported. Many nitrosamines are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.**BRY000 CAS: 51938-15-9 HR: 2
1-(BUTYLNITROSOAMINO)-2-PROPANONE**mf: C₇H₁₄N₂O₂ mw: 158.23**SYNS:** BUTYL(2-OXOPROPYL)NITROSOAMINE □ N-NITROSO-1-BUTYLAMINO-2-PROPANONE □ N-NITROSO-(2-OXOPROPYL)-N-BUTYLAMINE**TOXICITY DATA with REFERENCE:**

mmo-sat 31 μmol/plate CNREA8 37,399,77

mma-sat 4 μmol/plate CNREA8 37,399,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.**BRY250 CAS: 16339-05-2 HR: 2
N-BUTYL-N-NITROSO AMYL AMINE**mf: C₉H₂₀N₂O mw: 172.31**SYNS:** BUTYLAMYLNITROSAMIN (GERMAN) □ N-BUTYL-N-NITROSOPENTYLAMINE □ N-BUTYL-N-PENTYLNITROSAMINE □ N-NITROSO-N-BUTYLPENTYLAMINE □ N-NITROSO-N-BUTYL-N-PENTYLAMINE**TOXICITY DATA with REFERENCE:**

scu-rat LD50:2500 mg/kg ZEKBAI 69,103,67

SAFETY PROFILE: Moderately toxic by subcutaneous route. Questionable carcinogen with experimental tumorigenic data. See also N-NITROSO COMPOUNDS and NITROSAMINES. When heated to decomposition it emits toxic fumes of NO_x.**BRY300 CAS: 275795-16-9 HR: D
3-tert-BUTYL-4-NITROSOBIPHENYL**mf: C₁₆H₁₇NO mw: 239.34**SYN:** 1,1'-BIPHENYL, 3-(1,1-DIMETHYLETHYL)-4-NITROSO-**TOXICITY DATA with REFERENCE:**

mic-sat 10 μLg/plate MUREAV 467,55,2000

mic-sat 10 μLg/plate/48H MUREAV 491,195,2001

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**BRY500 CAS: 924-16-3 HR: 3
n-BUTYL-N-NITROSO-1-BUTAMINE**mf: C₈H₁₈N₂O mw: 158.28**PROP:** Pale-yellow liquid. Bp: 235°.**SYNS:** DBN □ DBNA □ DI-n-BUTYLNITROSAMIN (GERMAN) □ DIBUTYLNITROSOAMINE □ DI-n-BUTYLNITROSAMINE □ N,N-DI-n-BUTYLNITROSAMINE □ N,N-DIBUTYLNITROSOAMINE □ NDBA □ N-NITROSODIBUTYLAMINE □ N-NITRO-SODI-n-BUTYLAMINE (MAK) □ RCRA WASTE NUMBER U172**TOXICITY DATA with REFERENCE:**

mma-esc 1 μmol/plate GANNA2 75,8,84

dnd-esc 100 nmol/tube CRNGDP 3,781,82

dns-hmn:hla 10 μmol/L CNREA8 38,2621,78

dnd-rat:lvrr 100 μmol/L CNREA8 42,2592,82

bfa-rat-sat 158 mg/kg CRNGDP 6,967,85

hma-rat-smc 2912 mg/kg TCMUD8 3,41,83

orl-ham TDLo:9 g/kg:ETA,TER PSEBAA 136,1007,71

scu-ham TDLo:240 mg/kg:CAR,TER ZEKBAI 86,69,76

orl-rat LD50:1200 mg/kg NATWAY 50,735,63

scu-rat LD50:1200 mg/kg XENOBH 3,271,73

orl-ham LD50:2150 mg/kg ZKKOBW 79,85,73

ipr-ham LD50:1200 mg/kg ZKKOBW 79,85,73

scu-ham LD50:561 mg/kg PSEBAA 136,168,71

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sub^ocient Evidence IMEMDT 28,151,82; IMEMDT 17,51,78; IMEMDT 4,197,74; Human Limited Evidence IMEMDT 17,51,78.

Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen**SAFETY PROFILE:** Confirmed carcinogen with experimental carcinogenic, tumorigenic, and neoplastigenic data. Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. Experimental teratogenic effects. Human mutation data reported. When

heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #27 or NIOSH: Nitrosamines 2522.

BRY750 CAS: 76206-38-7 HR: D
N-BUTYL-N-NITROSOCARBAMIC ACID-1-NAPHTHYL ESTER

mf: C₁₅H₁₆N₂O₃ mw: 272.2

SYN: 1-NAPHTHYL-N-BUTYL-N-NITROSOCARBAMATE

TOXICITY DATA with REFERENCE:

mno-sat 10 nmol/plate ENMUDM 2,395,80

mrc-smc 5 nmol/plate ENMUDM 2,395,80

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. See also N-NITROSOCOMPOUNDS and CARBAMATES. When heated to decomposition it emits toxic fumes of NO_x.

BRZ000 CAS: 6558-78-7 HR: 3
N-BUTYL-N-NITROSO ETHYL CARBAMATE

mf: C₇H₁₄N₂O₃ mw: 174.23

SYNS: N-BUTYL-N-NITROSOURETHAN □ 1-BUTYL-1-NITROSOURETHAN □ TL 478

TOXICITY DATA with REFERENCE:

mno-bcs 5 g/L MUREAV 42,19,77

dnr-bcs 5 g/L MUREAV 42,19,77

cyt-ham:fbr 120 mg/L/48H MUREAV 48,337,77

cyt-ham:lng 35 mg/L GMCRCDC 27,95,81

sce-ham:fbr 100 μmol/L JNCIAM 58,1635,77

orl-rat TDLo:500 mg/kg (20D preg):ETA,TER GANNA2 71,811,80

scu-rat TDLo:150 mg/kg (15-21D preg):ETA,TER GANNA2 71,811,80

orl-rat LD50:900 mg/kg GANNA2 65,227,74

ihl-mus LCLo:300 mg/m³/10M NDRC** NDCrc-132,Nov,42

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: A poison by inhalation. Moderately toxic by ingestion. Experimental teratogenic data. Questionable carcinogen with experimental neoplastigenic, and tumorigenic data. Mutation data reported. See also N-nitroso compounds and CARBAMATES. When heated to decomposition it emits toxic fumes of NO_x.

BRZ200 CAS: 17721-94-7 HR: 2
4-tert-BUTYL-1-NITROSOPIPERIDINE

mf: C₉H₁₈N₂O mw: 170.29

SYN: N-NITROSO-4-tert-BUTYLPIPERIDINE

TOXICITY DATA with REFERENCE:

mno-sat 250 μg/plate MUREAV 111,135,83

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

BSA000 CAS: 72505-66-9 HR: D
2-BUTYL-3-NITROSOTHAZOLIDINE

mf: C₇H₁₄N₂OS mw: 174.29

SYN: N-NITROSO-n-BUTYLTHIAZOLIDINE

TOXICITY DATA with REFERENCE:

mno-sat 1 mg/L JAFCAU 28,62,80

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also N-NITROSOCOMPOUNDS.

BSA250 CAS: 869-01-2 HR: 3
n-BUTYLNITROSOUREA

mf: C₅H₁₁N₃O₂ mw: 145.19

PROP: Solid. Mp: 82.5–84°.

SYNS: BNU □ BUTYLNITROSOHARNSTOFF (GERMAN) □ N-n-BUTYL-N-NITROSOUREA □ 1-BUTYL-1-NITROSOUREA □ N-NITROSOBUTYLUREA

TOXICITY DATA with REFERENCE:

pic-esc 2 mg/L TCMUE9 1,91,84

sce-ham:fbr 500 μmol/L CNREA8 44,3270,84

orl-rat TDLo:120 mg/kg (22D preg):ETA,TER ARGEAR 48,9,78

orl-rat TDLo:16,512 mg/kg/50W-I:CAR,REP JCROD7 107,32,84

ipr-rat TDLo:120 mg/kg (22D preg):ETA,TER ARGEAR 48,9,78

orl-rat LD50:400 mg/kg PPTCBY 2,73,72

scu-rat LD50:1200 mg/kg ZEKBAI 69,103,67

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. A poison by ingestion. Moderately toxic by subcutaneous route. Experimental teratogenic and reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BSA500 CAS: 3913-02-8 HR: 1
2-BUTYL-1-OCTANOL

mf: C₁₂H₂₆O mw: 186.38

PROP: Liquid. Mp: –80°, flash p: 230°F (OC), bp: 253.3°, d: 0.8355 @ 20°/20°, vap d: 6.42.

SYN: 2-BUTYLOCTYL ALCOHOL

TOXICITY DATA with REFERENCE:

skn-rbt 10 mg/24H open MLD AMIHBC 4,119,51

eye-rbt 500 mg open AMIHBC 4,119,51

orl-rat LD50:13 g/kg AMIHBC 4,119,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A skin and eye irritant. See also ALCOHOLS. Combustible when exposed to heat or flame. Incompatible with oxidizing materials. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits acrid and irritating fumes.

BSA750 CAS: 10097-26-4 HR: 1
2-BUTYLOCTYL ESTER METHACRYLIC ACID

mf: C₁₆H₃₀O₂ mw: 254.46

TOXICITY DATA with REFERENCE:

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

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

orl-rat LD50:26 g/kg AMIHBC 10,61,54

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

BSB000 **CAS: 142-77-8** **HR: 1**

BUTYL OLEATE

mf: C₂₂H₄₂O₂ mw: 338.64

PROP: Liquid. Bp: 173°, flash p: 356°F(OC), d: 0.873, vap d: 11.3.

SYNS: (Z)-9-OCTADECENOIC ACID BUTYL ESTER □ OLEIC ACID, BUTYL ESTER □ PLASTHALL 503 □ UNIFLEX BYO

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,241,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin irritant. Combustible when exposed to heat or flame. To fight fire, use CO₂, dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS; n-BUTYL ALCOHOL; and OLEIC ACID.

BSB100 **CAS: 5579-78-2** **HR: 1**

7-BUTYL-2-OXEPANONE

mf: C₁₀H₁₈O₂ mw: 170.28

SYNS: ε-DECALACTONE □ 2-OXEPANONE, 7-BUTYL- □ 2-OXEPANONE, 7-BUTYL-(9CI)

TOXICITY DATA with REFERENCE:

orl-mus LD50:5252 mg/kg DCTODJ 3,249,1980

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSB500 **CAS: 61734-89-2** **HR: 2**

N-BUTYL-N-(2-OXOBUTYL)NITROSAMINE

mf: C₈H₁₆N₂O₂ mw: 172.26

SYN: N-NITROSO-N-(2-OXOBUTYL)BUTYLAMINE

TOXICITY DATA with REFERENCE:

mma-sat 4 μmol/plate CNREA8 37,399,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BSB750 **CAS: 61734-90-5** **HR: 2**

N-BUTYL-N-(3-OXOBUTYL)NITROSAMINE

mf: C₈H₁₆N₂O₂ mw: 172.26

SYN: N-NITROSO-N-(3-OXOBUTYL)BUTYLAMINE

TOXICITY DATA with REFERENCE:

mma-sat 4 μmol/plate CNREA8 37,399,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BSC000 **CAS: 94-26-8** **HR: 3**

BUTYL PARABEN

mf: C₁₁H₁₄O₃ mw: 194.25

PROP: Solid. Mp: 68–69°.

SYNS: BUTOBEN □ BUTYL CHEMOSEPT □ BUTYL-p-HYDROXYBENZOATE □ n-BUTYL PARAHYDROXYBENZOATE □ BUTYL PARASEPT □ BUTYL TEGOSEPT □ p-HYDROXYBENZOIC ACID BUTYL ESTER □ NIPABUYL □ PARASEPT □ SOLBROL B □ TEGOSEPT B

TOXICITY DATA with REFERENCE:

skn-gpg 5%/48H MLD JSCCA5 28,357,77

orl-mus LD50:13,200 mg/kg NEZAAQ 28,463,73

ipr-mus LD50:230 mg/kg JSCCA5 28,357,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

BSC250 **CAS: 107-71-1** **HR: 3**

tert-BUTYL PERACETATE

mf: C₆H₁₂O₃ mw: 132.18

PROP: Clear, colorless, benzene solution; insol in water; sol in org solvs. D: 0.923, vap press: 50 mm @ 26°, flash p: <80°F (COC).

