

G

GAA100 **CAS: 51909-61-6** **HR: 3**
G-52

mf: $C_{20}H_{39}N_5O_7$ mw: 461.64

SYNS: o-2-AMINO-2,3,4,6-TETRADEOXY-6-(METHYLAMINO)- α -D-GLYCERO-HEX-4-ENOPYRANOSYL-(1-4)-O-(3-DEOXY-4-C-METHYL-3-(METHYLAMINO)- β -L-ARABINOPYRANOSYL-(1-6))-2-DEOXY-D-STREPTAMINE □ ANTIBIOTIC G-52 □ SCH-17726

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg 85GDA2 1,180,80

scu-mus LD50:400 mg/kg 85GDA2 1,180,80

ivn-mus LD50:50 mg/kg 85GDA2 1,180,80

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

GAA120 **CAS: 51922-16-8** **HR: 3**
G 52 SULFATE

mf: $C_{20}H_{39}N_5O_7 \cdot (H_2O_4S)_7$ mw: 1148.07

SYNS: 4-O-(3-AMINO-3,4-DIHYDRO-6-((METHYLAMINO)-METHYL)-2H-PYRAN-2-YL)-2-DEOXY-6-O-(3-DEOXY-4-C-METHYL-3-(METHYLAMINO)- β -L-ARABINOPYRANOSYL)-D-STREPTAMINE (2S-cis)-, SULFATE (salt) □ ANTIBIOTIC G-52 SULFATE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg JANTAJ 29,483,76

scu-mus LD50:400 mg/kg JANTAJ 29,483,76

ivn-mus LD50:50 mg/kg JANTAJ 29,483,76

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

GAC000 **CAS: 1952-11-0** **HR: 3**
G 3063 HYDROCHLORIDE

mf: $C_{18}H_{25}NO_2 \cdot ClH$ mw: 323.90

SYNS: G 3063 □ 1-PHENYLCYCLOPENTANECARBOXYLIC ACID-1-METHYL-4-PIPERIDINYL ESTER HYDROCHLORIDE □ 1-PHENYLCYCLOPENTANECARBOXYLIC ACID-1-METHYL-4-PIPERIDYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ims-rat LD50:2483 μ g/kg BJPCBM 39,822,70

ims-mus LD50:730 μ g/kg BJPCBM 39,822,70

ims-gpg LD50:157 μ g/kg BJPCBM 39,822,70

SAFETY PROFILE: A deadly poison by intramuscular route. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

GAD000 **CAS: 3060-41-1** **HR: 2**
p-GABA HYDROCHLORIDE

mf: $C_{10}H_{13}NO_2 \cdot ClH$ mw: 215.70

SYNS: β -(AMINOMETHYL)-BENZENEPROPANOIC ACID HYDROCHLORIDE □ β -(AMINOMETHYL)-HYDROCINNAMIC ACID HYDROCHLORIDE □ FENIBUT HYDROCHLORIDE □ FENIGAM HYDROCHLORIDE □ PHENIBUT HYDROCHLORIDE □ PHENIGAM HYDROCHLORIDE □ PHENIGAMA

HYDROCHLORIDE □ PHENYBUT HYDROCHLORIDE □ PHENYGAM HYDROCHLORIDE □ PHENYLGAMMA HYDROCHLORIDE □ PHGABA HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:900 mg/kg PCJOAU 10,1703,76

ipr-mus LD50:1000 mg/kg PCJOAU 10,1703,76

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x .

GAD400 **CAS: 56974-61-9** **HR: 3**
GABEXATE MESYLATE

mf: $C_{16}H_{23}N_3O_4 \cdot CH_4O_3S$ mw: 417.53

PROP: Crystals.

SYNS: ETHYL-P-(6-GUANIDINOHEXANOYLOXY) BENZOATE METHANESULFONATE □ FOY □ GABEXATE MESILATE

TOXICITY DATA with REFERENCE:

ivn-mus TDLo:600 mg/kg (7-12D preg):TER OYYAA2 9,743,75

ivn-rat TDLo:560 mg/kg (14D pre):REP OYYAA2 9,743,75

orl-rat LD50:6480 mg/kg OYYAA2 9,743,75

scu-rat LD50:4020 mg/kg OYYAA2 9,743,75

ivn-rat LD50:79 mg/kg OYYAA2 9,743,75

orl-mus LD50:8 g/kg IYKEDH 8,680,77

scu-mus LD50:4550 mg/kg OYYAA2 9,743,75

ivn-mus LD50:248 mg/kg OYYAA2 9,743,75

SAFETY PROFILE: Poison by intravenous route. Mildly toxic by ingestion. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of SO_x and NO_x .

GAD500 **CAS: 122795-43-1** **HR: 1**
GADODIAMIDE HYDRATE

mf: $C_{16}H_{28}GdN_5O_9 \cdot xH_2O$ mw: 717.88

SYN: GADOLINIUM, AQUA(5,8-BIS(CARBOXYMETHYL)-11-(2-(METHYLAMINO)-2-OXOETHYL)-3-OXO-2,5,8,11-TETRAAZATRIDEKAN-13-OATO(3-)), HYDRATE

TOXICITY DATA with REFERENCE:

ivn-rat LD50:5037 mg/kg YAKUD5 38,2384,1996

ivn-mky LD50:3229 mg/kg YAKUD5 38,2384,1996

SAFETY PROFILE: Low toxicity by intravenous route. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and Gd.

GAF000 **CAS: 7440-54-2** **HR: 2**
GADOLINIUM

af: Gd aw: 157.25

PROP: A yellow-white, malleable, lustrous, and ductile metallic element. Tarnishes in moist air. A rare earth, stable in dry air; reacts slowly with H_2O and O_2 . Dissolves in acids. Mp: 1312°, bp: 3273°, d: 7.898 @ 25°.

TOXICITY DATA with REFERENCE:

imp-mus TDLo:25 g/kg;ETA PSEBAA 135,426,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. It may act as an anticoagulant. It can react violently with air and halogens. See also RARE EARTHS.

**GAH000 CAS: 10138-52-0 HR: 3
GADOLINIUM CHLORIDE**

mf: Cl₃Gd mw: 263.60

PROP: White, monoclinic, colorless crystals. D: 4.52 @ 0°, bp: 1580°, mp: approx 609°. Sol in water and alc.

SYN: GADOLINIUM TRICHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD BJPCAL 17,526,61

eye-rbt 1 mg/1H MLD BJPCAL 17,526,61

ipr-mus LD50:378 mg/kg AEHLAU 5,437,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. A skin and eye irritant. When heated to decomposition it emits very toxic fumes of Cl⁻. See also CHLORIDES, GADOLINIUM, and RARE EARTHS.

**GAJ000 CAS: 3088-53-7 HR: 3
GADOLINIUM CITRATE**

TOXICITY DATA with REFERENCE:

ipr-mus LD50:153 mg/kg AEHLAU 5,437,62

ipr-gpg LD50:60 mg/kg AEHLAU 5,437,62

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating fumes. See also GADOLINIUM and RARE EARTHS.

**GAL000 CAS: 10168-81-7 HR: 3
GADOLINIUM(III) NITRATE (1:3)**

mf: N₃O₉•Gd mw: 343.28

PROP: Hygroscopic white solid. Sol in EtOH and H₂O.

SYN: NITRIC ACID, GADOLINIUM(3+) SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:3805 mg/kg EQSSDX 1,1,75

ipr-rat LD50:175 mg/kg EQSSDX 1,1,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also GADOLINIUM, RARE EARTHS, and NITRATES.

**GAN000 CAS: 19598-90-4 HR: 3
GADOLINIUM(III) NITRATE, HEXAHYDRATE (1:3:6)**

mf: N₃O₉•Gd•6H₂O mw: 451.40

PROP: Deliquescent, colorless, triclinic crystals. Mp: 91–92°, d: 2.406 @ 15°, d: 2.332. Very sol in H₂O; sol in EtOH and Me₂CO.

TOXICITY DATA with REFERENCE:

ipr-rat LD50:230 mg/kg TXAPA9 5,750,63

ipr-mus LD50:300 mg/kg TXAPA9 5,750,63

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of NO_x. See also RARE EARTHS, NITRATES, and GADOLINIUM.

**GAP000 CAS: 12064-62-9 HR: 1
GADOLINIUM OXIDE**

mf: Gd₂O₃ mw: 362.50

PROP: White to cream-colored, hygroscopic powder. D: 7.407 @ 15°, mp: 2339°, bp: 3900. Insol in water; sol in acids.

SYNS: DIGADOLINIUM TRIOXIDE □ GADOLINIA □ GADOLINIUM(III) OXIDE □ GADOLINIUM(3+) OXIDE □ GADOLINIUM SESQUIOXIDE □ GADOLINIUM TRIOXIDE

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg MLD JACTDZ 12,620,93

orl-rat LD50:>5 g/kg JACTDZ 12,620,93

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. An eye irritant. See also RARE EARTHS.

**GAP500 HR: D
GAJAR, seed extract**

SYNS: CARROT, SEED EXTRACT □ DAUCUS CAROTA LINN., SEED EXTRACT

SAFETY PROFILE: Experimental reproductive effects.

**GAR000 CAS: 526-99-8 HR: 1
GALACTARIC ACID**

mf: C₆H₁₀O₈ mw: 210.16

PROP: Crystalline powder. Mp: 213°. Decomp @ approx 230° when rapidly heated. Sol in alkalies, water. Practically insol in alc and ether.

SYNS: GALACTOSACCHARIC ACID □ MUCIC ACID □ SACCHAROLACTIC ACID □ SCHLEIMSAURE □ TETRAHYDROXYADIPIC ACID

TOXICITY DATA with REFERENCE:

orl-mus LD50:8000 mg/kg BIJOAK 34,1196,40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GAT000 CAS: 1772-03-8 HR: 2
d-GALACTOSAMINE HYDROCHLORIDE**

mf: C₆H₁₃NO₅•ClH mw: 215.66

PROP: A solid. Mp: 178–190° (decomp).

SYN: 2-AMINO-2-DEOXY-d-GALACTOSE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

oth-rat:ivr 100 mmol/L CBINA8 51,63,84

oth-rat:icb 21,500 µg/kg ABMGAJ 39,5,80

ipr-mus LD50:2660 mg/kg CTYAD8 11,262,80

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 very toxic fumes of NO_x and Cl^- .

GAV000 CAS: 59-23-4 HR: D
GALACTOSE

mf: $\text{C}_6\text{H}_{12}\text{O}_6$ mw: 180.18

PROP: A solid. Mp: 118–120° (monohydrate). (α form): Prisms from water or ethanol. Mp: 167°. Freely sol in hot water; sol in pyridine; sltly sol in alc. (β form): Crystals. Mp: 167°.

SYN: d-GALACTOSE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GAV050 HR: D
 α -GALACTOSIDASE

PROP: Derived from *Mortierella vinaceae* var. *raffinoseutilizer*.

SYN: ATCC No. 20034

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

GAV100 CAS: 9031-11-2 HR: 2
 β -GALACTOSIDASE

PROP: Off-white solid or colorless liquid.

SYNS: E.C. 3.2.1.23 □ LACTASE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:660 mg/kg KSRNAM 4,725,70

scu-rat LD50:4090 mg/kg KSRNAM 4,725,70

ipr-mus LD50:630 mg/kg KSRNAM 4,729,70

scu-mus LD50:1470 mg/kg KSRNAM 4,729,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by subcutaneous and intraperitoneal routes.

GAX000 CAS: 7681-28-9 HR: 2
GALACTURONIC ACID with α -(6-METHOXY-4-QUINOLYL)-5-VINYL-2-QUINUCLIDINE-METHANOL

mf: $\text{C}_{20}\text{H}_{24}\text{N}_2\text{O}_2 \cdot x\text{C}_6\text{H}_{10}\text{O}_7$ mw: 1683.58

SYNS: CARDIOQUIN □ GALACTOQUIN □ α -(6-METHOXY-4-QUINOLYL)-5-VINYL-2-QUINUCLIDINEMETHANOL

GALACTURONATE (salt) □ NATICARDINA □ QUINIDINE

POLYGALACTURONATE □ SINEFLUTTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:3200 mg/kg ANTCAO 9,97,59

orl-mus LD50:2680 mg/kg ANTCAO 9,97,59

SAFETY PROFILE: Moderately toxic by ingestion. Used as a cardiac depressant. When heated to decomposition it emits toxic fumes of NO_x .

GAZ000 CAS: 548-83-4 HR: D
GALANGIN

mf: $\text{C}_{15}\text{H}_{10}\text{O}_5$ mw: 270.25

PROP: Yellow needles EtOH. Mp: 214–215°. Sol in EtOH and MeOH.

SYNS: NORIZALPININ □ 3,5,7-TRIHYDROXYFLAVONE □ 3,5,7-TRIHYDROXY-2-PHENYL-4H-BENZOPYRAN-4-ONE

TOXICITY DATA with REFERENCE:

mnt-mus-ipr 1 g/kg MUREAV 124,255,83

msc-ham:ovr 20 mg/L MUREAV 113,45,83

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

GBA000 CAS: 69353-21-5 HR: 3
GALANTHAMINE HYDROBROMIDE

mf: $\text{C}_{17}\text{H}_{21}\text{NO}_3 \cdot \text{BrH}$ mw: 368.31

PROP: Crystals from water. Decomp @ 246–247°.

SYNS: JILKON HYDROBROMIDE □ LYCOREMINE HYDROBROMIDE □ NIVALIN □ 1,2,3,4,6,7,7a,11c-OCTAHYDRO-9-METHOXY-2-METHYL-BENZOFURO(4,3,2-efg)(2)BENZAZOCIN-6-OL HBr

TOXICITY DATA with REFERENCE:

orl-mus LD50:18,700 $\mu\text{g}/\text{kg}$ MEIEDD 10,620,83

ipr-mus LD50:14,900 $\mu\text{g}/\text{kg}$ AAREAV 22,285,65

ivn-mus LD50:5200 $\mu\text{g}/\text{kg}$ AAREAV 22,285,65

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Used as a cholinesterase inhibitor. When heated to decomposition it emits very toxic fumes of HBr and NO_x .

GBB500 CAS: 3691-74-5 HR: 3
GALATONE

mf: $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_6$ mw: 295.28

PROP: Plates and rods from methanol, needles from abs ethanol. Decomp at 150–160°. Freely sol in water, practically insol in cold alc.

SYNS: GATALONE □ GLUCAZIDE □ GLURONAZID □ GLURONAZIDE □ GLYCONIAZIDE □ GUIDAZIDE □ INH-G □ HYDRONSAN □ N-ISONICOTINOYL-N'-GLUCURON-SAEURE- γ -LACTON-HYDRAZON (GERMAN) □ MYCOBACTYL

TOXICITY DATA with REFERENCE:

orl-rat LD50:2990 mg/kg ARZNAD 26,409,76

ivn-rat LD50:820 mg/kg ARZNAD 26,409,76

orl-mus LD50:348 mg/kg ARZNAD 26,409,76

ivn-mus LD50:298 mg/kg ARZNAD 26,409,76

orl-gpg LD50:530 mg/kg ARZNAD 26,409,76

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

GBC000 CAS: 8023-91-4 HR: 1
GALBANUM OIL

PROP: Found in the dried resinous exudate of *Ferula galbaniflua* boiss & bnhse and other *Ferula* species (FCTXAV 16,637,78).

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 16,765,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GBE000 CAS: 149-91-7 HR: 3
GALLIC ACID

mf: $\text{C}_7\text{H}_6\text{O}_5$ mw: 170.13

PROP: Needles from MeOH or CHCl₃. White to pale, fawn-colored, odorless crystals from water; somewhat water-sol. D: 1.694, mp: 253° (decomp). Sol in Me₂CO, EtOH; sltly sol in H₂O; insol in C₆H₆, CHCl₃.

SYN: 3,4,5-TRIHYDROXYBENZOIC ACID

TOXICITY DATA with REFERENCE:

mmo-sat 100 µg/plate ABCHA6 45,327,81

mrc-smc 100 mg/L MUREAV 135,109,84

scu-rat LDLo:5 g/kg JAFCAU 17,497,69

ipr-mus LD50:4300 mg/kg PHTXA6 64,247,89

ivn-mus LD50:320 mg/kg CSLNX* NX#02597

orl-rbt LD50:5 g/kg AJVRAH 23,1264,62

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

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

GBG000 CAS: 7440-55-3 HR: 3
GALLIUM

DOT: UN 2803

af: Ga aw: 69.72

PROP: A beautiful, lustrous, silvery liquid or a gray solid. Stable in air and not attacked by H₂O. Contracts on melting. Longest liquid range of all elements. Wets glass, porcelain, and most other surfaces except graphite, quartz, and Teflon. Mp: 29.78°, bp: 2403°, d (solid): 5.904 @ 29.6°, d (liquid): 6.905 @ 29.8°. Sol in acids and alkalis.

TOXICITY DATA with REFERENCE:

dni-hmn:lyms 480 µmol/L CNREA8 48,3014,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Mutation data reported. Corrosive; probably an eye, skin, and mucous membrane irritant. It has a metallic taste, causes dermatitis and depression of bone marrow function. Potentially explosive reaction with hydrogen peroxide + hydrochloric acid. Violent or vigorous reaction with halogens. Forms an amalgam with aluminum alloys. See also GALLIUM COMPOUNDS.

GBK000 CAS: 1303-00-0 HR: 3
GALLIUM ARSENIDE

mf: AsGa mw: 144.64

PROP: Black solid or cubic crystals with dark-gray metallic sheen. Mp: 1238°, d: 5.31.

SYN: GALLIUM MONOARSENIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD30:10 g/kg GTPZAB 24(3),45,80

ipr-mus LD50:4700 mg/kg GISAAA 45(10),13,80

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

OSHA PEL: OSHA: Cancer Hazard

ACGIH TLV: TWA 0.01 mg(As)/m³; Human Carcinogen; BEI: 35 µ(As)/L inorganic arsenic and methylated metabolites in urine

NIOSH REL: (Gallium Arsenide) CL 0.002

mg(As)/m³/15M

SAFETY PROFILE: Confirmed carcinogen. Mildly toxic by intraperitoneal route. Most arsenic compounds are poisons. Can react with steam, acids, and acid fumes to evolve the deadly poisonous arsine. Molten gallium arsenide attacks quartz. When heated to decomposition it emits very toxic fumes of As. See also ARSENIC COMPOUNDS and GALLIUM COMPOUNDS.

GBM000 CAS: 13450-90-3 HR: 3
GALLIUM(3+) CHLORIDE

mf: Cl₃Ga mw: 176.07

PROP: Colorless needles. Mp: 78°.

SYN: GALLIUM CHLORIDE

TOXICITY DATA with REFERENCE:

dnr-bcs 2350 µg/disc MUREAV 264,163,91

ihl-rat LCLo:316 mg/m³/3H JPETAB 95,487,49

scu-rat LD50:306 mg/kg EQSSDX 1,1,75

ivn-rat LD50:47 mg/kg EQSSDX 1,1,75

ipr-mus LD50:93,400 µg/kg COREAF 256,1043,63

ivn-dog LD50:41 mg/kg EQSSDX 1,1,75

scu-rbt LD50:245 mg/kg EQSSDX 1,1,75

ivn-rbt LD50:43 mg/kg EQSSDX 1,1,75

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

SAFETY PROFILE: Poison by inhalation, subcutaneous, intravenous, and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of Cl⁻. See also GALLIUM COMPOUNDS.

GBO000 CAS: 27905-02-8 HR: 3
GALLIUM CITRATE

mf: C₆H₅O₇•Ga mw: 258.83

PROP: Injectable isotonic solution for diagnostic radiopharmaceutical intravenous administration to determine presence of malignancies.

SYN: CITRIC ACID, GALLIUM SALT (1:1)

TOXICITY DATA with REFERENCE:

scu-rat LD50:220 mg/kg 14CYAT 2,1040,63

scu-mus LD50:2250 mg/kg EQSSDX 1,1,75

scu-dog LD50:37,500 µg/kg EQSSDX 1,1,75

scu-dom LD50:37,500 µg/kg EQSSDX 1,1,75

SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits acrid smoke and irritating fumes. See also GALLIUM COMPOUNDS.

GBO500 HR: 3
GALLIUM COMPOUNDS

SAFETY PROFILE: Preliminary investigations were done with the oxide, tartrate, benzoate, and anthranilate, which were used by some investigators in the experimental treatment of syphilis. Amounts up to 15 mg/kg of body weight were injected intravenously and were tolerated without harm by laboratory animals. Larger doses produced hemorrhagic nephritis. In the case of gallium lactate, work done at the Naval Medical Research Institute showed that intravenous injections of about 40 mg of gallium per kg of body weight in rats or rabbits was lethal. Metallic gallium as well as the nitrate produced no skin

injury, and subcutaneous injections of relatively large amounts could be tolerated both by rabbits and rats without evidence of injury. It has, however, been demonstrated that gallium remains in the tissues for long periods of time following intramuscular injections of soluble gallium salts. Tissue distribution experiments indicate that it behaves like bismuth and mercury in that one respect.

GBQ000 **CAS: 13494-91-2** **HR: 3**
GALLIUM LACTATE mixed with SODIUM LACTATE (1.6:1 moles)

TOXICITY DATA with REFERENCE:

scu-rat LD50:720 mg/kg JPETAB 95,487,49
 ivn-rat LD50:274 mg/kg JPETAB 95,487,49
 scu-rbt LD50:583 mg/kg JPETAB 95,487,49
 ivn-rbt LD50:256 mg/kg JPETAB 95,487,49

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of Na_2O . See also GALLIUM COMPOUNDS.

GBS000 **CAS: 13494-90-1** **HR: 3**
GALLIUM(III) NITRATE (1:3)

mf: $\text{N}_3\text{O}_9 \cdot \text{Ga}$ mw: 255.75

PROP: White, deliquescent crystals. Mp: decomp @ 110°, bp: releases Ga_2O_3 @ 200°.

SYNS: GALLIUM NITRATE □ NITRIC ACID, GALLIUM(3+) SALT

TOXICITY DATA with REFERENCE:

skn-mam 500 mg SEV GISAAA 45(10),13,80
 dnd-mam:lym 40 $\mu\text{mol/L}$ JCHODP 7,411,76
 ivn-hmn TDLo:7 mg/kg:GIT,KID CTRRDO 62,1449,78
 ivn-hmn TDLo:144 mg/kg:BLD CTRRDO 62,1449,78
 ipr-rat LD50:67,500 $\mu\text{g/kg}$ EQSSDX 1,1,75
 scu-rat LDLo:72 mg/kg INMEAF 12,7,43
 orl-mus LD50:4360 mg/kg GISAAA 45(10),13,80
 scu-mus LD50:600 mg/kg GISAAA 45(10),13,80
 ivn-mus LD50:55 mg/kg CTRRDO 70,1311,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal, intravenous, and subcutaneous routes. Moderately toxic by ingestion. Human systemic effects by intravenous route: nausea or vomiting, renal function changes, proteinuria, normocytic anemia, and thrombocytopenia. A severe skin irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also GALLIUM COMPOUNDS and NITRATES.

GBS050 **CAS: 12024-21-4** **HR: 1**
GALLIUM OXIDE

mf: Ga_2O_3 mw: 187.44

PROP: Fine white powder. D: 6.440 @ 20°/4°, mp: 1795°. Insol in water, sol in eth.

SYNS: DIGALLIUM TRIOXIDE □ GALLIA □ GALLIUM SESQUIOXIDE □ GALLIUM TRIOXIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:10 g/kg GISAAA 45(10),13,80
 ipr-uns LDLo:10 g/kg GTPZAB 31(6),58,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of Ga.

GBS100 **CAS: 13494-91-2** **HR: 2**
GALLIUM SULFATE

mf: $\text{O}_{12}\text{S}_3 \cdot 2\text{Ga}$ mw: 427.62

SYNS: DIGALLIUM TRISULFATE □ SULFURIC ACID, GALLIUM SALT (3:2)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:2 g/kg JTCEEM 7,411,87
 ipr-mus LD50:2330 mg/kg JTCEEM 7,411,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GBU000 **CAS: 1222-05-5** **HR: 1**
GALOXOLIDE

mf: $\text{C}_{18}\text{H}_{26}\text{O}$ mw: 258.44

PROP: Used in fragrance formulations.

SYN: 1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8,8-HEXAMETHYL-CYCLOPENTA- γ -2-BENZOPYRAN

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,793,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GBU200 **CAS: 107910-75-8** **HR: D**
GANCICLOVIR SODIUM

mf: $\text{C}_9\text{H}_{12}\text{N}_5\text{O}_4 \cdot \text{Na}$ mw: 277.25

SYNS: CYTOVENE □ 6H-PURIN-6-ONE, 1,9-DIHYDRO-2-AMINO-9-((2-HYDROXY-1-(HYDROXYMETHYL)ETHOXY)-METHYL)-,MONOSODIUM SALT □ RS 21592 SODIUM

TOXICITY DATA with REFERENCE:

mnt-ivn-mus 1744 $\mu\text{mol/kg}$ /24H-I MUREAV 369,65,1996

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

GBU600 **HR: 2**
GANCIDIN (unpurified)

PROP: Produced by the strain *Streptomyces sp.* AAK-84 (85ERAY 2,1354,78)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1500 mg/kg 85ERAY 2,1354,78
 scu-mus LD50:2800 mg/kg 85ERAY 2,1354,78
 ivn-mus LD50:700 mg/kg 85ERAY 2,1354,78

SAFETY PROFILE: Moderately toxic by intravenous, intraperitoneal, and subcutaneous routes.

GBU700 **CAS: 299-61-6** **HR: 2**
GANGLEFENE

mf: $\text{C}_{20}\text{H}_{33}\text{NO}_3$ mw: 335.54

SYNS: BENZOIC ACID, p-ISOBUTOXY-, 3-(DIETHYLAMINO)-1,2-DIMETHYLPROPYL ESTER □ BENZOIC ACID, 4-(2-

METHYLPROPOXY)-, 3-(DIETHYLAMINO)-1,2-DIMETHYL-
 PROPYL ESTER □ 2-BUTANOL, 4-(DIETHYLAMINO)-3-METH-
 YL-, p-ISOBUTOXYBENZOATE (ESTER) □ 1,2-DIMETH-YL-3-
 DIETHYLAMINOPROPYL p-ISOBUTOXYBENZOATE □ p-
 ISOBUTOXYBENZOIC ACID 3-(DIETHYLAMINO)-1,2-DI-
 METHYLPROPYL ESTER □ p-ISOBUTOXYBENZOIC ACID, α,β-
 DIMETHYL-γ-DIETHYLAMINOPROPYL ESTER □ 4-(2-
 METHYLPROPOXY)BENZOIC ACID 3-(DIETHYLAMINO)-1,2-
 DIMETHYLPROPYL ESTER

TOXICITY DATA with REFERENCE:

scu-mus LD50:530 mg/kg RPTOAN 31,53,1968

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

GBU750 CAS: 94238-00-3 HR: 2 GARDENIA YELLOW

TOXICITY DATA with REFERENCE:

mic-sat 100 mg/plate SKEZAP 23,86,1982

orl-rat LD50:3160 mg/kg WDZAEK 3,187,1989

orl-mus LD50:>20 g/kg WDZAEK 3,187,1989

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

GBU800 HR: 1 GARLIC OIL

PROP: From steam distillation of *Allium sativum* L. (Fam. *Liliaceae*). Clear to yellow liquid; strong odor and taste of garlic. Sol in fixed oils, mineral oil; insol in glycerin, alc, propylene glycol.

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

GBU825 CAS: 8000-78-0 HR: 2 GARLIC OIL

SYNS: OIL OF GARLIC □ OILS, GARLIC

CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.

orl-rat LD50:1360 mg/kg TOFOD5 8,91,1985

orl-mus LD50:850 mg/kg TOFOD5 8,91,1985

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GBU850 HR: 2 GARLIC POWDER

SYN: ALLIUM SATIVUM Linn., powder

TOXICITY DATA with REFERENCE:

ivn-mus LD50:1650 mg/kg PJPHEO 5(1),21,88

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

GBW000 CAS: 64741-44-2 HR: 2 GAS OIL

PROP: Yellow liquid. Flash p: 150°F, d: 1, lel: 6.0%, uel: 13.5%, autoign temp: 640°F, boiling range: 230–250°.

SYNS: DISTILLATES (PETROLEUM), STRAIGHT-RUN MIDDLE
 □ STRAIGHT RUN MIDDLE DISTILLATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD JACTDZ 1,126,90

skn-mus TDLo:114 g/kg/38W-I:CAR FAATDF3 7,228,86

skn-mus TD:114 g/kg/38W-I:CAR FAATDF 7,228,86

orl-rat LD:>5 g/kg JACTDZ 1,126,90

ihl-rat LC50:1700 mg/m³/4H JACTDZ 1,126,90

skn-rbt LD:>2 g/kg JACTDZ 1,126,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. Questionable carcinogen with experimental carcinogenic data. A skin irritant. Pulmonary aspiration can cause severe pneumonitis. Combustible when exposed to heat or flame; can react vigorously with oxidizing materials. A moderate explosion hazard when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical. See also KEROSENE.

GBW005 CAS: 64741-57-7 HR: 3 GAS OILS (petroleum), heavy vacuum

SYNS: HEAVY VACUUM DISTILLATE □ HEAVY VACUUM GAS OIL (PETROLEUM)

CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 45,39,89. Reported in EPA TSCA Inventory.

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

GBW010 CAS: 64742-86-5 HR: 2 GAS OILS (petroleum), hydrosulfurized heavy vacuum

PROP: Viscous yellow to brown liquid, solid or semi-solid at room temp, generally transported hot. Petroleum asphalt odor. Flash pt: >180° F.

SYN: HYDRODESULFURIZED HEAVY VACUUM GAS OIL

TOXICITY DATA with REFERENCE:

skn-mus TDLo:104 g/kg/26W-I:NEO EPASR* 8EHQ-0887-0687

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

GBW025 CAS: 64741-58-8 HR: 3 GAS OILS (petroleum), light vacuum

SYN: LIGHT GAS OIL

CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 45,39,89. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Pulmonary aspiration can cause severe pneumonitis. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

GBY000 CAS: 8006-61-9 HR: 3 GASOLINE DOT: UN 1203/UN 1257

PROP: Clear, aromatic, volatile liquid; a mixture of aliphatic hydrocarbons. Flash p: -50°F , d: <1.0 , vap d: 3.0–4.0, ULC: 95–100, lel: 1.3%, uel: 6.0%, autoign temp: $536\text{--}853^{\circ}\text{F}$, bp: initially 39° , after 10% distilled = 60° , after 50% = 110° , after 90% = 170° , final bp: = 204° . Insol in water; freely sol in abs alc, ether, chloroform, and benzene.