SYNS: t-BUTYL PERACETATE □ t-BUTYL PEROXYACETATE □ tert-BUTYL PEROXYACETATE, >76% in solution (DOT) □ ETHANEPEROXOIC ACID, 1,1-DIMETHYLETHYL ESTER □ LUPERSOL 70 □ TRIGONOX F-C50

TOXICITY DATA with REFERENCE:

orl-rat LD50:675 mg/kg 85GMAT -,30,82

ihl-rat LC33:8200 mg/m³/4H 85GMAT -,30,82

orl-mus LD50:632 mg/kg TPKVAL 9,78,67

ihl-mus LCLo:6000 mg/m³ TPKVAL 9,78,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: Moderate skin irritant

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by inhalation. Moderate skin and eye irritant. A shock- and heat-sensitive explosive. Dangerous fire hazard when exposed to heat, flame, reducing agents. To fight fire, use dry chemical, alcohol foam, spray and mist. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES, ORGANIC; and ESTERS.

BSC500 **CAS: 614-45-9** **HR: 3**

tert-BUTYL PERBENZOATE

mf: C₁₁H₁₄O₃ mw: 194.25

PROP: Colorless to slightly yellow liquid; mild aromatic odor. Bp: 112° (decomp), flash p: 19°, fp: 8°, vap press: 0.33 mm @ 50°, d: 1.0. Insol in water; sol in org solvs.

SYNS: terc.BUTYLESTER KYSELINY PEROXYBENZOATE (CZECH) □ terc.BUTYLPERBENZOAN (CZECH) □ t-BUTYL PERBENZOATE □ t-BUTYL PEROXY BENZOATE □ ESPEROX 10 □ NOVOX □ PERBENZOATE de BUTYLE TERTIAIRE (FRENCH) □ TRIGONOX C

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,52,72

eye-rbt 100 mg/1M rns MLD ZAARAM 8,25,58

eye-rbt 500 mg/24H MLD 28ZPAK -,52,72

mma-sat 67 μg/plate ENMUDM 8(Suppl 7),52,72

orl-rat LD50:1012 mg/kg 85GMAT -,30,82

orl-mus LD50:914 mg/kg 85GMAT -,30,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. A skin and eye irritant. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. See also PEROXIDES, ORGANIC. Potentially explosive when heated above 115°C. Explosive reaction on contact with organic matter or copper(I) bromide + limonene. When heated to decomposition it emits acrid smoke and fumes.

BSC600 CAS: 109-13-7 HR: 3
***tert*-BUTYL PERISOBUTYRATE**

mf: C₈H₁₆O₃ mw: 160.24

SYNS: *tert*-BUTYL PEROXYISOBUTYRATE □ *tert*-BUTYL PEROXYISOBUTYRATE, >77% in solution (DOT) □ ESPEROX 24M □ LUPERSOL 8 □ PEROXYISOBUTYRIC ACID, *tert*-BUTYL ESTER □ PROPANEPEROXOIC ACID, 2-METHYL-, 1,1-DIMETHYLETHYL ESTER

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: An explosive and flammable peroxide. Handle very carefully in concentrated solutions. When heated to decomposition it emits acrid smoke and irritating vapors.

BSC750 CAS: 110-05-4 HR: 3
***tert*-BUTYL PEROXIDE**

mf: C₈H₁₈O₂ mw: 146.26

PROP: Clear, water-white liquid. Mp: -40°, bp: 80° @ 284 mm, flash p: 65°F (OC), d: 0.79, vap press: 19.51 mm @ 20°, vap d: 5.03. Very sltly sol in H₂O.

SYNS: CADOX □ DI-*tert*-BUTYLPEROXID (GERMAN) □ DI-*tert*-BUTYL PEROXIDE (MAK) □ DI-*tert*-BUTYL PEROXYDE (DUTCH) □ DTBP □ PEROSSIDO di BUTILE TERZIARIO (ITALIAN) □ PEROXYDE de BUTYLE TERTIAIRE (FRENCH) □ (TRIBUTYL)PEROXIDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg AIHAAP 19,205,58

eye-rbt 500 mg/24H MLD 28ZPAK -,40,72

eye-rbt 200 mg/1M rns MLD ZAARAM 8,25,58

orl-rat LC50:10,200 mg/kg 28ZPAK -,40,72

ipr-rat LD50:3210 mg/kg AIHAAP 19,205,58

orl-mus LD50:20 g/kg FEPR7 7,252,48

CONSENSUS REPORTS: Reported in EPA ISCA Inventory

DFG MAK: Mild skin irritant

SAFETY PROFILE: Moderately toxic by intraperitoneal route. A powerful irritant by ingestion and inhalation. A mild skin and eye irritant. Questionable carcinogen with experimental tumorigenic data. Flammable liquid; see PEROXIDES, ORGANIC, for fire and explosion hazards. Warning: Water may not work to fight fire. When heated to decomposition it emits acrid smoke and fumes.

BSC800 CAS: 16215-49-9 HR: 3
BUTYL PEROXYDICARBONATE

mf: C₁₀H₁₈O₆ mw: 234.28

SYNS: *n*-BUTYL PEROXYDICARBONATE, >52% in solution (DOT) □ DIBUTYL PEROXYDICARBONATE □ DI-*n*-BUTYL

PEROXYDICARBONATE, >52% in solution (DOT) □ PEROXYDI CARBONIC ACID, DIBUTYL ESTER

DOT CLASSIFICATION: Forbidden

SAFETY PROFILE: A highly unstable peroxide. When heated to decomposition it emits acrid smoke and irritating vapors.

BSD000 CAS: 19910-65-7 HR: 2
***sec*-BUTYL PEROXYDICARBONATE**

mf: C₁₀H₁₈O₆ mw: 234.28

SYNS: DI-*sec*-BUTYL PEROXYDICARBONATE □ DI-*sec*-BUTYL PEROXYDICARBONATE, not more than 52% in solution (DOT) □ DI-*sec*-BUTYL PEROXYDICARBONATE, technically pure (DOT)

TOXICITY DATA with REFERENCE:

skn-rbt LD50:1200 mg/kg BSPII* 1/75-19B

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by skin contact. See also PEROXIDES, ORGANIC. When heated to decomposition it emits acrid smoke and irritating fumes.

BSD100 CAS: 13467-82-8 HR: 1
***tert*-BUTYL PEROXYOCTOATE**

mf: C₁₂H₂₄O₃ mw: 216.36

SYNS: *tert*-BUTYL PERCAPRYLATE □ *tert*-BUTYL PEROCT-ANOATE □ *tert*-BUTYL PEROCTOATE □ *tert*-BUTYL PEROXY-OCTANOATE □ KAYAESTER O □ KAYAESTER O 50 □ OCTA-NEPEROXOIC ACID, 1,1-DIMETHYLETHYL ESTER □ PEROXY-OCTANOIC ACID, *tert*-BUTYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:>10 g/kg BSPII* 1/75-19B

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

BSD250 CAS: 927-07-1 HR: 3
***tert*-BUTYL PEROXYPIVALATE**

mf: C₉H₁₈O₃ mw: 174.27

PROP: Colorless liquid. D: 0.854 @ 25°/25°, fp: <19°, flash p: >155°F (OC), rapid decomp @ 21°. Insol in water and ethylene glycol; sol in most org solvs.

SYNS: *t*-BUTYL PEROXYPIVALATE □ *tert*-BUTYL PERPI-VALATE □ *tert*-BUTYL TRIMETHYLPEROXYACETATE □ ESPEROX 31M □ LUPERSOL 11 □ TRIGONOX 25/75 □ TRIGONOX 25-C75

TOXICITY DATA with REFERENCE:

orl-rat LD50:4300 mg/kg BSPII* 1/75-19B

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. Moderately flammable by heat, flame (sparks), oxidizers. Can explode on heating. To fight fire, use water, fog, mist, alcohol foam, dry chemical. When heated to decomposition it emits acrid smoke and fumes. See also PEROXIDES, ORGANIC.

BSE000 CAS: 89-72-5 HR: 3
***o*-*sec*-BUTYLPHENOL**

mf: C₁₀H₁₄O mw: 150.24

PROP: Colorless liquid. Bp: 226-228° @ 25 mm, fp: 12°, flash p: 225°F, d: 0.981 @ 25°/25°.

SYN: 2-*sec*-BUTYLPENOL (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV 28ZPAK -,55,72
 eye-rbt 50 µg/24H SEV 28ZPAK -,55,72
 ipr-mus LD50:63 mg/kg JMCMA 18,868,75
 ivn-mus LD50:60 mg/kg JMCMA 23,1350,80
 orl-gpg LD50:600 mg/kg DTLVS* 4,58,80
 skn-gpg LD50:600 mg/kg DTLVS* 4,58,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 5 ppm (skin)

ACGIH TLV: TWA 5 ppm (skin)

SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and skin contact. A severe skin and eye irritant. Combustible when exposed to heat or flame. To fight fire, use foam, spray, CO₂, dry chemical. When heated to decomposition it emits acrid and irritating fumes. See also PHENOL and other butyl phenols.

BSE250 CAS: 99-71-8 HR: 3
p-sec-BUTYLPHENOL

mf: (CH₃CHC₂H₅)C₆H₄OH mw: 150.2

PROP: Nearly white flakes. Bp: 135.4–136.5° @ 25 mm, fp: 51°, flash p: 240°F, d: 0.963 @ 60°/60°, mp: 60°.

SYN: 4-sec BUTYL PHENOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:2450 mg/kg SCIEAS 36(1-4),10,89
 ipr-mus LD50:66 mg/kg JMCMA 18,868,75
 ivn-mus LD50:40 mg/kg JMCMA 23,1350,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. Combustible when exposed to heat or flame. When heated to decomposition it emits toxic fumes. To fight fire, use foam, CO₂, dry chemical. Incompatible with oxidizing materials. See also PHENOL and other butyl phenols.

BSE440 CAS: 3180-09-4 HR: 2
2-n-BUTYLPHENOL

mf: C₁₀H₁₄O mw: 150.24

PROP: D: 0.975 @ 20°/4°, bp: 234–237°.

TOXICITY DATA with REFERENCE:

orl-rat LD50:634 mg/kg PSEBAA 32,592,35

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also PHENOL and other butyl phenols.

BSE450 CAS: 1638-22-8 HR: 2
4-n-BUTYLPHENOL

mf: C₁₀H₁₄O mw: 150.24

PROP: Solid or liquid. D: 0.976 @ 22°/4°, mp: 22°, bp: 248°.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also PHENOL and other butyl phenols.

BSE460 CAS: 88-18-6 HR: 3
2-tert-BUTYLPHENOL

mf: C₁₀H₁₄O mw: 150.24

SYN: PHENOL, o-(tert-BUTYL)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:82 mg/kg JMCMA 18,868,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSE500 CAS: 98-54-4 HR: 3
4-tert-BUTYLPHENOL

mf: C₁₀H₁₄O mw: 150.24

PROP: Crystals, needles, or practically white flakes. Mp: 99°, bp: 236–238°, d: 0.9081 @ 114°/4°, vap press: 1 mm @ 70.0°, vap d: 5.1.

SYNS: p-tert-BUTYLPHENOL (CZECH) □ BUTYLPHEN □ p-tert-BUTYLPHENOL (MAK) □ 4-(1,1-DIMETHYLETHYL)PHENOL □ 1-HYDROXY-4-tert-BUTYLBENZENE □ UCAR BUTYLPHENOL 4-T

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/4H MLD DCTODJ 11,43,88
 skn-rbt 500 mg/24H MLD 85JCAE -,224,86
 eye-rbt 10 mg SEV DCTODJ 11,43,88
 eye-rbt 50 µg/24H SEV 85JCAE -,224,86
 orl-rat LD50:3250 µL/kg AIHAAP 30,470,69
 ihl-rat LCLo:5600 mg/m³/4H DCTODJ 11,43,88
 ipr-mus LD50:78 mg/kg JMCMA 18,868,75
 skn-rbt LD50:2520 µL/kg AIHAAP 30,470,69
 orl-mam LD50:1500 mg/kg GISAAA 45(10),16,80
 skn-uns LD50:1580 mg/kg GISAAA 45(10),16,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: 0.08 ppm (0.5 mg/m³)

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by skin contact and ingestion. A skin and severe eye irritant. Questionable carcinogen with experimental neoplastigenic data. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid and irritating fumes. See also PHENOL and other butyl phenols.

BSE600 CAS: 3101-60-8 HR: D
tert-BUTYLPHENOL GLYCIDYL ETHER

mf: C₁₃H₁₈O₂ mw: 206.31

SYNS: 3-(p-tert-BUTYLPHENOXY)-1,2-EPOXYPROPANE □ tert-BUTYLPHENYL GLYCIDYL ETHER □ ((4-(1,1-DIMETHYLETHYL)PHENOXY)METHYL)OXIRANE □ OXIRANE, ((4-(1,1-DIMETHYLETHYL)PHENOXY)METHYL)-(9CI) □ PROPANE, 1-(p-tert-BUTYLPHENOXY)-2,3-EPOXY- □ R 1007

TOXICITY DATA with REFERENCE:

mno-sat 33 µg/plate MUREAV 172,105,86
 oth-esc 100 µmol/L MUREAV 231,205,90
 sce-ham:lng 160 µmol/L MUREAV 249,55,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSE700 CAS: 5787-50-8 HR: D**p-tert-BUTYLPHENOL SODIUM SALT**mf: C₁₀H₁₃O•Na mw: 172.22**SYNS:** 4-(1,1-DIMETHYLETHYL)PHENOL SODIUM SALT □ PHENOL, 4-(1,1-DIMETHYLETHYL)-, SODIUM SALT**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory. EPA FIFRA 1988 pesticide subject to registration or re-registration.**SAFETY PROFILE:** A pesticide with unreported toxicity. When heated to decomposition it emits acrid smoke and irritating vapors.**BSE750 CAS: 56488-59-6 HR: 3**
4'-(3-(4'-tert-BUTYLPHENOXY)-2-HYDROXY-PROPOXY)BENZOIC ACIDmf: C₂₀H₂₄O₅ mw: 344.44**SYN:** 4-(3-(4-(1,1-DIMETHYLETHYL)PHENOXY)-2-HYDROXYPROPOXY)BENZOIC ACID**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2400 mg/kg DRFUD4 4,140,79

ipr-rat LD50:500 mg/kg DRFUD4 4,140,79

orl-mus LD50:2100 mg/kg DRFUD4 4,140,79

ipr-mus LD50:335 mg/kg DRFUD4 4,140,79

orl-rbt LD50:1800 mg/kg DRFUD4 4,140,79

orl-gpg LD50:320 mg/kg DRFUD4 4,140,79

orl-mam LD50:5000 mg/kg DRFUD4 4,140,79

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes.**BSF250 CAS: 61005-12-7 HR: 3****o-sec-BUTYLPHENYL CARBAMATE**mf: C₁₂H₁₇NO₂ mw: 207.30**TOXICITY DATA with REFERENCE:**

orl-rat LD50:410 mg/kg OYYAA2 3,74,69

orl-mus LD50:340 mg/kg OYYAA2 3,74,69

SAFETY PROFILE: A poison by ingestion. See also CARBAMATES. When heated to decomposition it emits toxic fumes of NO_x.**BSF275 CAS: 4653-73-0 HR: D****5-N-(p-N-BUTYLPHENYL)-2,4-DIAMINO-6,6-DIMETHYL-1,6-DIHYDRO-1,3,5-TRIAZINE**mf: C₁₅H₂₃N₅ mw: 273.43**SYNS:** BW 57-43 □ BW-A 43U □ s-TRIAZINE, 1,2-DIHYDRO-1-(p-BUTYLPHENYL)-4,6-DIAMINO-2,2- □ 1,3,5-TRIAZINE-2,4-DIAMINE, 1,6-DIHYDRO-1-(4-BUTYLPHENYL)-6,6-DIMETHYL-**TOXICITY DATA with REFERENCE:**

uns-hmn-lym 238 nmol/L BCPA6 25,1947,1976

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**BSF300 CAS: 981-40-8 HR: 3**
p-tert-BUTYLPHENYL DIPHENYLPHOSPHATEmf: C₂₂H₂₅O₄P mw: 382.42**SYN:** PHOSPHORIC ACID, (p-tert-BUTYLPHENYL) DIPHENYL ESTER**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>15,800 mg/kg TXAPA9 41,291,77

ivn-mus LDLo:100 mg/kg CBCCT* 5,140,53

skn-rbt LD50:>7900 mg/kg TXAPA9 41,291,77

orl-ckn LD50:>10 g/kg TXAPA9 41,291,77

SAFETY PROFILE: A poison by intravenous route. Low toxicity by ingestion and skin contact. When heated to decomposition it emits toxic vapors of PO_x.**BSF750 CAS: 1126-79-0 HR: 2**
BUTYL PHENYL ETHERmf: C₁₀H₁₄O mw: 150.24**PROP:** Liquid. Flash p: 180°F (OC), d: 0.9, vap d: 5.2, mp: -19°, bp: 210°.**SYN:** BUTOXYPHENYL**TOXICITY DATA with REFERENCE:**

orl-mus LD50:3200 mg/kg JPETAB 88,400,46

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. See also ETHERS. When heated to decomposition it emits acrid and irritating fumes.**BSG000 CAS: 329-21-5 HR: 3**
S-p-tert-BUTYLPHENYL-o-ETHYL ETHYL PHOSPHONODITHIOATEmf: C₁₄H₂₃OPS₂ mw: 302.46**SYNS:** S-(4-(1,1-DIMETHYLETHYL)PHENYL)-o-ETHYL ETHYLPHOSPHONODITHIOATE □ ENT 25,765 □ N 3051 □ STAUFFER N-3051**TOXICITY DATA with REFERENCE:**

orl-rat LD50:141 mg/kg ARSIM* 20,22,66

orl-ckn LD50:64 mg/kg TXAPA9 7,606,65

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of SO_x and PO_x. See also ESTERS.**BSG100 CAS: 85303-89-5 HR: D**
3-(o-BUTYLPHENYL)-5-(m-METHOXYPHENYL)-s-TRIAZOLEmf: C₁₉H₂₁N₃O mw: 307.43**SYN:** s-TRIAZOLE, 3-(o-BUTYLPHENYL)-5-(m-METHOXY-PHENYL)-**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.**BSG250 CAS: 673-19-8 HR: 3**
m-sec-BUTYLPHENYL-N-METHYLCARBAMATEmf: C₁₂H₁₇NO₂ mw: 207.30**SYNS:** 3-sec-BUTYLPHENYL-N-METHYLCARBAMATE □ CALIFORNIA CHEMICAL COMPANY RE5305 □ CHEVRON RE5305 □ ENT 27,039 □ H-28 □ m-(1-METHYLPROPYL) PHENYLMETHYLCARBAMATE □ RE 5305 (CALIFORNIA CHEMICAL)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:10 mg/kg ARSIM* 20,7,66

orl-ckn LD50:14 mg/kg TXAPA9 11,49,67

orl-bwd LD50:4600 µg/kg TXAPA9 21,315,72

SAFETY PROFILE: Poison by ingestion. See also CARBAMATES. When heated to decomposition it emits toxic fumes of NO_x.**BSG300 CAS: 780-11-0 HR: 2**
3-tert-BUTYLPHENYL N-METHYLCARBAMATEmf: C₁₂H₁₇NO₂ mw: 207.30

SYNS: CARBAMIC ACID, METHYL-, 3-*tert*-BUTYLPHENYL ESTER □ H-22 □ KNOCKBAL □ PHENOL, 3-(1,1-DIMETHYLETHYL)-, METHYLCARBAMATE (9CI) □ RE 5030 □ TBPMC □ TERBAM

TOXICITY DATA with REFERENCE:

orl-mus LD50:470 mg/kg 85ARAE 1,44,77
skn-mus LD50:2660 mg/kg JPIFAN (4),28,70
orl-rbt LD50:505 mg/kg JPIFAN (4),28,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSH000 **CAS: 177-05-1** **HR: 3**

2-*tert*-BUTYL-3-PHENYL OXAZIRANE

mf: C₁₁H₁₅NO mw: 177.05

SAFETY PROFILE: May explode in vacuum. When heated to decomposition it emits toxic fumes of NO_x.

BSH075 **CAS: 85303-88-4** **HR: D**
3-(*o*-BUTYLPHENYL)-5-PHENYL-s-TRIAZOLE

mf: C₁₈H₁₉N₃ mw: 277.40

SYN: s-TRIAZOLE, 3-(*o*-BUTYLPHENYL)-5-PHENYL-

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

BSH100 **CAS: 87-18-3** **HR: 2**
p-*tert*-BUTYLPHENYL SALICYLATE

mf: C₁₇H₁₈O₃ mw: 270.13

SYNS: BENZOIC ACID, 2-HYDROXY-, 4-(1,1-DIMETHYLETHYL) PHENYL ESTER □ p-*tert*-BUTYLPHENYLESTER KYSELINY SALICYLOVE

TOXICITY DATA with REFERENCE:

orl-mus LD50:2900 mg/kg 85JCAE -,672,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSH250 **CAS: 78-48-8** **HR: 3**
BUTYL PHOSPHOROTRITHIOATE

mf: C₁₂H₂₇OPS₃ mw: 314.54

PROP: Liquid. Bp: 167–170° @ 1 mm, d: 1.06 @ 20

mm. Insol in water; sol in aliphatic, aromatic, and chlorinated hydrocarbons.

SYNS: B-1,776 □ BUTIFOS □ BUTIPHOS □ CHEMAGRO 1,776 □ CHEMAGRO B-1776 □ DEF □ DEF DEFOLIANT □ DE-GREEN □ E-Z-OFF D □ FOS-FALL "A" □ ORTHO PHOSPHATE DEFOLIANT □ S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE □ S,S,S-TRIBUTYL TRITHIOPHOSPHATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:150 mg/kg TXAPA9 14,515,69
skn-rat LD50:168 mg/kg WRPCA2 9,119,70
skn-rat LD50:168 mg/kg WRPCA2 9,119,70
ipr-rat LD50:210 mg/kg 34ZIAG -,199,69
orl-mus LD50:77 mg/kg 85JCAE -,1188,86
ihl-mus LCLo:3804 mg/m³/1H 34ZIAG -,199,69
ipr-mus LD50:290 mg/kg 34ZIAG -,199,69
skn-rbt LD50:97 mg/kg 85GMAT -,44,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion, skin contact, and intraperitoneal routes. Experimental reproductive effects. Animal experiments show an anticholinesterase effect. When heated to decomposition it emits toxic fumes of PO_x and SO_x. See also PARATHION, PHOSPHATES, ESTERS, and SULFATES.

BSH500 **CAS: 6066-49-5** **HR: 2**
3-*n*-BUTYLPHthalide

mf: C₁₂H₁₄O₂ mw: 190.26

SYNS: BUTYLPHthalide □ 3-BUTYLPHthalide

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,241,79
orl-rat LD50:2450 mg/kg FCTXAV 17,241,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSH600 **CAS: 10108-61-9** **HR: 3**
N-*sec*-BUTYLPHthalimide

mf: C₁₂H₁₃NO₂ mw: 203.26

SYNS: N-*sec*-BUTYLFTALIMID □ PHthalimide, N-*sec*-BUTYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:1100 µL/kg JPETAB 93,26,48
orl-mus LD50:1600 µL/kg JPETAB 93,26,48
orl-rbt LD50:2300 µL/kg JPETAB 93,26,48
orl-gpg LD50:1200 µL/kg JPETAB 93,26,48
skn-gpg LD50:>10 mL/kg JPETAB 93,26,48

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion and skin contact.

BSI000 **CAS: 536-69-6** **HR: 3**
5-BUTYL PICOLINIC ACID

mf: C₁₀H₁₃NO₂ mw: 179.24

PROP: Plates from pet ether. Mp: 108–109°.

SYNS: 5-BUTYL-2-PYRIDINECARBOXYLIC ACID □ FUSARIC ACID □ FUSARINIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:480 mg/kg JJANAX 29,439,76
ipr-rat LD50:250 mg/kg JJANAX 29,439,76
scu-rat LD50:300 mg/kg JJANAX 29,439,76
ivn-rat LD50:210 mg/kg JJANAX 29,439,76
orl-mus LD50:180 mg/kg JOPHDQ 6,922,83
ipr-mus LD50:75 mg/kg JOPHDQ 6,922,83
ivn-mus LD50:100 mg/kg 85ERAY 3,1873,78

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

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

BSI250 **CAS: 2180-92-9** **HR: 3**

1-BUTYL-2',6'-PIPECOLOXYLIDIDEmf: C₁₈H₂₈N₂O mw: 288.48**SYNS:** BUPIVACAINE □ di-BUPIVACAINE**TOXICITY DATA with REFERENCE:**

ivn-hmn TDLo:4300 µg/kg:BPR,PSY AANEAB 21,521,77

scu-rat LD50:48 mg/kg APTOA6 31,273,72

ivn-rat LD50:5600 µg/kg APTOA6 31,273,72

ipr-mus LD50:58,700 µg/kg TXAPA9 54,501,80

scu-mus LD50:53 mg/kg APTOA6 31,273,72

ivn-mus LD50:7300 µg/kg APTOA6 31,273,72

ivn-rbt LD50:1620 µg/kg AACRAT 64,209,85

par-rbt LD50:64 mg/kg ARZNAD 26,78,76

itr-rbt LD50:12,500 µg/kg ARZNAD 26,78,76

SAFETY PROFILE: A poison by subcutaneous, intraperitoneal, intratracheal, parenteral, and intravenous routes. An experimental teratogen. Other experimental reproductive effects. Human systemic effects by intravenous route: changes in regional blood flow rates and euphoria. When heated to decomposition it emits toxic fumes of NO_x.