SYNS: MOTOR SPIRIT (DOT) ☐ NATURAL GASOLINE (DOT) ☐ PETROL (DOT)

TOXICITY DATA with REFERENCE:

eye-man 500 ppm/1H MOD AEHLAU 1,548,60
eye-hmn 140 ppm/8H MLD JIHTAB 25,225,43
ihl-man TLo:900 ppm/1H:EYE,CNS,PUL JIHTAB 25,225,43
par-man TDLo:53 mg/kg JTCTDW 21,409,83/84
ihl-rat LC50:300 g/m³/5M NTIS** PB158-508
ihl-mus LC50:300 g/m³/5M NTIS** PB158-508
ihl-gpg LC50:300 g/m³/5M NTIS** PB158-508
ihl-mam LCLo:30,000 ppm/5M AEPPAE 138,65,28

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 300 ppm; STEL 500 ppm

ACGIH TLV: TWA 300 ppm; STEL 500 ppm; Animal Carcinogen

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Confirmed carcinogen. Mildly toxic by inhalation. Human systemic effects by inhalation: cough, conjunctiva irritation, hallucinations or distorted perceptions. Repeated or prolonged dermal exposure causes dermatitis. Can cause blistering of skin. Inhalation or ingestion can cause central nervous system depression. Pulmonary aspiration can cause severe pneumonitis. Some addiction has been reported from inhalation of fumes. Even brief inhalations of high concentrations can cause a fatal pulmonary edema. The vapors are considered to be moderately poisonous. If its concentration in air is sufficiently high to reduce the oxygen content below that needed to maintain life, it acts as a simple asphyxiant. A human eye irritant. Gasoline is a common air contaminant. A very dangerous fire and explosion hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use foam, CO₂, dry chemical.

GCA000 HR: 3 GASOLINE (100–130 octane)

PROP: Flash p: -50°F , autoign temp: 824°F , lel: 1.3%, uel: 7.1%.

SAFETY PROFILE: Moderately toxic by inhalation. Pulmonary aspiration can cause severe pneumonitis. A very dangerous fire and explosion hazard when exposed to heat, flame or oxidizers. To fight fire, use water spray or mist, CO₂, dry chemical. See also GASOLINE.

GCC000 HR: 3 GASOLINE (115–145 octane)

PROP: Flash p: -50°F , autoign temp: 880°F , lel: 1.2%, uel: 7.1%.

SAFETY PROFILE: Moderately toxic by inhalation. Pulmonary aspiration can cause severe pneumonitis. A very dangerous fire and explosion hazard when exposed to

heat or flame. To fight fire, use water spray or mist, CO₂, dry chemical. See also GASOLINE.

GCC200 CAS: 86290-81-5 HR: 1 GASOLINE BR-1

SYNS: A 76 (FUEL) ☐ AI 93 (FUEL) ☐ AKVAZIN ☐ AUTOMOTIVE GASOLINE ☐ BENZINE BR-1 ☐ BENZINE BR-2 ☐ BENZINE (MOTOR FUEL) ☐ BENZYNA ☐ FUELS, GASOLINE ☐ GASOLINE, SYNTHETIC ☐ HERBICIDE ES ☐ INDOLINE ☐ NATURAL GAS CONDENSATES, GASOLINE ☐ NEFRAS 150/200 ☐ NEFRAS S 50/170 ☐ PETROL, SYNTHETIC ☐ SYNFUELS ☐ SYNTHETIC GASOLINE

TOXICITY DATA with REFERENCE:

spm-ihl-rat 300 mg/m³/10W-I GTPZAB 16(8),25,1972
dns-orl-unr 100 mg/kg VCVPS*,52,1998
orl-rat LD50:92 g/kg GISAAA 32(3),31,1967
orl-rat LD50:13.6 g/kg VCVPS*,49,1998

SAFETY PROFILE: Low toxicity by ingestion.

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

GCE000 HR: 2 GASOLINE ENGINE EXHAUST “TAR”

SYNS: AUTOMOBILE EXHAUST CONDENSATE ☐ GASOLINE ENGINE EXHAUST CONDENSATE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data.

GCE100 HR: 3 GASOLINE, UNLEADED

PROP: A clear water-like liquid, strong aromatic hydrocarbon odor. Boiling range: $85\text{--}437^{\circ}\text{F}$. Flash pt: -45°F .

SYNS: UNLEADED GASOLINE ☐ UNLEADED MOTOR GASOLINE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 52MLA2 1,1,83

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic data. Moderately toxic by inhalation. Pulmonary aspiration can cause severe pneumonitis. Skin irritant. Flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

GCE200 CAS: 1947-37-1 HR: 2 GASTRIN TETRAPEPTIDE AMIDE

mf: C₃₇H₄₂N₆O₈S mw: 730.91

SYNS: CHOLECYSTOKININ TETRAPEPTIDE ☐ GASTRIN TETRAPEPTIDE ☐ L-PHENYLALANINAMIDE, N-((PHENYL-METHOXY)CARBONYL)-L-TRYPTOPHYL-L-METHIONYL-L-ASPARTYL- ☐ N-((PHENYLMETHOXY)CARBONYL)-L-TRYPTOPHYL-L-METHIONYL-L-ASPARTYL-L-PHENYL-ALANINAMIDE ☐ TETRAGASTRIN

TOXICITY DATA with REFERENCE:

orl-rat LD50: >2 g/kg NIIRDN-,816,1995
ivn-rat LD50: >1 g/kg NIIRDN-,816,1995
orl-mus LD >2 g/kg OYYAA2 3,121,1969
scu-mus LD >2 g/kg OYYAA2 3,121,1969
ivn-mus LD >1 g/kg OYYAA2 3,121,1969
ivn-dog LD >100 mg/kg OYYAA2 3,121,1969

ivn-rbt LD :>5 g/kg OYYAA2 3,121,1969

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

**GCE500 CAS: 29868-97-1 HR: 3
GASTROZEPIN**

mf: C₁₉H₂₁N₅O₂•2ClH mw: 424.37

PROP: A solid. Mp: 240–243°.

SYNS: L-S 519 □ LS 519 DIHYDROCHLORIDE □ 5,11-DIHYDRO-11-((4-METHYL-1-PIPERAZINYL)ACETYL)-6H-PYRIDO(2,3-b)(1,4)BENZODIAZEPIN-6-ONE DIHYDROCHLORIDE □ PIRENZEPINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 g/kg IYKEDH 11,328,80
ipr-rat LD50:440 mg/kg YAKUD5 23,199,81
scu-rat LD50:3 g/kg IYKEDH 19,735,88
ivn-rat LD50:92 mg/kg IYKEDH 19,735,88
orl-mus LD50:2600 mg/kg IYKEDH 11,328,80
ipr-mus LD50:407 mg/kg DRUGAY 6,645,82
scu-mus LD50:2100 mg/kg IYKEDH 19,735,88
ivn-mus LD50:96 mg/kg IYKEDH 19,735,88
orl-rbt LD50:3000 mg/kg OYYAA2 9,377,75

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also DIAZEPAM.

**GCE600 CAS: 83-81-8 HR: 3
GEASTIGMOL**

mf: C₁₆H₂₄N₂O₂ mw: 276.42

SYNS: ANALETIL □ 1,2-BENZENEDICARBOXAMIDE, N,N,N',N'-TETRAETHYL-(9CI) □ BIS-DIETHYLAMID KYSELINY FTALOVE □ neo-CARDIAMINE □ CARDIOVITAL □ CORETON-IN □ GEASTIMOL □ NEO-CARDIAMINE □ NEOSPIRAN □ PHTHALAMIDE, N,N,N',N'-TETRAETHYL- □ PHTHALETH-AMIDE □ o-PHTHALIC ACID BIS(DIETHYLAMIDE) □ o-PHTHALYLBIS(DIETHYLAMIDE) □ N,N,N',N'-TETRAETHYL-1,2-BENZENEDICARBOXAMIDE □ N,N,N',N'-TETRAETHYL-PHTHALAMIDE □ UNISPIRAN

TOXICITY DATA with REFERENCE:

scu-rbt LD50:30 mg/kg 85JCAE -,344,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GCG300 CAS: 427-01-0 HR: 3
GEISSOSPERMINE**

mf: C₄₀H₄₈N₄O₃ mw: 632.92

PROP: Anhydrous form, crystals from absolute acetone. Mp: 213–214° (decomp) sinters at 1°. Anhydrous 217–212° decomp. Sltly sol in water, ether; sol in alc.

TOXICITY DATA with REFERENCE:

orl-mus LD50:450 mg/kg APFRAD 19,104,61
ipr-mus LD50:125 mg/kg APFRAD 19,104,61
scu-mus LD50:150 mg/kg APFRAD 19,104,61
ivn-mus LD50:20 mg/kg APFRAD 19,104,61

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

by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

**GCI000 CAS: 30562-34-6 HR: 3
GELDANAMYCIN**

mf: C₂₉H₄₀N₂O₉ mw: 560.71

PROP: Yellow needles. Mp: 252–255°.

SYN: U-29135

TOXICITY DATA with REFERENCE:

dni-mus:lym 1 mg/L JANTAJ 35,886,82
orl-rat LD50:2500 mg/kg 85ERAY 1,820,78
ipr-mus LD50:1 mg/kg UPJOH* 2(6),-,71

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

**GCK000 CAS: 509-15-9 HR: 3
GELSEMINE**

mf: C₂₀H₂₂N₂O₂ mw: 322.44

PROP: An alkaloid. Mp: 178°. Sltly sol in water; sol in alc, benzene, chloroform, ether, acetone, and dilute acids.

SYN: GELSEMIN

TOXICITY DATA with REFERENCE:

ipr-mus LD50:49 mg/kg ARZNAD 7,349,57
scu-rbt LDLo:100 µg/kg MEIEDD 10,625,83

SAFETY PROFILE: A deadly poison by subcutaneous and intraperitoneal routes. A poisonous alkaloid. Can cause muscular weakness and respiratory arrest. Used as a central nervous system stimulant. When heated to decomposition it emits toxic fumes of NO_x.

**GCK100 CAS: 122111-03-9 HR: D
GEMCITABINE HYDROCHLORIDE**

mf: C₉H₁₁F₂N₃O₄•ClH mw: 299.69

PROP: White to off-white powder. Odorless.

SYNS: CYTIDINE, 2'-DEOXY-2',2'-DIFLUORO-, MONO-HYDROCHLORIDE □ 2'-DEOXY-2',2'-DIFLUORO-CYTIDINE MONOHYDROCHLORIDE □ 2',2'-DIFLUORODEOXYCYTIDINE MONOHYDROCHLORIDE □ GEMCITABINE □ GEMZAR □ LY 188011 □ LY188011 HYDROCHLORIDE

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

**GCK300 CAS: 25812-30-0 HR: 2
GEMFIBROZIL**

mf: C₁₅H₂₂O₃ mw: 250.37

PROP: Crystals from hexane. Mp: 61–63°, bp: 158–159°.

SYNS: CI-719 □ 5-(2,5-DIMETHYLPHENOXY)-2,2-DIMETHYLPENTANOIC ACID (9CI) □ 2,2-DIMETHYL-5-(2,5-XYLLOXY)VALERIC ACID □ GEVILON □ LIPUR □ LOPID

TOXICITY DATA with REFERENCE:

orl-rat LD50:4786 mg/kg PRSMA4 69(Suppl 2),15,76
orl-mus LD50:3162 mg/kg PRSMA4 69(Suppl 2),15,76

SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data.

**GCK400 CAS: 63257-54-5 HR: 2
GEMFIBROZIL M3**mf: C₁₅H₂₀O₅ mw: 280.35**SYN:** BENZOIC ACID, 3-((4-CARBOXY-4-METHYLPENTYL)-OXY)-4-METHYL-**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:983 mg/kg YACHDS 25,645,1997

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.**GCK500 CAS: 95058-81-4 HR: D
GEMICITABINE**mf: C₉H₁₁F₂N₃O₄ mw: 263.23**SYNS:** CYTIDINE, 2'-DEOXY-2',2'-DIFLUORO- □ DDFC □ 2'-DEOXY-2',2'-DIFLUOROCYTIDINE □ 2',2'-DIFLUORO-2'-DEOXYCYTIDINE □ LY 188011**TOXICITY DATA with REFERENCE:**

ivn-man TDLo:27 mg/kg;PUL JCROD7 125,637,1999

SAFETY PROFILE: Human systemic effects When heated to decomposition it emits toxic vapors of NO_x and F⁻.**GCM000 CAS: 8023-80-1 HR: 1
GENET ABSOLUTE****PROP:** Extracted from the flowers of *Spartium junceum* (FCTXAV 14,659,76).**SYNS:** BROOM ABSOLUTE □ SPANISH BROOM**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 14,779,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**GCM300 CAS: 6902-77-8 HR: 3
GENIPIN**mf: C₁₁H₁₄O₅ mw: 226.25**PROP:** Crystals from MeOH. Mp: 120–121°.**TOXICITY DATA with REFERENCE:**

orl-mus LD50:237 mg/kg YKKZAJ 94,157,74

ipr-mus LD50:190 mg/kg YKKZAJ 94,157,74

ivn-mus LD50:153 mg/kg YKKZAJ 94,157,74

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.**GCM350 CAS: 446-72-0 HR: D
GENISTEIN**mf: C₁₅H₁₀O₅ mw: 270.23**PROP:** Prisms from EtOH (aq). Mp: 301–302° (decomp). Rectangular or six-sided rods from 60% alc. Dendritic needles from ether. Mp: 301–302° (decomp). Sol in the usual org solvs; practically insol in water; sol in dil alkalis, with yellow color.**SYNS:** GENISTEOL □ GENISTERIN □ PRUNETOL □ SOPHORICOL □ 4',5,7-TRIHYDROXYISOFLAVONE □ 5,7,4'-TRIHYDROXYISOFLAVONE**TOXICITY DATA with REFERENCE:**

dnd-hmn:oth 50 mg/L CNREA8 50,2618,90

dnd-hmn:oth 50 µmol/L CANCAR 2,271,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**GCO000 CAS: 1403-66-3 HR: 3
GENTAMYCIN****PROP:** Veterinary vaccine. Bp: >100° C, d: 1.0.**SYNS:** GARAMYCIN □ GENTAMYCIN □ GENTAMYCIN-CREME (GERMAN) □ UROMYCINE**TOXICITY DATA with REFERENCE:**

mmo-esc 250 µg/L MUREAV 140,13,84

dnd-rat-ipr 70 mg/kg/7D AMACCQ 24,586,83

ivn-wmn TDLo:8200 µg/kg/12D:EAR,CNS APMIBM 81(Suppl 241),73,73

ivn-wmn TDLo:8200 µg/kg/12D:EAR,BAH AMBPBZ 81(Suppl 241),73,73

ivn-hmn TDLo:2 mg/kg;KID NEJMAG 303,1002,80

ivn-hmn TDLo:23 mg/kg/1Y-I:PNS AIMDAP 138,1621,78

ims-man TDLo:8 mg/kg/2W-I:EYE,SKN JAMAAP 211,123,70

ims-inf TDLo:20 mg/kg;KID PEDIAU 77,848,86

orl-rat LD50:6600 mg/kg AMPMAR 39,259,78

ivn-rat LD50:70 mg/kg JIMRBV 2,100,74

ims-rat LD50:463 mg/kg JJANAX 35,461,82

orl-mus LD50:10 g/kg JJANAX 30,386,77

ipr-mus LD50:235 mg/kg JIMRBV 2,100,74

scu-mus LD50:274 mg/kg TXAPA9 25,398,73

ivn-mus LD50:51 mg/kg JJANAX 30,386,77

ims-mus LD50:167 mg/kg JJANAX 35,461,82

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Poison by intravenous, intraperitoneal, intramuscular, and subcutaneous routes. Mildly toxic by ingestion. Experimental teratogenic and reproductive effects. Mutation data reported. Human systemic effects: change in motor activity, changes in vestibular functions, distorted perceptions, eye hemorrhage, hallucinations, kidney changes, motor activity changes, trigeminal nerve sensory changes, vestibular function changes, visual field changes. Affects the peripheral nervous system by intravenous route. An antibiotic. When heated to decomposition it emits acrid smoke and irritating fumes. See also other gentamycin entries.**GCO200 CAS: 11097-82-8 HR: 3
GENTAMICIN C COMPLEX****TOXICITY DATA with REFERENCE:**

ipr-mus LD50:430 mg/kg AMACCQ 2,464,72

scu-mus LD50:485 mg/kg AMACCQ 2,464,72

ivn-mus LD50:55,900 µg/kg JANTAJ 35,94,82

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal and subcutaneous routes. See also other gentamycin entries.**GCS000 CAS: 1405-41-0 HR: 3
GENTAMYCIN SULFATE**

PROP: White to buff colored powder or slightly yellow liquid. Bp: (decomposes). Highly sol in water.

SYNS: GARAMYCIN □ GENOPTIC □ GENOPTIC S.O.P. □ GM SULFATE □ NSC-82261 □ SCH 9724

TOXICITY DATA with REFERENCE:

dnd-esc 5 mg/L MUREAV 89,95,81
spm-rat-unr 9600 µg/kg/8D JOURAA 112,348,74
ivn-wmn TDLo:45 mg/kg/1W-I:SYS DICPBB 18,596,84
ivn-man TDLo:21 mg/kg/6D-I:SYS DICPBB 18,596,84
ipr-rat LD50:630 mg/kg JJANAX 26,221,73
ivn-rat LD50:96 mg/kg JZKEDZ 8,219,82
ims-rat LD50:384 mg/kg TXAPA9 18,185,71
ipr-mus LDLo:245 mg/kg JZKEDZ 8,219,82
scu-mus LD50:478 mg/kg JANTAJ 23,551,70
ivn-mus LD50:47 mg/kg JJANAX 39,3164,86
ims-mus LD50:250 mg/kg JZKEDZ 8,219,82

SAFETY PROFILE: Poison by intravenous, intraperitoneal, and intramuscular routes. Moderately toxic by subcutaneous route. Human systemic effects: level changes for metals other than Na/K/Fe/Ca/P/Cl. An experimental teratogen. Other experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x. See also other gentamycin entries.

GCU000 CAS: 490-79-9 HR: 3 GENTISIC ACID

mf: C₇H₆O₄ mw: 154.13

PROP: Needles, monoclinic prisms from water. Mp: 204.5–205°. Sol in water (more so in hot water), alc, ether; practically insol in carbon disulfide, chloroform, ether.

SYNS: 2,5-DHBA □ 2,5-DIHYDROXYBENZOIC ACID □ GENTISATE □ HYDROQUINONECARBOXYLIC ACID □ 5-HYDROXYSALICYLIC ACID

TOXICITY DATA with REFERENCE:

dni-hmn:lyms 1 mmol/L BCPCA6 29,1275,80
ipr-rat LD50:3000 mg/kg BCFAAI 112,53,73
orl-mus LD50:4500 mg/kg BJPCAL 8,30,53
ivn-mus LD50:374 mg/kg JAPMA8 42,254,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GCU050 CAS: 4955-90-2 HR: 2 GENTISIC ACID, MONOSODIUM SALT

mf: C₇H₅O₄•Na mw: 176.11

PROP: Pale yellow crystals.

SYNS: BENZOIC ACID, 2,5-DIHYDROXY-, MONOSODIUM SALT (9CI) □ CASATE □ CASATE SODIUM □ GABAIL □ GENSALATE SODIUM □ GENTALPIN □ GENTASOL □ GENTIDOL □ GENTINATRE □ GENTISAN □ GENTISATE SODIUM □ GENTISOD □ 5-HYDROXYSALICYLATE SODIUM □ LEGENTIAL □ MONOSODIUM 2,5-DIHYDROXYBENZOATE □ NAGENT □ NAGENTIS □ SODIUM 2,5-DIHYDROXYBENZOATE □ SODIUM-GENT □ SODIUM GENTISATE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:3735 mg/kg JAPMA8 43,334,54

scu-mus LD50:3900 mg/kg CRSBAW 146,466,52

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GCU100 CAS: 141-27-5 HR: 2 GERANALDEHYDE

mf: C₁₀H₁₆O mw: 152.26

SYNS: CITRAL α □ α-CITRAL □ (E)-CITRAL □ trans-CITRAL □ trans-3,7-DIMETHYL-2,6-OCTADIENAL □ GERANIAL □ 2,6-OCTADIENAL, 3,7-DIMETHYL-, (E)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:500 mg/kg FRXXBL #2448856

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GCW000 CAS: 459-80-3 HR: 2 GERANIC ACID

mf: C₁₀H₁₆O₂ mw: 168.26

SYNS: 3,7-DIMETHYL-2,6-OCTADIENOIC ACID □ 3,7-DIMETHYL-2,7-OCTADIENOIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,785,79
orl-mus LD50:4000 mg/kg BIJOAK 34,1196,40
skn-rbt LD50:1750 mg/kg FCTXAV 17,785,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GCY000 CAS: 105-86-2 HR: 1 GERANIOL FORMATE

mf: C₁₁H₁₈O₂ mw: 182.29

PROP: Colorless to pale-yellow liquid or oil; rose odor. D: 0.906–0.920, refr index: 1.457–1.466, flash p: 205°F, bp: 113–114° @ 15 mm. Sol in alc, fixed oils; insol in glycerin, propylene glycol, water @ 216°.

SYNS: trans-3,7-DIMETHYL-2,6-OCTADIEN-1-OL FORMATE □ 3,7-DIMETHYL-2,6-OCTADIENYL ESTER FORMIC ACID (E) □ trans-3,7-DIMETHYL-2,6-OCTADIEN-1-YL FORMATE □ FEMA No. 2514 □ FORMIC ACID, GERANIOL ESTER □ GERANYL FORMATE (FCC)

TOXICITY DATA with REFERENCE:

skn-hmn 10 mg/48H MLD FCTXAV 12,893,74
eye-rbt 100 mg/24H MLD FCTXAV 12,893,74
orl-rat LD50:>6 g/kg FCTXAV 12,893,74
skn-rbt LD50:>5 g/kg FCTXAV 12,893,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. A human skin irritant and an experimental eye irritant. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

GDA000 CAS: 8000-46-2 HR: 1**GERANIUM OIL ALGERIAN TYPE**

PROP: From steam distillation of leaves from *Pelargonium graveolens* L'Her (Fam. *Geraniaceae*). Contains geraniol and geranyl tiglate (FCTXAV 14,659,76). Yellow liquid; odor of rose and geraniol. D: 0.886–0.898, refr index: 1.454–1.472 @ 20°. Sol in fixed oils, mineral oil; insol in glycerin.

SYNS: GERANIUM OIL □ OIL OF GERANIUM □ OIL OF PELARGONIUM □ OIL OF ROSE GERANIUM □ OIL ROSE GERANIUM ALGERIAN □ PELARGONIUM OIL □ ROSE GERANIUM OIL ALGERIAN

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,781,76

skn-gpg 100% MLD FCTXAV 14,781,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GDC000 HR: 2**GERANIUM OIL BOURBON**

PROP: Chief constituents are geraniol, citronellol (FCTXAV 12,807,74).

SYNS: OIL GERANIUM REUNION □ OIL ROSE GERANIUM

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,883,74

skn-rbt LD50:2500 mg/kg FCTXAV 12,883,74

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

GDE000 HR: 1**GERANIUM OIL MOROCCAN**

PROP: Found in the leaves and stems of *Pelargonium roseum* (FCTXAV 13,449,75).

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 13,451,75

skn-gpg 100% MLD FCTXAV 13,451,75

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

GDE300 HR: 2**GERANIUM THUNBERGII Sieb. et Zucc., extract****TOXICITY DATA with REFERENCE:**

scu-rat LD50:3700 mg/kg KSRNAM 11,458,77

ivn-rat LD50:461 mg/kg KSRNAM 11,458,77

scu-mus LD50:524 mg/kg KSRNAM 11,458,77

ivn-mus LD50:841 mg/kg KSRNAM 11,458,77

SAFETY PROFILE: Moderately toxic by intravenous and subcutaneous routes.

GDE400 CAS: 689-67-8 HR: 1**GERANYL ACETONE**

mf: C₁₃H₂₂O mw: 194.35

PROP: Clear, colorless liquid. D: 0.907 g/mL @ 15°, bp: 242°. Sol in water: <1 mg/mL @ 20°

SYNS: DIHYDROPSEUDOIONONE □ α-β-DIHYDROPSEUDOIONONE □ 6,10-DIMETHYL-UNDECA-5,9-DIEN-2-ONE □ 5,9-UNDECADIEN-2-ONE, 6,10-DIMETHYL-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,787,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GDE800 HR: 2**GERANYL BENZOATE**

mf: C₁₇H₂₂O₂ mw: 258.36

PROP: Sltly yellow liquid; floral odor resembling that of ylang ylang oil. D: 0.978–0.984, refr index: 1.513–1.518, flash p: 212°F. Misc in alc, chloroform; insol in water @ 305°.

SYNS: 3,7-DIMETHYL-2,6-OCTADIEN-1-YL BENZOATE □ FEMA No. 2511

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

GDE810 CAS: 106-29-6 HR: 1**GERANYL BUTANOATE**

mf: C₁₄H₂₄O₂ mw: 224.38

PROP: Colorless to pale yellow liquid. D: 0.8970 @ 20°.

SYNS: BUTANOIC ACID, 3,7-DIMETHYL-2,6-OCTADIENYL ESTER, (E)-(9CI) □ BUTYRIC ACID, 3,7-DIMETHYL-2,6-OCTADIENYL ESTER, (E)- □ trans-3,7-DIMETHYL-2,6-OCTADIEN-1-YL BUTYRATE □ GERANIOL BUTYRATE □ GERANYL BUTYRATE □ GERANYL n-BUTYRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:10,660 mg/kg FCTXAV 2,327,64

skn-rbt LD50:5 g/kg FCTXAV 12,889,74

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 vapors.

GDE825 HR: 2**GERANYL BUTYRATE**

mf: C₁₄H₂₄O₂ mw: 224.34

PROP: Colorless to pale-yellow liquid; fruity, roselike odor. D: 0.889–0.904, refr index: 1.455–1.462, flash p: 199°F. Sol in alc, fixed oils; insol in glycerin, propylene glycol, water @ 253°.

SYNS: 3,7-DIMETHYL-2,6-OCTADIEN-1-YL BUTYRATE □ FEMA No. 2512

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

GDG000 CAS: 10032-02-7 HR: 1**GERANYL CAPROATE**

mf: C₁₆H₂₈O₂ mw: 252.44

SYNS: (E)-3,7-DIMETHYLOCTA-2,6-DIEN-1-YL ESTER, HEXANOIC ACID □ (E)-3,7-DIMETHYLOCTA-2,6-DIEN-1-YL-n-HEXANOATE □ GERANYL HEXANOATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,783,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GDG100 CAS: 40267-72-9 HR: 1

GERANYL ETHYL ETHER

mf: C₁₂H₂₂O mw: 182.34

PROP: Diffusive green liquid. Used in fragrances and perfumes.

SYNS: 1-ETHOXY-3,7-DIMETHYL-2,6-OCTADIENE □ ETHYL GERANYL ETHER □ 2,6-OCTADIENE, 1-ETHOXY-3,7-DIMETHYL-

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 20,693,82

orl-rat LD50:>5 g/kg FCTOD7 20,693,82

skn-rbt LD50:>5 g/kg FCTOD7 20,693,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GDG200 CAS: 51-77-4 HR: 2

GERANYL FARNESYL ACETATE

mf: C₂₇H₄₄O₂ mw: 400.71

SYNS: DA-688 □ GEFARNATE □ GEFARNIL □ GEFARNYL □ 4,8,12-TETRADECATRIENOIC ACID, 5,9,13-TRIMETHYL-, 3,7-DIMETHYL-2,6-OCTADIENYLESTER, (E,E,E)- □ (E,E,E)-5,9,13-TRIMETHYL-4,8,12-TETRADECATRIENOIC ACID 3,7-DIMETHYL-2,6-OCTADIENYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:>9 g/kg DRUGAY 6,266,82

ivn-rat LD50:2040 mg/kg DRUGAY 6,266,82

ims-rat LD50:>13,500 mg/kg DRUGAY 6,266,82

orl-mus LD50:>8 g/kg JMCMA 6,457,63

ipr-mus LD50:>4 g/kg JMCMA 6,457,63

ivn-mus LD50:2821 mg/kg JMCMA 6,457,63

ims-mus LD50:>13,500 mg/kg DRUGAY 6,266,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intravenous route. Mildly toxic by other routes. When heated to decomposition it emits acrid smoke and irritating vapors.

GDG300 CAS: 1113-21-9 HR: 1

GERANYLINALOOL

mf: C₂₀H₃₄O mw: 290.54

PROP: Used as a fragrance.

SYNS: 1,6,10,14-HEXADECATETRAEN-3-OL, 3,7,11,15-TETRAMETHYL-, (E,E)- □ E,E-3,7,11,15-TETRAMETHYL-1,6,10,14-HEXADECATETRAEN-3-OL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg FCTOD7 30,41S,92

eye-rbt 100 mg FCTOD7 30,41S,92

orl-rat LD50:>5 g/kg FCTOD7 30,41S,92

ipr-mus LD50:>2 g/kg FCTOD7 30,41S,92

skn-rbt LD50:>5 g/kg FCTOD7 30,41S,92

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.

GD1000 CAS: 2345-26-8 HR: 2

GERANYL ISOBUTYRATE

mf: C₁₄H₂₄O₂ mw: 224.38

PROP: Colorless liquid. Bp: 252°, d: 0.894-0.901. Flash pt: >100° C. Insol in water, sol in alc.

SYNS: trans-3,7-DIMETHYL-2,6-OCTADIEN-1-OL ISOBUTYRATE □ trans-3,7-DIMETHYL-2,6-OCTADIENYL ESTER ISOBUTYRIC ACID □ trans-3-7-DIMETHYL-2,6-OCTADIENYL ISOBUTYRATE □ (E)-2-METHYL-3,7-DIMETHYL-2,6-OCTADIENYL ESTER PROPANOIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 13,451,75

orl-rat LD50:>5 g/kg FCTXAV 13,451,75

skn-rbt LD50:>5 g/kg FCTXAV 13,451,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GDK000 CAS: 109-20-6 HR: 1

GERANYL ISOVALERATE

mf: C₁₅H₂₆O₂ mw: 238.41

SYNS: trans-3,7-DIMETHYL-2,6-OCTADIENYL ISOPENTANOATE □ (E)-ISOVALERIC ACID-3,7-DIMETHYL-2,6-OCTADIENYL ESTER □ (E)-3-METHYLBUTYRIC ACID-3,7-DIMETHYL-2,6-OCTADIENYL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,785,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GDM000 CAS: 5585-39-7 HR: 2

GERANYL NITRILE

mf: C₁₀H₁₅N mw: 149.26

PROP: Clear liquid. D: 0.867 @ 25°C, bp: 448° F. Flash pt: 212° F (TCC).

SYNS: (E)-3,7-DIMETHYL-2,6-OCTADIENENITRILE □ GERANONITRILE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3100 mg/kg FCTXAV 14,787,76

skn-rbt LD50:4300 mg/kg FCTXAV 14,787,76

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

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. A combustible liquid. When heated to decomposition it emits toxic fumes of NO_x and CN⁻. See also NITRILES.

GDM100 CAS: 65405-73-4 HR: 1

GERANYL OXYACETALDEHYDE

mf: C₁₂H₂₀O₂ mw: 196.32

SYNS: ACETALDEHYDE, ((3,7-DIMETHYL-2,6-OCTADIENYL)OXY)-, (E)- □ GERANOXY ACETALDEHYDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 17,789,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GDM400 CAS: 102-22-7 HR: 2
GERANYL PHENYLACETATE**

mf: C₁₈H₂₄O₂ mw: 272.39

PROP: Yellow liquid; honey-rose odor. D: 0.971–0.978, refr index: 1.507–1.511, flash p: 212°F. Misc in alc, chloroform, ether; insol in water.

SYNS: ACETIC ACID, PHENYL-, 3,7-DIMETHYL-2,6-OCTADIENYL ESTER, (E)-(8CI) □ BENZENEACETIC ACID, 3,7-DIMETHYL-2,6-OCTADIENYL ESTER, (E)- □ 3,7-DIMETHYL-2,6-OCTADIEN-1-YL PHENYLACETATE □ trans-3,7-DIMETHYL-2,6-OCTADIEN-1-YL PHENYLACETATE □ GERANYL α-TOLUATE □ FEMA No. 2516

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTXAV 12,895,74

skn-rbt LD50:>5 g/kg FCTXAV 12,895,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GDM450 CAS: 105-90-8 HR: 2
GERANYL PROPIONATE**

mf: C₁₃H₂₂O₂ mw: 210.32

PROP: Colorless liquid; rosy, fruity odor. D: 0.896–0.913, refr index: 1.456–1.464, flash p: 212°F. Sol in alc, fixed oils; insol in glycerin, propylene glycol, water @ 253°.

SYNS: (E)-3,7-DIMETHYL-2,6-OCTADIEN-1-OL PROPIONATE □ 3,7-DIMETHYL-2,6-OCTADIEN-1-YL PROPIONATE □ trans-3,7-DIMETHYL-2,6-OCTADIEN-1-YL PROPIONATE □ 2,6-OCTADIEN-1-OL, 3,7-DIMETHYL-, PROPIONATE, (E)-(8CI) □ FEMA No. 2517

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTXAV 12,897,74

skn-rbt LD50:>5 g/kg FCTXAV 12,897,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GDO000 CAS: 7785-33-3 HR: 1
GERANYL TIGLATE**

mf: C₁₅H₂₄O₂ mw: 236.39

SYNS: cis-α,β-DIMETHYL ACRYLIC ACID, GERANIOL ESTER □ trans-3,7-DIMETHYL-2,6-OCTADIEN-1-YL cis-α,β-DIMETHYL ACRYLATE □ (E,E,E)-3,7-DIMETHYL-2,6-OCTADIENYL ESTER-2-METHYL-2-BUTENOIC ACID □ TIGLIC ACID, GERANIOL ESTER

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 12,899,74

orl-rat LD50:>5 g/kg FCTXAV 12,899,74

skn-rbt LD50:>5 g/kg FCTXAV 12,899,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GDO100 CAS: 13657-68-6 HR: 2
GERMACR-1(10)-ENE-5,8-DIONE**

mf: C₁₅H₂₄O₂ mw: 236.39

SYNS: CURDIONE □ (+)-CURDIONE □ CYCLODECENE-1,4-DIONE, 6,10-DIMETHYL-3-(1-METHYLETHYL)-, (3S-(3R*,6E,10R*))-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:414 mg/kg ZHOYAN -,178,94

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

**GDO200 CAS: 6902-91-6 HR: 3
GERMACRONE**

mf: C₁₅H₂₂O mw: 218.34

SYN: 3,7-CYCLODECADIEN-1-ONE, 3,7-DIMETHYL-10-(1-METHYLETHYLIDENE)-, (3E,7E)-

TOXICITY DATA with REFERENCE:

orl-mus TDLo:25 mg/kg BIPBU* 25,627,2002

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

**GDO800 CAS: 39236-46-9 HR: 2
GERMALL 115**

mf: C₁₁H₁₆N₈O₈ mw: 388.35

SYNS: METHANEBIS(N,N'-(5-UREIDO-2,4-DIKETOTETRAHYDROIMIDAZOLE)-N,N-DIMETHYLOL) □ N,N'-(METHYLENEBIS(N'-(1-(HYDROXYMETHYL)-2,5-DIOXO-4-IMIDAZOLIDINYL)UREA)

TOXICITY DATA with REFERENCE:

orl-rat LD50:11,300 mg/kg JEPTDQ 4(4),133,80

ipr-rat LDLo:4000 mg/kg JEPTDQ 4(4),133,80

orl-mus LD50:7200 mg/kg JEPTDQ 4(4),133,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GDS000 CAS: 1310-53-8 HR: 3
GERMANIC OXIDE (crystalline)**

TOXICITY DATA with REFERENCE:

ipr-gpg LDLo:300 mg/kg JPETAB 42,277,31

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GDU000 CAS: 7440-56-4 HR: 3
GERMANIUM**

mf: Ge mw: 72.59

PROP: A gray-white, lustrous metalloid; crystalline and brittle, stable @ room temp. Mp: 945° (937.2° best value), bp: 2850° @ 28°, d: 5.323 @ 25°. Insol in water, hydrochloric acid, dilute alc, hydroxides. Relatively stable.

SYNS: GERMANIUM ELEMENT □ GERMANIUM, metal powder

TOXICITY DATA with REFERENCE:

ihl-rat LCLo:3860 mg/m³/4H FCTOD7 28,571,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Inhaled dust is rapidly absorbed. Explosive reaction when heated with potassium chlorate or potassium nitrate. Violent reaction with nitric acid. Ignites on contact with chlorine or bromine + heat. Incandescent reaction when heated with oxygen or potassium hydroxide. Incompatible with aqua regia; concentrated sulfuric acid; fused alkalis; nitrates or carbonates; halogens; oxidants. See also GERMANIUM COMPOUNDS.

**GDW000 CAS: 13450-92-5 HR: 3
GERMANIUM BROMIDE**

mf: Br₄Ge mw: 392.23

PROP: Gray-white, octahedral crystals. Mp: 26.1°, bp: 186.5°, d: 3.232 @ 29°/29°. Decomp in H₂O; sol in EtOH, Et₂O, and C₆H₆.

SYN: GERMANIUM TETRABROMIDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#02624

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits very toxic fumes of Br⁻. See also GERMANIUM COMPOUNDS.

**GDY000 CAS: 10038-98-9 HR: 3
GERMANIUM CHLORIDE**

mf: Cl₄Ge mw: 214.39

PROP: Colorless, mobile liquid. Fumes in air. Peculiar acidic odor but can be distinguished from that of concentrated HCl. Mp: -49.5°, bp: 83.1°, d: 1.879 @ 20°/20°. Volatile @ room temp. Decomp in H₂O; sol in EtOH, Et₂O. Very sol in dil HCl; insol in conc HCl, and H₂SO₄.

SYN: EXTREMA □ GERMANIUM TETRACHLORIDE

TOXICITY DATA with REFERENCE:

eye-rbt 50 mg SEV GTPZAB 8(4),57,64

ihl-mus LC50:44 g/m³/2H GTPZAB 12(5),51,68

ivn-mus LD50:56 mg/kg CSLNX* NX#02625

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

SAFETY PROFILE: Poison by intravenous route. Mildly toxic by inhalation. A skin, severe eye, and mucous membrane irritant. Will react violently with water or steam to produce toxic and corrosive fumes. When heated to decomposition it emits toxic fumes of Cl⁻. See also GERMANIUM COMPOUNDS.

**GEA000 HR: 2
GERMANIUM COMPOUNDS**

SAFETY PROFILE: Germanium compounds are considered to be of a low order of toxicity, but rare instances of poisoning have been reported in the literature. Experimental LD50 values are typically about 100–1000 mg/kg for parenteral route and 500–5000 mg/kg for ingestion. The experimental animals suffer

from hypothermia, diarrhea, and respiratory and cardiac failure. Inhalation of large amounts of GeCl₄ by experimental animals causes necrosis of the tracheal epithelium, bronchitis, and interstitial pneumonia. These effects were not apparent with chronic inhalation of 7 mg/m³. The tetrachloride and tetrafluoride are eye, skin, and mucous membrane irritants. Alkyl germanium compounds are much less toxic than the corresponding tin or lead compounds. Tributyl germanium and germanium tetrachloride are mutagens. Dimethyl germanium is a teratogen. Chronic ingestion of 1000 ppm or 100 ppm of germanium dioxide in water has been shown to inhibit growth in chickens. No effect was seen at 5 ppm. It has been found that the dioxide stimulates the generation of red blood cells, but it is believed to be relatively nontoxic. Buffered germanium dioxides in solution have been found to be nonirritating to the skin. Germanium hydride is a hemolytic gas and has been shown to have toxic properties at a concentration of 100 ppm. It can cause death at a concentration of 150 ppm. Otherwise, little is known about the toxicity of organic germanium compounds except that they may resemble other organometals in having higher toxicity than inorganic forms. When germanium is given in sublethal amounts, it causes a pronounced tolerance. Interest is high in this material because of its close chemical relationship to arsenic.

**GEC000 CAS: 1310-53-8 HR: 3
GERMANIUM DIOXIDE**

mf: GeO₂ mw: 104.59

PROP: Soluble form: Hexagonal, colorless crystals. Mp: 1115.0°, d: 4.703 @ 18°. Insoluble form: Tetragonal crystals, mp: 1086 ± 5°, d: 6.239.

SYNS:

□ GERMANIA □ GERMANIC ACID □ GERMANIUM OXIDE □ GERMANIUM OXIDE (GeO₂)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1250 mg/kg 31ZUAV -,95,64

ipr-rat LD50:750 mg/kg AMIHBC 8,466,53

scu-rat LD50:1910 mg/kg OYYAA2 21,773,81

orl-mus LD50:1250 mg/kg 85GMAT -,71,82

ipr-mus LD50:1550 mg/kg OYYAA2 16,671,78

scu-mus LD50:2550 mg/kg OYYAA2 21,773,81

scu-rbt LD50:845 mg/kg EQSSDX 1,1,75

ipr-gpg LDLo:400 mg/kg EQSSDX 1,1,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes. See also GERMANIUM COMPOUNDS.

**GEG000 HR: 3
GERMANIUM MONOHYDRIDE**

mf: (GeH)_n mw: (73.60)_n

SYN: POLY(GERMANIUM MONOHYDRIDE)

SAFETY PROFILE: A very dangerous explosion hazard, solid polymeric hydride can decompose explosively when exposed to air. Self-ignites in air. See

also HYDRIDES, GERMANIUM COMPOUNDS, and GERMANIUM.

GEI000 CAS: 12025-32-0 HR: 3
GERMANIUM(II) SULFIDE

mf: GeS mw: 104.64

SAFETY PROFILE: Yellow-red amorphous or black rhombic pyramids. Mp: 530°, sublimes at 4°.

SAFETY PROFILE: Explosive reaction when heated with potassium nitrate. When heated to decomposition it emits toxic fumes of SO_x. See also GERMANIUM COMPOUNDS.

GEI100 CAS: 7782-65-2 HR: 3
GERMANIUM TETRAHYDRIDE

DOT: UN 2192

mf: GeH₄ mw: 76.63

PROP: Colorless gas. Mp: -165°, bp: -90°, d: 1.523 @ -142°/4°. Insol in H₂O; sol in aq NH₃, aq NaOCl; sltly sol in hot HCl.

SYNS: GERMANE (DOT) □ GERMANIUM HYDRIDE □ MONOGERMANE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1250 mg/kg GTPZAB 18(2),56,74

ihl-mus LC50:1380 mg/m³ GTPZAB 18(2),56,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 0.2 ppm

DOT CLASSIFICATION: 2.3; Label: Poison Gas, Flammable Gas

SAFETY PROFILE: Poison by inhalation. Moderately toxic by ingestion. A hemolytic gas. Ignites spontaneously in air. Incompatible with Br₂. See also HYDRIDES, GERMANIUM COMPOUNDS, and GERMANIUM.

GEK000 CAS: 306-67-2 HR: 3
GERONTINE TETRAHYDROCHLORIDE

mf: C₁₀H₂₆N₄•4ClH mw: 348.24

PROP: Crystals from EtOH. Mp: 312–314.5°.

SYNS: 1,4-BIS(AMINOPROPYL)BUTANEDIAMINE TETRAHYDROCHLORIDE □ MUSCULAMINE TETRAHYDROCHLORIDE □ NEURIDINE TETRAHYDROCHLORIDE □ SPERMINE TETRAHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

dnd-esc 8900 nmol/L BIPMAA 5,227,67

dnd-srm 8900 nmol/L BIPMAA 5,227,67

dnd-mam:lym 16,700 nmol/L BIPMAA 5,227,67

ipr-mus LD50:370 mg/kg FEPA7 41,1575,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

GEK200 CAS: 137-86-0 HR: 3
GEROSTOP

mf: C₂₃H₃₆N₄O₅S₃ mw: 544.81

PROP: Crystals or solid with slt bitter taste. Mp: 106–109°.

SYNS: NEUVITAN □ OCTOTIAMINE □ TATD

TOXICITY DATA with REFERENCE:

orl-mus LD50:2590 mg/kg NIIRDN 6,159,82

ipr-mus LD50:522 mg/kg NIIRDN 6,159,82

scu-mus LD50:1410 mg/kg NIIRDN 6,159,82

ivn-mus LD50:399 mg/kg NIIRDN 6,159,82

SAFETY PROFILE: Poison by intravenous route.

Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also ESTERS.

GEK300 CAS: 12255-11-7 HR: 3
GERSDORFFITE

mf: AsNiS mw: 165.69

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 SO_x, Ni, and As.

GEK500 CAS: 434-03-7 HR: 3
GESTORAL

mf: C₂₁H₂₈O₂ mw: 312.49

PROP: Crystals from CHCl₃/Me₂CO or EtOAc; needles from EtOH. Mp: 270–272°. Practically insol in water; sltly sol in alc, acetone, ether, chloroform, vegetable oils.

SYNS: AETHISTERON □ ANHYDROHYDROXYPROGESTERONE □ ANHYDROXYPROGESTERONE □ COLUTOID □ ETHINONE □ ETHINYLTTESTOSTERONE □ 17-ETHINYLTTESTOSTERONE □ ETHISTERONE □ ETHINYLTTESTOSTERONE □ 17-α-ETHINYLTTESTOSTERONE □ 17-β-HYDROXY-17-α-ETHINYLT-4-ANDROSTER-3-ONE □ 17-HYDROXY-17-α-PREGN-4-EN-20-YN-3-ONE □ LUCORTEUM ORAL □ LUTIDON ORAL □ LUTOCYLOL □ NALUTORAL □ NUGESTORAL □ ORA-LUTIN □ PRANONE □ PREGNENINOLONE □ PREGNIN □ PRIMOLUT C □ PRODOXAN □ PRODOXAN □ PRODUXAN □ PROGESTAB □ PROGESTIN P □ PROGESTOLETS □ PROGESTORAL □ PROLUTOL □ PROLUTON C □ PRONE □ SYNGESTROTABS □ TROSINONE

SAFETY PROFILE: Human female reproductive and teratogenic effects: menstrual cycle changes or disorders and developmental abnormalities of the fetal urogenital system. Other experimental reproductive effects. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes.

GEK510 CAS: 1253-28-7 HR: 3
GESTRONOL CAPROATE

mf: C₂₆H₃₈O₄ mw: 414.64

PROP: Crystals. Mp: 123–124°.

SYNS: 17-β-ACETYL-17-HYDROXYESTR-4-ENE-3-ONE HEXANOATE □ DEPOSTAT □ GESTONORONE CAPROATE □ GESTONORONE CAPRONATE □ GESTRONOL HEXANOATE □ 17-HYDROXY-19-NORPREGN-4-ENE-3,20-DIONE HEXANOATE □ 17-HYDROXY-19-NOR-4-PREGNENE-3,20-DIONE HEXANOATE □ 17-α-HEXANOYLOXY-19-NOR-4-PREGNENE-3,20-DIONE □ 17-α-HYDROXY-19-NORPROGESTERONE CAPROATE □ PRIMOSTAT □ SH 582 □ SH 80582

TOXICITY DATA with REFERENCE:

ipr-rat LD50:6800 mg/kg IYKEDH 13,349,82

ims-rat LD50:400 mg/kg IYKEDH 8,296,77

scu-mus LD50:10 g/kg IYKEDH 13,349,82

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

GEK600 **HR: 3**
GEUM ELATUM (Royle) Hook. f., extract
PROP: Indian plant belonging to the family Rosaceae (IJEBA6 18,594,80).
TOXICITY DATA with REFERENCE:
 ipr-mus LD50:375 mg/kg IJEBA6 18,594,80
SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects.

GEK875 **HR: 1**
GFX-E
PROP: Consists of glucose, fructose and xylitol (4:2:1) in a 23.3% solution with electrolytes (IYKEDH 16,328,85).
TOXICITY DATA with REFERENCE:
 ipr-rat LD50:42,600 mg/kg IYKEDH 16,328,85
 ivn-rat LD50:40,600 mg/kg IYKEDH 16,328,85
 ivn-rbt LD50:40 g/kg IYKEDH 16,328,85
SAFETY PROFILE: Mildly toxic by intravenous and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes. See also individual components.

GEK880 **HR: 1**
GFX-ES
PROP: Consists of glucose, fructose and xylitol (4:2:1) in a 23.3% solution with electrolytes (IYKEDH 16,320,85).
TOXICITY DATA with REFERENCE:
 ipr-rat LD50:57,600 mg/kg IYKEDH 16,320,85
 ivn-rat LD50:61 g/kg IYKEDH 16,320,85
 ivn-rbt LD50:59,300 mg/kg IYKEDH 16,320,85
SAFETY PROFILE: Mildly toxic by intravenous and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes. See also individual components.

GEM000 **CAS: 77-06-5** **HR: 2**
GIBBERELIC ACID
 mf: $C_{19}H_{22}O_6$ mw: 346.41
PROP: A plant-growth-promoting hormone. White crystals or crystalline powder from alc/pet ether. Mp: 233–235° (decomp). Sltly sol in water, ether; sol in methanol, ethanol, acetone, aq solns of sodium bicarbonate and sodium acetate; moderately sol in ethyl acetate.
SYNS: BERELEX □ BRELLIN □ CEKUGIB □ FLORALTONE □ GA □ GIBBERELLIN □ GIBBREL □ GIB-SOL □ GIB-TABS □ GROCEL □ NCI-C55823 □ PRO-GIBB □ 2,4a,7-TRIHYDROXY-1-METHYL-8-METHYLENEGIBB-3-ENE-1,10-CARBOXYLIC ACID 1-4-LACTONE
TOXICITY DATA with REFERENCE:
 dnd-sal:spr 1 mmol/L PYTCAS 11,3135,72
 dnd-mam:lym 1 mmol/L PYTCAS 11,3135,72
 orl-mus TDLo:142 g/kg/78W-I:ETA NTIS** PB223-159
 orl-rat LD50:6300 mg/kg 85ARAE 3,43,76/77
CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

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

GEO000 **CAS: 12002-43-6** **HR: 3**
GILSONITE
PROP: A black solid hydrocarbon mineral formed from petroleum millions of years ago by geologic processes.
SYN: NCI-C55185
SAFETY PROFILE: A skin, eye, and mucous membrane irritant. An allergen. Has been known to cause photosensitization of skin. Flammable when exposed to heat or open flame. To fight fire, use water, foam, dry chemical, and CO₂. When heated to decomposition it emits acrid smoke and irritating fumes.

GEO200 **CAS: 77879-90-4** **HR: 3**
GILVOCARCIN V
 mf: $C_{27}H_{26}O_9$ mw: 494.53
PROP: Yellow needles. Mp: 264–267°.
SYNS: ANTIBIOTIC B 21085 □ B-21085 □ DC-38-A □ DC-38-V □ TOROMYCIN
TOXICITY DATA with REFERENCE:
 dni-bcs 500 µg/L JANTAJ 35,545,82
 oms-bcs 500 µg/L JANTAJ 35,545,82
 ipr-mus LD50:1500 mg/kg 85GDA2 3,369,80
 ivn-mus LD50:300 mg/kg JANTAJ 34,266,81
SAFETY PROFILE: Poison by intravenous route. Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

GEO600 **CAS: 4880-82-4** **HR: 3**
GINDARINE HYDROCHLORIDE
 mf: $C_{21}H_{25}NO_4 \cdot ClH$ mw: 391.93
SYNS: GINDARIN HYDROCHLORIDE □ (S)-5,8,13,13a-TETRAHYDRO-2,3,9,10-TETRAMETHOXY-6H-DIZENZO(a,g)QUINOLIZINE HYDROCHLORIDE □ 2,3,9,10-TETRAMETHOXY-13a,α-BERBINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
 orl-rat TDLo:20 mg/kg (female 1-20D post):REP FATOAO 46(4),107,83
 orl-rat TDLo:1 g/kg (female 1-20D post):TER FATOAO 46(4),107,83
 orl-rat LD50:580 mg/kg FATOAO 46(4),107,83
 ipr-rat LD50:330 mg/kg FATOAO 46(4),107,83
 orl-mus LD50:1190 mg/kg FATOAO 46(4),107,83
 ipr-mus LD50:550 mg/kg IJMRAQ 60,472,72
 ipr-gpg LD50:460 mg/kg FATOAO 46(4),107,83
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

GEQ000 **CAS: 8007-08-7** **HR: 2**
GINGER OIL
PROP: From steam distillation of ground rhizomes of *Zingiber officinale* Roscoe (Fam. *Zingiberaceae*) (FCTXAV 12,807,74). Yellow liquid; odor of ginger. D: 0.870–0.882, refr index: 1.488 @ 20°. Sol in fixed oils, mineral oil, alc; insol in glycerin, propylene glycol.
TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,901,74
 dnr-bcs 5 µL/disc TOFOD5 8,91,85
 orl-mus LD50:3450 mg/kg CTYAD8 19,407,88
 ipr-mus LD50:1230 mg/kg CTYAD8 19,407,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GEQ100 CAS: 90045-36-6 HR: 1
GINKGO BILOBA L., ROOT EXTRACT

SYN: YAJIAOTONG

TOXICITY DATA with REFERENCE:

orl-man TDLo:8 mg/kg/1W-I;CNS,BLD,EYE
 NEJMAG 336,1108,1997

ivn-mus LD50:162 g/kg CTYAD8 20,22,1989

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

GEQ400 HR: 3
GINSENG
SYN: PANAX

TOXICITY DATA with REFERENCE:

orl-rat LD50:750 mg/kg FRMTAL 31(6),45,82

orl-mus LD50:200 mg/kg FRMTAL 31(6),45,82

ipr-mus LD50:54 mg/kg FRMTAL 31(6),45,82

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes.

GEQ425 HR: 3
GINSENG ROOT-NEUTRAL SAPONINS

PROP: A mixture of neutral saponins composed of ginsenoside-rb₁, -rb₂, and -rc (JJPAAZ 23,29,73).

SYNS: GINSENG, ROOT EXTRACT □ GINSENGWURZEL, EXTRACT (GERMAN) □ GNS □ NEUTRAL SAPONINS OF PANAX GINSENG ROOT □ PANAX GINSENG, ROOT EXTRACT □ SONG-SAM, ROOT EXTRACT

TOXICITY DATA with REFERENCE:

oms-rat-ipr 50 mg/kg CPBTAL 25,1665,77

ipr-rat LDLo:200 mg/kg JJPAAZ 23,29,73

ipr-mus LD50:545 mg/kg JJPAAZ 23,29,73

ivn-mus LD50:367 mg/kg JJPAAZ 23,29,73

par-mus LDLo:32,500 mg/kg AEPPAE 170,443,33

par-frg LDLo:8500 mg/kg AEPPAE 170,443,33

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Mutation data reported. See also SAPONIN.

GEQ450 CAS: 74749-74-9 HR: 3
GINSENOSE

TOXICITY DATA with REFERENCE:

mor-rat-lvr 20 mg/L EJCAAH 15,885,1979

ipr-rat LD50:40 mg/kg IJTOFN 19,293,2000

ipr-mus LD50:40 mg/kg IJTOFN 19,293,2000

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

GEQ500 CAS: 123-46-6 HR: 2
GIRARD T REAGENT

mf: C₅H₁₄N₃O•Cl mw: 167.67

PROP: White to pink odorless crystals. Mp: 192°. Sol in water.

SYNS: AMMONIUM, (CARBOXYMETHYL)TRIMETHYL-, CHLORIDE, HYDRAZIDE □ BETAINE HYDRAZIDE HYDROCHLORIDE □ (CARBOXYMETHYL)TRIMETHYL-AMMONIUM CHLORIDE HYDRAZIDE □ ETHANAMINIUM, 2-HYDRAZINO-N,N,N-TRIMETHYL-2-OXO-, CHLORIDE (9CI) □ GIRARD REAGENT T □ GIRARD'S REAGENT T □ TRIMETHYLACETHYDRAZIDE AMMONIUM CHLORIDE □ TRIMETHYLAMINOACETOHYDRAZIDE CHLORIDE □ TRIMETHYLAMMONIUM ACETYL HYDRAZIDE CHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD:>500 mg/kg NCNSA6 5,25,53

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 Cl⁻.

GES000 CAS: 1391-75-9 HR: 3
GITALIN

mf: C₃₅H₅₆O₁₂ mw: 668.91

PROP: Amorph powder. Readily sol in alc; slt to slowly sol in water.

SYN: VERODIGEN

TOXICITY DATA with REFERENCE:

scu-mus LDLo:29 mg/kg 27ZWAY E.1,78,-

ivn-mus LDLo:2400 µg/kg ARZNAD 6,182,56

orl-cat LD50:1230 µg/kg JAPMA8 44,607,55

ivn-cat LDLo:1040 µg/kg JAPMA8 44,607,55

ivn-pgn LDLo:1 mg/kg JPHAA3 25,611,36

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

GES100 CAS: 3261-53-8 HR: 3
GITALOXIN

mf: C₄₂H₆₄O₁₅ mw: 809.06

PROP: Crystals from Me₂CO/pet ether. Mp: 250–253°.

SYNS: 16-FORMYL-GITOXIN □ GITALOXIGENIN-TRIDIGITOXOSID (GERMAN) □ GITALOXIN-16-FORMATE □ GITOXIGENIN TRIDIGITOXOXIDE-16-FORMATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:2870 µg/kg AIPTAK 153,436,65

scu-mus LD50:2830 µg/kg AIPTAK 153,436,65

ivn-cat LDLo:900 µg/kg J MPCAS 5,988,62

orl-gpg LDLo:2455 µg/kg AIPTAK 153,436,65

ivn-gpg LDLo:982 µg/kg AIPTAK 153,436,65

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

GEU000 CAS: 4562-36-1 HR: 3
GITOXIN

mf: C₄₁H₆₄O₁₄ mw: 781.05

PROP: Crystals or stout prisms from chloroform and methanol. Decomp @ 285° (rapid heating). Almost insol in chloroform, ethyl acetate, and acetone. Dissolves in a mixture of chloroform and alc or pyridine or dil alc.

SYNS: ANHYDROGITALIN □ BIGITALIN □ GITOXIGENIN-TRIDIGITOXOSID (GERMAN) □ PSEUDODIGITOXIN

TOXICITY DATA with REFERENCE:

orl-cat LDLo:880 µg/kg 27ZWAY E.1,78,-
par-cat LDLo:465 µg/kg ARZNAD 6,182,56
ivn-gpg LD50:68 mg/kg ARZNAD 6,182,56
par-pgn LDLo:1210 µg/kg CPBTAL 11,613,63

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

GEW000 CAS: 7242-04-8 HR: 3

GITOXIN PENTAACETATE

mf: C₅₁H₇₄O₁₉ mw: 991.25

PROP: Rhombic crystals. Mp: 151–155°.

SYNS: CARNACID-COR □ CORDOVAL □ PENGITOXIN □ PENTAACETYLGITOXIN □ PENTA-o-ACETYLGITOXIN □ PENTAGIT

TOXICITY DATA with REFERENCE:

ivn-rat LD50:21 mg/kg AIPTAK 155,165,65
ipr-mus LD50:6400 µg/kg AIPTAK 155,165,65
orl-cat LD50:200 µg/kg AIPTAK 159,1,66
ipr-cat LD50:230 µg/kg AIPTAK 159,1,66
orl-gpg LD50:1 mg/kg AIPTAK 159,1,66
ivn-gpg LD50:450 µg/kg ARZNAD 6,182,56

SAFETY PROFILE: A deadly poison by ingestion, intraperitoneal, and intravenous routes. Used as a cardiotonic agent. When heated to decomposition it emits acrid smoke and irritating fumes.

GEW700 CAS: 1448-23-3 HR: 3

GLARUBIN

mf: C₂₅H₃₆O₁₀ mw: 496.61

PROP: Crystals. Mp: 250–255° (decomp).

SYNS: GLAUCARUBIN □ GLAUMBEA □ α-KIRONDRIN □ β-KIRONDRIN □ MK-33 □ SIMARUBACEAE

TOXICITY DATA with REFERENCE:

orl-rat LD50:800 mg/kg 85GDA2 8(2),172,82
orl-mus LD50:1200 mg/kg AIPTAK 114,307,58
scu-mus LD50:28 mg/kg 85GDA2 8(2),172,82

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and fumes. See also ESTERS.

GEW725 CAS: 8065-71-2 HR: 3

GLIFTOR

mf: C₃H₆ClFO•C₃H₆F₂O mw: 208.63

SYNS: 1-CHLORO-3-FLUORO-2-PROPANOL MIXT. WITH 1,3-DIFLUORO-2-PROPANOL □ 2-PROPANOL, 1-CHLORO-3-FLUORO-, MIXT. WITH 1,3-DIFLUORO-2-PROPANOL

TOXICITY DATA with REFERENCE:

eye-rbt 5% VCVGK*,190,1994
orl-rat LD50:96 mg/kg 85GMAT-,71,1982
ihl-rat LC50:580 mg/m³/4H 85GMAT-,71,1982
skn-rat LD50:66 mg/kg 85GMAT-,71,1982
orl-mus LD50:165 mg/kg 85GMAT-,71,1982
ihl-mus LC50:1260 mg/m³/2H 85GMAT-,71,1982
orl-rbt LD50:7600 µg/kg 85GMAT-,71,1982

SAFETY PROFILE: A poison by ingestion, inhalation, and skin contact. An eye irritant. When heated to decomposition it emits toxic vapors of F⁻ and Cl⁻.