BSI750 CAS: 78329-88-1 HR: 2
p-(N-BUTYL-2-(PIPERIDINO)ACETAMIDO)
BENZOIC ACID BUTYL ESTER
HYDROCHLORIDE

mf: C₂₂H₃₄N₂O₃•ClH mw: 411.04**SYN:** C 3181**TOXICITY DATA with REFERENCE:**

eye-rbt 2% SEV ARZNAD 8,609,58

ipr-rat LD50:480 mg/kg ARZNAD 8,609,58

scu-mus LD50:3750 mg/kg ARZNAD 8,609,58

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. A severe eye irritant. See also ESTERS. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

BSJ500 CAS: 590-01-2 HR: 3
BUTYL PROPANOATE
DOT: UN 1914

mf: C₇H₁₄O₂ mw: 130.2

PROP: Water-white liquid; apple-like odor. Mp: -89.6°, bp: 145.4°, flash p: 90°F, d: 0.893 @ 0°/0°, autoign temp: 800°F, vap d: 4.49.

SYNS: BUTYL PROPIONATE □ n-BUTYL PROPIONATE □ PROPANOIC ACID BUTYLESTER (9CI)**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 18,661,80

eye-rbt 100 mg SEV JACTDZ 1,192,92

orl-rat LD50:5 g/kg FCTXAV 18,661,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. Dangerously flammable when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical. Incompatible with oxidizing materials. See also ESTERS, n-BUTYL ALCOHOL, and PROPIONIC ACID.

BSJ550 CAS: 539-32-2 HR: 3
3-BUTYLPYRIDINE
mf: C₉H₁₃N mw: 135.23

SYNS: 3-n-BUTYLPYRIDINE □ PYRIDINE, 3-BUTYL- □ 1-(3-PYRIDYL)BUTANE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:270 mg/kg JPETAB 88,82,46

ivn-mus LD50:59 mg/kg JPETAB 88,82,46

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.

BSK000 CAS: 98-29-3 HR: 3
4-tert-BUTYLPYROCATECHOL

mf: C₁₀H₁₄O₂ mw: 166.24

PROP: Crystals. Fp: 52°, bp: 285°, flash p: 265°F, d: 1.049 @ 60°/25°.

SYNS: 4-tert-BUTYLCATECHOL □ p-tert-BUTYLPYROCATECHOL □ 4-tert-BUTYLPYROKATECHIN (CZECH) □ 4-(1,1-DIMETHYLETHYL)-1,2-BENZENEDIOL □ SYNOX TBC

TOXICITY DATA with REFERENCE:

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

skn-rbt 750 µg/24H SEV 85JCAE -,236,86

eye-rbt 50 µg open SEV AMIHBC 10,61,54

skn-gpg 0.1%/3W MLD JIDEAE 55,190,70

skn-gpg 1%/3W MOD JIDEAE 55,190,70

msc-mus:lym 80 µg/L EMMUEG 11,523,88

orl-rat LD50:2820 mg/kg AMIHBC 10,61,54

ivn-mus LD50:32 mg/kg CSLNX* NX#07874

skn-rbt LD50:630 mg/kg AMIHBC 10,61,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by ingestion and skin absorption. A severe skin and eye irritant. Mutation data reported. Combustible when exposed to heat or flame. To fight fire, use CO₂, dry chemical, fog, mist. When heated to decomposition it emits acrid and irritating fumes.

BSK250 CAS: 767-10-2 HR: 3
n-BUTYLPYRROLIDINE

mf: C₈H₁₇N mw: 127.26**TOXICITY DATA with REFERENCE:**

orl-mus LD50:51 mg/kg INHEAO 4,63,66

skn-mus LD50:1000 mg/kg INHEAO 4,63,66

ipr-mus LD50:37 mg/kg INHEAO 4,63,66

scu-mus LD50:57 mg/kg INHEAO 4,63,66

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

BSL250 CAS: 2052-14-4 HR: 2
n-BUTYL SALICYLATE

mf: C₁₁H₁₄O₃ mw: 194.25

SYNS: BUTYL-o-HYDROXYBENZOATE □ n-BUTYL-o-HYDROXYBENZOATE □ BUTYL SALICYLATE □ 2-HYDROXYBENZOIC ACID BUTYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:1700 mg/kg FCTXAV 16,637,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSL325 **HR: 3**

n-BUTYLSCOPOLAMINE TANNATE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:343 mg/kg OYYAA2 5,599,71

ipr-mus LD50:146 mg/kg OYYAA2 5,599,71

scu-mus LD50:228 mg/kg OYYAA2 5,599,71

SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

BSL350 **CAS: 63906-49-0** **HR: 3**

BUTYL SELENOCYANOACETATE

mf: C₇H₁₁NO₂Se mw: 220.15

SYN: ACETIC ACID, SELENOCYANO-, BUTYL ESTER

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:100 mg/kg NCNSA6 5,15,1953

ACGIH TLV: TWA 0.2 mg(Se)/m³

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

BSL450 **CAS: 52670-52-7** **HR: 3**

17-BUTYLSPARTEIN

mf: C₁₉H₃₄N₂ mw: 290.55

SYN: 6-BUTYLDODECAHYDRO-7,14-METHANO-2H,6H-DIPYRIDO(1,2-a:1',2'-e)(1,5)DIAZOCINE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1820 mg/kg ARZNAD 30,1497,80

ipr-mus LD50:160 mg/kg ARZNAD 30,1497,80

ivn-mus LD50:27,300 µg/kg ARZNAD 30,1497,80

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

BSL500 **CAS: 2273-43-0** **HR: 3**

BUTYL STANNOIC ACID

mf: C₄H₁₀O₂Sn mw: 208.83

PROP: White infusible solid. Sol in Me₂CO.

SYN: BUTYLHYDROXYOXOSTANNANE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#03474

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BSL600 **CAS: 123-95-5** **HR: 1**

BUTYL STEARATE

mf: C₂₂H₄₄O₂ mw: 340.57

PROP: Crystals from alcohol, propanol, or ether.

SYNS: APEX 4 □ BS □ BUTYL OCTADECANOATE □ n-BUTYL OCTADECANOATE □ n-BUTYL STEARATE □ EMEREST 2325 □ GROCO 5810 □ KESSCO BSC □ KESSCOFLEX BS □ POLYCIZER 332 □ OCTADECANOIC ACID, BUTYL ESTER (9CI) □ RC PLASTICIZER B-17 □ STARFOL BS-100 □ TEGESTER BUTYL STEARATE □ UNIFLEX BYS □ WICKENOL 122 □ WITCIZER 200 □ WITCIZER 201

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD JACTDZ 4(5),107,85

orl-rat LD50:32 g/kg IPSTB3 3,93,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSL750 **CAS: 63979-65-7** **HR: 3**

n-BUTYL-k-STROPHANTHIDIN

mf: C₂₇H₃₈O₇ mw: 474.65

TOXICITY DATA with REFERENCE:

ivn-cat LDLo:350 µg/kg AEPPAE 185,329,37

ivn-rat LDLo:500 µg/kg AEPPAE 185,329,37

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

BSM000 **CAS: 339-43-5** **HR: 3**

1-BUTYL-3-SULFANILYL UREA

mf: C₁₁H₁₇N₃O₃S mw: 271.37

PROP: Solid. Mp: 144–145°.

SYNS: ALENTIN □ N-(4-AMINO BENZENESULFONYL)-N'-BUTYLUREA □ 4-AMINO-N-((BUTYLAMINO)CARBONYL) BENZENESULFONAMIDE □ AMINOPHENUROBUTANE □ BUCARBAN □ BUCROL □ BUKARBAN □ BURCOL □ BUTISUL FINA □ N'-(BUTYLCARBAMOYL)SULFANILAMIDE □ N¹-(BUTYL CARBAMOYL)SULFANILAMIDE □ N-BUTYLSULFANILYL UREA □ CARBUTAMID □ CARBUTAMIDE □ CICLORAL □ DIA BORAL □ EMEDAN □ GLUCIDORAL □ GLUCOFREN □ GLYBUT AMIDE □ INBUTON □ INVENOL □ NADISAN □ NADI ZAN □ NORBORAL □ ORANIL □ ORANYL □ ORASULIN □ N¹-SULFANILYL-N²-BUTYLCARBAMIDE □ N¹-SULFANILYL-N²-BUTYLUREA □ N-SULFANILYL-N'BUTYLUREE (FRENCH) □ U 6987

TOXICITY DATA with REFERENCE:

orl-rat LD50:7800 mg/kg FATOAO 25,93,62

ivn-rat LD50:980 mg/kg DIAEAZ 6,2,57

orl-mus LD50:2800 mg/kg FATOAO 25,93,62

ipr-mus LD50:250 mg/kg NTIS** AD691-490

scu-mus LD50:2640 mg/kg DIAEAZ 6,2,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

**BSM125 CAS: 544-40-1 HR: 2
BUTYL SULFIDE**mf: C₈H₁₈S mw: 146.32**PROP:** Liquid. Mp: -79.7°, bp: 185–185.5°, d: 0.839. Insol in water; very sol in alc and ether.**SYNS:** BUTYL MONOSULFIDE □ n-BUTYL-SULFIDE □ BUTYLTHIOBUTANE □ n-DIBUTYL SULFIDE □ DI-n-BUTYLSULFIDE □ DIBUTYL SULPHIDE □ DIBUTYL THIOETHER □ 5-THIANONANE □ THIANONANE-5**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 17,769,79

orl-rat LD50:2220 mg/kg FCTXAV 17,769,79

ihl-mus LCLo:1800 mg/m³ FCTXAV 17,769,79**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits toxic fumes of SO_x. See also SULFIDES.**BSM250 CAS: 64910-63-0 HR: 3
1-BUTYLSULFONIMIDOCYCLOHEXA-METHYLENE**mf: C₁₀H₂₁NO₂S mw: 219.38**SYN:** N-CYCLOHEXYL-1-BUTANESULFONAMIDE**TOXICITY DATA with REFERENCE:**

skn-rbt 175 mg/14D MLD NTIS** AD-A022-909

orl-rat LD50:2816 mg/kg NTIS** AD-A022-909

ipr-rat LD50:1074 mg/kg NTIS** AD-A022-909

ivn-rat LDLo:225 mg/kg NTIS** AD-A022-909

orl-mus LD50:5400 mg/kg NTIS** AD-A022-909

skn-mus LD50:7560 mg/kg NTIS** AD-A022-909

scu-mus LD50:519 mg/kg NTIS** AD-A022-909

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. A skin irritant. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.**BSM400 CAS: 2021-19-4 HR: 3
N-BUTYL-1,2,3,6-TETRAHYDRONAPHTH-ALIMIDE**mf: C₁₂H₁₇NO₂ mw: 207.30**SYN:** 4-CYCLOHEXENE-1,2-DICARBOXIMIDE, N-BUTYL-**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2500 µL/kg JPETAB 93,26,48

orl-mus LD50:3300 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 toxic vapors of NO_x.**BSM825 CAS: 63906-57-0 HR: 3
1-BUTYL THEOBROMINE**mf: C₁₁H₁₄N₄O₂ mw: 234.29**SYNS:** 1-(2'-BUTENYL)THEOBROMINE □ 1-CROTYL THEOBROMINE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:667 mg/kg JPETAB 116,343,56