GEW750 CAS: 535-65-9 HR: D

GLIPASOL

mf: C₁₂H₁₆N₄O₂S₂ mw: 312.44

PROP: Needles from EtOH. Mp: 221–223°.

SYNS: BENZENESULFONAMIDE, 4-AMINO-N-(5-(1,1-DIMETHYLETHYL)-1,3,4-THIADIAZOL-2-YL)- (9CI) □ GLYBUTHIAZOL □ GLYBUTHIAZOLE □ GLYPASOL □ 2259 R.P. □ RP 2259 □ SULFANILAMIDE, N¹-(5-tert-BUTYL-1,3,4-THIADIAZOL-2-YL)-

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

GEW780 CAS: 33342-05-1 HR: 1

GLIQUIDONE

mf: C₂₇H₃₃N₃O₆S mw: 527.69

SYNS: ARDF 26 □ ARDF 26 SE □ BENZENESULFONAMIDE, N-((CYCLOHEXYLAMINO)CARBONYL)-4-(2-(3,4-DIHYDRO-7-METHOXY-4,4-DIMETHYL-1, 3-DIOXO-2(1H)-ISOQUINOLINYL)ETHYL)- □ GLURENORM

TOXICITY DATA with REFERENCE:

orl-mus LD50:>15 g/kg USXXAM #3708486

SAFETY PROFILE: Low toxicity by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

GEW800 HR: 2

GLORY LILY

PROP: Climbing lilies with tuberous roots. The leaves have tendrils on the tips. The flowers are bright red and yellow with well separated petals. They are cultivated in Hawaii, the southern-most parts of the continental United States and the West Indies.

SYNS: CLIMBING LILY □ GLORIOSA LILY □ GLORIOSA ROTHSCILDIANA □ GLORIOSA SUPERBA □ PIPA de TURCO (CUBA)

SAFETY PROFILE: The whole plant and especially the tubers contain the poison colchicine. Ingestion of any part of the plant causes a burning pain in the mouth, intense thirst, nausea, vomiting, abdominal cramps, severe diarrhea, and sometimes kidney damage. There may be extensive fluid and electrolyte loss. Colchicine is excreted slowly so the effects may persist for some time. See also COLCHICINE.

GEW875 CAS: 9007-92-5 HR: 1

GLUCAGON

mf: C₁₅₁H₂₂₄N₄₂O₅₀S mw: 3460.23

PROP: A polypeptide hormone produced in the alpha cells of the islets of Langerhans in the pancreas. Rhombic dodecahedra. Stable. Practically insol in water; sol in acidic, basic media, in the range below pH 3 and above pH 9.5.

TOXICITY DATA with REFERENCE:

dns-rat:lvrl 75 mg/L EJBCAI 34,474,73
ims-man TDLo:28 µg/kg AIPTAK 218,312,75

SAFETY PROFILE: Human systemic effects by intramuscular route: leukopenia (reduced white blood cell count). An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x.

GFA000 CAS: 15879-93-3 HR: 3
 α -d-GLUCOCHLORALOSEmf: C₈H₁₁Cl₃O₆ mw: 309.54**PROP:** Needles from EtOH or Et₂O. Mp: 187°.**SYNS:** AGC □ ALFAMAT □ ANHYDROGLUCOCHLORAL □ APHOSAL □ CHLORALOSANE □ α -CHLORALOSE □ CHLOROALOSANE □ DULCITOR □ GLUCOCHLORAL □ GLUCOCHLORALOSE □ KALMETTUMSOMNIFERUM □ MONOTRICHOR-AETHYLIDEN- α -GLUCOSE (GERMAN) □ MUREX □ SOMIO □ 1,2-o-(2,2-TRICHLOROETHYLIDENE)- α -d-GLUCOFURANOSE**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:400 mg/kg 85ESA3 9,260,76
 scu-rat LDLo:200 mg/kg 27ZIAQ -,70,73
 orl-mus LD50:200 mg/kg FMCHA2 -,C68,91
 ipr-mus LD50:175 mg/kg ARZNAD 21,1727,71
 orl-dog LD50:250 mg/kg RMVEAG 154,137,78
 ipr-dog LDLo:400 mg/kg AIPTAK 3,191,1897
 orl-cat LD50:250 mg/kg RMVEAG 154,137,78
 ipr-cat LDLo:150 mg/kg AIPTAK 3,191,1897

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion, subcutaneous, and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of Cl⁻.**GFA200 CAS: 90-80-2 HR: D**
GLUCONO- Δ -LACTONEmf: C₆H₁₀O₆ mw: 178.16**PROP:** White crystalline powder. Decomp @ 153°. Sol in water, sltly sol in alc.**SYNS:** DELTAGLUCONOLACTONE □ d-GLUCONIC Δ -LACTONE □ GLUCONOLACTONE**TOXICITY DATA with REFERENCE:**

uns-mic-uns 5 mmol/L AMICCW 109,157,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**GFC000 CAS: 124-99-2 HR: 3**
GLUCOPROSCILLARIDIN Amf: C₃₆H₅₂O₁₃ mw: 692.88**PROP:** Crystals from EtOH. Mp: 270°.**SYNS:** 14- β -HYDROXY-3- β -SCILLOBIOSIDOBUFFA-4,20,22-TRIENOLIDE □ SCILLAGLYKOSID A (GERMAN) □ SCILLAREN A □ SCILLARENIN-3,6-DEOXY-4-o- β -d-GLUCOPYRANOSYL- α -1-MANNOPYRANOSIDE □ SCILLAREN & RHAMNOSE & GLUCOSE (GERMAN) □ 3- β -SCILLOBIOSIDO-14- β -HYDROXY- Δ -4,20,22-BUFATRIENOLID (GERMAN) □ TRANSVAALIN**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:15 mg/kg ARZNAD 11,848,61
 ivn-cat LDLo:143 mg/kg MEIEDD 10,1208,83
 ivn-gpg LDLo:353 μ g/kg AEPPAE 252,314,66

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes.**GFC050 CAS: 3681-93-4 HR: D****8- β -d-GLUCOPYRANOSYL-APIGENIN**mf: C₂₁H₂₀O₁₀ mw: 432.41**SYNS:** APIGENIN 8-C-GLUCOSIDE □ 4H-1-BENZOPYRAN-4-ONE, 5,7-DIHYDROXY-8- β -d-GLUCOPYRANOSYL-2-(4-HYDROXYPHENYL)- □ FLAVONE, 8-d-GLUCOSYL-4',5,7-TRIHYDROXY- □ VITEXIN**TOXICITY DATA with REFERENCE:**

mnt-hmn-lym 50 mg/L MUREAV 246,205,1991
 sce-hmn-lym 50 mg/L MUREAV 246,205,1991
 sln-hmn-lym 200 mg/L MUREAV 246,205,1991
 ipr-mus LD25:1 mg/kg PLMEAA 43,396,1981

SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.**GFC100 CAS: 554-35-8 HR: 2**
2-(β -d-GLUCOPYRANOSYLOXY)ISOBUTYRONITRILEmf: C₁₀H₁₇NO₆ mw: 247.28**PROP:** Needles. Mp: 143–144°.**SYNS:** 2-(β -d-GLUCOPYRANOSYLOXY)-2-METHYLPROPANE-NITRILE □ LINAMARIN □ PHASEOLUNATIN □ PROPANE-NITRILE, 2-(β -d-GLUCOPYRANOSYLOXY)-2-METHYL-**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:500 mg/kg TXAPA9 42,539,77

SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.**GFC200 CAS: 520-14-9 HR: 1**
3'-(GLUCOPYRANOSYLOXY)-3,4',5,5',7-PENTAHYDROXYFLAVONEmf: C₂₁H₂₀O₁₃ mw: 480.41**SYNS:** 4H-1-BENZOPYRAN-4-ONE, 2-(3-(β -d-GLUCOPYRANOSYLOXY)-4,5-DIHYDROXYPHENYL)-3,5,7-TRIHYDROXY- □ CANNABISCITRIN (8CI) □ FLAVONE, 3'-(GLUCOPYRANOSYLOXY)-3,4',5,5',7-PENTAHYDROXY- □ MYRICETIN 3'-GLUCOSIDE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:2 g/kg RPTOAN 48,143,85

SAFETY PROFILE: Low toxicity by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.**GFG000 CAS: 50-99-7 HR: 2**
d-GLUCOSEmf: C₆H₁₂O₆ mw: 180.18CHO(CHOH)₄CH₂OH**PROP:** Colorless crystals or white crystalline or granular powder; odorless with sweet taste. D: 1.544, mp: 146°. Sol in water; sltly sol in alc. α Form: (monohydrate) crystals from water. Mp: 83°. α Form: (anhydrous) crystals from hot ethanol or water. Mp: 146°. Very sparingly sol in abs alc, ether, acetone; sol in hot glacial acetic acid, pyridine, aniline. β Form: crystals from hot H₂O + ethanol, from dil acetic acid, or from pyridine; mp: 148–155°.**SYNS:** CARTOSE □ CEREOSE □ CORN SUGAR □ DEXTROPUR □ DEXTROSE (FCC) □ DEXTROSE, anhydrous □ DEXTROSOL □ GLUCOLIN □ GLUCOSE □ d-GLUCOSE, anhydrous □ GLUCOSE LIQUID □ GRAPE SUGAR □ SIRUP**TOXICITY DATA with REFERENCE:**

mmo-sat 25 mg/plate NARHAD 12,2127,84

oms-omi 1 mol/L ARMKA7 91,305,73
 orl-rat LD50:25,800 mg/kg 85AIAL -,39,73
 ipr-mus LDLo:18 g/kg PSEBAA 35,98,36
 ivn-mus LD50:9 g/kg ARZNAD 18,666,68
 orl-dog LDLo:8000 mg/kg HBTXAC 1,150,55
 orl-rbt LDLo:20,000 mg/kg HBTXAC 1,150,55
 ivn-rbt LDLo:12,000 mg/kg HBTXAC 1,150,55

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

SAFETY PROFILE: Mildly toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Potentially explosive reaction with potassium nitrate + sodium peroxide when heated in a sealed container. Mixtures with alkali release carbon monoxide when heated. When heated to decomposition it emits acrid smoke and irritating fumes.

GFG050 **CAS: 4241-73-0** **HR: D**
GLUCOSE ISOMERASE ENZYME PREPARATIONS, INSOLUBLE

SYN: INSOLUBLE GLUCOSE ISOMERASE ENZYME PREPARATIONS

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

GFG070 **CAS: 4241-73-0** **HR: 3**
GLUCOSE ISONICOTINOYLHYDRAZONE

mf: C₁₂H₁₇N₃O₆ mw: 299.32

SYNS: HYDRAZINE, 1-GLUCOSYL-2-ISONICOTINYL- □ HYDRAZINE, 2-GLUCOSYL-1-ISONICOTINYL- □ ISONICOTINIC ACID HYDRAZIDE, HYDRAZONE WITH d-GLUCOSE (7CI,8CI) □ 1-ISONICOTINYL-2-GLUCOSYLHYDRAZINE □ 4-PYRIDINECARBOXYLIC ACID, HYDRAZIDE, HYDRAZONE WITH d-GLUCOSE (9CI)

TOXICITY DATA with REFERENCE:

orl-mus LD50:1750 mg/kg YJBMAU 24,359,52
 ipr-mus LD50:400 mg/kg NTIS** AD691-490
 scu-mus LD50:>2500 mg/kg YJBMAU 24,359,52

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

GFG100 **CAS: 9001-37-0** **HR: 3**
GLUCOSE OXIDASE

PROP: Amorph powder or crystals. Freely sol in water giving yellowish-green solns.

SYNS: CORYLOPHYLINE □ DEOXIN-1 □ E.C. 1.1.3.4 □ GLUCOSE AERODEHYDROGENASE □ β-d-GLUCOSE OXIDASE □ MICROCID □ NOTATIN □ OXIDASE GLUCOSE □ PENATIN

TOXICITY DATA with REFERENCE:

ipr-mus LD50:3 mg/kg 85GDA2 4(2),302,80
 scu-mus LD50:4500 µg/kg 85GDA2 4(2),302,80
 ivn-mus LD50:13 mg/kg BJPCAL 1,225,46
 scu-rbt LD50:7500 µg/kg BJPCAL 1,225,46

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GFG150 **CAS: 56-73-5** **HR: D**
d-GLUCOSE 6-PHOSPHATE

mf: C₆H₁₃O₉P mw: 260.16

SYNS: d-GLUCOSE, 6-(DIHYDROGEN PHOSPHATE) □ GLUCOSE-6-PHOSPHATE □ ROBISON ESTER

TOXICITY DATA with REFERENCE:

dnd-uns 10 mmol/L PNASA6 81,105,1984

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GFG200 **HR: 1**
GLUCOSE-RINGER'S SOLUTION (23.3%)

PROP: Consists of Ringer's solution containing 93.2 g/400 mL glucose (TYKEDH 16,320,85).

SYNS: GR-23 □ RINGER'S GLUCOSE SOLUTION

TOXICITY DATA with REFERENCE:

ipr-rat LD50:53,300 mg/kg TYKEDH 16,320,85
 ivn-rat LD50:57,200 mg/kg TYKEDH 16,320,85
 ivn-rbt LDLo:50 g/kg TYKEDH 16,320,85

SAFETY PROFILE: Very mildly toxic by intravenous and intraperitoneal routes.

GFG205 **HR: 1**
GLUCOSE-RINGER'S SOLUTION (29.2%)

PROP: Consists of Ringer's solution containing 116.8 g/400 mL glucose (TYKEDH 16,328,85).

SYN: GR-29

TOXICITY DATA with REFERENCE:

ipr-rat LD50:41,500 mg/kg TYKEDH 16,328,85
 ivn-rat LD50:38,700 mg/kg TYKEDH 16,328,85
 ivn-rbt LDLo:45 g/kg TYKEDH 16,328,85

SAFETY PROFILE: Very mildly toxic by intravenous and intraperitoneal routes.

GFK000 **CAS: 20408-97-3** **HR: 1**
α-d-GLUCOTHIOPYRANOSE

mf: C₆H₁₂O₅S mw: 196.24

SYNS: 5-THIO-α-d-GLUCOPYRANOSE □ 5-THIO-d-GLUCOSE

TOXICITY DATA with REFERENCE:

spm-mus-ori 1400 mg/kg/35D JOHEA8 70,325,79
 spm-mus-ipr 840 mg/kg/21D-C JOHEA8 72,347,81
 ipr-mus LDLo:5500 mg/kg IOBPD3 8,589,82

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Mildly toxic by intraperitoneal route. Mutation data reported. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of SO_x.

GFM000 **CAS: 32449-92-6** **HR: 2**
GLUCURONIC ACID LACTONE

mf: C₆H₈O₆ mw: 176.14

PROP: Crystals from ethanol. Mp: 176–178° (commercial grades, mp: 172°), d: 1.76. Sol in water; sltly sol in ethanol; very sltly sol in abs ethanol in glacial acetic acid.

SYNS: DICURONE □ GLUCOXY □ GLUCURON □ GLUCURONE □ GLUCURONIC ACID-γ-LACTONE □ d-GLUCURONIC ACID LACTONE □ d-GLUCURONIC ACID-γ-

LACTONE □ GLUCURONOLACTONE □ d-GLUCURONOL-
ACTONE □ GLUCURONOSAN □ GLYCURONE □ GURONSAN
□ REULATT S.S.

TOXICITY DATA with REFERENCE:

orl-rat LD50:10,700 mg/kg NIIRDN 6,225,82
scu-rat LD50:4700 mg/kg NIIRDN 6,225,82
ivn-rat LD50:3200 mg/kg NIIRDN 6,225,82
ipr-mus LD50:5797 mg/kg NIIRDN 6,225,82
scu-dog LD50:4700 mg/kg NIIRDN 6,225,82
ivn-dog LD50:940 mg/kg NIIRDN 6,225,82
scu-rbt LD50:4700 mg/kg NIIRDN 6,225,82
ivn-rbt LD50:940 mg/kg NIIRDN 6,225,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intravenous route. Mildly toxic by ingestion and subcutaneous routes. When heated to decomposition it emits acrid smoke and irritating fumes.

GFM200 CAS: 1492-02-0 HR: 3
GLUDIASE

mf: C₁₂H₁₅N₃O₂S₂ mw: 297.42

PROP: Needles. Mp: 163°.

SYNS: AN 1324 □ 2-BENZENESULFONAMIDO-5-tert-BUTYL-1,3,4-THIADIAZOLE □ 2-BENZENESULFONAMIDO-5-TERTIOBUTYL-1-THIA-3,4-DIAZOLE □ N-(5-tert-BUTYL-1,3,4-THIADIAZOL-2-YL)BENZENESULFONAMIDE □ DESAGLYBUZOLE □ GLYBUZOLE □ RP 7891 □ TH-1395

TOXICITY DATA with REFERENCE:

orl-rat LD50:500 mg/kg YIKUAO 18,21,69
ipr-rat LD50:219 mg/kg YIKUAO 18,21,69
scu-rat LD50:310 mg/kg YIKUAO 18,21,69
orl-mus LD50:730 mg/kg YIKUAO 18,21,69
ipr-mus LD50:235 mg/kg YIKUAO 18,21,69
scu-mus LD50:248 mg/kg YIKUAO 18,21,69
ivn-mus LD50:193 mg/kg YIKUAO 18,21,69
orl-rbt LD50:967 mg/kg YIKUAO 18,21,69
ipr-rbt LD50:300 mg/kg YIKUAO 18,21,69
ivn-rbt LD50:118 mg/kg YIKUAO 18,21,69

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

GFM222 CAS: 53369-07-6 HR: 2
GLUFOSINATE

mf: C₅H₁₂NO₄P mw: 181.13

SYN: BUTANOIC ACID, 2-AMINO-4-(HYDROXYMETHYL-PHOSPHINYL)-, (+)-

TOXICITY DATA with REFERENCE:

orl-rat TDLo:1600 mg/kg HBPTO* 1,154,2001

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

GFM250 CAS: 107638-88-0 HR: 3
GLUTACID

mf: C₁₁H₈N₄O₄•C₄H₇Cl₄N mw: 471.15

SYN: PENTANEDINITRILE, 2,4-DINITRO-3-PHENYL-, compounded with 2,2-DICHLORO-N-(2,2-DICHLOROETHYL) ETHANAMINE (1:1)

TOXICITY DATA with REFERENCE:

orl-mus LD50:520 mg/kg FMTYA2 36(5),35,86

ipr-mus LD50:315 mg/kg FMTYA2 36(5),35,86

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

GFM300 CAS: 617-65-2 HR: 1
di-GLUTAMIC ACID (9CI)

mf: C₅H₉NO₄ mw: 147.15

SYNS: GLUTAMIC ACID, dl- □ (±)-GLUTAMIC ACID

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:71 mg/kg SCIEAS 163,826,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Human systemic effects by ingestion: headache. When heated to decomposition it emits toxic vapors of NO_x.

GFO000 CAS: 56-86-0 HR: 1
I-GLUTAMIC ACID

mf: C₅H₉NO₄ mw: 147.15

PROP: A nonessential amino acid present in all complete proteins. White rhombic crystals from alc (aq), or crystalline powder. Mp (dl form): 194°, d (dl form): 1.4601 @ 20°/4°, mp (l form): 224–225°, d (l form): 1.538 @ 20°/4°. Sltly sol in water.

SYNS: α-AMINOGLUTARIC ACID □ I-2-AMINOGLUTARIC ACID □ 2-AMINOPENTANEDIOIC ACID □ 1-AMINOPROPANE-1,3-DICARBOXYLIC ACID □ GLUSATE □ GLUTACID □ GLUTAMIC ACID □ α-GLUTAMIC ACID □ d-GLUTAMIENSUR □ GLUTAMINIC ACID □ I-GLUTAMINIC ACID □ GLUTAMINOL □ GLUTATON

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:71 mg/kg:CNS SCIEAS 163,826,69

ivn-hmn TDLo:117 mg/kg:GIT AJMSA9 214,281,47

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Human systemic effects by ingestion and intravenous routes: headache and nausea or vomiting. When heated to decomposition it emits toxic fumes of NO_x.

GFM310 CAS: 25513-46-6 HR: 2
I-GLUTAMIC ACID, HOMOPOLYMER (9CI)

mf: (C₅H₉NO₄)_x

SYNS: GLUTAMIC ACID, I-, PEPTIDES □ GLUTAMIC ACID POLYMER □ α-I-GLUTAMIC ACID POLYMER □ I-GLUTAMIC ACID POLYMER □ POLY-I-GLUTAMATE □ POLYGLUTAMIC ACID □ POLY(α-I-GLUTAMIC ACID) □ POLY(I-GLUTAMIC ACID) □ I-γ-POLYGLUTAMIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:6 g/kg GWXXBX #2636091

ivn-rat LD50:2050 mg/kg GWXXBX #2636091

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

GFO025 CAS: 138-15-8 HR: D
I-GLUTAMIC ACID HYDROCHLORIDE

mf: C₅H₉NO₄HCL mw: 183.59

PROP: White crystals or crystalline powder. Sol in water; insol in alc, ether.

SYNS: α -AMINOGLUTARIC ACID HYDROCHLORIDE \square 1-AMINOGLUTARIC ACID HYDROCHLORIDE \square 2-AMINO-PENTANEDIOIC ACID HYDROCHLORIDE \square 1-AMINOPROP-ANE-1,3-DICARBOXYLIC ACID HYDROCHLORIDE \square GLU-TAMIC ACID HYDROCHLORIDE \square α -GLUTAMIC ACID HYDROCHLORIDE \square GLUTAMINIC ACID HYDROCHLORIDE \square 1-GLUTAMINIC ACID HYDROCHLORIDE

SAFETY PROFILE: When heated to decomposition it emits toxic fumes of NO_x and Cl^- .

GFO050 CAS: 56-85-9 HR: 1
GLUTAMINE

mf: $\text{C}_5\text{H}_{10}\text{N}_2\text{O}_3$ mw: 146.17

PROP: l-Form (natural): Fine opaque needles from water or dil ethanol. Decomp at $185-186^\circ$. Sol in water; practically insol in methanol, ethanol, ether, benzene, acetone, ethyl acetate, chloroform. dl-Form: prisms from dil acetone. Mp: $185-186^\circ$.

SYNS: 2-AMINOGLUTARAMIC ACID \square 1-2-AMINO-GLUTARAMIDIC ACID \square CEBROGEN \square GLUMIN \square GLUTAMIC ACID AMIDE \square GLUTAMIC ACID-5-AMIDE \square γ -GLUTAMINE \square 1-GLUTAMINE (9CI, FCC) \square LEVOGLUTAMID \square LEVOGLUTAMIDE \square STIMULINA

TOXICITY DATA with REFERENCE:

orl-man TDLo:27 mg/kg/1W-I:BAH AJPASO 141,1302,84

orl-rat LD50:7500 mg/kg NIIRDN 6,228,82

orl-mus LD50:21,700 mg/kg NIIRDN 6,228,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GFO070 CAS: 9001-47-2 HR: 3
GLUTAMINE AMINOHYDROLASE

PROP: Solid.

SYNS: E.C. 3.5.1.2 \square GLUTAMINASE, 1- \square 1-GLUTAMINASE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:320 iu/kg POKLA8 9,75,81

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

GFO072 CAS: 118359-59-4 HR: 3
7-N-((2-((2-(R-1-GLUTAMYLAMINO)ETHYL)-DITHIO)ETHYL))MITOMYCIN C

mf: $\text{C}_{24}\text{H}_{34}\text{N}_6\text{O}_8\text{S}_2$ mw: 598.76

SYNS: 7-N-(2-((2-(γ -1-GLUTAMYLAMINO)ETHYL)DITHIO)-ETHYL)MITOMYCIN C \square 1-GLUTAMINE, N-(2-((2-(((AMINOCARBONYL)OXY)METHYL)-1,1A,2,4,7,8,8A,8B-OCTAHYDRO-8A-METHOXY-5-METHYL-4,7-DIOXO-ZIRINO(2',3':3,4)PYRROLO(1,2-A)INDOL-6-YL)AMINO)ETHYL)-DITHIO)ETHYL)-, (1as-(1A- α ,8- β ,8A- α ,8B- α))- \square KT6149 \square KW 2149

TOXICITY DATA with REFERENCE:

ipr-mus LD50:22,500 $\mu\text{g}/\text{kg}$ CPBTAL 37,1128,1989

ivn-mus LD50:19,600 $\mu\text{g}/\text{kg}$ DRFUD4 14,127,1989

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

GFO075 CAS: 69644-85-5 HR: 2
N²-(γ -l-(+)-GLUTAMYL)-4-CARBOXYPHENYL-HYDRAZINE

mf: $\text{C}_{12}\text{H}_{15}\text{N}_3\text{O}_5$ mw: 281.30

SYNS: ANTHGLUTIN \square 1-GLUTAMIC ACID, 5-(2-(4-CARBOXYPHENYL)HYDRAZIDE)

TOXICITY DATA with REFERENCE:

orl-mus TDLo:72,800 mg/kg/52W-I:CAR ANTRD4 6,917,86

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

GFO080 CAS: 2757-90-6 HR: 2
 β -N-(γ -L(+)-GLUTAMYL)-4-HYDROXYMETHYL-PHENYLHYDRAZINE

mf: $\text{C}_{12}\text{H}_{17}\text{N}_3\text{O}_4$ mw: 267.32

SYNS: AGARITINE \square 1-GLUTAMIC ACID, 5-(2-(4-(HYDROXY-METHYL)PHENYL)HYDRAZIDE) (9CI) \square GLUTAMIC ACID, 5-(2-(α -HYDROXY-p-TOLYL)HYDRAZIDE), 1- \square 1-GLUTAMIC ACID, 5-(2-(α -HYDROXY-PARA-TOLYL)HYDRAZIDE) \square NCI-C08899

TOXICITY DATA with REFERENCE:

mic-bac-sat 2 $\mu\text{mol}/\text{plate}$ ZLUFAR 183,85,86

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Human No Adequate Data IMEMDT 31,63,83; Animal Inadequate Evidence IMEMDT 31,63,83. NCI Carcinogenesis Studies (oral); No Evidence: mouse.

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

GFO200 CAS: 60762-50-7 HR: 2
1-(l- α -GLUTAMYL)-2-ISOPROPYLHYDRAZINE

mf: $\text{C}_8\text{H}_{17}\text{N}_3\text{O}_3$ mw: 203.28

SYN: RO 4-1385

TOXICITY DATA with REFERENCE:

orl-mus LD50:500 mg/kg 27ZQAG -,429,72

scu-mus LD50:1400 mg/kg 27ZQAG -,429,72

ivn-mus LD50:1000 mg/kg 27ZQAG -,429,72

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

GFQ000 CAS: 111-30-8 HR: 3
GLUTARALDEHYDE

mf: $\text{C}_5\text{H}_8\text{O}_2$ mw: 100.13

PROP: Oil. Bp: $71-72^\circ$ @ 10 mm.

SYNS: CIDEX \square GLUTARAL \square GLUTARALDEHYD (CZECH) \square GLUTARDIALDEHYDE \square GLUTARIC DIALDEHYDE \square NCI-C55425 \square 1,5-PENTANEDIAL \square 1,5-PENTANEDIONE \square POTENTIATED ACID GLUTARALDEHYDE \square SONACIDE

TOXICITY DATA with REFERENCE:

skn-hmn 6 mg/3D-I SEV 85DKA8 -,127,77

skn-rbt 13 mg open MLD UCDS** 1/30/70

skn-rbt 500 mg/24H SEV 28ZPAK -,42,72

eye-rbt 1 mg SEV UCDS** 1/30/70
 eye-rbt 250 µg/24H SEV 28ZPAK -,42,72
 oms-nml:oth 50 mmol/L MUREAV 148,25,85
 sce-ham:ovr 110 µg/L ENMUDM 7,1,85
 orl-rat LD50:134 mg/kg OYYAA2 19,503,80
 ipr-rat LD50:17,900 µg/kg IYKEDH 10,232,79
 scu-rat LD50:2390 mg/kg OYYAA2 19,503,80
 ivn-rat LD50:9800 µg/kg EPASR* 8EHQ-1290-1008
 orl-mus LD50:100 mg/kg OYYAA2 19,503,80
 ipr-mus LD50:13,900 µg/kg IYKEDH 10,232,79
 scu-mus LD50:1430 mg/kg OYYAA2 19,503,80
 ivn-mus LD50:15,400 µg/kg OYYAA2 19,503,80
 skn-rbt LD50:2560 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 0.2 ppm

ACGIH TLV: CL 0.05 ppm (skin, sensitizer); Not Classifiable as a Human Carcinogen

DFG MAK: 0.1 ppm (0.42 mg/m³)

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by inhalation, skin contact, and subcutaneous routes. Experimental teratogenic and reproductive effects. A severe eye and human skin irritant. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-64 or NIOSH: Glutaraldehyde 2531.

GFS000 CAS: 110-94-1 HR: 1
GLUTARIC ACID

mf: C₅H₈O₄ mw: 132.13

PROP: Colorless crystals/needles or prisms from C₆H₆ or CHCl₃. D: 1.429 @ 15°/4°, mp: 97.5°, bp: 200°. Very sol in abs alc and in ether; sol in benzene chloroform, alc, and ether. Large monoclinic prisms.

SYNS: PENTANDIOIC ACID □ PENTANEDIOIC ACID □ 1,5-PENTANEDIOIC ACID □ 1,3-PROPANEDICARBOXYLIC ACID

TOXICITY DATA with REFERENCE:

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GFU000 CAS: 108-55-4 HR: 2
GLUTARIC ANHYDRIDE

mf: C₅H₆O₃ mw: 114.11

PROP: Crystals from Et₂O. Mp: 56°, bp: 144–146° @ 13 mm, d: 0.989. Sol in benzene and toluene; highly sol in water on complete hydrolysis.

TOXICITY DATA with REFERENCE:

orl-rat LDLo:4460 mg/kg AIHAAP 23,95,62

skn-rbt LDLo:1780 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. When heated to decomposition

it emits acrid smoke and irritating fumes. See also ANHYDRIDES.

GFU200 CAS: 64624-44-8 HR: 3
GLUTARYL DIAZIDE

mf: C₅H₆N₆O₂ mw: 182.14

N₃CO•(CH₂)₃CO•N₃

SAFETY PROFILE: Explodes when heated. Upon decomposition it emits toxic fumes of NO_x. See also AZIDES.