ipr-mus LD50:230 mg/kg JPETAB 116,343,56

ivn-mus LD50:95 mg/kg JPETAB 86,113,46

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion.When heated to decomposition it emits toxic fumes of NO_x.**BSN000 CAS: 34014-18-1 HR: 3
1-(5-(tert-BUTYL)-1,3,4-THIADIAZOL-2-YL)-1,3-DIMETHYLUREA**mf: C₉H₁₆N₄OS mw: 228.35**PROP:** Solid. Mp: 161.5–164°. Sltly sol in H₂O; sol in Me₂CO, MeOH; sltly sol in hexane.**SYNS:** BRULAN □ 1-(5-tert-BUTYL-1,3,4-THIADIAZOL-2-YL)-3-DIMETHYLHARNSTOFF (GERMAN) □ N-(5-(1,1-DIMETHYLETHYL)-1,3,4-THIADIAZOL-2-YL)-N,N'-DIMETHYLHARNSTOFF (GERMAN) □ E-103 □ EI-103 □ EL-103 □ GRASLAN □ PERFMID □ PREFLAN □ PREFMID □ SPIKE □ TEBULAN □ TEBU THIURON □ TIUROLAN**TOXICITY DATA with REFERENCE:**

orl-rat LD50:644 mg/kg FMCHA2 -D286,80

ipr-rat LD50:480 mg/kg NNGADV 17,S35,92

scu-rat LD50:500 mg/kg NNGADV 17,S35,92

orl-mus LD50:579 mg/kg 85DPAN -,71/76

ipr-mus LD50:505 mg/kg NNGADV 17,S35,92

scu-mus LD50:545 mg/kg NNGADV 17,S35,92

orl-rbt LD50:286 mg/kg 85DPAN -,71/76

SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.**BSN325 CAS: 2314-17-2 HR: 2
2-BUTYLTHIOBENZOTHAZOLE**mf: C₁₁H₁₃NS₂ mw: 223.37**SYN:** BUTYLCAPTAX**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1270 mg/kg 85GMAT -,29,82

unr-rat LD50:1300 mg/kg GISAAA 47(2),63,82

orl-mus LD50:1610 mg/kg 85GMAT -,29,82

orl-rbt LD50:2344 mg/kg 85GMAT -,29,82

SAFETY PROFILE: Moderately toxic by ingestion and possibly other routes. When heated to decomposition it emits toxic fumes of SO_x and NO_x.**BSN500 CAS: 628-83-1 HR: 3
n-BUTYL THIOCYANATE**mf: C₅H₉NS mw: 115.21**SYNS:** n-BUTYL RHODANATE □ BUTYRHODANID (GERMAN) □ 1-THIOCYANOBUTANE**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:250 mg/kg JIHTAB 18,310,36

scu-rat LDLo:70 mg/kg JIHTAB 18,310,36

ipr-mus LD50:13 mg/kg PCBPBS 2,95,72

scu-mus LDLo:130 mg/kg JIHTAB 18,310,36

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also THIOCYANATES.**BSO000 CAS: 13071-79-9 HR: 3
S-((tert-BUTYLTHIO)METHYL)-O,O-DIETHYL PHOSPHORODITHIOATE**

mf: $C_9H_{21}O_2PS_3$ mw: 288.45

PROP: Pale-yellow liquid. D: 1.105 @ 24 mm, mp: -29° , bp: 69° @ 0.01 mm. Very sltly sol in H_2O ; sol in most org solvs.

SYNS: AC 921000 □ COUNTER □ COUNTER 15G SOIL INSECTICIDE □ COUNTER 15G SOIL INSECTICIDE-NEMATOCIDE □ S-(((1,1-DIMETHYLETHYL)THIO)METHYL)-O,O-DIETHYL PHOSPHORODITHIOATE □ PHOSPHORODITHIOIC ACID S-((tert-BUTYLTHIO)METHYL)-O,O-DIETHYL ESTER □ PHOSPHORODITHIOIC ACID S-(((1,1-DIMETHYLETHYL)THIO)METHYL)-O,O-DIETHYL ESTER □ TERBUFOS

TOXICITY DATA with REFERENCE:

orl-rat LD50:1600 µg/kg MEIEDD 10,1310,83
orl-mus LD50:3500 µg/kg FMCHA2 -,C63,83
orl-dog LD50:4500 µg/kg FMCHA2 -,C63,83
skn-rbt LD50:1100 µg/kg/24H FMCHA2 -,C63,83
orl-qal LD50:15 mg/kg EESADV 8,551,84

CONSENSUS REPORTS: EPA Genetic Toxicology Program. EPA Extremely Hazardous Substances List.

ACGIH TLV: TWA 0.01 mg/m³ (skin); Not Classifiable as a Human Carcinogen

SAFETY PROFILE: Deadly poison by ingestion and skin contact. An insecticide. When heated to decomposition it emits very toxic fumes of SO_x and PO_x . See also ESTERS.

BSO100 CAS: 2396-68-1 HR: 3 4-tert-BUTYLTHIOPHENOL

mf: $C_{10}H_{14}S$ mw: 166.30

SYN: BENZENETHIOL, p-tert-BUTYL-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:100 mg/kg CSLNX* NX#00454

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

BSO200 CAS: 70303-47-8 HR: 3 (BUTYLTHIO)TRIOCTYLSTANNANE

mf: $C_{28}H_{60}SSn$ mw: 547.63

SYNS: STANNANE, (BUTYLTHIO)TRIOCTYL- □ TRIOCTYL (BUTYLTHIO)STANNANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:389 mg/kg RPTOAN 42,73,79

OSHA PEL: TWA 0.1 mg(Sn)/m³

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg/m³ (skin)

NIOSH REL: (Organotin compound): 10H TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BSO500 CAS: 1516-32-1 HR: 3 n-BUTYL THIOUREA

mf: $C_5H_{12}N_2S$ mw: 132.25

SYN: USAF D-5

TOXICITY DATA with REFERENCE:

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSO750 CAS: 25151-00-2 HR: 3 BUTYLtin TRILAURATE

mf: $C_{40}H_{72}O_6Sn$ mw: 767.81

SYNS: BTT □ n-BUTYLtin TRICHLORIDE □ BUTYLtin TRI(DODECANOATE) □

BUTYLtri(LAUROYLOXY)STANNANE □ MONOBUTYLtin TRICHLORIDE □ MONOBUTYLtin TRILAURATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:325 mg/kg GISAAA 41(5),10,76

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BSP000 CAS: 73927-88-5 HR: 3 n-BUTYLtin

TRIS(DIBUTYLDITHIOCARBAMATE)

mf: $C_{31}H_{63}N_3S_6Sn$ mw: 789.02

SYN: BUTYLtris(DIBUTYLDITHIOCARBAMATO)STANNANE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#02083

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

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

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BSP250 CAS: 5593-70-4 HR: 3 BUTYL TITANATE

mf: $C_{16}H_{36}O_4 \cdot Ti$ mw: 340.42

PROP: Colorless to light-yellow liquid or oil with the odor of butanol. Mp: -55° , bp: 155° @ 1 mm, d: 0.993 @ $25^\circ/4^\circ$, flash p: $170^\circ F$, vap d: 11.5.

SYN: TETRABUTYLtitanate (CZECH)

TOXICITY DATA with REFERENCE:

orl-rat LD50:3122 mg/kg MarJV# 29MAR77

ivn-mus LD50:180 mg/kg CSLNX* NX#01650

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Suspected carcinogen. A poison by intravenous route. Moderately toxic by ingestion. See

n-BUTYL ALCOHOL and TITANIUM COMPOUNDS.
Flammable when exposed to heat or flame. To fight fire, use water, spray, foam, dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits acrid and irritating fumes.

BSP500 CAS: 98-51-1 HR: 2
p-tert-BUTYLTOLUENE

mf: C₁₁H₁₆ mw: 148.27

PROP: Colorless liquid. D: 0.861 @ 20°/4°, mp: -54°, bp: 189–192°. IDLH 100 ppm.

SYNS: p-METHYL-tert-BUTYLBENZENE □ 1-METHYL-4-tert-BUTYLBENZENE □ TBT

TOXICITY DATA with REFERENCE:

eye-hmn 5 ppm/2H AMIHBC 9,227,54

skn-rbt 500 mg/24H MLD AMIHBC 9,227,54

eye-rbt 100 mg AMIHBC 9,227,54

ihl-hmn TClO:10 ppm/3M:GIT AMIHBC 9,227,54

ihl-hmn TClO:20 ppm/5M:EYE,IRR,GIT 28ZRAQ - ,156,60

orl-rat LD50:1500 mg/kg AMIHBC 9,227,54

ihl-rat LC50:165 ppm/8H AMIHBC 9,227,54

orl-mus LD50:778 mg/kg AMIHBC 9,227,54

ihl-mus LC50:248 ppm/2H AMIHBC 9,227,54

orl-rbt LD50:2000 mg/kg AMIHBC 9,227,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 10 ppm; STEL 20 ppm

ACGIH TLV: TWA 1 ppm

DFG MAK: 10 ppm (60 mg/m³)

SAFETY PROFILE: Moderately toxic by inhalation and ingestion. A skin and human eye irritant. Human systemic effects by inhalation: nausea or vomiting, conjunctiva irritation, unspecified effects on the sense of taste. Inhalation of vapors causes irritation of lungs and depression of central nervous system. Prolonged exposure may result in damage to liver and kidneys. Flammable when exposed to heat or flame. Incompatible with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Hydrocarbons, Aromatic, 1501.

BSP750 CAS: 778-28-9 HR: 3
n-BUTYL-p-TOLUENESULFONATE

mf: C₁₁H₁₆O₃S mw: 228.33

SYNS: BUTYL-p-METHYLBENZENESULFONATE □ BUTYL-p-TOLUENESULFONATE □ BUTYL TOSYLATE □ 4-METHYLBENZENESULFONIC ACID BUTYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

scu-rat LD50:5000 mg/kg ZEKBAI 74,241,70

ivn-mus LD50:320 mg/kg CSLNX# NX#01764

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSQ000 CAS: 64-77-7 HR: 2
1-BUTYL-3-(p-TOLYL SULFONYL)UREA

mf: C₁₂H₁₈N₂O₃S mw: 270.38

PROP: Crystals. Mp: 128.5–129.5°. Insol in H₂O; sol in CHCl₃, dil acids, and alkalis.

SYNS: AGLICID □ ARKOZAL □ ARTOSIN □ ARTOZIN □ BUTAMID □ N-((BUTYLAMINO)CARBONYL)-4-METHYLBENZENESULFONAMIDE □ 1-BUTYL-3-(p-METHYLPHENYL SULFONYL)UREA □ n-BUTYL-N'-p-TOLUENESULFONYLUREA □ N-n-BUTYL-N'-TOSYLUREA □ 1-BUTYL-3-TOSYLUREA □ BZ 55 □ D 860 □ DIABEN □ DIABETAMID □ DIABETOL □ DIABUTON □ DOLIPOL □ DRABET □ HLS 831 □ IPOGLICONE □ MOBENOL □ NCI-CO1763 □ ORABET □ ORALIN □ OREZAN □ ORINASE □ ORINAZ □ OTERBEN □ RASTINON □ SK-TOLBUTAMIDE □ N-(SULFONYL-p-METHYLBENZENE)-N'-N-BUTYLUREA □ TOLBUSAL □ TOLBUTAMID □ TOLBUTAMIDE □ 1-p-TOLUENE SULFONYL-3-BUTYLUREA □ TOLUINA □ TOLUMID □ TOLUVAN □ N-(p-TOLYLSULFONYL)-N'-BUTYLCARBAMIDE □ 3-(p-TOLYL-4-SULFONYL)-1-BUTYLUREA □ TOLYLSULFONYL BUTYLUREA □ WILLBUTAMIDE

TOXICITY DATA with REFERENCE:

sce-mus-ori 28,600 µg/kg MUREAV 77,349,80

sce-ham-ipr 28,600 µg/kg MUREAV 77,349,80

orl-wmn LDLo:1 g/kg:GIT:SYS ATXKA8 23,153,68

orl-rat LD50:2490 mg/kg PMDCAY 1,187,61

ipr-rat LD50:860 mg/kg FRPSAX 12,268,57

ivn-rat LD50:700 mg/kg PMDCAY 1,187,61

orl-mus LD50:490 mg/kg IJCREE 26,81,88

ipr-mus LD50:650 mg/kg TXAPA9 4,631,62

scu-mus LD50:980 mg/kg NATUAS 193,891,62

ivn-mus LD50:770 mg/kg PMDCAY 1,187,61

ipr-mus LD50:700 mg/kg PCJOAU 14,107,80

CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-31,77. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion and several other routes. A human teratogen. Human reproductive effects by ingestion and possibly other routes: stillbirth, developmental abnormalities of the cardiovascular (circulatory) system and urogenital system, and unspecified neonatal effects. Human systemic effects by ingestion: nausea or vomiting, hypoglycemia. Other experimental teratogenic and reproductive effects. Mutation data reported. Implicated in aplastic anemia. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

BSQ250 CAS: 473-41-6 HR: D
1-BUTYL-3-(p-TOLYLSULFONYL)UREA, SODIUM SALT

mf: C₁₂H₁₇N₂O₃S•Na mw: 292.36

PROP: Crystals. Mp: 41–43°. Very sol in H₂O, EtOH, and CHCl₃.