GFW000 CAS: 70-18-8 HR: 2
GLUTATHIONE

mf: C₁₀H₁₇N₃O₆S mw: 307.36

PROP: Colorless prisms out of alc. Mp: 195° decomp in hot water; insol in abs alc, ether, and acid. Freely sol in H₂O, dil alc, liquid ammonia, and dimethylformamide.

SYNS: COPREN □ DELTATHIONE □ GLUTATHIONE (reduced) □ GLUTATIOL □ GLUTATIONE □ GLUTIDE □ GLUTINAL □ GSH □ ISETHION □ NEUTHION □ TATHIONE □ TRIPTIDE

TOXICITY DATA with REFERENCE:

mma-sat 6 mmol/L SCIEAS 220,961,83

dns-hmn:fbr 1 mmol/L CALEDQ 5,199,78

cyt-ham:ovr 1 mmol/L CALEDQ 5,199,78

sce-ham:ovr 100 µmol/L MUREAV 68,351,79

dni-mam:lym 10 mmol/L CBINA8 31,265,80

orl-mus LD50:5 g/kg 85IPAE -,93,72

ipr-mus LD50:4020 mg/kg 85IPAE -,93,72

scu-mus LD50:5 g/kg 85IPAE -,93,72

ivn-mus LD50:2238 mg/kg JJANAX 38,137,85

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

SAFETY PROFILE: Moderately toxic by intravenous route. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

GFW050 CAS: 89021-88-5 HR: D
**1-(GLUTATHION-S-YL)-1,2,3,4,4-PENTA-
 CHLORO-1,3-BUTADIENE**

mf: C₁₄H₁₆Cl₅N₃O₆S mw: 531.64

SYNS: N-(N-l-γ-GLUTAMYL-S-(1,2,3,4,4-PENTACHLORO-1,3-BUTADIENYL)-l-CYSTEINYL)GLYCINE □ GLYCINE,N-(N-l-γ-GLUTAMYL-S-(1,2,3,4,4-PENTACHLORO-1,3-BUTADIENYL)-l-CYSTEINYL)- □ PCBG □ S-(1,2,3,4,4-PENTACHLORO-BUTADIENYL)GLUTATHIONE

TOXICITY DATA with REFERENCE:

mic-sat 20 nmol/plate CRNGDP 9,907,1988

dns-dom-kdy 1 µmol/L TIVIEQ 3,151,1989

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

GFY100 CAS: 26944-48-9 HR: 2
GLUTRIL

mf: C₁₈H₂₆N₂O₄S mw: 366.52

PROP: Crystals. Mp: 192–195° (ethanol loses water).

SYNS: GLIBORNURIDE □ GLUBORID □ 1-((1R)-2-endo-HYDROXY-3-endo-BORNYL)-3-(p-TOLYLSULFONYL)UREA □ RO 6-4563 □ RO-6-4563/8

TOXICITY DATA with REFERENCE:

orl-rat LD50:18 g/kg KSRNAM 6,1925,72
 ipr-rat LD50:1360 mg/kg KSRNAM 6,1925,72
 scu-rat LD50:10,800 mg/kg KSRNAM 6,1925,72
 ipr-mus LD50:1530 mg/kg KSRNAM 6,1925,72
 scu-mus LD50:20 g/kg KSRNAM 6,1925,72

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

GFY200 CAS: 56-82-6 HR: 1
di-GLYCERALDEHYDE

mf: C₃H₆O₃ mw: 90.09

PROP: White crystalline powder. Mp: 144–145°. Sol in water.

SYNS: GLYCERALDEHYDE, (±)- □ di-GLYCERIC ALDEHYDE

TOXICITY DATA with REFERENCE:

mno-sat 100 µg/plate ABCHA6 47,2461,83
 ipr-rat LD50:2 g/kg JPPMAB 17,814,65

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by intraperitoneal route. Mutation data reported.

GGA000 CAS: 56-81-5 HR: 3
GLYCERIN

mf: C₃H₈O₃ mw: 92.11

HOCH₂CHOHCH₂OH

PROP: Colorless or pale-yellow liquid; odorless, syrupy, sweet and warm taste. Mp: 17.9 (solidifies at a much lower temp), bp: 290° (part decomp), ULC: 10–20, flash p: 320°F, d: 1.260 @ 20°/4°, autoign temp: 698°F, vap press: 0.0025 mm @ 50°, vap d: 3.17. Misc in H₂O, EtOH; insol in C₆H₆, CHCl₃, and CCl₄.

SYNS: GLYCERIN, anhydrous □ GLYCERIN, synthetic □ GLYCERINE □ GLYCERITOL □ GLYCEROL □ GLYCYL ALCOHOL □ GROCOLENE □ MOON □ 1,2,3-PROPANETRIOL □ STAR □ SUPEROL □ SYNTHETIC GLYCERIN □ 90 TECHNICAL GLYCERINE □ TRIHYDROXYPROPANE □ 1,2,3-TRIHYDROXYPROPANE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,37,72
 eye-rbt 126 mg MLD BIOFX* 9-4/70
 eye-rbt 500 mg/24H MLD 28ZPAK -,37,72
 dni-hmn:lym 200 mmol/L PNASA6 79,1171,82
 orl-hmn TDLo:1428 mg/kg:CNS,GIT 34ZIAG -,288,69
 orl-rat LD50:12,600 mg/kg FEPA7 4,142,45
 ipr-rat LD50:4420 mg/kg RCOCB8 56,125,87
 scu-rat LD50:100 mg/kg NIIRDN 6,215,82
 orl-mus LD50:4090 mg/kg FRZKAP (6),56,77
 ipr-mus LD50:8982 mg/kg ARZNAD 26,1581,76
 scu-mus LD50:91 mg/kg NIIRDN 6,215,82
 ivn-mus LD50:4250 mg/kg JAPMA8 39,583,50
 ivn-rbt LD50:53 g/kg NIIRDN 6,215,82
 orl-gpg LD50:7750 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ACGIH TLV: TWA 10 mg/m³ (vapor)

SAFETY PROFILE: Poison by subcutaneous route. Mildly toxic by ingestion. Human systemic effects by ingestion: headache and nausea or vomiting. Experimental reproductive effects. Human mutation data reported. A skin and eye irritant. In the form of mist it is a nuisance particulate and inhalation irritant.

Combustible liquid when exposed to heat, flame, or powerful oxidizers. Mixtures with hydrogen peroxide are highly explosive. Ignites on contact with potassium permanganate, calcium hypochlorite. Mixture with nitric acid + sulfuric acid forms the explosive glyceryl nitrate. Mixture with perchloric acid + lead oxide forms explosive perchlorate esters. Confined mixture with chlorine explodes if heated to 70–80°. Can react violently with acetic anhydride, aniline + nitrobenzene, Ca(OCl)₂, CrO₃, Cr₂O₃, F₂ + PbO, phosphorus triiodide, ethylene oxide + heat, KMnO₄, K₂O₂, AgClO₄, Na₂O₂, NaH. Energetic reaction with sodium hydride. Mixture with nitric acid + hydrofluoric acid is a storage hazard due to gas evolution. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Nuisance Dust, Total 0500; Nuisance Dust, Respirable, 0600.

GGA050 CAS: 17226-43-6 HR: 1
GLYCERIN 1-ISOPROPYL ETHER

mf: C₆H₁₄O₃ mw: 134.20

SYNS: GLYCEROL α-ISOPROPYL ETHER □ GLYCEROL α-MONOIISOPROPYL ETHER □ 1-ISOPROPOXY-2,3-PROPANEDIOL □ 3-ISOPROPOXY-1,2-PROPANEDIOL □ α-ISOPROPYL GLYCEROL ETHER □ 1,2-PROPANEDIOL, 3-ISOPROPOXY- □ 1,2-PROPANEDIOL, 3-(1-METHYLETHOXY)-

TOXICITY DATA with REFERENCE:

skn-rbt 510 mg/24H MLD AMIHBC 2,574,1950
 eye-rbt 102 mg AMIHBC 2,574,1950
 orl-mus LD50:8200 mg/kg FEPA7 8,477,1949
 ihl-mus LCLo:201 mg/m³ AMIHBC 2,574,1950

SAFETY PROFILE: Low toxicity by ingestion and inhalation. A mild skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

GGA100 CAS: 25395-31-7 HR: 1
GLYCEROL DIACETATE

mf: C₇H₁₂O₅ mw: 176.19

PROP: Clear viscous liquid. D: 1.180, bp: 259–261°, mp: –30°. Flash pt: 146° C. Sol in water.

SYNS: ACETIN, DI- □ DIACETIN □ DIACETYLGlycerol □ GLYCERIN DIACETATE □ GLYCERINE DIACETATE □ GLYCERYL DIACETATE □ 1,2,3-PROPANETRIOL, DIACETATE (9CI)

TOXICITY DATA with REFERENCE:

scu-rat LD50:4 g/kg PSEBAA 46,26,41
 orl-mus LD50:8500 mg/kg BCFAAI 125,401,86
 ipr-mus LD50:2300 mg/kg BCFAAI 125,401,86
 scu-mus LD50:2500 mg/kg PSEBAA 46,26,41
 ivn-dog LD50:3 g/kg 85JCAE -,667,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and other routes. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

GGA200 CAS: 623-87-0 HR: 3**GLYCEROL-1,3-DINITRATE**mf: $C_3H_6N_2O_7$ mw: 182.11**SYNS:** 1,3-DINITROGLYCERIN □ 1,3-DNG □ GLYCEROL, 1,3-DINITRATE □ 1,3-GLYCERYL DINITRATE □ 1,2,3-PROPANETRIOL, 1,3-DINITRATE (9CI)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1065 mg/kg NTIS** AD-B011-150

orl-mus LD50:676 mg/kg NTIS** AD-B011-150

DOT CLASSIFICATION: Forbidden**SAFETY PROFILE:** Moderately toxic by ingestion. An explosive forbidden for transport. When heated to decomposition it emits toxic vapors of NO_x .**GGA800 CAS: 9001-62-1 HR: 3****GLYCEROL ESTER HYDROLASE****PROP:** Light tan amorphous powder. Slightly sol in water.**SYNS:** AMANO N-AP □ BUTYRINASE □ E.C. 3.1.1.3. □ GA 56 (enzyme) □ LIPASE □ LIPAZIN □ MEITO MY 30 □ REMZYME PL 600 □ STEAPIN □ TAKEDO 1969-4-9 □ TRIACETINASE □ TRIACYLGLYCEROL HYDROLASE □ TRIACYLGLYCEROL LIPASE □ TRIBUTYRASE □ TRIBUTYRINASE □ TRIBUTYRIN ESTERASE □ TRIGLYCERIDE HYDROLASE □ TRIGLYCERIDE LIPASE □ TRIOLEIN HYDROLASE □ TWEENASE □ TWEEN ESTERASE □ TWEEN HYDROLASE**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:634 mg/kg NYKZAU 69,191,73

ipr-mus LD50:395 mg/kg NYKZAU 69,191,73

scu-mus LD50:2050 mg/kg NYKZAU 69,191,73

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. Experimental reproductive effects.**GGA850 HR: D
GLYCEROL ESTER of PARTIALLY DIMERIZED ROSIN****PROP:** Hard, pale amber-colored resin. Sol in acetone, benzene; insol in water.**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**GGA860 HR: D****GLYCEROL ESTER of PARTIALLY HYDROGENATED WOOD ROSIN****PROP:** Medium hard, pale amber resin. Sol in acetone, benzene; insol in water, alc.**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**GGA865 HR: D****GLYCEROL ESTER of POLYMERIZED ROSIN****PROP:** Hard, pale amber resin. Sol in acetone, benzene; insol in water, alc.**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**GGA870 HR: D****GLYCEROL ESTER of TALL OIL ROSIN****PROP:** Pale amber resin. Sol in acetone, benzene; insol in water.**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**GGA875 HR: D****GLYCEROL ESTER of WOOD ROSIN****PROP:** Hard, pale amber resin. Sol in acetone, benzene; insol in water.**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**GGA885 HR: D****GLYCEROL-LACTO OLEATE****SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**GGA900 HR: D****GLYCEROL-LACTO PALMITATE****SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**GGA910 HR: D****GLYCEROL-LACTO STEARATE****SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**GGA912 CAS: 25136-53-2 HR: 2****GLYCEROL MONOALLYL ETHER**mf: $C_6H_{12}O_3$ mw: 132.18**SYNS:** GLYCERIN MONOALLYL ETHER □ GLYCEROL ALLYL ETHER □ MONOALLYL GLYCERIN ETHER □ PROPANEDIOL, (ALLYLOXY)- □ PROPANEDIOL, (2-PROPENYLOXY)-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1750 mg/kg GISAAA 46(1),94,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**GGA915 CAS: 544-62-7 HR: 2****GLYCEROL MONOOCTADECYL ETHER**mf: $C_{21}H_{44}O_3$ mw: 344.65**SYNS:** BATIOL □ BATYL ALCOHOL □ MONOOCTADECYL ETHER of GLYCEROL □ α -OCTADECYLETHER of GLYCEROL □ 1-O-OCTADECYLGLYCEROL □ 3-(OCTADECYLOXY)-1,2-PROPANEDIOL □ 1,2-PROPANEDIOL, 3-(OCTADECYLOXY)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:750 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.**GGA925 CAS: 25496-72-4 HR: D****GLYCEROL MONOOLEATE****PROP:** Clear amber or pale yellow liquid. Insol in water.

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

GGA950 CAS: 538-43-2 HR: 2
GLYCEROL α -MONOPHENYL ETHER

mf: C₉H₁₂O₃ mw: 168.21

SYNS: ANTODYN □ ANTODYNE □ 1-FENOXY-2,3-PROPANDIOL □ PHENOL-GLYCERINAETHER □ PHENOL GLYCEROL ETHER □ PHENOL GLYCERYL ETHER □ 1-PHENOXY-2,3-PROPANEDIOL □ 3-PHENOXY-1,2-PROPANEDIOL □ PHENYL- α -GLYCEROL ETHER □ PHENYLGLYCERYL ETHER □ α -PHENYL MONOGLYCERYL ETHER □ 1,2-PROPANEDIOL, 3-PHENOXY- □ U 27,462

TOXICITY DATA with REFERENCE:

eye-rbt 115 mg AMIHBC 2,574,50
 orl-rat LD:>500 mg/kg NCNSA6 5,16,53
 orl-mus LD50:2650 mg/kg FEPA7 8,477,49
 ipr-mus LD50:1240 mg/kg JPETAB 93,470,48
 scu-mus LD50:920 mg/kg ARZNAD 15,1355,65
 orl-uns LD50:>5 g/kg GISAAA 39(4),86,74

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

GGG000 CAS: 96-11-7 HR: 2
GLYCEROL TRIBROMOHYDRIN

mf: C₃H₅Br₃ mw: 280.81

PROP: A liquid. Mp: 16.5°, bp: 220°, d: 2.43 @ 23°. Insol in H₂O; sol in EtOH and Et₂O.

SYNS: GLYCERYL TRIBROMOHYDRIN □ sym-TRIBROMOPROPANE □ 1,2,3-TRIBROMOPROPANE

TOXICITY DATA with REFERENCE:

mno-sat 1 μ mol/plate ENMUDM 2,59,80
 mma-sat 500 ng/plate ENMUDM 7(Suppl 3),15,85
 orl-rat LDLo:500 mg/kg MUREAV 101,321,82

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

SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of Br⁻. See also BROMIDES.

GGI000 CAS: 38571-73-2 HR: 3
GLYCEROL (TRI(CHLOROMETHYL))ETHER

mf: C₆H₁₁Cl₃O₃ mw: 237.52

SYN: TRIS-1,2,3-(CHLOROMETHOXY)PROPANE

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:910 mg/kg/76W-I:NEO CNREA8 35,2553,75

CONSENSUS REPORTS: IARC Cancer Review: Group 2A IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 15,301,77.

SAFETY PROFILE: Confirmed carcinogen with experimental neoplastigenic and tumorigenic data. When heated to decomposition it emits toxic fumes of Cl⁻. See also ETHERS.

GGK000 CAS: 621-70-5 HR: 3
GLYCEROL TRIHEXANOATE

mf: C₂₁H₃₈O₆ mw: 386.59

PROP: A liquid. Mp: -25°.

SYNS: CAPROIC TRIGLYCERIDE □ GLYCEROL TRICAPROATE □ GLYCERYL TRICAPROATE □ HEXANOIC ACID, 1,2,3-PROPANETRIYL ESTER (9CI) □ HEXANOIN, TRI-(6CI,7CI,8CI) □ TRICAPROIN □ TRICAPRONIN □ TRICAPROYL-GLYCEROL □ TRIHEXANOIN □ TRIHEXANOYLGLYCEROL

TOXICITY DATA with REFERENCE:

ivn-mus LD50:122 mg/kg APSCAX 40,338,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GGM000 CAS: 620-63-3 HR: 3
GLYCEROL TRIISOPENTANOATE

mf: C₁₈H₃₂O₆ mw: 344.50

SYN: TRIISOVALERIN

TOXICITY DATA with REFERENCE:

ivn-mus LD50:82 mg/kg APSCAX 40,338,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GGO000 CAS: 106-61-6 HR: 2
GLYCERYL ACETATE

mf: C₅H₁₀O₄ mw: 134.15

PROP: Colorless, very hygroscopic liquid; characteristic odor. D: 1.206 @ 20°/4°, bp: 158° @ 17 mm. Very sol in water and alc; sltly sol in ether; insol in benzene.

SYNS: 1-ACETATE-1,2,3-PROPANETRIOL □ ACETIC ACID, MONOGLYCERIDE □ ACETIN □ 2,3-DIHYDROXYPROPYL ACETATE □ GLYCEROL-1-ACETATE □ GLYCEROL MONOACETATE □ GLYCEROL- α -MONOACETATE □ GLYCEROL-1-MONOACETATE □ GLYCERYL MONOACETATE □ MONOACETIN □ α -MONOACETIN □ 1-MONOACETIN □ MONOACETYL GLYCERINE □ 1,2,3-PROPANETRIOL MONOACETATE

TOXICITY DATA with REFERENCE:

mno-sat 3333 μ g/plate NTPTB* JAN 82
 mma-sat 100 μ g/plate NTPTB* JAN 82
 scu-rat LD50:5500 mg/kg PSEBAA 46,26,41
 scu-mus LD50:3500 mg/kg PSEBAA 46,26,41

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

GGQ000 CAS: 136-44-7 HR: 1
GLYCERYL-*p*-AMINO BENZOATE

mf: C₁₀H₁₃NO₄ mw: 211.24

PROP: Crystals from alc/pet ether. Mp: 116-117°. Semi-solid, waxy mass or syrup. Faint aromatic odor. Liquifies and congeals very slowly. Sol in methanol, ethanol, isopropanol, glycerol, propylene glycol; insol in water, oils, fats.

SYNS: *p*-AMINO BENZOIC ACID MONOGLYCERYL ESTER □ GLYCEROL-1-*p*-AMINO BENZOATE □ MONOGLYCEROL-*p*-AMINO BENZOATE

TOXICITY DATA with REFERENCE:

skn-hmn 15 mg/3D-I MLD 85DKA8 -,127,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GGQ050 CAS: 3820-67-5 HR: 3
GLYCERYLAMINOPHENAQUINE**

mf: C₁₉H₁₇ClN₂O₄ mw: 372.83

SYNS: ADALGUR □ ALICIDON □ ANTHRANILIC ACID, N-(7-CHLORO-4-QUINOLYL)-, 2,3-DIHYDROXYPROPYL ESTER □ BENZOIC ACID, 2-[(7-CHLORO-4-QUINOLINYL)AMINO]-, 2,3-DIHYDROXYPROPYL ESTER □ 4-[(2-CARBOXYPHENYL)-AMINO]-7-CHLOROQUINOLINE α-MONOGLYCERIDE □ 4-(2'-β,γ-DIHYDROXYPROPOXYCARBONYL)PHENYLAMINO)-7-CHLOROQUINOLEINE □ 4-(2'-β,γ-DIHYDROXYPROPOXY-CARBONYLPHENYLAMINO)-7-CHLOROQUINOLINE □ DOLOMATE □ GLAFENIN □ GLAFENINE □ GLAPHENIN □ GLAPHENINE □ GLICAFAN □ GLIFAN □ GLIFANAN □ GLIFANAR □ PRIVADOL □ R 1707

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:360 mg/kg/13W-I:SYS NljMAV 27,35,1984

orl-man TDLo:11429 µg/kg:SYS NljMAV 27,35,1984

unr-wmn TDLo:120 mg/kg/10D-I:SYS,BLD THERAP 37,327,1982

orl-rat LD50:2300 mg/kg THERAP 34,377,1979

orl-mus LD50:1486 mg/kg FRPSAX 38,847,1983

ipr-mus LD50:74 g/kg YAKUD5 22,1343,1980

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. Human systemic effects. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

**GGQ100 HR: D
GLYCERYL BEHENATE**

PROP: Off white powder. Tasteless.

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

**GGR100 CAS: 50264-96-5 HR: D
β-GLYCERYL 1-p-CHLOROBENZYL-1H-INDAZ-
OLE-3-CARBOXYLATE**

mf: C₁₈H₁₇ClN₂O₄ mw: 360.82

SYNS: 1-(p-CHLOROBENZYL)-1H-INDAZOLE-3-CARBOXYLIC ACID 1,3-DIHYDROXY-2-PROPYL ESTER □ 1H-INDAZOLE-3-CARBOXYLIC ACID, 1-(p-CHLOROBENZYL)-, 1,3-DIHYDROXY-2-PROPYL ESTER

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

**GGR200 CAS: 25496-72-4 HR: 1
GLYCERYL MONOOLEATE**

mf: C₂₁H₄₀O₄ mw: 356.61

PROP: Yellow semi-solid. Mp: 86° F.

SYNS: ADCHEM GMO □ AJAX GMO □ ALDO 40 □ ALDO MO-FG □ DUR-EM 204 □ EMCOL O □ EMERY OLEIC ACID ESTER 2221 □ EMRITE 6009 □ GLYCERINE MONOOLEATE □ GLYCERIN MONOOLEATE □ GLYCEROL MONOOLEATE □ GLYCEROL OLEATE □ GLYCERYL OLEATE □ GMO 8903 □ HAROWAX L 9 □ LOXIOL G 10 □ MONOGLYCERYL OLEATE □ MONOOLEIN □ MONOOLEOYLGLYCEROL □ 9-

OCTADECENOIC ACID (Z)-, MONOESTER with 1,2,3-PROPANETRIOL (9CI) □ OLEIC ACID GLYCEROL MONOESTER □ OLEIC ACID MONOGLYCERIDE □ OLEOYLGLYCEROL □ OLEYLMONOGLYCERIDE □ OLCINE □ RIKEMAL O 71D □ RIKEMAL OL 100 □ S 1096 □ S 1097 □ SINNOESTER OGC □ S 1096R □ SUNSOFT O 30B □ SUPEOL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD JACTDZ 5(5),391,86

eye-rbt 100 mg MLD JACTDZ 5(5),391,86

CONSENSUS REPORTS: EPA TSCA Chemical Inventory, JUNE 1993

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GGR300 CAS: 30618-84-9 HR: 1
GLYCERYL MONOTHIOGLYCOLATE**

mf: C₅H₁₀O₄S mw: 166.20

SYNS: ACETIC ACID, MERCAPTO-, MONOESTER WITH 1,2,3-PROPANETRIOL □ ACETIC ACID, MERCAPTO-, MONOESTER WITH GLYCEROL □ GLYCERYL THIOGLYCOLATE □ GLYCERYL-THIOGLYCOLATE

TOXICITY DATA with REFERENCE:

skn-hmn 2%/24H JAADDB 9,739,1983

skn-hmn 2%/48H JAADDB 9,739,1983

eye-rbt 22% JACTDZ 10,135,1991

skn-rbt 17.5% JACTDZ 10,135,1991

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

**GG5000 CAS: 59-47-2 HR: 3
GLYCERYL-α-TOLYL ETHER**

mf: C₁₀H₁₄O₃ mw: 182.24

SYNS: A 1141 □ AGEFLEX CGE □ ANATENSIN □ ANXINE □ ATENSIN □ AVESYL □ AVOXYL □ BDH 312 □ CRESODIOL □ α-CRESOL GLYCERYL ETHER □ CRESSODIOL □ CRESSOSIPROPANDIOL □ CRESOXYDIOL □ CRESOXYPROPANEDIOL □ α-CRESYL-α-GLYCERYL ETHER □ CURARIL □ CURARYTHAN □ DASERD □ DASEROL □ DECONTRACTIL □ α,β-DIHYDROXY-γ-(2-METHYLPHENOXY)PROPANE □ 1,2-DIHYDROXY-3-(2-METHYLPHENOXY)PROPANE □ DILOXOL □ FINDOLAR □ GLUKRESIN □ GLYTOL □ KINAVOSYL □ α-KRESOL-GLYCERINAETHER (GERMAN) □ KRESOXYPROPANDIOL □ LISSENPHAN □ MC 2303 □ MEFENSINA □ MEPHATE □ MEPHEDAN □ MEPHELO □ MEPHENSIN □ MEPHOSAL □ MEPHSON □ 3-(2-METHYLPHENOXY)-1,2-PROPANEDIOL □ MIANESINA □ MOCTYNOL □ MYANIL □ MYCOCURAN □ MYODETENSINE □ MYOLAX □ MYOPAN □ MYOSEROL □ MYOXANE □ NEMBUSIN □ NEPHELO □ ORANIXON □ ORTOL □ PROLAX □ PROLOXIN □ RELAXANT □ RELAXAR □ RENARCOL □ REX REGULANS □ RP 3602 □ SANSOLOR □ SECONESINZ □ SINAN □ SPARTOLOXIN □ SQ 1156 □ STILALGIN □ THIOXIDIL □ TOLANSIN □ TOLCIL □ TOLOFREN □ 3-α-TOLOXY-1,2-PROPANEDIOL □ TOLSEROL □ TOLULOX □ TOLYDRIN □ 1-α-TOLYLGLYCEROL ETHER □ α-(α-TOLYL)GLYCERYL ETHER □ 3-(α-TOLYLOXY)PROPANE-1,2-DIOL □ TOLYNOL □ TOLYSPAZ □ TORULOX □ WALKO-NESIN □ XERAL

TOXICITY DATA with REFERENCE:

orl-rat LD50:625 mg/kg AIPTAK 130,280,61

ipr-rat LD50:283 mg/kg JPETAB 129,75,60
 ivn-rat LD50:133 mg/kg PSEBAA 85,323,54
 orl-mus LD50:720 mg/kg ARZNAD 17,242,67
 ipr-mus LD50:320 mg/kg NYKZAU 55,1272,59
 scu-mus LD50:285 mg/kg APTOA6 19,247,62
 ivn-mus LD50:175 mg/kg COREAF 248,3642,59
 orl-rbt LDLo:2300 mg/kg AIPTAK 89,145,52
 ivn-rbt LD50:125 mg/kg IJNEAQ 5,305,66
 orl-ham LD50:821 mg/kg JPETAB 129,75,60
 ipr-ham LD50:322 mg/kg JPETAB 129,75,60
SAFETY PROFILE: Poison by intraperitoneal, intravenous, and subcutaneous routes. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

GGG600 CAS: 139-43-5 HR: D
GLYCERYL TRI(12-ACETOXYSTEARATE)
PROP: Yellow liquid @ 25 C. Sol in oil.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

GGU000 CAS: 614-33-5 HR: 1
GLYCERYL TRIBENZOATE
 mf: C₂₄H₂₀O₆ mw: 404.44
PROP: Colorless liquid. D: 1.032, mp: <-75°, bp: 305-309°. Insol in water; sol in alc and ether.
SYNS: BENZOFLEX S-404 □ BENZOIC ACID TRIESTER with GLYCERIN □ GTB □ TRIBENZOIN
TOXICITY DATA with REFERENCE:
 orl-rat LD50:11,700 mg/kg NPIRI* 2,59,75
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

GGU400 CAS: 555-43-1 HR: D
GLYCERYL TRISTEARATE
PROP: Crystals from Et₂O or hexane. Mp: 73.5°.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

GGW000 CAS: 765-34-4 HR: 3
GLYCIDALDEHYDE
DOT: UN 2622
 mf: C₃H₄O₂ mw: 72.07
PROP: Colorless liquid. Bp: 113°, d: 1.1403 @ 20°/4°.
SYNS: EPIHYDRINALDEHYDE □ EPIHYDRINE ALDEHYDE □ 2,3-EPOXYPROPANAL □ 2,3-EPOXY-1-PROPANAL □ 2,3-EPOXYPROPIONALDEHYDE □ GLYCIDAL □ GLYCIDYLALDEHYDE □ OXIRANE-CARBOXALDEHYDE □ RCRA WASTE NUMBER U126
TOXICITY DATA with REFERENCE:
 eye-hmn 1 ppm/5M MOD AEHLAU 2,23,61
 mmo-esc 10 µg/plate ENMUDM 6(Suppl 2),1,84
 mma-esc 33,300 ng/plate ENMUDM 6(Suppl 2),1,84
 skn-rbt 100 mg/24H MOD 85JCAE -,770,86
 scu-rat TDLo:13 g/kg/77W-I:CAR JNCIAM 39,1213,67
 ihl-hmn TCLo:5 ppm:BRN,EYE,CNS 34ZIAG -,289,69
 orl-rat LDLo:50 mg/kg AJHYA2 76,209,62
 ihl-rat LCLo:251 ppm/4H 14CYAT 2,1636,63

ipr-mus LD50:200 mg/kg JJIND8 62,911,79
 skn-rbt LD50:249 mg/kg AEHLAU 2,23,61
 ivn-rbt LDLo:20 mg/kg AEHLAU 2,23,61
CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 11,175,76. EPA Genetic Toxicology Program.
DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by ingestion, skin contact, intraperitoneal, and intravenous routes. Moderately toxic by inhalation. Human systemic effects by inhalation: changes in central nervous system electrical activity, olfactory changes, and excitement. Mutation data reported. A human eye irritant. Powerful skin sensitizer and mucous membrane irritant. Flammable when exposed to heat, flame, or oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

GGW500 CAS: 556-52-5 HR: 3
GLYCIDOL
 mf: C₃H₆O₂ mw: 74.09

$$\begin{array}{c} \text{OCH}_2\text{CHCH}_2\text{OH} \end{array}$$

PROP: Colorless liquid. D: 1.165 @ 0°/4°, bp: 167° (decomp). Entirely sol in water, alc, and ether. IDLH 150 ppm.
SYNS: EPIHYDRIN ALCOHOL □ 2,3-EPOXYPROPANOL □ 2,3-EPOXY-1-PROPANOL □ 2,3-EPOXY-1-PROPANOL (OSHA) □ GLYCIDOL □ GLYCIDYL ALCOHOL □ 3-HYDROXY-1,2-EPOXYPROPANE □ METHANOL, OXIRANYL- □ NCI-C55549
TOXICITY DATA with REFERENCE:
 skn-rbt 558 mg/3D MOD AMIHAB 14,250,56
 mmo-klp 200 µmol/L MUREAV 89,269,81
 cyt-hmn:lym 400 µmol/L MUREAV 91,243,81
 orl-rat LD50:420 mg/kg FCTXAV 19,347,81
 ihl-rat LC50:580 ppm/8H AMIHAB 14,250,56
 ipr-rat LD50:200 mg/kg FCTXAV 19,347,81
 orl-mus LD50:431 mg/kg GTPZAB 24(3),42,80
 ihl-mus LC50:450 ppm/4H AMIHAB 14,250,56
 ipr-mus LDLo:500 mg/kg PSEBAA 35,98,36
 skn-rbt LD50:1980 mg/kg AMIHAB 14,250,56

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 25 ppm
ACGIH TLV: TWA 2 ppm; Animal Carcinogen
DFG MAK: 50 ppm (150 mg/m³)
SAFETY PROFILE: Confirmed carcinogen with carcinogenic data reported. Poison by intraperitoneal route. Moderately toxic by ingestion, inhalation, and skin contact. Experimental teratogenic and reproductive effects. A skin irritant. Human mutation data reported. Animal experiments suggest somewhat lower toxicity than for related epoxy compounds. Readily absorbed through the skin. Causes nervous excitation followed by depression. Explodes when heated or in the presence of strong acids, bases, metals (e.g., copper, zinc), and metal salts (e.g., aluminum chloride, iron(III) chloride, tin(IV)

chloride). When heated to decomposition it emits acrid smoke and fumes. See also DIGLYCIDYL ETHER.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Glycidol, 1608.