SYN: TOLBUTAMIDE SODIUM SALT

TOXICITY DATA with REFERENCE:

ipr-mus LD50:467 mg/kg TJADAB 13,65,76

SAFETY PROFILE: An experimental teratogen. Other experimental reproductive effects. See also SULFONATES. When heated to decomposition it emits very toxic fumes of SO_x, Na₂O and NO_x.

BSQ500 CAS: 4872-26-8 HR: 3

BUTYLTRICHLORGERMANEmf: $C_4H_9Cl_3Ge$ mw: 236.07**TOXICITY DATA with REFERENCE:**

ipr-rat LDLo: 48 mg/kg CHDDAT 262,1302,66

ipr-mus LD50: 190 mg/kg CHDDAT 262,1302,66

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of Cl^- . See also GERMANIUM COMPOUNDS and CHLORIDES.

BSQ750 CAS: 93-79-8 HR: 1
BUTYL-2,4,5-TRICHLOROPHENOXYACETATE
mf: $C_{12}H_{13}Cl_3O_3$ mw: 311.60

SYN: ARBORICID □ BUTYL-2,4,5-T □ BUTYLATE-2,4,5-T □ N-BUTYLESTER KYSELINI-2,4,5-TRICHLORFENOXYOCTOVE (CZECH) □ N-BUTYL (2,4,5-TRICHLOROPHENOXY)ACETATE □ FLOMORE □ KILEX 3 □ KRZEWOTOKS □ 2,4,5-T-N-BUTYL ESTER □ TORMONA □ 2,4,5-TRICHLOROPHENOXYACETIC ACID, BUTYL ESTER □ TRIOXONE □ U46KW

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,85,72

eye-rbt 100 mg/24H MOD 28ZPAK -,85,72

cyt-dmg-orl 250 ppm/24H HEREAY 68,115,71

cyt-rat-orl 10 µg/kg GTPZAB 18(4),24,74

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion. Experimental teratogenic and reproductive effects. A skin and eye irritant. Mutation data reported. See also ESTERS. When heated to decomposition it emits toxic fumes of Cl^- .

BSR000 CAS: 7521-80-4 HR: 3
BUTYLTRICHLOROSILANE
DOT: UN 1747mf: $C_4H_9Cl_3Si$ mw: 191.57

PROP: Colorless liquid. Vap d: 6.4, flash p: 130°F (OC), d: 1.16 @ 20°/4°, bp: 148–149°.

SYN: TRICHLOROBUTYLSILANE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: A corrosive poison. See also CHLOROSILANE. Flammable liquid when exposed to heat, flame (sparks), or oxidizers. To fight fire, use water to blanket fire, fog, mist, dry chemical, alcohol foam. Reacts with water or steam to produce heat and toxic and corrosive fumes. When heated to decomposition it emits highly toxic fumes of Cl^- .

BSR250 CAS: 1118-46-3 HR: 2
BUTYL TRICHLORO STANNANE
mf: $C_4H_9Cl_3Sn$ mw: 282.17**PROP:** Liquid. D: 0.85 @ 20°/4°, bp: 93° @ 10 mm.**SYN:** CHLORID-N-BUTYLCINICITY (CZECH)**TOXICITY DATA with REFERENCE:**

skn-rbt 750 µg/24H SEV 85JCAE -,1245,86

eye-rbt 50 µg/24H SEV 85JCAE -,1245,86

mmo-sat 100 µg/tube MUREAV 300,265,93

uns-bac-esc 5 mg/tube MUREAV 280,195,92

orl-rat LD50: 2140 mg/kg 28ZPAK -,225,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Moderately toxic by ingestion. A severe skin and eye irritant. Mutation data reported. See also TIN COMPOUNDS. When heated to decomposition it emits toxic fumes of Cl^- .

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BSR500 CAS: 313-94-0 HR: 2
3-tert-BUTYLTRICYCLOQUINAZOLINE
mf: $C_{25}H_{21}N_4$ mw: 377.50

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

BSR600 CAS: 54546-26-8 HR: 1
2-BUTYL-4,4,6-TRIMETHYL-1,3-DIOXANE
mf: $C_{11}H_{22}O_2$ mw: 186.33**SYN:** 1,3-DIOXANE, 2-BUTYL-4,4,6-TRIMETHYL-**TOXICITY DATA with REFERENCE:**

orl-rat LD50: >5 g/kg FCTOD7 30,15S,92

skn-rbt LD50: >5 g/kg FCTOD7 30,15S,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.

BSR825 CAS: 73452-32-1 HR: 3
N-tert-BUTYL-N-TRIMETHYLSILYLAMINO-BORANE
mf: $C_7H_{12}OBNSi$ mw: 154.99 $(C_4H_9)N(Si(CH_3)_3)BH_2$

SAFETY PROFILE: Ignites spontaneously on contact with air. When heated to decomposition it emits toxic fumes of NO_x . See also BORANES and BORON COMPOUNDS.

BSR900 CAS: 1779-51-7 HR: 3
n-BUTYLTRIPHENYLPHOSPHONIUM BROMIDE
mf: $C_{22}H_{24}PBr$ mw: 399.34**SYN:** PHOSPHONIUM, BUTYLTRIPHENYL-, BROMIDE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50: 56 mg/kg CSLNX* NX#06771

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSR930 CAS: 3593-24-6 HR: 3
BUTYLTRIPROPYLAMMONIUM IODIDE
mf: $C_{13}H_{30}N^+I^-$ mw: 327.34

SYNS: 1-BUTANAMINIUM, N,N,N-TRIPROPYL-, IODIDE (9CI)

□ AMMONIUM, BUTYLTRIPROPYL-, IODIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:5600 µg/kg CSLNX* NX#01780

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

BSS000 CAS: 25852-70-4 HR: 2
BUTYLTRIS(ISOOCYLOXYCARBONYL-METHYLTHIO)STANNANE

mf: C₃₄H₆₆O₆S₃Sn mw: 785.87

SYN: BUTYLTRIS(2-ETHYLHEXYLOXYCARBONYLMETHYLTHIO)STANNANE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1063 mg/kg TRIPA7 -,1,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

ACGIH TLV: TWA 0.1 mg(Sn)/m³; STEL 0.2 mg(Sn)/m³ (skin).

NIOSH REL: (Organotin Compounds) TWA 0.1 mg(Sn)/m³

SAFETY PROFILE: Moderately toxic by ingestion. See also TIN COMPOUNDS. When heated to decomposition it emits toxic fumes of SO_x.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

BSS100 CAS: 109-42-2 HR: 1
BUTYL 10-UNDECENOATE

mf: C₁₅H₂₈O₂ mw: 240.43

SYNS: BUTYL UNDECYLENATE □ 10-UNDECENOIC ACID, BUTYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 17,729,79

orl-rat LD50:5000 mg/kg FCTXAV 17,729,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSS250 CAS: 592-31-4 HR: 2
N-BUTYLUREA

mf: C₅H₁₂N₂O mw: 116.19

PROP: Needles from C₆H₆. Mp: 96°.

SYN: NCI-CO2131

TOXICITY DATA with REFERENCE:

cyt-rat-orl 100 mg/kg ZKKOBW 86,47,76

cyt-ham:fbr 4 g/L/48H MUREAV 48,337,77

orl-rat LD:>500 mg/kg NCNSA6 5,47,53

par-mus LDLo:1627 mg/kg JPETAB 51,217,34

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

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

BSS300 CAS: 689-11-2 HR: 2
sec-BUTYLUREA

mf: C₅H₁₂N₂O mw: 116.19

SYN: UREA, sec-BUTYL-

TOXICITY DATA with REFERENCE:

par-mus LDLo:2789 mg/kg JPETAB 52,216,34

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSS310 CAS: 1118-12-3 HR: 2
tert-BUTYLUREA

mf: C₅H₁₂N₂O mw: 116.19

SYNS: (1,1-DIMETHYLETHYL)UREA □ UREA, tert-BUTYL- □ UREA, (1,1-DIMETHYLETHYL)-(9CI)

TOXICITY DATA with REFERENCE:

orl-mus LD50:3050 mg/kg AIPTAK 219,103,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSS500 HR: 3
1-BUTYLUREA and SODIUM NITRITE (2:1)

TOXICITY DATA with REFERENCE:

orl-rat TDLo:1350 mg/kg (13-21D preg):ETA,TER GANNA2 68,81,77

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x. See also NITRITES.

BSS550 CAS: 105-77-1 HR: 2
BUTYLXANTHIC DISULFIDE

mf: C₁₀H₁₈O₂S₄ mw: 298.52

SYNS: BIS-BUTYLXANTHOGEN □ CPB □ DI(BUTOXY THIOCARBONYL) DISULFIDE □ DIBUTYL DIXANTHOGEN □ DIBUTYLDIXANTOGENATE □ DIBUTYL XANTHOGEN DISULFIDE □ DITHIOBIS(THIOFORMIC ACID) O,O-DIBUTYL ESTER □ DXG □ FORMIC ACID, DITHIOBIS(THIO-, O,O-DIBUTYL ESTER □ THIOPEROXYDICARBONIC ACID, DIBUTYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD50:2700 mg/kg GISAAA 47(3),88,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BST000 CAS: 1879-09-0 HR: 3
6-tert-BUTYL-2,4-XYLENOL

mf: C₁₂H₁₈O mw: 178.30

SYNS: 6-tert-BUTYL-2,4-DIMETHYLPHENOL □ PRODOX 340

TOXICITY DATA with REFERENCE:

orl-rat LDLo:1400 mg/kg JAPMA8 38,366,49

orl-mus LD50:530 mg/kg JAPMA8 38,366,49

orl-rbt LDLo:55 mg/kg JAPMA8 38,366,49

skn-rbt LDLo:55 mg/kg JAPMA8 38,366,49

orl-gpg LDLo:420 mg/kg JAPMA8 38,366,49

skn-gpg LDLo:7100 mg/kg JAPMA8 38,366,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BST500 CAS: 110-65-6 HR: 3

2-BUTYNE-1,4-DIOL

DOT: UN 2716

mf: C₄H₆O₂ mw: 86.10

HOCH₂C≡CCH₂OH

PROP: Plates from EtOAc or C₆H₆. Mp: 57–57°, bp: 145° @ 15 mm. Very sol in H₂O, EtOH; sltly sol in CHCl₃.

SYN: 1,4-BUTYNEDIOL (DOT)

TOXICITY DATA with REFERENCE:

orl-rat LD50:104 mg/kg HYSAAV 33,41,68

ihl-rat LCLo:150 mg/m³/2H 85GMAT -,30,82

orl-mus LD50:105 mg/kg HYSAAV 33,41,68

ihl-mus LCLo:150 mg/m³/2H 85GMAT -,30,82

orl-rbt LD50:150 mg/kg HYSAAV 33,41,68

orl-gpg LD50:130 mg/kg HYSAAV 33,41,68

orl-bwd LD50:75 mg/kg AECTCV 12,355,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: A poison by ingestion. A skin sensitizer upon long or repeated contact. Moderately explosive. When heated to decomposition it emits acrid smoke and fumes and may explode. Explosive reaction with traces of alkalis, alkali earth hydroxides, halide salts, strong acids, mercury salts + strong acids. See also ACETYLENE COMPOUNDS.

BST750 HR: 3

2-BUTYNE-1-THIOL

mf: C₄H₆S mw: 86.16

SAFETY PROFILE: Forms an explosive polymer on exposure to air. Store at –20° in the presence of a stabilizer under nitrogen. When heated to decomposition it emits toxic fumes of SO_x. See also ACETYLENE COMPOUNDS.

BST900 CAS: 1606-83-3 HR: D
1,1'-(2-BUTYNYLENEDIOXY)BIS(3-CHLORO)-2-PROPANOL)

mf: C₁₀H₁₆Cl₂O₄ mw: 271.16

SYNS: 2-PROPANOL, 1,1'-(2-BUTYNYLENEDIOXY)BIS(3-CHLORO- □ U 27,151

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl[–].

BSU000 HR: 3

3-BUTYN-1-YL-p-TOLUENE SULFONATE

mf: C₁₁H₁₂O₃S mw: 224.18

SAFETY PROFILE: Explodes in vacuum at 0.65 mbar. May be safe in small amounts below 0.01 mbar. When heated to decomposition it emits toxic fumes of SO_x. See also SULFONATES and ACETYLENE COMPOUNDS.

BSU250 CAS: 123-72-8 HR: 3

n-BUTYRALDEHYDE

DOT: UN 1129

mf: C₄H₈O mw: 72.12

PROP: Colorless, mobile liquid; pungent, nutty odor. Mp: –100°, bp: 74.7°, flash p: 20°F (CC), (–6°), d: 0.7988 @ 25°, autoign temp: 446°F, lel: 2.5%, uel: 12.5%, vap d: 2.5. Sol in water; misc with ether @ 74.8°.

SYNS: ALDEHYDE BUTYRIQUE (FRENCH) □ ALDEIDE BUTIRICA (ITALIAN) □ BUTAL □ BUTALDEHYDE □ BUT ALYDE □ BUTANAL □ n-BUTANAL (CZECH) □ n-BUTYL ALDEHYDE □ BUTYRAL □ BUTYRALDEHYD (GERMAN) □ BUTYRALDEHYDE (CZECH) □ BUTYRIC ALDEHYDE □ FEMA No. 2219 □ NCI-C56291

TOXICITY DATA with REFERENCE:

skn-rbt 2 mg/24H SEV 85JCAE -,270,86

skn-rbt 500 mg/24H SEV 28ZPAK -,40,72

eye-rbt 20 mg/24H MOD 85JCAE -,270,86

eye-rbt 20 mg/24H MOD 28ZPAK -,40,72

skn-gpg 100% MOD FCTXAV 17,731,79

spm-mus-ipr 30 mg/kg MUREAV 39,317,77

spm-mus-orl 15 g/kg/50D MUREAV 39,317,77

ihl-hmn TCLo:580 mg/m³/IMM BMJOAE 2,913,56

orl-rat LD50:2490 mg/kg 28ZPAK -,40,72

ihl-rat LCLo:8000 ppm/4H AMIHBC 4,119,51

ipr-rat LD50:800 mg/kg FCTXAV 17,731,79

scu-rat LDLo:10 g/kg ARZNAD 11,73,61

ihl-mus LC50:44,610 mg/m³/2H 85GMAT -,30,82

ipr-mus LD50:1140 mg/kg FCTXAV 17,731,79

scu-mus LD50:2700 mg/kg APTOA6 6,299,50

skn-rbt LD50:3560 mg/kg UCDS** 7/20/67

ihl-mam LC50:64 g/m³ GTPZAB 12(7),16,68

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, skin contact, intraperitoneal, and subcutaneous routes. Severe skin and eye irritant. Human immunological effects by inhalation: delayed hypersensitivity. See also ALDEHYDES. Highly flammable liquid. To fight fire, use foam, CO₂, dry chemical. Incompatible with oxidizing materials. Reacts vigorously with chlorosulfonic acid, HNO₃, oleum, H₂SO₄. When heated to decomposition it emits acrid smoke and fumes.

BSU500 CAS: 110-69-0 HR: 3

n-BUTYRALDEHYDE OXIME

DOT: UN 2840

mf: C₄H₉NO mw: 87.14

PROP: Liquid. Mp: –29.5°, bp: 152°, flash p: 136°F (CC), d: 0.923, vap d: 3.01.

SYNS: BUTANAL OXIME □ BUTYRALDOXIME (DOT) □ N-BUTYRALDOXIME □ SKINO #1 □ TROYKYD ANTI-SKIN BTO □ USAF AM-6

TOXICITY DATA with REFERENCE:

mcs-mus:lyms 1700 mg/L MUREAV 204,149,88

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** A poison by intraperitoneal route. Mutation data reported. Flammable liquid when exposed to heat or flame. To fight fire, use alcohol foam, dry chemical. Highly explosive. Can explode during vacuum distillation. Incompatible with oxidizing materials, metallic impurities. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES.**BSV250 CAS: 29067-70-7 HR: 3**
2-(3-BUTYRAMIDO-2,4,6-TRIIODOPHENYL)-PROPIONIC ACIDmf: C₁₃H₁₄I₃NO₃ mw: 612.98**TOXICITY DATA with REFERENCE:**

orl-mus LD50:100 mg/kg JMCAR 13,559,70

ivn-mus LD50:300 mg/kg JMCAR 13,559,70

SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and I₂.**BSV500 CAS: 1129-50-6 HR: 2**
n-BUTYRANILIDEmf: C₁₀H₁₃NO mw: 163.24**PROP:** Solid. Mp: 96°.**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1630 mg/kg TXAPA9 19,20,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.**BSV750 CAS: 2440-29-1 HR: 3**
(BUTYRATO)PHENYLMERCURYmf: C₁₀H₁₂HgO₂ mw: 364.81**PROP:** IDLH 10 mg/m³ (as Hg).**SYN:** PHENYL(BUTYRATE)MERCURY**CONSENSUS REPORTS:** Mercury and its compounds are on the Community Right-To-Know List.**OSHA PEL:** CL 0.1 mg(Hg)/m³ (skin)**ACGIH TLV:** TWA 0.1 mg(Hg)/m³ (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.**DFG MAK:** Confirmed Animal Carcinogen with Unknown Relevance to Humans**NIOSH REL:** (Mercury, Aryl and Inorganic) CL 0.1 mg/m³ (skin)**SAFETY PROFILE:** Probably a poison. See also MERCURY COMPOUNDS. When heated to decomposition it emits toxic Hg vapors.**BSW000 CAS: 107-92-6 HR: 2**
n-BUTYRIC ACID**DOT:** UN 2820mf: C₄H₈O₂ mw: 88.12**PROP:** Colorless liquid; strong, rancid-butter odor. Mp: -7.9°, bp: 163.5°, flash p: 161°F, d: 0.9590 @ 20°/20°, refr index: 1.397, autoign temp: 846°F, vap press: 0.43 mm @ 20°, vap d: 3.04, lel: 2.0%, uel: 10.0%. Misc in H₂O, EtOH, Et₂O.**SYNS:** BUTANOIC ACID □ BUTTERSAEURE (GERMAN) □ ETHYLACETIC ACID □ FEMA No. 2221 □ 1-PROPANE CARBOXYLIC ACID □ PROPYLFORMIC ACID**TOXICITY DATA with REFERENCE:**

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

skn-rbt 20 mg/24H MOD 85JCAE -,306,86

eye-rbt 250 µg open SEV AMIHBC 10,61,54

dnd-hmn:hla 3 mmol/L CELLS 12,855,77

dni-hmn:lym 4 mmol/L HAONDL 2,381,84

orl-rat LD50:2 g/kg 85GMAT -,30,82

orl-mus LDLo:500 mg/kg TPKVAL 4,19,62

ipr-mus LD50:3180 mg/kg JPPMAB 21,85,69

scu-mus LD50:3180 mg/kg JPPMAB 21,85,69

ivn-mus LD50:800 mg/kg APTOA6 18,141,61

skn-rbt LD50:530 mg/kg UCDS** 4/10/68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 8; Label: Corrosive**SAFETY PROFILE:** Moderately toxic by ingestion, skin contact, subcutaneous, intraperitoneal, and intravenous routes. Human mutation data reported. Severe skin and eye irritant. A corrosive material. Combustible liquid. Could react with oxidizing materials. Incandescent reaction with chromium trioxide above 100°. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.**BSW500 CAS: 539-90-2 HR: 1**
BUTYRIC ACID ISOBUTYL ESTERmf: C₈H₁₆O₂ mw: 144.24**PROP:** Colorless liquid; apple-pineapple odor. D: 0.858-0863, refr index: 1.402. Sol in alc, fixed oils; sltly sol in water; insol in glycerin.**SYNS:** FEMA No. 2187 □ ISOBUTYL BUTANOATE □ ISOBUTYL BUTYRATE (FCC) □ 2-METHYLPROPYL BUTYRATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTXAV 17,833,79

orl-rbt LD50:9520 mg/kg IMSUAI 41,31,72

idu-rbt LD50:9500 mg/kg FCTXAV 17(Suppl),695,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion and intraduodenal routes. A skin irritant. See also ESTERS. When heated to decomposition it emits acrid smoke and irritating fumes.**BSW550 CAS: 106-31-0 HR: 1**
BUTYRIC ANHYDRIDE**DOT:** UN 2739mf: C₈H₁₄O₃ mw: 158.22**SYNS:** ANHYDRID KYSELINY MASELNE □ BUTANOIC ACID, ANHYDRIDE (9CI) □ BUTANOIC ANHYDRIDE □ BUTYR ANHYDRID □ BUTYRIC ACID ANHYDRIDE □ n-BUTYRIC ACID ANHYDRIDE □ n-BUTYRIC ANHYDRIDE □ BUTYRYL OXIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:8790 mg/kg 85JCAE -,321,86

orl-mus LD30: 2 g/kg 85GMAT -,31,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Mildly toxic by ingestion. A corrosive liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

BSX000 CAS: 3068-88-0 HR: 3
β-BUTYROLACTONE

mf: C₄H₆O₂ mw: 86.10

SYNS: 3-HYDROXYBUTANOIC ACID-β-LACTONE □ HYDROXYBUTYRIC ACID LACTONE □ 3-HYDROXYBUTYRIC ACID LACTONE □ 4-METHYL-2-OXETANONE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MOD UCDS** 1/20/66

dnd-mam:lym 10 mmol/L BBACAQ 138,611,67

oms-mam:lym 286 nmol/L CBINA8 34,323,81

orl-rat LD50:17,200 µL/kg AIHAAP 30,470,69

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 11,225,76. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Mildly toxic by ingestion. A moderate skin irritant. Mutation data reported. When heated to decomposition it emits acrid and irritating fumes. See also 4-BUTYROLACTONE.

BSX100 CAS: 36536-46-6 HR: D
di-β-BUTYROLACTONE

mf: C₄H₆O₂ mw: 86.10

SYNS: (1)-β-BUTYROLACTONE □ (RS)-β-BUTYROLACTONE □ (+)-4-METHYL-2-OXETANONE □ 2-OXETANONE, 4-METHYL-, (+)-

TOXICITY DATA with REFERENCE:

mic-bac-sat 33 µg/plate EMMUEG 19(Suppl 21),2,92

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

BSX150 CAS: 87414-49-1 HR: D
BUTYROLACTONE I

mf: C₂₄H₂₄O₇ mw: 424.45

SYN: 2-FURANCARBOXYLIC ACID, 2,5-DIHYDRO-4-HYDROXY-2-((4-HYDROXY-3-(3-METHYL-2-BUTENYL)PHENYL) METHYL)-3-(4-HYDROXYPHENYL)-5-OXO-, METHYL ESTER

TOXICITY DATA with REFERENCE:

dns-hmn-oth 70 µmol/1/24H CALEDQ 138,121,1999

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

BSX250 CAS: 109-74-0 HR: 3
BUTYRONITRILE

DOT: UN 2411

mf: C₄H₇N mw: 69.12

PROP: Colorless liquid. D: 0.796 @ 15°, mp: -112.6°, bp: 117°, flash p: 79°F (OC). Sltly sol in water; sol in alc and ether.