**GGW600 CAS: 930-37-0 HR: D
GLYCIDOL METHYL ETHER**

mf: $C_4H_8O_2$ mw: 88.12

PROP: Sol in water: $\geq 10\text{g}/100\text{ml}$ @ 20.5°

SYNS: 1,2-EPOXY-3-METHOXYPROPANE □ GLYCIDYL METHYL ETHER □ (METHOXYMETHYL)OXIRANE □ 3-METHOXYPROPYLENE OXIDE □ METHYL GLYCIDYL ETHER □ OXIRANE, (METHOXYMETHYL)-(9CI) □ PROPANE, 1,2-EPOXY-3-METHOXY-

TOXICITY DATA with REFERENCE:

mmo-sat 100 $\mu\text{g}/\text{plate}$ MUREAV 172,105,86

mma-sat 33 $\mu\text{g}/\text{plate}$ MUREAV 172,105,86

oth-esc 3300 $\mu\text{mol}/\text{L}$ MUREAV 231,205,90

mmo-klp 200 $\mu\text{mol}/\text{L}$ MUREAV 89,269,81

sce-ham:lng 1250 $\mu\text{mol}/\text{L}$ 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.

**GGW800 CAS: 2917-91-1 HR: 2
N-GLYCIDYLDIETHYL AMINE**

mf: $C_7H_{15}NO$ mw: 129.23

SYNS: 3-DIETHYLAMINO-1,2-EPOXYPROPANE □ EPI-HYDRINAMINE, N,N-DIETHYL- □ N-(2,3-EPOXYPROPYL-)DIETHYLAMINE □ GLYCIDYLDIETHYLAMINE □ PROPYLAMINE, 2,3-EPOXY-N,N-DIETHYL-

TOXICITY DATA with REFERENCE:

skn-rbt 100 $\mu\text{g}/24\text{H}$ open AIHAAP 23,95,62

skn-rbt 5 mg/24H SEV 85JCAE -,774,86

eye-rbt 1 mg MLD UCDS** 5/13/59

eye-rbt 250 $\mu\text{g}/24\text{H}$ SEV 85JCAE -,774,86

orl-rat LD50:420 mg/kg UCDS** 5/13/59

ihl-rat LCLo:2000 ppm/4H AIHAAP 23,95,62

skn-rbt LD50:790 mg/kg AIHAAP 23,95,62

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

**GGY000 CAS: 17526-74-8 HR: 2
GLYCIDYL ESTER of HEXANOIC ACID**

mf: $C_9H_{16}O_3$ mw: 172.25

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

**GGY100 CAS: 2461-15-6 HR: 1
GLYCIDYL 2-ETHYLHEXYL ETHER**

mf: $C_{11}H_{22}O_2$ mw: 186.33

PROP: Colorless liquid. Bp: 118–120°. Insol in water.

SYNS: 2-ETHYLHEXYL GLYCIDYL ETHER □ (((2-ETHYLHEXYL)OXY)METHYL)OXIRANE □ OXIRANE, (((2-ETHYLHEXYL)OXY)METHYL)-(9CI) □ PROPANE, 1,2-EPOXY-3-(2-ETHYLHEXYL)OXY)-

TOXICITY DATA with REFERENCE:

mma-sat 100 $\mu\text{g}/\text{plate}$ MUREAV 172,105,86

orl-rat LD50:7800 mg/kg 38MKAJ 2A,2210,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GGY125 CAS: 5926-90-9 HR: D
GLYCIDYL HEXYL ETHER**

mf: $C_9H_{18}O_2$ mw: 158.27

SYNS: 2,3-EPOXYPROPYLHEXYL ETHER □ HEXYL GLYCIDYL ETHER □ ((HEXYLOXY)METHYL)OXIRANE □ OXIRANE, ((HEXYLOXY)METHYL)-(9CI) □ PROPANE, 1,2-EPOXY-3-(HEXYLOXY)-

TOXICITY DATA with REFERENCE:

mmo-sat 166 $\mu\text{g}/\text{plate}$ MUREAV 172,105,86

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

**GGY150 CAS: 2451-62-9 HR: 3
GLYCIDYL ISOCYANURATE**

mf: $C_{12}H_{15}N_3O_6$ mw: 297.30

PROP: White powder or granule. No odor at room temp. Mp: 95°. Sol in water. Flash pt: 170° C.

SYNS: TGT □ s-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE, TRIS(2,3-EPOXYPROPYL)- □ s-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE, 1,3,5-TRIS(2,3-EPOXYPROPYL)- □ s-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE, 1,3,5-TRIS(OXIRANYLMETHYL)-(9CI) □ TRIGLYCIDYL ISOCYANURATE □ N,N',N"-TRIGLYCIDYL ISOCYANURATE □ 1,3,5-TRIGLYCIDYL ISOCYANURATE □ 1,3,5-TRIGLYCIDYL-ISOCYANURIC ACID □ 1,3,5-TRIGLYCIDYL-s-TRIAZINETRIONE □ TRIS(EPOXYPROPYL)ISOCYANURATE □ TRIS(2,3-EPOXYPROPYL)ISOCYANURATE

TOXICITY DATA with REFERENCE:

mmo-sat 333 $\mu\text{g}/\text{plate}$ EMMUEG 19(Suppl 21),2,92

mma-sat 2 mg/plate EMMUEG 19(Suppl 21),2,92

cyt-mus-orl 4 g/kg/5D-C EPASR* 8EHQ-0491-0490

cyt-ham:lng 1200 $\mu\text{g}/\text{L}$ MUREAV 241,175,90

ACGIH TLV: TWA 0.05 mg/ m^3

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

**GGY155 CAS: 14236-04-5 HR: D
GLYCIDYLMETHYLANILINE**

mf: $C_{10}H_{13}NO$ mw: 163.24

SYNS: ANILINE, N-(2,3-EPOXYPROPYL)-N-METHYL- □ (2,3-EPOXYPROPYL)METHYLPHENYLAMINE □ N-METHYL-N-PHENYLOXIRANEMETHANAMINE □ OXIRANEME-THANAMINE, N-METHYL-N-PHENYL-

TOXICITY DATA with REFERENCE:

mic-sat 50 $\mu\text{L}/\text{g}/\text{plate}$ MUREAV 135,159,1984

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

**GGY160 CAS: 26761-45-5 HR: 2
GLYCIDYL NEODECANOATE**

mf: $C_{13}H_{24}O_3$ mw: 228.37

PROP: Yellow liquid. Bp: 267°. Flash pt: 129° C. Insol in water.

SYNS: NEODECANOIC ACID, 2,3-EPOXYPROPYL ESTER □ NEODECANOIC ACID, OXIRANYLMETHYL ESTER (9CI)

TOXICITY DATA with REFERENCE:

mno-sat 100 µg/plate MUREAV 172,105,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GGY175 CAS: 2186-24-5 HR: D
GLYCIDYL p-TOLYL ETHER

mf: C₁₀H₁₂O₂ mw: 164.22

SYNS: p-CRESOL GLYCIDYL ETHER □ p-CRESYL GLYCIDYL ETHER □ 1,2-EPOXY-3-(p-TOLYLOXY)PROPANE □ GLYCIDYL 4-METHYLPHENYL ETHER □ ((4-METHYLPHENOXY)-METHYL)OXIRANE □ METHYLPHENYL GLYCIDYL ETHER □ OXIRANE, ((4-METHYLPHENOXY)METHYL)-(9CI) □ PROPANE, 1,2-EPOXY-3-(p-TOLYLOXY)-

TOXICITY DATA with REFERENCE:

mno-sat 66 nmol/plate MUREAV 93,297,82

mma-sat 100 µg/plate MUREAV 172,105,86

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

GGY200 CAS: 3033-77-0 HR: 3
GLYCIDYL-TRIMETHYL-AMMONIUM CHLORIDE

mf: C₆H₁₄NO•Cl mw: 151.66

PROP: Clear liquid, colorless to light yellow. Practically odorless.

SYNS: (2,3-EPOXYPROPYL)TRIMETHYLAMMONIUM CHLORIDE □ GLYTAC □ GLYTAC A 100 □ G-MAC □ OXIRANEMETHANAMINIUM, N,N,N-TRIMETHYL-, CHLORIDE (9CI) □ TRIMETHYLGlyCIDYLAMMONIUM CHLORIDE □ N,N,N-TRIMETHYLOXIRANEMETHANAMINIUM CHLORIDE

TOXICITY DATA with REFERENCE:

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

cyt-rat:lv 10 mg/L MUREAV 153,57,85

scu-mus LD50:90 mg/kg JCSOA9 -,176,47

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: Confirmed Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Suspected carcinogen. Poison by subcutaneous route. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻, NH₃, and NO_x. See also AMMONIUM CHLORIDE.

GHA000 CAS: 56-40-6 HR: 2
GLYCINE

mf: C₂H₅NO₂ mw: 75.08

PROP: White crystals from alc (aq); odorless, sweet taste. The simplest amino acid and the principal amino acid in sugar cane. Mp: 262° (decomp), d: 1.1607. Sol in water; insol in alc and ether.

SYNS: AMINOACETIC ACID □ GLYCOLIXIR □ HAMPSHIRE GLYCINE

TOXICITY DATA with REFERENCE:

sce-hmn:lym 100 mg/L MUREAV 280,279,92

orl-rat LD50:7930 mg/kg YACHDS 5,1502,77
scu-rat LD50:5200 mg/kg YACHDS 5,1502,77
ivn-rat LD50:2600 mg/kg YACHDS 5,1502,77
orl-mus LD50:4920 mg/kg YACHDS 5,1502,77
ipr-mus LD50:4450 mg/kg YACHDS 5,1502,77
scu-mus LD50:5060 mg/kg YACHDS 5,1502,77
ivn-mus LD50:2370 mg/kg YACHDS 5,1502,77
ivn-cat LDLo:3000 mg/kg JAPMA8 31,306,42

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GHA050 CAS: 107-43-7 HR: 2
GLYCINE BETAINE

mf: C₅H₁₁NO₂ mw: 117.17

PROP: Solid. Mp: >300° (decomposes).

SYNS: ABROMINE □ BETAINE □ (CARBOXYMETHYL)TRIMETHYLAMMONIUM HYDROXIDE, inner salt □ α-EARLEINE □ GLYCOCOLL BETAINE □ GLYCBETAINE □ GLYKOKOLBETAIN □ JORTAINE □ LORAMINE AMB 13 □ LYCINE □ OXYNEURINE □ RUBRINE C □ TRIMETHYLGlyCINE □ TRIMETHYLGlyCOCOLL

TOXICITY DATA with REFERENCE:

scu-mus LD50:10,800 mg/kg ABMGAI 3,28,59

ivn-mus LD50:830 mg/kg MPHEAE 16,529,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GHA100 CAS: 623-33-6 HR: 2
GLYCINE, ETHYL ESTER, HYDROCHLORIDE

mf: C₄H₉NO₂•ClH mw: 139.60

PROP: Mp: 144–147°.

SYN: USAF DO-10

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, HCl, and Cl⁻.

GHE000 CAS: 2619-97-8 HR: 3
GLYCINE NITROGEN MUSTARD

mf: C₆H₁₁Cl₂NO₂•ClH mw: 236.54

SYNS: N,N-BIS(β-CHLOROETHYL)GLYCINE HYDROCHLORIDE □ N,N-BIS(2-CHLOROETHYL)GLYCINE HYDROCHLORIDE □ GLYCINE MUSTARD □ NSC-17661

TOXICITY DATA with REFERENCE:

ice-rat LD50:113 µg/kg JPPMAB 18,760,66

ipr-rat LD50:15 mg/kg PHBUA9 2,275,54

ipr-mus LD50:9700 µg/kg NCISA* PH-43-63-1132

ivn-dog LDLo:1 mg/kg CCSUBJ 2,201,65

ivn-mky LDLo:1 mg/kg CCSUBJ 2,201,65

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

When heated to decomposition it emits very toxic fumes of Cl^- and NO_x .

GHG000 CAS: 6000-44-8 HR: 2
GLYCINE, SODIUM SALT

mf: $\text{C}_2\text{H}_4\text{NO}_2 \cdot \text{Na}$ mw: 97.06

PROP: Solid wit trace of ammonia odor. Mp: 197–201°. Sol in methanol.

TOXICITY DATA with REFERENCE:

ivn-mus LD50:564 mg/kg RPOBAR 2,292,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and Na_2O . See also GLYCINE.

GHI000 CAS: 540-61-4 HR: D
GLYCINONITRILE

mf: $\text{C}_2\text{H}_4\text{N}_2$ mw: 56.08

PROP: A liquid. Bp: 58° @ 15 mm (part decomp).

SYNS: AMINOACETONITRILE □ CYANOMETHYLAMINE □ GLYCINE NITRILE

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

SAFETY PROFILE: Experimental teratogenic effects. When heated to decomposition it emits very toxic fumes of NO_x and CN^- . See also NITRILES.

GHI100 CAS: 6011-14-9 HR: D
GLYCINONITRILE HYDROCHLORIDE

mf: $\text{C}_2\text{H}_4\text{N}_2 \cdot \text{ClH}$ mw: 92.54

PROP: A solid. Mp: 165° (decomp). Sltly sol in EtOH and Et_2O .

SYNS: ACETONITRILE, AMINO-, MONOHYDROCHLORIDE (9CI) □ AMINOACETONITRILE HYDROCHLORIDE □ GLYCINONITRILE, MONOHYDROCHLORIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GHK000 CAS: 6000-43-7 HR: 2
GLYCOCOIL HYDROCHLORIDE

mf: $\text{C}_2\text{H}_5\text{NO}_2 \cdot \text{ClH}$ mw: 111.54

PROP: White crystalline powder. Mp: 182°. Sltly sol in water.

SYN: GLYCOHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:3340 mg/kg JPMSAE 62,49,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GHK200 CAS: 3459-20-9 HR: 2
GLYCODIAZINE SODIUM SALT

mf: $\text{C}_{13}\text{H}_{14}\text{N}_3\text{O}_4\text{S} \cdot \text{Na}$ mw: 331.35

PROP: A solid. Mp: 221–222° (sesquihydrate mp: 86°).

SYNS: 2-BENZENESULFONAMIDO-5-(β-METHOXYETHOXY)-PYRIMIDINE SODIUM SALT □ GLYCONORMAL □ GLYMID-INE SODIUM SALT □ GONDAFON □ LYCANOL □ N-(5-(2-METHOXYETHOXY)-2-PYRIMIDINYL)BENZENE-SULFONAMIDE SODIUM SALT □ REDUL □ SH 717

TOXICITY DATA with REFERENCE:

orl-rat LD50:2850 mg/kg ARZNAD 14,377,64

ipr-rat LD50:3120 mg/kg NIIRDN 6,221,82

scu-rat LD50:2800 mg/kg NIIRDN 6,221,82

ivn-rat LD50:2000 mg/kg ARZNAD 14,377,64

orl-mus LD50:5300 mg/kg ARZNAD 14,377,64

ipr-mus LD50:3210 mg/kg NIIRDN 6,221,82

scu-mus LD50:3340 mg/kg NIIRDN 6,221,82

ivn-mus LD50:1480 mg/kg ARZNAD 14,377,64

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

GHK300 CAS: 9005-79-2 HR: D
GLYCOGEN

PROP: Off-white odorless powder. Mp: 245°. Sol in water.

SYNS: ANIMAL STARCH □ LIVER STARCH □ LYOGLYCOGEN □ PHYTOGLYCOGEN

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GHK500 CAS: 4746-61-6 HR: 2
GLYCOLANILIDE

mf: $\text{C}_8\text{H}_9\text{NO}_2$ mw: 151.18

SYN: 2-HYDROXY-N-PHENYLACETAMIDE

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:14,286 µg/kg:PUL JAPMA8 35,50,46

orl-rat LD50:1700 mg/kg JAPMA8 35,50,46

orl-mus LD50:2300 mg/kg JAPMA8 35,50,46

SAFETY PROFILE: Moderately toxic by ingestion. Human systemic effects by ingestion: cyanosis. When heated to decomposition it emits toxic fumes of NO_x .

GHM000 CAS: 96-49-1 HR: 2
GLYCOL CARBONATE

mf: $\text{C}_3\text{H}_4\text{O}_3$ mw: 88.07

PROP: Colorless liquid or crystalline solid. Needles from Et_2O . Mp: 38.5–39°, fp: 35.7°, bp: 244° @ 740 mm, flash p: 290°F (OC), d: 1.322 @ 40°/20°, vap press: 0.01 mm @ 20°, vap d: 3.04.

SYNS: CARBONIC ACID, CYCLIC ETHYLENE ESTER □ CYCLIC ETHYLENE CARBONATE □ 1,3-DIOXOLAN-2-ONE □ DIOXOLONE-2 □ ETHYLENE CARBONATE □ ETHYLENE CARBONIC ACID □ ETHYLENE GLYCOL CARBONATE □ ETHYLENE GLYCOL, CYCLIC CARBONATE

TOXICITY DATA with REFERENCE:

skn-rbt 660 mg open MLD UCDS** 7/21/71

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

eye-rbt 100 mg MOD 34ZIAG -,255,69

orl-rat LD50:10 g/kg UCDS** 7/21/71

ipr-mus LDLo:500 mg/kg CBCCT* 5,338,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. A skin and eye irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

GHN000

HR: 3

GLYCOL ETHERS

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

SAFETY PROFILE: The acute toxic effects of ethylene glycol monomethyl ether (2-methoxyethanol or 2ME) in humans are irritation of the eyes, nose and throat; drowsiness; weakness; and shaking. Ingestion of 2ME may be fatal. Prolonged or repeated exposures may cause headache, drowsiness, weakness, fatigue, staggering, personality change, and decreased mental ability. Exposed workers have suffered encephalopathy (degenerative brain disease), bone marrow depression and pancytopenia (reduced levels of all blood cells). 2ME and cellosolve (2-ethoxyethanol or 2EE) have the potential to cause adverse reproductive effects in male and female workers. They have been shown to cause embryotoxicity and other reproductive effects in several species of animals exposed by different routes of administration. The exposure of pregnant animals to concentrations of 2ME or 2EE at or below their OSHA permissible exposure limits led to increased incidences of embryonic death, teratogenesis, or growth retardation. Exposure of male animals resulted in testicular atrophy and sterility. They can be absorbed through the skin. Structurally related glycol ethers are 2-methoxyethyl acetate; 2-ethoxyethyl acetate; 2-butoxyethanol; 2-phenoxyethanol; ethylene glycol dimethyl ether; bis(2-methoxyethyl)ether; 2-(2-ethoxyethoxy)ethanol; 1-methoxy-2-propanol; propylene glycol monomethyl ether. Although there is limited experimental information on the reproductive effects of these individual compounds, much of the information that is available is consistent with the reproductive effects caused by 2ME and 2EE. The acetate esters of 2ME and 2EE (2MEA and 2EEA) have caused male reproductive toxicity equivalent to that of 2ME and 2EEK in male mice. 2EEA appears to have fetotoxicity and teratogenicity equivalent to that of 2EE. Flammable or combustible when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition they emit acrid smoke and fumes.

GHO000

CAS: 79-14-1

HR: 2

GLYCOLIC ACID

mf: C₂H₄O₃ mw: 76.06

PROP: Rhombic leaflets from ether; needles from water. Odorless. Bp: decomp, mp (α): 63°, mp (β): 79°. Sol in H₂O, methanol, alc, acetone, acetic acid, ether.

SYNS: HYDROXYACETIC ACID □ HYDROXYETHANOIC ACID

TOXICITY DATA with REFERENCE:

eye-rbt 2 mg SEV AJOPAA 29,1363,46

orl-rat LD50:1950 mg/kg JIHTAB 23,259,41

orl-gpg LD50:1920 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GHO100

CAS: 141-46-8

HR: 3

GLYCOLIC ALDEHYDE

mf: C₂H₄O₂ mw: 60.06

SYNS: ACETALDEHYDE, HYDROXY- □ DIOSE □ GLYCOL-ALDEHYDE □ METHYLOL FORMALDEHYDE □ HYDROXYACETALDEHYDE □ MONOMETHYLOL-FORMALDEHYDE

TOXICITY DATA with REFERENCE:

mic-sat 12500 nmol/plate JCROD7 111,149,1986

mrc-orl-uns-dmg 125 mmol/L CRNGDP 17,1083,1996

dnd-hmn-lym 5 mmol/L MUREAV 304,229,1994

orl-rat LDLo:3 g/kg AJCPAI 45,46,1966

ipr-rat LD50:280 mg/kg TXAPA9 71,84,1983

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

GHQ000

CAS: 5847-48-3

HR: 3

(GLYCOLOYLOXY)TRIBUTYLSTANNANE

mf: C₁₄H₃₀O₃Sn mw: 365.13

SYNS: TRIBUTYL(GLYCOLOYLOXY)STANNANE □ TRIBUTYL(GLYCOLOYLOXY)TIN

TOXICITY DATA with REFERENCE:

orl-mus LDLo:470 mg/kg AECTCV 14,111,85

ivn-mus LD50:18 mg/kg CSLNX* NX#03601

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. Moderately toxic by ingestion. Tributyl tin compounds are extremely toxic to marine life. When heated to decomposition it emits acrid smoke and irritating fumes. See also TIN COMPOUNDS.

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

GHR609

CAS: 631-27-6

HR: 2

GLYCOLPYRAMIDE

mf: C₁₁H₁₄ClN₃O₃S mw: 303.79

PROP: Plates from EtOH (aq). Mp: 199–201°.

SYNS: 4-CHLORO-N-((1-PYRROLIDINYLAMINO)CARBONYL)BENZENESULFONAMIDE (9CI) □ CPBU 7 □ DEAMELIN S

TOXICITY DATA with REFERENCE:

orl-rat LD50:4100 mg/kg KSRNAM 11,1605,77

ipr-rat LD50:1620 mg/kg KSRNAM 11,1605,77

orl-mus LD50:8910 mg/kg KSRNAM 11,1605,77

ipr-mus LD50:1600 mg/kg KSRNAM 11,1605,77

scu-mus LD50:5500 mg/kg KSRNAM 11,1605,77

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion.

Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^- , NO_x , and SO_x .

GHS000 CAS: 9036-19-5 HR: 3
GLYCOLS, POLYETHYLENE, MONO((1,1,3,3-TETRAMETHYLBUTYL)PHENYL) ETHER

mf: $(\text{C}_2\text{H}_4\text{O})_n \text{C}_{14}\text{H}_{22}\text{O}$

SYNS: CHARGER E □ ETHOXYLATED OCTYL PHENOL □ ETHYLAN CP □ IGEPA CA □ NEUTRONYX 622 □ NONIDET P40 □ NONION HS 206 □ OCTYLPHENOXYPOLY(ETHOXY-ETHANOL) □ *tert*-OCTYLPHENOXYPOLY(ETHOXYETHANOL) □ OCTYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL □ *tert*-OCTYLPHENOXYPOLY(OXYETHYLENE)ETHANOL □ OP 1062 □ POLYETHYLENE GLYCOL MONO(OCTYLPHENYL) ETHER □ POLYETHYLENE GLYCOL OCTYLPHENYL ETHER □ POLY(ETHYLENE OXIDE)OCTYLPHENYL ETHER □ POLYOXYETHYLENE MONOOCTYLPHENYL ETHER □ POLY(OXYETHYLENE)OCTYLPHENOL ETHER □ SECOPAL OP 20 □ SYNPERONIC OP □ T 45 (POLYGLYCOL) □ α -((1,1,3,3-TETRAMETHYLBUTYL)PHENYL)- ω -HYDROXY-POLY(OXY-1,2-ETHANEDIYL) □ TRITON X 15

TOXICITY DATA with REFERENCE:

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

dni-hmn:lym 5 ppm ENPBBC 5,84,75

dni-mus:oth 10 ppm ENPBBC 5,84,75

orl-rat LD50:4190 mg/kg FCTOD7 22,665,84

ipr-rat LD50:770 mg/kg FCTOD7 22,665,84

orl-mus LD50:3500 mg/kg JAPMA8 38,428,49

ivn-mus LD50:70 mg/kg JAPMA8 38,428,49

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

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. Human mutation data reported. A severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

GHU000 CAS: 9008-57-5 HR: 2
GLYCOLS, POLYETHYLENE MONO(TRI-METHYLNONYL)

SYN: TERGITOL TMN-6

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg SEV UCDS** 9/12/72

orl-rat LD50:7460 mg/kg UCDS** 9/12/72

skn-rbt LD50:8480 mg/kg UCDS** 9/12/72

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

GHY000 CAS: 9038-95-3 HR: 1
GLYCOLS, POLYETHYLENE POLYPROPYLENE, MONOBUTYL ETHER (nonionic)

SYNS: TERGITOL NONIONIC XD □ TERGITOL XD (nonionic)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 9/22/64

orl-rat LD50:12 g/kg UCDS** 9/22/64

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

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

GHY100 CAS: 25190-06-1 HR: 1
GLYCOLS, POLYTETRAMETHYLENE

mf: $(\text{C}_4\text{H}_8\text{O})_n \cdot \text{H}_2\text{O}$

SYNS: B 2000 □ HIPRENE MC 532 □ POLIFURIT □ POLYBUTYLENE GLYCOL □ POLY(BUTYLENE OXIDE) □ POLYFURIT □ POLYFURIT 1000 □ POLYFURITE □ POLYMEG □ POLYMEG 600 □ POLYMEG 650 □ POLYMEG 1000 □ POLYMEG 1020 □ POLYMEG 2000 □ POLYMEG 2010 □ POLY(OXY-1,4-BUTANEDIYL), α -HYDRO- ω -HYDROXY-(9CI) □ POLY(OXYBUTYLENE) GLYCOL □ POLY(OXY-1,4-BUTYLENE) GLYCOL □ POLY(OXYTETRAMETHYLENE) □ POLY(OXYTETRAMETHYLENE)DIOL □ POLY(TETRAMETHYLENE ETHER) □ POLY(TETRAMETHYLENE ETHER)DIOL □ POLY(TETRAMETHYLENE ETHER)GLYCOL □ POLY(TETRAMETHYLENE GLYCOL) □ POLY(TETRAMETHYLENE OXIDE) □ POLY(TETRAMETHYLENE OXIDE) GLYCOL □ PTG 100 □ PTG 200 □ PTG 300 □ PTG 400 □ PTG 500 □ PTG 500P □ PTMG □ PTMG 1000 □ PTMG 2000 □ QO POLYMEG □ QO POLYMEG 1000 □ TERACOL □ TERACOL 30 □ TERACOL 650 □ TERACOL 1000 □ TERACOL 2000 □ TERATHANE □ TERATHANE 1000 □ TERATHANE 2900 □ TETRAHYDROFURAN HOMOPOLYMER SRU □ THF POLYMER, SRU

TOXICITY DATA with REFERENCE:

orl-rat LD: >10 g/kg TPKVAL 14,145,75

orl-mus LD: >10 g/kg TPKVAL 14,145,75

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

GIA000 CAS: 36734-19-7 HR: 2
GLYCOPHEN

mf: $\text{C}_{13}\text{H}_{13}\text{Cl}_2\text{N}_3\text{O}_3$ mw: 330.19

PROP: Crystals. Mp: 136°.

SYNS: CHIPCO 26019 □ 3-(3,5-DICHLOROPHENYL)-N-(1-METHYLETHYL)-2,4-DIOXO-1-IMIDAZOLIDINECARBOXAMIDE □ GLYCOPHENE □ IPRODIONE □ 1-ISOPROPYL CARBAMOYL-3-(3,5-DICHLOROPHENYL)-HYDANTOIN □ LFA 2043 □ MRC 910 □ PROMIDIONE □ ROP 500 F □ ROVRAL □ RP 26019

TOXICITY DATA with REFERENCE:

orl-rat LD50:4400 mg/kg FMCHA2 -,C132,83

orl-mus LD50:4000 mg/kg FMCHA2 -,C132,83

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

GIA050 CAS: 120720-15-2 HR: 3
GLYCOPROTEASE

SYNS: ACIDOLYSIN □ ATNASE □ BAH4 □ N-(2,4)-DINITRO-PHYLPEPTIDASE □ GENE AFG3 METALLOPROTEINASE □ METALLOENDOPEPTIDASE □ METALLOENDOPROTEASE □ METALLOPROTEASE □ METALLOPROTEINASE □ METALLOPROTEINASE FROM SNAKE VENOM BOTHROPS ASPER □ PROTEINASE, METALLO-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:370 $\mu\text{g/kg}$ TOXIA6 38,63,2000

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

GIA100 CAS: 1405-69-2 HR: D
GLYCOPROTEINS, AVIDINS

PROP: Solid.

SYNS: AVIDIN □ AVIDINS

TOXICITY DATA with REFERENCE:

orl-mus TDLo:50 mg/kg (female 1-18D post):REP
 TJADAB 30,91,1984

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

GIC000 CAS: 596-51-0 HR: 3
GLYCOPYRRONIUM BROMIDE

mf: $C_{19}H_{28}NO_3 \cdot Br$ mw: 398.39

PROP: Crystals from butanone. Mp: 193.2–194.5°.