SYNS: BUTANENITRILE □ n-BUTANENITRILE □ BUTYRIC ACID NITRILE □ BUTYRONITRILE (DOT) □ 1-CYANOPROPANE □ PROPYL CYANIDE

TOXICITY DATA with REFERENCE:

eye-rbt 500 mg/24H MLD 85JCAE -,900,86

orl-rat LD50:50 mg/kg 38MKAJ 2C,4873,82

ipr-rat LD50:50 mg/kg 38MKAJ 2C,4873,82

skn-rbt 395 mg open MLD UCDS** 5/17/60

orl-rat LD50:140 mg/kg AIHAAP 23,95,62

ihl-rat LCLo:1000 ppm/4H AIHAAP 23,95,62

orl-mus LD50:27,689 µg/kg NEZAAQ 39,423,84

ihl-mus LC50:249 ppm/1H CTOXAO 18,991,81

ipr-mus LD50:38 mg/kg TXAPAA 59,589,81

skn-rbt LD50:500 mg/kg AIHAAP 23,95,62

scu-rbt LDLo:10 mg/kg AIPTAK 5,161,1899

ivn-rbt LDLo:980 mg/kg COREAF 153,895,11

skn-gpg LDLo:100 mg/kg KODAK* 21MAY71

scu-gpg LDLo:100 mg/kg COREAF 153,895,11

scu-frg LDLo:3100 mg/kg AIPTAK 5,161,1899

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

NIOSH REL: (Nitriles) TWA 22 mg/m³

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison

SAFETY PROFILE: A poison by ingestion, skin contact, intraperitoneal, and subcutaneous routes. Moderately toxic by inhalation. Experimental reproductive data. A skin irritant. Dangerous fire hazard when exposed to heat, flame, or oxidizers. To fight fire, use alcohol foam. When heated to decomposition it emits toxic fumes of NO_x and CN⁻.

BSX325 CAS: 34291-02-6 HR: 3
BUTYROSIN A

mf: C₂₁H₄₁N₅O₁₂ mw: 555.67

PROP: Amorphous solid with a broad melting point.

SYNS: AMBUTYROSIN A □ AMBUYROSIN A □ BUTIROSIN A □ o-2,6-DIAMINO-2,6-DIDEOXY-α-d-GLUCOPYRANOSYL-(1-4)-o-(β-d-XYLOFURANOSYL-(1-5))-N¹-(4-AMINO-2-HYDROXY-1-OXOBUTYL)-2-DEOXY-d-STREPTAMINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2198 mg/kg 85GDA2 1,145,80

scu-mus LD50:3050 mg/kg 85GDA2 1,145,80

ivn-mus LD50:50 mg/kg 38KLAC -,239,77

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

BSX500 CAS: 67557-56-6 HR: 2
N-(1-BUTYROXYMETHYL)METHYLNITROSAMINE

mf: C₆H₁₂N₂O₃ mw: 160.20

SYNS: N-(1-BUTYROXYMETHYL)-N-NITROSOMETHYLAMINE □ N-NITROSO-N-(1-BUTYROXYMETHYL)METHYL AMINE

TOXICITY DATA with REFERENCE:

mno-sat 1 µmol/plate ARTODN 39,51,77

orl-rat LD50:800 mg/kg ZKKOBW 91,317,78

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to

decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.

BSX600 **CAS: 3757-31-1** **HR: D**
(N²)-BUTYROYL-5-NITRO-2-FUROHYDRAZIDE
IMIDE

mf: C₉H₁₂N₄O₄ mw: 240.25

SYNS: BUTANOIC ACID, 2-(IMINO(5-NITRO-2-FURANYL)METHYL)HYDRAZIDE □ BUTYRIC ACID, 2-(5-NITRO-α-IMINOFURFURYL)HYDRAZIDE

TOXICITY DATA with REFERENCE:

mic-sat 400 ng/plate MUREAV 140,169,1984

pic-esc 30 nmol/plate MUREAV 140,169,1984

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

BSX750 **CAS: 37415-56-8** **HR: 2**
12-o-BUTYROYL-PHORBOLDODECANOATE

mf: C₃₆H₅₇O₈ mw: 617.93

SYN: PHORBOL-12-o-BUTYROYL-13-DODECANOATE

TOXICITY DATA with REFERENCE:

skn-mus 3 ng MLD 85CVA2 5,213,70

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

BSY000 **CAS: 10431-86-4** **HR: 2**
1-n-BUTYRYLAZIRIDINE

mf: C₆H₁₁NO mw: 113.18

SYNS: 1-BUTYRYLAZIRIDINE □ BUTYRYLETHYLENEIMINE □ BUTYRYLETHYLENIMINE □ 1-(1-OXOBUTYL)AZIRIDINE

TOXICITY DATA with REFERENCE:

cyt-rat-ipr 50 mg/kg BJPCAL 9,306,54

ipr-mus LD50:970 mg/kg NCISA* PH-43-63-1132

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

BSY250 **HR: 3**
BUTYRYL CHLORIDE

mf: C₄H₇ClO mw: 106.51

PROP: Clear, colorless liquid with sharp odor. Mp: -89°, bp: 101°, d: 1.028 @ 20°/20°, vap d: 3.67, flash p: <21°.

SAFETY PROFILE: A poisonous irritant to skin, eyes, and mucous membranes. A dangerous fire hazard when exposed to heat or flame. Reaction with water, steam, or oxidizing materials produces toxic and corrosive fumes. When heated to decomposition it emits highly toxic fumes of Cl⁻. See also CHLORIDES.

BSY300 **CAS: 2494-56-6** **HR: 3**
BUTYRYLCHOLINE IODIDE

mf: C₉H₂₀NO₂•I mw: 301.20

SYN: AMMONIUM, (2-BUTYRYLOXYETHYL)TRIMETHYL-, IODIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#01428

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

BSY400 **CAS: 75464-11-8** **HR: 3**
10-BUTYRYLDITHRANOL

mf: C₁₈H₁₆O₄ mw: 296.34

SYNS: 9(10H)-ANTHRACENONE, 1,8-DIHYDROXY-10-(1-OXOBUTYL)- □ 10-BUTYRYL DITHRANOL □ BUTANTRONE □ BUTYRYL DITHRANOL □ DITHRANOL, 10-BUTYRYL-

TOXICITY DATA with REFERENCE:

skn-hmn 0.05%/24H ADVEA4 60,169,1980

skn-hmn 0.66%/1H MLD ADVEA4 67,72,1987

skn-hmn 0.66%/20M MLD ADVEA4 64,134,1984

skn-hmn 0.07%/24H MLD ADVEA4 63,513,1983

mic-sat 100 μLg/plate ARTODN 59,180,1986

orl-rat LD50:1579 mg/kg ARTODN 59,180,1986

orl-mus LD50:139 mg/kg ARTODN 59,180,1986

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

BSY750 **HR: 3**
BUTYRYL NITRATE

mf: C₄H₇NO₄ mw: 133.06

SAFETY PROFILE: Explodes when heated. Upon decomposition it emits toxic fumes of NO_x. See also NITRATES.

BSZ000 **CAS: 1063-55-4** **HR: 3**
BUTYRYLPERAZINE DIMALEATE

mf: C₂₄H₃₁N₃OS•2C₄H₄O₄ mw: 641.80

PROP: Crystals. Mp: 139–140°.

SYNS: BAYER 1362 □ BUTAPERAZINE DIMALEATE □ 1-(10-(3-(4-METHYL-1-PIPERAZINYL)PROPYL)PHENOTHIAZIN-2-YL)-1-BUTANONE DIMALEATE □ RANDOLECTIL □ REPOISE MALEATE □ RIKER 595

TOXICITY DATA with REFERENCE:

orl-rat LD50:264 mg/kg CLPTAT 10,428,69

ivn-rat LD50:63 mg/kg CLPTAT 10,428,69

orl-mus LD50:296 mg/kg CLPTAT 10,428,69

ivn-mus LD50:67 mg/kg 27ZQAG -,11,72

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

BTA000 **CAS: 17730-82-4** **HR: 3**
1-BUTYRYL-4-(PHENYLALLYL)PIPERAZINE
HYDROCHLORIDE

mf: C₁₇H₂₄N₂O•ClH mw: 308.89

SYNS: AP-237 □ 1-BUTYRYL-4-CINNAMYLPYPERAZINE HYDROCHLORIDE □ 1-N-BUTYRYL-4-CINNAMYLPYPERAZINE HYDROCHLORIDE □ P 237

TOXICITY DATA with REFERENCE:

orl-rat LD50:545 mg/kg AIPTAK 213,28,75

scu-rat LD50:339 mg/kg JJPAZ 20,287,70

ivn-rat LD50:70 mg/kg JJPAZ 20,287,70

orl-mus LD50:710 mg/kg AIPTAK 213,28,75

scu-mus LD50:258 mg/kg AIPTAK 213,28,75
 ivn-mus LD50:80,800 µg/kg OYYAA2 6,173,72
 orl-dog LDLo:260 mg/kg TXAPA9 25,443,73
 orl-gpg LD50:700 mg/kg JJPAAZ 20,287,70
 scu-gpg LDLo:400 mg/kg TXAPA9 25,443,73

SAFETY PROFILE: Poison by ingestion, intravenous, and subcutaneous routes. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also ALLYL COMPOUNDS.

BTA125 CAS: 60479-97-2 HR: 3
BUTYRYLPROMAZINE MALEATE

mf: C₂₁H₂₆N₂OS•C₄H₄O₄ mw: 470.63

SYNS: 1613-CB □ 2-BUTYRYL-10-(3-DIMETHYLAMINOPROPYL)PHENOTHIAZINE MALEATE □ 1-(10-(3-(DIMETHYLAMINO)PROPYL)PHENOTHIAZIN-2-YL)-1-BUTANONE MALEATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:300 mg/kg AIPTAK 123,78,59
 scu-mus LD50:190 mg/kg PSCBAY 2,17,63
 ivn-mus LD50:73 mg/kg AIPTAK 123,78,59

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

BTA250 CAS: 8065-36-9 HR: 3
BUX-TEN

PROP: A low-melting, amber solid. Mp: 26.4°. Very sol in xylene, ethanol; nearly insol in water.

SYNS: BUFENCARB □ BUX □ METALKAMATE □ METHYLCARBAMIC ACID-m-((1-METHYL)BUTYL)PHENYL ESTER mixed with CARBAMIC ACID, METHYL-m-(1-ETHYLPROPYL)PHENYL ESTER (3:1) □ ORTHO 5353

TOXICITY DATA with REFERENCE:

orl-rat LD50:85 mg/kg FMCHA2-,C40,83
 skn-rat LD50:242 mg/kg WRPCA2 9,119,70
 skn-dog LD50:1400 mg/kg GUCHAZ 6,271,73
 skn-rbt LD50:400 mg/kg GUCHAZ 6,271,73
 orl-pgn LD50:23,700 µg/kg ASTTA8 (680),157,79
 orl-qal LD50:42,100 µg/kg ASTTA8 (680),157,79
 orl-bwd LD50:4210 µg/kg ASTTA8 (680),157,79

SAFETY PROFILE: A poison by ingestion and skin contact. See also CARBAMATES and ESTERS. When heated to decomposition it emits toxic fumes of NO_x.

BTA325 CAS: 15351-05-0 HR: 3
BUZEPIDE METHIODIDE

mf: C₂₃H₃₁N₂O•I mw: 478.46

PROP: Solid. Mp: 212–213° (decomp).

SYNS: DIFEXAMIDE METHIODIDE □ 2,2-DIPHENYL-4-N-HEXAMETHYLENIMINOBYTYRAMIDE METHIODIDE □ DIPHEXAMIDE METHIODIDE □ FI 6146 □ R 661 □ SPACTIN

TOXICITY DATA with REFERENCE:

orl-rat LD50:2800 mg/kg KSRNAM 4,1850,70
 ipr-rat LD50:145 mg/kg KSRNAM 4,1850,70
 scu-rat LD50:1210 mg/kg KSRNAM 4,1850,70
 ivn-rat LD50:29,300 µg/kg KSRNAM 4,1850,70
 ims-rat LD50:800 mg/kg KSRNAM 4,1850,70
 orl-mus LD50:820 mg/kg KSRNAM 4,1850,70
 ipr-mus LD50:94 mg/kg KSRNAM 4,1850,70
 scu-mus LD50:229 mg/kg KSRNAM 4,1850,70
 ivn-mus LD50:14 mg/kg KSRNAM 4,1850,70
 ims-mus LD50:201 mg/kg KSRNAM 4,1850,70

SAFETY PROFILE: A poison by intraperitoneal, intravenous, intramuscular, and subcutaneous routes. Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of I⁻ and NO_x. See also IODIDES.

BTA500 CAS: 60452-14-4 HR: 3
BZL

mf: C₂₀H₂₇N₃O₃•ClH mw: 421.98

SYN: 7-(β-DIETHYLAMINOETHYL)-8-(α-HYDROXYBENZYL)THEOPHYLLINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:400 mg/kg TXAPA9 7,291,65
 ipr-rat LD50:107 mg/kg TXAPA9 7,291,65
 ipr-mus LD50:115 mg/kg TXAPA9 7,291,65
 ivn-mus LD50:30 mg/kg TXAPA9 7,291,65

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