SYNS: ASECRYL □ 1,1-DIMETHYL-3-HYDROXYPYRROLIDIN-IUM BROMIDE- α -CYCLOPENTYLMANDELATE □ GASTRODYN □ GLYCOPYRROLATE □ GLYCOPYRROLATE BROMIDE □ NODAPTON □ ROBANUL □ ROBINUL □ TARODYL □ TARODYN

TOXICITY DATA with REFERENCE:

ipr-rat LD50:196 mg/kg TXAPA9 17,361,70
 scu-rat LD50:833 mg/kg NIIRDN 6,349,82
 orl-mus LD50:570 mg/kg JMPCAS 2,523,60
 ipr-mus LD50:90 mg/kg JMPCAS 2,523,60
 scu-mus LD50:122 mg/kg YKYUA6 26,741,75
 ivn-mus LD50:15 mg/kg 29ZVAB -,55,69
 orl-rbt LD50:2360 mg/kg OYYAA2 7,627,73
 ivn-rbt LD50:29,100 μ g/kg OYYAA2 7,627,73

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

GIE000 CAS: 471-53-4 HR: 3
 α -GLICYRRHETINIC ACID

mf: $C_{30}H_{46}O_4$ mw: 470.76

PROP: Crystals from MeOH. Mp: 300–304°.

SYNS: BIOSONE □ ENOXOLONE □ 3- β -HYDROXY-11-OXOLEAN-12-EN-30-OIC ACID □ GLICYRRHETIC ACID □ 18- β -GLICYRRHETIC ACID □ GLICYRRHETIN □ GLICYRRHETINIC ACID □ 18- β -GLICYRRHETINIC ACID □ URALENIC ACID

TOXICITY DATA with REFERENCE:

ipr-mus LD50:308 mg/kg DRUGAY -,319,90
 ivn-mus LD50:56 mg/kg CSLNX* NX#02067

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 fumes.

GIE050 CAS: 1449-05-4 HR: 3
 β -GLICYRRHETINIC ACID

mf: $C_{30}H_{46}O_4$ mw: 470.76

PROP: Crystals from $CHCl_3$ /MeOH. Mp: 330–335°.

SYN: 3- β -HYDROXY-11-OXO-18- α -OLEAN-12-EN-30-OIC ACID

TOXICITY DATA with REFERENCE:

orl-mus LD50:560 mg/kg CPBTAL 28,3449,80
 ipr-mus LD50:455 mg/kg CPBTAL 28,3449,80
 ivn-mus LD50:100 mg/kg CSLNX* NX#02068

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

GIE100 CAS: 53956-04-0 HR: 2
GLICYRRHIZIC ACID, AMMONIUM SALT

mf: $C_{42}H_{63}O_{16} \cdot xH_3N$ mw: 943.33

PROP: Needles from alc (aq).

SYNS: AMMONIATED GLICYRRHIZIN □ AMMONIUM GLICYRRHIZINATE □ α -D-GLUCOPYRANOSIDURONIC ACID, (3- β ,20- β)-20-CARBOXY-11-OXO-30-NOROLEAN-12-EN-3-YL 2-O- β -D-GLUCOPYRANURONOSYL-, AMMONIATE □ MONOAMMONIUM GLICYRRHIZINATE

TOXICITY DATA with REFERENCE:

dlt-rat-orl 54,600 mg/kg/10W-C ENMUDM 8,357,86
 dlt-mus-orl 350 g/kg/10W-C NTIS** PB279-650
 orl-rat TDLo:256 mg/kg (female 7-17D post):TER
 FCTOD7 26,435,88

ipr-mus LDLo:1 g/kg YHTPAD 22,449,87

ivn-mus LD50:540 mg/kg YHTPAD 22,449,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intravenous route. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NH_3 .

GIG000 CAS: 1405-86-3 HR: 3
GLICYRRHIZINIC ACID

mf: $C_{42}H_{62}O_{16}$ mw: 823.04

PROP: Crystals from glacial acetic acid or hygroscopic powder. Mp: 220° (approx). Intensely sweet taste. Freely sol in hot water, alc; practically insol in ether. The active component of licorice (BMJOAE 1,488,77).

SYNS: GLYCYRON □ GLICYRRHETINIC ACID GLYCOSIDE □ GLICYRRHIZIC ACID □ GLICYRRHIZIC ACID (8CI) □ 18- β -GLICYRRHIZIC ACID □ GLICYRRHIZIN □ β -GLICYRRHIZIN □ LIQUORICE

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:280 mg/kg/4W:CNS,MET BMJOAE 1,488,77

orl-rat LDLo:3 g/kg YACHDS 5,2041,77

ipr-rat LDLo:2 g/kg YACHDS 5,2041,77

orl-mus LDLo:4 g/kg YACHDS 5,2041,77

ipr-mus LDLo:1 g/kg YACHDS 5,2041,77

ivn-mus LDLo:300 mg/kg YACHDS 5,2041,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. Human systemic effects by ingestion: somnolence and changes in the metabolism of phosphorus. When heated to decomposition it emits acrid smoke and irritating fumes.

GII000 CAS: 556-22-9 HR: 2

GLYODINmf: $C_{20}H_{40}N_2 \cdot C_2H_4O_2$ mw: 368.68**PROP:** Light orange crystals. Mp: 62–68°, d: 1.035 @ 20°. The base is a soft greasy wax (mp: 94°). Insol in water, acetone, toluene; sol in isopropanol.**SYNS:** CRAG 341 □ CRAG FRUIT FUNGICIDE 341 □ EXPERIMENTAL FUNGICIDE 341 □ GLYODIN ACETATE □ GLYOXIDE □ GLYOXIDE DRY □ 2-HEPTADECYL-4,5-DIHYDRO-1H-IMIDAZOLYL MONOACETATE □ 2-HEPTADECYL GLYOXALIDINE ACETATE □ 2-HEPTADECYL-2-IMIDAZOLINE ACETATE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4600 mg/kg FMCHA2 -,C116,83

unr-mam LD50:1000 mg/kg 30ZDA9 -,416,71

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by unspecified route. Mildly toxic by ingestion. A skin, eye, and mucous membrane irritant. A fungicide which can damage the cornea. When heated to decomposition it emits toxic fumes of NO_x .**GIK000
GLYOXAL****CAS: 107-22-2****HR: 3**mf: $C_2H_2O_2$ mw: 58.04**PROP:** Yellow prisms or irregular pieces turning white on cooling. D: 1.29 @ 20°/4°. Opaque @ 10°, mp: 15°, bp: (776) 51°. The vapors are green and burn with a purple flame, n: (20.5/D) 1.3826. Sol in anhyd solvents, pH of a 40% aq soln: 2.1–2.7, d: (20/4) 1.27.**SYN:** AEROTEX GLYOXAL 40**TOXICITY DATA with REFERENCE:**

skn-rbt 258 mg open MLD UCDS** 11/12/65

orl-rat LD50:7070 mg/kg UCDS** 11/12/65

skn-rbt LD50:10 g/kg UCDS** 11/12/65

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**ACGIH TLV:** TWA 0.1 mg/m³ (sensitizer); Not Classifiable as a Human Carcinogen).**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. A skin irritant. A powerful reducing agent. May explode on contact with air. Polymerizes violently on contact with water. During storage it may spontaneously polymerize and ignite. Reacts violently with chlorosulfonic acid, ethylene imine, HNO_3 , oleum, NaOH, can cause violent reactions. Can explode during manufacture. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.**GIK050
GLYOXAL, 29.2%****CAS: 107-22-2****HR: 2****PROP:** Colorless to light yellow liquid. D: 1.27, mp: 15°, bp: 51°. Sol in water: >+100 mg/mL @ 22°.**TOXICITY DATA with REFERENCE:**

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

eye-rbt 100 µL/24H MOD NTIS** OTS0535072

orl-rat LD50:4290 mg/kg UCDS** 11/4/1971

skn-rbt LD50:10 mL/kg UCDS** 11/4/1971

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion and skin contact. A skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**GIK100
GLYOXANILIDE OXIME****CAS: 1769-41-1****HR: D**mf: $C_8H_8N_2O_2$ mw: 164.18**SYNS:** ACETAMIDE, 2-(HYDROXYIMINO)-N-PHENYL-(9CI) □ GLYOXYLANILIDE, OXIME □ GLYOXYLANILIDE, 2-OXIME □ 2-(HYDROXYIMINO)-N-PHENYLACETAMIDE □ ISONITROSO-ACETANILIDE □ 2-ISONITROSOACETANILIDE □ ISONITROSOACETYLANILINE**TOXICITY DATA with REFERENCE:**

mmo-sat 3333 µg/plate MUREAV 204,149,88

msc-mus:lyms 613 mg/L MUREAV 204,149,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .**GIO000
GLYOXIDE****CAS: 105-28-2****HR: 2**mf: $C_{20}H_{40}N_2$ mw: 308.62**SYNS:** CRAG FRUIT FUNGICIDE 34 □ GLIODIN □ GLYODIN □ GLYOXALIDIN □ 2-HEPTADECYL GLYOXALIDINE □ 2-HEPTADECYL-2-IMIDAZOLINE**TOXICITY DATA with REFERENCE:**

eye-rbt 250 µg SEV AJOPAA 29,1363,46

orl-rat LD50:3170 mg/kg WRPCA2 9,119,70

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A severe eye irritant. A fruit fungicide. When heated to decomposition it emits toxic fumes of NO_x .**GIQ000
GLYOXYLIC ACID****CAS: 298-12-4****HR: 3**mf: $C_2H_2O_3$ mw: 74.04**PROP:** In anhydrous form as monoclinic crystals from water. Very deliquescent prisms giving yellow aq soln. Mp: 104–107°. D: 1.42 @ 20°/4°, mp: 73°. Deliquesces quickly and forms a syrup on short exposure to air. Freely sol in water; insol in ether and hydrocarbons.**SYN:** KYSELINA GLYOXYLOVA**TOXICITY DATA with REFERENCE:**

mmo-sat 200 µg/plate ABCHA6 47,2461,83

ims-rat LDLo:25 mg/kg BSIBAC 36,1937,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intramuscular route. Mutation data reported. A skin, eye, and mucous membrane irritant. When heated to decomposition it emits acrid smoke and fumes.**GIQ100
GLYPHOSATE ISOPROPYLAMINE SALT****CAS: 38641-94-0****HR: 1**mf: $C_3H_9N \cdot C_3H_8NO_3P$ mw: 228.22**PROP:** Herbicide.**SYNS:** GLIFOSATO ESTRELLA □ GLYCEL □ GLYCINE, N-(PHOSPHONOMETHYL)-, COMPD. WITH 2-PROPANAMINE (1:1)

□ MONO-ISOPROPYLAMMONIOVA SUL □ MON 39 □ MON 139
 □ NITOSORG □ RATTLER □ ROUNDUP □ UTAI

TOXICITY DATA with REFERENCE:

mic-bac-sat 360 µg/plate MUREAV 300,29,93
 sce-hmn-lym 650 µmol/L MUREAV 79,53,80
 orl-rat LD50:10,537 mg/kg YKYUA6 36,387,85
 skn-rat LD50:7500 mg/kg YKYUA6 36,387,85

CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. Human mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and PO_x.

GIS000 CAS: 7440-57-5 HR: 1
GOLD

af: Au aw: 196.97

PROP: Cubic, yellow, ductile, metallic crystals. Forms red, blue, or violet colloidal suspensions. Physical properties depend on mechanical treatment. Mp: 1064.76°, bp: 2700°, d: 19.3 (liquid) 17.0 @ 1063°, vap press: 1 mm @ 1869°, hardness: (Mohs') 2.5–3.0, (Brinell's) 18.5.

SYNS: BURNISH GOLD □ C.I. 77480 □ C.I. PIGMENT METAL 3
 □ COLLOIDAL GOLD □ GOLD FLAKE □ GOLD LEAF □
 GOLD POWDER □ MAGNESIUM GOLD PURPLE □ SHELL
 GOLD

TOXICITY DATA with REFERENCE:

imp-rat TDLo:200 mg/kg:ETA NATWAY 42,75,55
 ivn-rat LDLo:58 mg/kg ZEKBAI 63,586,60

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Questionable carcinogen with experimental tumorigenic data by implantation. Can form explosive compounds with NH₃, NH₄OH + aqua regia, H₂O₂. Incompatible with mixtures containing chlorides, bromides, or iodides (if they can generate nascent halogens), some oxidizing materials (especially those containing halogens), alkali cyanides, thiocyanate solutions, and double cyanides. See also GOLD COMPOUNDS.

GIT000 CAS: 70950-00-4 HR: 3
GOLD(I) ACETYLIDE

mf: C₂Au₂ mw: 417.96

AuC≡CAu

PROP: Yellow powder. Insol in common org solvs.

SAFETY PROFILE: An unstable explosive with high shattering power. It is easily detonated by light, impact, friction or rapid heating to 83°C. See also GOLD COMPOUNDS and EXPLOSIVES.

GIW176 CAS: 13453-07-1 HR: 2
GOLD CHLORIDE

mf: AuCl₃ mw: 303.33

PROP: Claret-red crystals; mp: 254° (decomp), bp: subl at 265°, d: 3.9.

SYNS: AURIC CHLORIDE □ GOLD(III) CHLORIDE □ GOLD TRICHLORIDE

TOXICITY DATA with REFERENCE:

dns-hmn:lym 6 mg/L IAAAAM 77,459,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Experimental reproductive effects. Human mutation data reported. Reaction with ammonia or ammonium salts yields fulminating gold, a heat-, friction-, and impact-sensitive explosive similar to mercury and silver fulminates. See also GOLD COMPOUNDS and CHLORIDES. When heated to decomposition it emits toxic fumes of Cl⁻.

GIW179 HR: 1
GOLD COMPOUNDS

SAFETY PROFILE: Gold poisoning is rare. The few recorded cases of fatalities are the result of therapeutic overdose. Human systemic effects are similar to those of arsenic exposure and include: violent diarrhea, gastritis, colitis, dermatitis, blood dyscrasias, leukopenia, aganulocytosis, and aplastic anemia. The therapeutic use of gold compounds has been associated with serious effects of the kidney, liver, and other vital organs. Gold sodium thiomalate, aurothioglucose, gold thioglycoanilid, and gold sodium thiosulfate are used to treat rheumatoid arthritis and lupus erythematosus. Generally, gold compounds are poorly absorbed when ingested. Effects are usually greater by intramuscular and intravenous routes.

GIW189 CAS: 506-65-0 HR: 3
GOLD(I) CYANIDE

mf: CAuN mw: 222.98

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

PROP: Lemon-yellow crystalline powder. Stable in air. Unstable to light when moist. Sltly sol in H₂O; sol in alkali cyanide solns.

SAFETY PROFILE: Explosive reaction when heated with magnesium. When heated to decomposition it emits toxic fumes of CN⁻ and cyanogen. See also CYANIDE and GOLD COMPOUNDS.

GIW195 HR: 2
GOLDEN CHAIN

PROP: A tree which may grow to 30 feet. It blooms in masses of golden flowers, and produces bean-type seedpods.

SYNS: BEAN TREE □ LABURNUM □ LABURNUM ANAGYROIDES

SAFETY PROFILE: All parts of the plant and particularly the seeds contain the poison cytisine (related to nicotine). Ingestion of any part of the plant rapidly causes vomiting, sleepiness, poor muscular control, headache, sweating, dilated pupils, and increased heart rate. See also CYTISINE, various cytisine compounds, and NICOTINE.

GIW200 HR: 3
GOLDEN DEWDROP

PROP: A large shrub commonly cultivated as a hedge. It produces small light blue or white flowers and masses of orange berries. It grows wild in southern Florida and southern Texas of the United States, and the West Indies.

SYNS: AZOTA CABALLO □ BOIS JAMBETTE (HAITI) □ CUENTAS de ORO (PUERTO RICO) □ DURANTA REPENS □ GARBANCILLO (CUBA) □ MAIS BOUILLI (HAITI) □ PIGEON BERRY □ SKY FLOWER □ VELO de NOVIA (MEXICO)

SAFETY PROFILE: The berries contain poisonous saponins. Ingestion of the berries can cause sleepiness, fever, increased heart rate, and convulsions. See also SAPONIN.

GIW300 GOLDEN SHOWER

HR: 2

PROP: A tropical tree (up to 30 feet tall) with long leaves composed of 4 to 8 pairs of 2- to 6-inch long leaflets. It produces large numbers of gold flowers on drooping racemes. The fruit is in the form of a long, thin pod holding up to 100 flat seeds embedded in a sticky matrix. The tree is cultivated in the United States in south Florida, the southern coast of California, and Hawaii, and the West Indies. Related species are found in the West Indies, Hawaii, and Guam.

SYNS: CANAFISTOLA (CUBA) □ CASSE (HAITI) □ CASSIA FISTULA □ GOLDEN RAIN □ INDIAN LABURNUM □ PUDDING-PIPE TREE □ PURGING FISTULA

SAFETY PROFILE: The sticky pulp of the seeds, and to a lesser extent the leaves and bark, contains toxic emodin glycosides. Human systemic effects by ingestion include nausea, vomiting, abdominal cramps, dizziness, and diarrhea. Emodin also causes a harmless discoloration of the urine.

GIX300 GOLD(III) HYDROXIDE-AMMONIA

HR: 3

mf: $2\text{AuH}_3\text{O}_3 \cdot 3\text{H}_3\text{N}$ mw: 547.07

SAFETY PROFILE: A sensitive explosive. Heating in water forms the more explosive $\text{Au}_2\text{O}_3 \cdot 2\text{NH}_3$. Dry heating first forms the explosives $\text{Au}_2\text{O}_3 \cdot 3\text{NH}_3$ and $\text{Au}_2\text{O} \cdot 4\text{NH}_3$. When heated to decomposition it emits toxic fumes of NH_3 . See also GOLD COMPOUNDS and EXPLOSIVES.

GIX350 CAS: 9078-78-8 GOLD KERATINATE

HR: 1

SYN: AURO-DETOXIN

TOXICITY DATA with REFERENCE:

par-hmn LDLo: 48 mg/kg/5W-I AMSVAZ 141(1), 27, 1951

SAFETY PROFILE: Toxic to humans by parenteral route. Human systemic effects: hemorrhage, thrombocytopenia. When heated to decomposition it emits acrid smoke and irritating vapors.

GIY000 GOLD NITRIDE AMMONIA

HR: 3

mf: $\text{Au}_3\text{N} \cdot \text{NH}_3$ mw: 621.94

SAFETY PROFILE: An unstable explosive. When heated to decomposition it emits toxic fumes of NO_x and NH_3 . See also GOLD COMPOUNDS and NITRIDES.

GIY300 GOLD(I) NITRIDE-AMMONIA

HR: 3

mf: $\text{Au}_2\text{N}_3 \cdot \text{H}_3\text{N}$ mw: 452.98

SAFETY PROFILE: An explosive. Upon decomposition it emits toxic fumes of NO_x and NH_3 . See also NITRIDES, EXPLOSIVES, and other gold compounds.

GIZ000 GOLD(III) NITRIDE TRIHYDRATE

HR: 3

mf: $\text{Au}_3\text{N}_2 \cdot 3\text{H}_2\text{O}$ mw: 672.96

SAFETY PROFILE: Very explosive when dry. When heated to decomposition it emits toxic fumes of NO_x . See also NITRIDES, EXPLOSIVES, and GOLD COMPOUNDS.

GIZ100 CAS: 15189-51-2 GOLD SODIUM CHLORIDE

HR: 3

mf: $\text{AuCl}_4 \cdot \text{Na}$ mw: 361.76

SYNS: AURATE(1-), TETRACHLORO-, SODIUM □ AURATE(1-), TETRACHLORO-, SODIUM, (SP-4-1)-(9CI) □ GOLD CHLORIDE SODIUM □ HYDROCHLOROAUROIC ACID, SODIUM SALT □ SODIUM CHLOROAUROATE □ SODIUM GOLD CHLORIDE □ SODIUM TETRACHLOROAUROATE □ SODIUM TETRACHLORO-AURATE(1-) □ SODIUM TETRACHLOROAUROATE(3+) □ TETRACHLOROAUROIC(3+) ACID, SODIUM SALT

TOXICITY DATA with REFERENCE:

ipr-mus LD50: 72 mg/kg TXAPA9 63,461,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NaO_2 and Cl^- .

GJC000 CAS: 12244-57-4 GOLD SODIUM THIOMALATE

HR: 3

mf: $\text{C}_4\text{H}_3\text{AuO}_4\text{S} \cdot 2\text{Na}$ mw: 390.08

PROP: Yellowish-white powder. Sol in H_2O ; insol in EtOH and Et_2O .

SYNS: AuTM □ ((1,2-DICARBOXYETHYL)THIO)GOLD DISODIUM SALT □ (DIHYDROGEN MERCAPTOSUCCINATO)-GOLD DISODIUM SALT □ DISODIUM AUROTHIOMALATE □ (MERCAPTOBUTANEDIOATO(1-))GOLD DISODIUM SALT □ MERCAPTOSUCCINIC ACID, GOLD SODIUM SALT □ MYOCHRYSLINE □ MYOCRISIN □ SODIUM AUROTHIOMALATE □ TAURE(O)DON

TOXICITY DATA with REFERENCE:

orl-man TDLo: 5500 µg/kg: PNS, KID, BLD ARHEAW 19,936,76

ims-wmn TDLo: 182 µg/kg: SKN BMJOAE 2,129,76

ivn-wmn TDLo: 2700 µg/kg/4W-I: CNS JRHUA9 11,235,84

ims-wmn TDLo: 20 mg/kg/1Y: CNS, KID ARPAAQ 96,133,73

ims-man TDLo: 5 mg/kg/13W: BLD, MSK JAMAAP 133,754,47

ims-wmn LDLo: 600 µg/kg/1W-I: PUL, SYS JRSM9 77,960,84

par-wmn TDLo: 3366 µg/kg/2W: CNS, PNS NEURAI 20,455,70

par-man TDLo: 12,500 µg/kg/7W-I: CNS, PNS JRHUA9 11,233,84

par-man TDLo: 7857 µg/kg/11W-I: SKN BMJOAE 286,154,83

unr-cld TDLo: 11,900 µg/kg/18W-I: JRHUA9 13,224,86

unr-hmn TDLo:9750 µg/kg/23W-I:BLD BMJOAE
1,1266,76
unr-man TDLo:12 mg/kg:BLD JRHUA9 13,225,86
unr-wmn TDLo:1600 µg/kg/3W-I:SYS,BLD ANZJB8
16,72,86
unr-wmn TDLo:7 mg/kg/7W-I:BLD JRHUA9 12,180,85
unr-man TDLo:7857 µg/kg/11W-I:ALR BJRHDF
24,367,85
scu-rat LD50:303 mg/kg NIIRDN 6,208,82
ivn-rat LD50:440 mg/kg NIIRDN 6,208,82
ims-rat LDLo:185 mg/kg PSEBAA 49,121,42
scu-mus LD50:930 mg/kg NIIRDN 6,208,82
ivn-mus LD50:855 mg/kg NIIRDN 6,208,82
ims-mus LD50:800 mg/kg VTPHAK 15(Suppl 5),1,78

SAFETY PROFILE: Poison by subcutaneous and intramuscular routes. Moderately toxic by intravenous route. Human systemic effects: aggression, agranulocytosis, aplastic anemia, cell count changes, changes in circulation, cholestatic jaundice, dermatitis, encephalitis, fasciculations, flaccid paralysis without anesthesia, hemorrhage, hepatitis (hepatocellular necrosis), increased body temperature, interstitial fibrosis, muscle weakness, proteinuria, recording from peripheral motor nerve, depressed renal function tests, somnolence, structural changes in nerve sheath, thrombocytopenia, uncharacterized allergic reaction, changes in blood, teeth, and supporting structures. Experimental teratogenic and reproductive effects. When heated to decomposition it emits very toxic Na₂O and SO_x.

GJE000 CAS: 10233-88-2 HR: 3

GOLD SODIUM THIOSULFATE

mf: O₆S₄•Au•3Na mw: 490.18

PROP: White crystals, odorless.

SYN: THIOSULFURIC ACID, GOLD(1+) SODIUM SALT (2:1:3)

TOXICITY DATA with REFERENCE:

ipr-rat LD50:78 mg/kg JAPMA8 41,105,52
orl-mus LD50:35 mg/kg JINCAO 40,2081,78
ipr-mus LD50:245 mg/kg TXAPA9 49,41,79
ivn-mus LDLo:140 mg/kg JAPMA8 41,105,52

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits very toxic fumes of SO_x and Na₂O. See also GOLD SODIUM THIOSULFATE DIHYDRATE.

GJG000 CAS: 10210-36-3 HR: 3

GOLD SODIUM THIOSULFATE DIHYDRATE

mf: O₆S₄•Au•3Na•2H₂O mw: 526.22

SYNS: AURICIDINE □ AUROCIDIN □ AUROLIN □ AUROPEX □ AUROPIN □ AUROSAN □ AUROTHION □ CRISALBINE □ NOVACRYLIN □ SANOCHRYLINE □ SODIUM AUROTHIO-SULPHATE DIHYDRATE □ SOLFOCRISOL □ THIOCHRYLINE □ THIOSULFURIC ACID, GOLD(1+) SODIUM SALT(2:1:3), DIHYDRATE

TOXICITY DATA with REFERENCE:

ims-hmn TDLo:400 µg/kg/1W:SKN,BLD AIMEAS
37,323,52
scu-rat LDLo:30 mg/kg 27ZWAY 3.3,2134,-
ivn-rat LDLo:80 mg/kg 27ZWAY 3.3,2134,-
ims-rat LDLo:35 mg/kg PSEBAA 49,121,42

ipr-mus LD50:110 mg/kg JRHUA9 12,274,85
ivn-mus LDLo:100 mg/kg EMSUA8 3,146,45
ivn-rbt LDLo: 59 mg/kg 27ZWAY 3.3,2134,-
scu-gpg LDLo:60 mg/kg ZGEMAZ 57,77,27

SAFETY PROFILE: Poison by subcutaneous, intraperitoneal, intravenous, and intramuscular routes. Human systemic effects by intramuscular route: dermatitis, granulocytopenia, and thrombocytopenia. Used as an antirheumatic agent. When heated to decomposition it emits very toxic fumes of SO_x and Na₂O.

**GJI075 HR: D
GONADOGRAPHON LUTEINIZING HORMONE**

SYN: LUTEINIZING HORMONE, GONADOGRAPHON
RELEASING HORMONE

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

**GJI100 HR: D
GONADOTROPIN RELEASING HORMONE
AGONIST**

SYNS: D-TRP-LH-RH □ GnRH-A

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

**GJI250 CAS: 500-64-1 HR: 3
GONOSAN**

mf: C₁₄H₁₄O₃ mw: 230.28

PROP: Prisms from Et₂O/MeOH. Mp: 106°. (+)- Form: Rods from methanol + ether. Bp: 195–197°. Practically insol in water; sol in acetone, ether, methanol; sltly sol in hexane. (+/-)- Form: Needles from methanol. Mp: 146–147°.

SYNS: (R)-5,6-DIHYDRO-4-METHOXY-6-STYRYL-2H-PYRAN-2-ONE □ 5-HYDROXY-3-METHOXY-7-PHENYL-2,6-HEPTA-DIENOIC ACID γ-LACTONE □ KAVAIN □ (+)-KAVAIN □ KAWAIN □ 4-METHOXY-6-(β-PHENYLVINY)-5,6-DIHYDRO-α-PYRONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:1130 mg/kg AIPTAK 177,261,69
ipr-mus LD50:420 mg/kg AIPTAK 177,261,69
ivn-mus LD50:69 mg/kg AIPTAK 177,261,69

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

**GJI400 CAS: 477-73-6 HR: 3
GOSSYPIMINE**

mf: C₂₀H₁₉N₄•Cl mw: 350.88

PROP: Dark rusty crystals or dark green powder. Odorless. Sol in water.

SYNS: BASIC RED 2 □ BRILLIANT SAFRANINE BR □ BRILLIANT SAFRANINE G □ BRILLIANT SAFRANINE GR □ CALCOZINE RED Y □ CERVEN ZASADITA 2 □ C.I. 50240 □ C.I. BASIC RED 2 □ 2,8-DIMETHYLPHENOSAFRANINE □ HIDACO SAFRANINE □ LEATHER RED HT □ MITSUI SAFRANINE □ NIPPON KAGAKU SAFRANINE GK □ NIPPON KAGAKU SAFRANINE T □ PHENAZINIUM, 3,7-DIAMINO-2,8-DIMETHYL-

5-PHENYL-, CHLORIDE □ SAFRANIN □ SAFRANINE □
 SAFRANINE A □ SAFRANINE B □ SAFRANINE G □
 SAFRANINE GF □ SAFRANINE J □ SAFRANINE O □
 SAFRANINE OK □ SAFRANINE SUPERFINE G □ SAFRANINE T
 □ SAFRANINE TH □ SAFRANINE TN □ SAFRANINE Y □
 SAFRANINE YN □ SAFRANINE ZH □ SAFRANIN T □
 TOLUSAFRANINE

TOXICITY DATA with REFERENCE:

mno-sat 16 µg/plate TRENAP 27,153,76
 mma-sat 16 µg/plate TRENAP 27,153,76
 dnr-esc 4 µg/well ENMUDM 3,429,81
 dnr-bcs 2 mg/disc TRENAP 27,153,76
 ivn-rat LD50:28,740 µg/kg SMBUA9 9,96,51
 orl-mus LDLo:1600 mg/kg JPMSAE 69,327,80
 ivn-mus LD50:24,020 µg/kg SMBUA9 9,96,51
 ivn-rbt LD50:26,940 µg/kg SMBUA9 9,96,51

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

GJK000 CAS: 50933-33-0 HR: 1 GOSSYPURE

mf: C₁₈H₃₂O₂ mw: 280.50

PROP: Insect attractant mating disrupter.

SYNS: GOSSYPURE H.F. □ 7,11-HEXADECADIEN-1-OL, ACETATE □ NOMATE PBW

TOXICITY DATA with REFERENCE:

orl-rat LD50:15 g/kg FMCHA2 -,D219,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GJM000 CAS: 303-45-7 HR: 2 GOSSYPOL

mf: C₃₀H₃₀O₈ mw: 518.60

PROP: A polyphenolic yellow pigment isolated from cottonseed pigment glands (JAOCA7 40,571,63). Mp: 180° from ether, mp: 199° from chloroform, mp: 214° from ligroin. Very sltly sol in methanol, ethanol, ether, chloroform, DMF; freely sol (with slow decomp) in dilute solns of ammonia, sodium carbonate; insol in water.

SYNS: 2,2'-BIS(1,6,7-TRIHYDROXY-3-METHYL-5-ISOPROPYL)-8-ALDEHYDONAPHTHALENE □ 8-FORMYL-1,6,7-TRIHYDROXY-5-ISOPROPYL-3-METHYL-2,2'-BISNAPHTHALENE

TOXICITY DATA with REFERENCE:

dni-hmn:hla 10 mg/L CNREA8 44,35,84
 cyt-man:lym 9 µg/plate CPHPA5 12,293,81
 sce-man:lym 1 µg/plate CPHPA5 12,293,81
 orl-rat LD50:2315 mg/kg JAOCA7 37,40,60
 orl-pig LD50:550 mg/kg JAOCA7 40,571,63

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion. Human reproductive effects by ingestion: spermatogenesis and male fertility index changes. Experimental reproductive effects. Human mutation data reported. Can be irritating to the gastrointestinal tract. In experimental

animals, large doses cause edema of lungs, shortness of breath, paralysis. When heated to decomposition it emits acrid smoke and irritating fumes.

GJM025 CAS: 20300-26-9 HR: 3 (+)-GOSSYPOL

mf: C₃₀H₃₀O₈ mw: 518.60

PROP: Pale-yellow needles from pet ether; deep-yellow prisms from Me₂CO; large elongated plates from Me₂CO (aq). Mp: 181–183°.

TOXICITY DATA with REFERENCE:

ipr-mus LD50:35 mg/kg CUSCAM 50,64,81

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

GJM030 CAS: 40112-23-0 HR: D racemic-GOSSYPOL

mf: C₃₀H₃₀O₈ mw: 518.60

PROP: Crystallizes in three forms from Et₂O, CHCl₃, pet ether. Mp: 184°.

SYNS: (2,2-BINAPHTHALENE)-8,8'-DICARBOXALDEHYDE, 1,1',6,6',7,7'-HEXAHYDROXY-3,3'-DIMETHYL-5,5'-BIS (1-METHYLETHYL)-, (±)- □ (±)-GOSSYPOL

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

GJM035 CAS: 30719-67-6 HR: D GOSSYPOL ACETATE

mf: C₄₂H₄₂O₁₄ mw: 770.84

PROP: A solid. Mp: 276–279°.

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

GJM259 CAS: 12542-36-8 HR: 3 GOSSYPOL ACETIC ACID

SYN: GOSSYPOL ACETATE

TOXICITY DATA with REFERENCE:

dnd-hmn:leu 15 mg/L/1H MUREAV 164,71,86
 sce-hmn:lym 1 mg/L ENMUDM 7(Suppl 3),66,85
 sce-mus-ipr 20 mg/kg TCMUD8 6,83,86
 orl-man TDLo:282 mg/kg/63W-I FESTAS 48,459,87
 orl-mus LDLo:3 g/kg BIMADU 12,1,84
 ivn-cat LDLo:75 mg/kg JAFCAU 17,497,69

SAFETY PROFILE: Poison by intravenous route. Human reproductive effects by ingestion: spermatogenesis. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. See also GOSSYPOL.

GJM300 CAS: 23522-05-6 HR: D GRACILIN

mf: C₁₅H₂₀O₃ mw: 248.35

SYNS: BARRELIERIN □ EUDESM-4-EN-12-OIC ACID, 6-HYDROXY-1-OXO-, γ-LACTONE □ TAURIN

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

GJO000 CAS: 1405-97-6 HR: 3**GRAMICIDIN**mf: $C_{148}H_{210}N_{30}O_{26}$ mw: 2825.88**PROP:** Spear-shaped or lenticular platelets. Mp: 229–230°. Almost insol in water; sol in lower alc, acetic acid, and pyridine; practically insol in ether or hydrocarbons.**TOXICITY DATA with REFERENCE:**

add-bac-esc 2200 nmol/L MUREAV 89,95,81

ivn-mus LD50:1500 µg/kg SCIEAS 103,419,46

par-mus LD50:17 µg/kg 85ERAY 3,1542,78

SAFETY PROFILE: Poison by intravenous, intraperitoneal, and parenteral routes. An antibiotic. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x .**GJO025 CAS: 11029-61-1 HR: 3****GRAMICIDIN A**mf: $C_{148}H_{210}N_{30}O_{26}$ mw: 2825.88**PROP:** Antibiotic.**SYN:** VALYL GRAMICIDIN A**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1000 mg/kg 85GDA2 4(1),240,80

ipr-mus LD50:60 mg/kg 85GDA2 4(1),240,80

ivn-mus LD50:5 mg/kg 85GDA2 4(1),240,80

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. An antibiotic. When heated to decomposition it emits toxic fumes of NO_x .**GJQ100 CAS: 1481-70-5 HR: 3****GRAMINIC ACID**mf: $C_{66}H_{87}N_{13}O_{13} \cdot ClH$ mw: 1307.12**PROP:** Needles or rods.**SYN:** TYROCIDINE A, HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1000 mg/kg 85GDA2 4(1),269,80

ipr-mus LD50:40 mg/kg 85GDA2 4(1),269,80

ivn-mus LD50:15 mg/kg 85GDA2 4(1),269,80

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and HCl.**GJS000 CAS: 19879-06-2 HR: 3****GRANATICIN**mf: $C_{22}H_{20}O_{10}$ mw: 444.42**PROP:** Deep-red, garnet-like crystals from Me_2CO or C_6H_6 . Mp: 223–225°.**SYNS:** ANTIBIOTIC WR 141 □ GRANATICIN A □ LITMOMYCIN □ WR 141**TOXICITY DATA with REFERENCE:**

dni-bcs 600 nmol/L ZBPHA6 212,259,69

oms-bcs 600 nmol/L ZBPHA6 212,259,69

ipr-mus LD50:25 mg/kg 85ERAY 1,135,78

scu-mus LD50:250 mg/kg MEIEDD 10,652,83

SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Mutation data reported. An antibiotic. When heated to decomposition it emits acrid smoke and irritating fumes.**GJS200 CAS: 22345-47-7 HR: 3****GRANDAXIN**mf: $C_{22}H_{26}N_2O_4$ mw: 382.50**PROP:** Colorless to light cream crystalline powder from isopropyl alc. Mp: 156–157°.**SYNS:** 1-(3,4-DIMETHOXYPHENYL)-5-ETHYL-7,8-DIMETHOXY-4-METHYL-5H-2,3-BENZODIAZEPINE □ EGYT 341 □ SERIEL □ TF □ TOFISOPAM**TOXICITY DATA with REFERENCE:**

orl-rat LD50:825 mg/kg IYKEDH 12,547,81

ipr-rat LD50:1270 mg/kg IYKEDH 12 547,81

ivn-rat LD50:103 mg/kg IYKEDH 12,547,81

orl-mus LD50:3800 mg/kg IYKEDH 12,547,81

ipr-mus LD50:1950 mg/kg IYKEDH 12,547,81

ivn-mus LD50:415 mg/kg IYKEDH 12,547,81

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x . See also DIAZEPAM.**GJS300 HR: D****GRAPE COLOR EXTRACT****SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**GJU000 CAS: 8016-20-4 HR: 2****GRAPEFRUIT OIL****PROP:** From the fresh peel of *Citrus paradisi* Macfayden (*Citrus decumana* L.). Yellow liquid. Sol in fixed oils, mineral oil; sltly sol in propylene glycol; insol in glycerin.**SYNS:** GRAPEFRUIT OIL, coldpressed □ GRAPEFRUIT OIL, expressed □ OIL OF GRAPEFRUIT □ OIL OF SHADDOCK**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MLD FCTXAV 12,743,74

dnr-bcs 20 mg/disc TOFOD5 8,91,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**GJU050 CAS: 16974-11-1 HR: 1****GRAPEMONE**mf: $C_{14}H_{26}O_2$ mw: 226.40**PROP:** Controls the Grapeberry moth.**SYNS:** (Z)-ACETATE-9-DODECEN-1-OL □ BOCEP VITI □ Z-9-DDA □ 9-DODECEN-1-OL, ACETATE, (Z)- □ cis-9-DODECENYL ACETATE □ (Z)-9-DODECENYL ACETATE □ RAK 1**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FMCHA2 -,C261,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**GJU100 HR: D****GRAPE SKIN EXTRACT****PROP:** Red to purple powder or liquid concentrate.

SYN: ENOCIANINA**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**GJU200 CAS: 87820-88-0 HR: 2 GRASP**mf: C₂₀H₂₇NO₃ mw: 329.48**PROP:** Off white to pale pink solid with faint burnt odor. Mp: 106°, d: 1.16 g/cm³ (dry).**SYNS:** 2-CYCLOHEXEN-1-ONE, 2-(1-(ETHOXYIMINO)-PROPYL)-3-HYDROXY-5-(2,4,6-TRIMETHYLPHENYL)- □ 2-(1-(ETHOXYIMINO)PROPYL)-3-HYDROXY-5-MESITYLCYCLOHEX-2-ENONE □ 2-(1-(ETHOXYIMINO)PROPYL)-3-HYDROXY-5-(2,4,6-TRIMETHYLPHENYL)-2-CYCLOHEXEN-1-ONE □ PP604 □ SPLENDOR □ TRALKOXYDIM □ TRALKOXYDIME**TOXICITY DATA with REFERENCE:**

orl-rat LD50:934 mg/kg FMCHA2 ,C158,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.**GJU225 CAS: 52557-31-0 HR: 3 GRAYANOL A**mf: C₂₀H₃₂O₆ mw: 368.52**SYN:** 3,5A-METHANO-5AH-CYCLOHEPTACYCLODECEN-8(1H)-ONE, DODECAHYDRO-4,7,10,12,14-PENTAHYDROXY-4,9,9-TRIMETHYL-13-METHYLENE-, (3R-(3R*,4R*,5AS*,7S*,10S*,12S*,13AS*,14R*))-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:>100 mg/kg TXAPA9 35,303,1976

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.**GJU250 CAS: 52611-78-6 HR: D GRAYANOL B**mf: C₂₀H₃₂O₆ mw: 368.52**SYN:** 3,5A-METHANO-5AH-CYCLOHEPTACYCLODECEN-8(1H)-ONE, DODECAHYDRO-4,7,10,12,14-PENTAHYDROXY-4,9,9-TRIMETHYL-13-METHYLENE-, (3R-(3R*,4R*,5AS*,7R*,10S*,12S*,13AS*,14R*))-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:>100 mg/kg TXAPA9 35,303,1976

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.**GJU300 CAS: 4678-44-8 HR: 3 GRAYANOTOXIN II**mf: C₂₀H₃₂O₅ mw: 352.52**SYNS:** Δ¹⁰(18)-ANDROMEDENOL □ DEACETYLANHYDRO-ANDROMEDOTOXIN □ G-II □ GRAYANOTOX-10(20)-ENE-3,5,6,14,16-PENTOL, (3-β,6-β,14R)- □ 7,9A-METHANO-9AH-CYCLOPENTA(B)HEPTALENE-2,8,11,11A,12(1H)-PENTOL, DODECAHYDRO-1,1,8-TRIMETHYL-4-METHYLENE-, (2S,3AS,4AS,7R,8R,9AS,11R,11AR,12R)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:10 mg/kg CPBTAL 22,884,1974

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.**GJU310 CAS: 4678-45-9 HR: 3 GRAYANOTOXIN III**mf: C₂₀H₃₄O₆ mw: 370.54**SYNS:** ANDROMEDOL □ DEACETYLANDROMEDOTOXIN □ DEACYLASEBOTOXIN I □ GRAYANOTOXANE-3,5,6,10,14,16-HEXOL, (3-β,6-β,14R)- □ 7,9A-METHANO-9AH-CYCLOPENTA(B)HEPTALENE-2,4,8,11,11A,12(1H)-HEXOL, DODECAHYDRO-1,1,4,8-TETRAMETHYL-, (2S,3AS,4R,4AR,7R,8R,9AS,11R,11AR,12R)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:840 mg/kg TXAPA9 35,303,1976

ivn-gpg LD50:400 μg/kg ARTODN 44,259,1980

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.**GJU315 CAS: 30460-34-5 HR: 3 GRAYANOTOXIN III 6,14-DIACETATE**mf: C₂₄H₃₈O₈ mw: 454.62**SYNS:** 6-ACETYL-GRAYANOTOXIN I □ 6-o-ACETYL GRAYANOTOXIN 1 □ 7,9A-METHANO-9AH-CYCLOPENTA(B)HEPTALENE-2,4,8,11,11A,12(1H)-HEXOL, DODECAHYDRO-1,1,4,8-TETRAMETHYL-, 6,12-DIACETATE, (2S,3AS,4R,4AR,7R,8R,9AS,11R,11AR,12R)- □ RHODOJAPONIN IV**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:>100 mg/kg TXAPA9 35,303,1976

ivn-gpg LD50:2500 μg/kg ARTODN 44,259,1980

SAFETY PROFILE: A poison by intraperitoneal and intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.**GJU330 CAS: 30460-36-7 HR: 3 GRAYANOTOXIN VI**mf: C₂₀H₃₂O₅ mw: 352.52**SYNS:** GRAYANOTOX-15-ENE-3,5,6,10,14-PENTOL, (3-β,6-β,14R)- □ 7,9A-METHANO-9AH-CYCLOPENTA(B)HEPTALENE-2,4,11,11A-β,12(1H)-PENTOL, 2A,3,3A-α,4,4A-β,5,6,7-β,10,11A-DECAHYDRO-1,1,4-β,8-TETRAMETHYL-**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:830 μg/kg TXAPA9 35,303,1976

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.**GJU460 HR: 3 GREEN LILY****PROP:** Perennial bulb-producing herbs. The grass-like leaves grow directly from the bulb. Pale-green to yellow-white flowers grow in heavy clusters from a leafless stalk. The seed pod has 3 lobes and holds 4 or more seeds. The various species grow in the area from southern New Mexico to Peru.**SYNS:** CEBOLLEJA (MEXICO) □ SCHOENOCAULON DRUMMONDII □ SCHOENOCAULON OFFICIANLIS □ SCHOENOCAULON TEXANUM**SAFETY PROFILE:** The whole plant and especially the seeds are thought to contain poisonous veratridine alkaloids. Ingestion of the seeds may cause severe vomiting, catharsis, slowed heartbeat, low blood pressure and, in some cases, death. See also VERATRIDINE.**GJU475 HR: 2 GREEN LOCUST**

PROP: A large tree which may grow to 80 feet. The leaves are compound with many 1-inch leaflets. There are 2 thorns on the branch where each leaf stem is attached. It produces clusters of white, fragrant flowers and a flat, red-brown, 4-inch long seed pod which stays on the tree through the winter. It is native to the Smoky Mountains and the Ozarks of the United States. It is commonly cultivated in the temperate regions of the United States and southern Canada.

SYNS: BASTARD ACACIA □ BLACK ACACIA □ BLACK LOCUST □ FALSE ACACIA □ PEA FLOWER LOCUST □ POST LOCUST □ ROBINIA PSEUDOACACIA □ SILVER CHAIN □ TREESAIL □ WHITE HONEY FLOWER □ WHITE LOCUST □ WHYOE TREE □ YELLOW LOCUST

SAFETY PROFILE: The bark, seeds, and leaves contain the poison robin, a plant lectin (toxalbumin) which inhibits protein synthesis in the intestinal wall. Ingestion of these plant parts may cause after a delay period of several hours: nausea, vomiting, diarrhea, and intestinal dysfunction. There is a potential for massive fluid and electrolyte loss. See also ABRIN as an example of toxalbumin.

GJU500 HR: 3

GREEN MAMBA VENOM

SYNS: DENDROASPIS VIRIDIS VENOM □ VENOM, SNAKE, DENDROASPIS VIRIDIS

TOXICITY DATA with REFERENCE:

scu-mus LD50:790 µg/kg 19DDA6 1,223,67
ivn-mus LD50:667 µg/kg 23E1AT 1,437,68
ivn-rbt LDLo:700 µg/kg TOXIA6 2,5,64

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

GJU600 CAS: 68085-85-8 HR: 3

GRENADE

DOT: NA 0349/UN 0110/UN 0284/UN 0285/UN 0292/UN 0293/UN 0318/UN 0372/UN 0452

mf: C₂₃H₁₉ClF₃NO₃ mw: 449.88

PROP: Yellow-brown viscous liquid. Characteristic odor. Decomps below BP at 275 C, mp: 10 C. Flash pt: 80° C. Insol in water.

SYNS: CYCLOPROPANECARBOXYLIC ACID, 3-(2-CHLORO-3,3,3-TRIFLUORO-1-PROPENYL)-2,2-DIMETHYL-, CYANO(3-PHENOXYPHENYL)METHYL ESTER □ CYHALOTHRIN □ CYHALOTHRINE □ GRENADES, empty primed (NA0349) (DOT) □ GRENADES, hand or rifle, with bursting charge (UN0284, UN0285, UN0292, UN0293) (DOT) □ GRENADES, practice, hand or rifle (UN0452, UN0110, UN0318, UN0372) (DOT) □ ICI 146814 □ ICI-PP 563 □ PP 563

TOXICITY DATA with REFERENCE:

orl-rat LD50:144 mg/kg PEMNDP 9,201,91
ihl-rat LC50:83 mg/m³/4H PEMNDP 9,201,91
orl-rbt LD50:>1 g/kg PEMNDP 9,201,91
skn-rbt LD50:>2500 mg/kg PEMNDP 9,201,91

DOT CLASSIFICATION: Explosive 1.4S; Label: None (NA 0349, UN 0110); Explosive 1.1D; Label: Explosive 1.1D (UN 0284); Explosive 1.1F; Label: Explosive 1.1F (UN 0292); Explosive 1.2F; Label: Explosive 1.2F (UN 0293); Explosive 1.4G; Label: Explosive 1.4G (UN 0452); Explosive 1.3G; Label: Explosive 1.3G (UN 0318);

Explosive 1.2G; Label: Explosive 1.2G (UN0372); Explosive 1.2D; Label: Explosive 1.2D (UN0285)

SAFETY PROFILE: A poison by ingestion and inhalation. An explosive. A combustible liquid. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Cl⁻.

GJU800 CAS: 1391-82-8 HR: 3

GRISEIN

mf: C₄₀H₆₁FeN₁₀O₂₀S mw: 1090.02

PROP: Antibiotic substance produced by strains of *Streptomyces griseus*. Amorph, red powder. Sol in water; sltly sol in 95% alc; insol in abs alc, ether, acetone, chloroform, benzene.

SYNS: ALBOMYCIN A1 □ CORMOGRIZIN □ GRISIN □ KORMOGRIZEIN

TOXICITY DATA with REFERENCE:

orl-mus LD50:600 mg/kg MEIEDD 10,653,83
ipr-mus LD50:600 mg/kg 85GDA2 4(1),442,80
scu-mus LD50:34 mg/kg MEIEDD 10,653,83

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

GJU900 CAS: 79030-08-3 HR: 3

GRISEOLIC ACID

mf: C₁₄H₁₃N₅O₈ mw: 379.32

SYNS: GRISEOLIC ACID A □ α-1-TALO-OCT-4-ENOFURANURONIC ACID,1-(6-AMINO-9H-PURIN-9-YL)-3,6-ANHYDRO-6-C-CARBOXY-1,5-DIDEOXY-

TOXICITY DATA with REFERENCE:

orl-rat LD50:100 mg/kg JANTAJ 38,823,1985

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

GJW000 CAS: 2072-68-6 HR: 3

GRISEOLUTEIN B

mf: C₁₇H₁₆N₂O₆ mw: 344.35

TOXICITY DATA with REFERENCE:

orl-mus LD50:800 mg/kg 85ERAY 1,763,78
scu-mus LD50:400 mg/kg 85GDA2 5,144,81
ivn-mus LD50:200 mg/kg 85GDA2 5,144,81

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

GJY000 CAS: 1393-89-1 HR: 3

GRISEOMYCIN

mf: C₂₅H₄₆ClNO₈ mw: 524.17

PROP: Produced by *Streptomyces sp.* (ANTCAO 3,1243,53). Crystalline base, bitter taste, platelets, decomp @ 76–80°, alkaline reaction; freely sol in chloroform, ethanol, butanol, benzene, acetone, ethyl acetate.

SYN: LOMYCIN

TOXICITY DATA with REFERENCE:

ipr-mus LD50:210 mg/kg 85ERAY 1,98,78
scu-mus LD50:1330 mg/kg 85ERAY 1,98,78

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

GJY100 CAS: 73297-70-8 HR: 3**GRISEORUBIN COMPLEX****TOXICITY DATA with REFERENCE:**

ipr-mus LD50:50 mg/kg 85GDA2 3,202,80

scu-mus LD50:100 mg/kg 85GDA2 3,202,80

ivn-mus LD50:10 mg/kg 85GDA2 3,202,80

SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes.**GKA000 CAS: 101563-93-3 HR: 3****GRISEORUBIN I HYDROCHLORIDE****PROP:** Produced by *Streptomyces griseus* (JANTAJ 31,78–111,78).**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:50 mg/kg JANTAJ 31,78,78

scu-mus LD50:100 mg/kg JANTAJ 31,78–111,78

ivn-mus LD50:10 mg/kg JANTAJ 31,78,78

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and HCl.**GKC000 CAS: 53216-90-3 HR: 3****GRISEOVIRIDIN**mf: C₂₂H₂₇N₃O₇S mw: 477.58**PROP:** Polymorphic crystals from MeOH. Mp: 161–163° decomp depending on the crystal modification. Sol in pyridine; mod sol in lower alcs; very sltly sol in water and nonpolar solvents.**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:100 mg/kg 85ERAY 1,322,78

scu-mus LD50:100 mg/kg 85ERAY 1,322,78

ivn-mus LD50:75 mg/kg ABANAE 2,790,54/55

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.**GKE000 CAS: 126-07-8 HR: 3****GRISOFULVIN**mf: C₁₇H₁₇ClO₆ mw: 352.79**PROP:** Octahedra crystals from C₆H₆. Mp: 225–226°.**SYNS:** AMUDANE □ BIOGRISIN-FP □ 7-CHLORO-4,6,2'-

TRIMETHOXY-6'-METHYLGRIIS-2'-EN-3,4'-DIONE □

DELMOFULVINA □ FULCIN □ FULCINE □ FULVICAN

GRISACTIN □ FULVICIN □ FULVINA □ FULVISTATIN □

FUNGIVIN □ GREOSIN □ GRESFEED □ GRICIN □

GRIFULVIN □ GRISACTIN □ GRISCOFULVIN □ GRISEFULINE

□ GRISEO □ (+)-GRISEOFULVIN □ GRISEOFULVIN-FORTE □

GRISEOFULVINUM □ GRISETIN □ GRISOVIN □ GRIS-PEG □

GRYSIO □ GUSERVIN □ LAMORYL □ LIKUDEN □

MURFULVIN □ NEO-FULCIN □ NSC-34533 □ PONCYL □

SPIROFULVIN □ SPOROSTATIN □ USAF SC-2

TOXICITY DATA with REFERENCE:

dnr-bcs 100 μL/plate MUREAV 97,1,82

dni-hmn:fbr 20 mg/L/3D-C KAMJDW 2,127,76

dni-hmn:lym 20 mg/L/3D-C KAMJDW 2,127,76

cyt-hmn:lym 40 mg/L/3D MUREAV 25,123,74

cyt-ham:fbr 10 mg/L CRNGDP 3,499,82

orl-rat TDLo:462 g/kg/2Y-I:NEO BJCAA 38,237,78

ivn-rat LD50:400 mg/kg NATUAS 182,1320,58

ipr-mus LD50:200 mg/kg NTIS** AD277-689

scu-mus LD50:1200 mg/kg 85GDA2 6,290,81

ivn-mus LD50:280 mg/kg 85ERAY 3,1766,78

CONSENSUS REPORTS: IARC Cancer Review:

Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 10,153,76. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen with experimental neoplastigenic and teratogenic data. Poison by intravenous and intraperitoneal routes. Moderately toxic by subcutaneous route. Human mutation data reported. Experimental reproductive effects. Used as an antibiotic, pharmaceutical, and veterinary drug. When heated to decomposition it emits toxic fumes of Cl⁻.**GKE900 CAS: 14567-61-4 HR: 2****GRUNERITE****PROP:** Fibrous or non-fibrous gray, dark green or brown crystals.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data.**GKG300 CAS: 17471-82-8 HR: 3****GUABENXANE**mf: C₁₀H₁₃N₃O₂•½H₂O₄S mw: 256.26**PROP:** Crystals from H₂O. Mp: 205°.**SYNS:** GUANIDINO-6-METHYL-1,4-BENZODIOXANE □ 6-GUANIDINOMETHYL 1,4-BENZODIOXANE SULFATE □ GUANIDINO METHYL-6-BENZODIOXANNE-1,4 (FRENCH) □ I'HEMISULFATE de GUANIDINO METHYL-6-BENZODIOX-ANNE-1,4 (FRENCH) □ LM 433**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:243 mg/kg EJMCA5 12,241,77

orl-mus LD50:535 mg/kg EJMCA5 12,241,77

ipr-mus LD50:179 mg/kg EJMCA5 12,241,77

ivn-mus LD50:46 mg/kg EJMCA5 12,241,77

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and SO_x. See also SULFATES.**GKG400 CAS: 61789-17-1 HR: 1****GUAIAIC ACETATE****PROP:** Oil used in fragrances.**SYNS:** GUAIAACWOOD ACETATE □ GUAIAL ACETATE □ OILS, GUAIAACWOOD, ACETATES**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg FCTXAV 12,903,74

skn-rbt LD50:>5 g/kg FCTXAV 12,903,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.**GKI000 CAS: 90-05-1 HR: 3****GUAIACOL**mf: C₇H₈O₂ mw: 124.15**PROP:** Clear, pale-yellow liquid, solid, prisms, or needles. Characteristic odor, darkens on exposure to air and light. D (crystals): 1.129, d (liquid): about 1.112, (needles), mp: 32°, (prisms), bp: 202–209°, fp: –3.2°, flash p: 180°F (OC), d: 1.097 @ 25°/25°. Misc with alc, chloroform,

ether, oils, glacial acetic acid; sltly sol in pet ether; sol in NaOH soln.

SYNS: GUAICOL □ o-HYDROXYANISOLE □ 2-HYDROXY-ANISOLE □ 1-HYDROXY-2-METHOXYBENZENE □ o-METHOXYPHENOL □ 2-METHOXYPHENOL □ METHYL-CATECHOL □ PYROGUAIAIC ACID

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV FCTOD7 20(Suppl),697,82
eye-rbt 5 mg MLD FCTOD7 20(Suppl),697,82
sce-hmn:lym 500 μmol/L MUREAV 169,129,86
orl-hmn LDLo:43 mg/kg;CNS,GIT 34ZIAG -,295,69
orl-rat LD50:520 mg/kg FOMDAK 32,309,91
orl-mus LD50:621 mg/kg DRFUD4 5,539,80
ihl-mus LC50:7570 mg/m³ FCTOD7 20(Suppl),697,82
ivn-mus LD50:170 mg/kg FCTOD7 20(Suppl),697,82
skn-rbt LD50:4600 mg/kg FCTOD7 20(Suppl),697,82
scu-gpg LDLo:900 mg/kg FCTOD7 20(Suppl),697,82

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

SAFETY PROFILE: Human poison by ingestion. Experimental poison by intravenous route. Mildly toxic by skin contact and inhalation. Human systemic effects by ingestion: tremors and gastrointestinal changes. Human mutation data reported. An eye and severe skin irritant. Ingestion produces burning in the mouth and throat. Flammable when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. Protect from light. Used as an expectorant. When heated to decomposition it emits acrid smoke and irritating fumes. See also PHENOL.

GKK000 CAS: 532-03-6 HR: 2
GUAIACOL GLYCERYL ETHER CARBAMATE

mf: C₁₁H₁₅NO₅ mw: 241.27

PROP: Crystals from C₆H₆. Mp: 92–94°.

SYNS: AHR 85 □ CARBAMIC ACID, 2-HYDROXY-3-(o-METHOXYPHENOXY)PROPYL ESTER □ ETROFLEX □ GLYCERYL-GUAIACOLATE CARBAMATE □ GLYCERYLGUAJACOL-CARBAMAT □ GUIACOL-GLICERILETERE MONOCARBAMMATO □ 2-HYDROXY-3-(o-METHOXYPHENOXY)PROPYL 1-CARBAMATE □ LUMIRELAX □ METHOCARBAMOL □ 3-(2-METHOXYPHENOXY)-1-GLYCERYL CARBAMATE □ 3-(o-METHOXYPHENOXY)-2-HYDROXYPROPYL CARBAMATE □ 3-(o-METHOXYPHENOXY)-1,2-PROPANEDIOL 1-CARBAMATE □ METOCARBAMOL □ METOCARBAMOLO □ METOFENINA □ MIOLAXENE □ MIORILAS □ MIOWAS □ MYOLAXENE □ NEURAXIN □ PERILAX □ REFLEXYN □ RELAX □ RELESTRID □ ROBAXAN □ ROBAXIN □ ROBAXINE □ ROBAXON □ ROBINAX □ TRESORTIL

TOXICITY DATA with REFERENCE:

orl-rat LD50:1320 mg/kg JPETAB 129,75,60
ipr-rat LD50:815 mg/kg ARZNAD 17,242,67
orl-mus LD50:812 mg/kg DRUGAY 6,836,82
scu-mus LD50:780 mg/kg APTOA6 19,247,62
ivn-mus LD50:774 mg/kg DRUGAY 6,836,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GKM000 CAS: 8016-23-7 HR: 1

GUAIAIC WOOD OIL

PROP: From steam distillation of *Bulnesia sarmienti* lor. wood chips or sawdust (FCTXAV 12,807,74).

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 12,905,74
orl-rat LD50:>5 g/kg FCTXAV 12,905,74
skn-rbt LD50:>5 g/kg FCTXAV 12,905,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GKO000 CAS: 88-84-6 HR: 2

GUAIA-1(5),7(11)-DIENE

mf: C₁₅H₂₄ mw: 204.39

PROP: Oil. Bp: 137–139° @ 15.5 mm.

SYNS: GUAIENE □ β-GUAIENE □ (1S,cis)1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7-(1-METHYLETHYLIDENE)-AZULENE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV FCTXAV 17,371,79
orl-rat LD50:>5 g/kg FCTXAV 17,371,79
skn-rbt LD50:>5 g/kg FCTXAV 17,371,79

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GKO500 HR: 3

GUAIMERCOL

mf: C₁₁H₁₁Hg₂NO₈ mw: 1102.18

PROP: IDLH 10 mg/m³ (as Hg).

SYN: 6-ACETOXYMERCURI-5-NITROGUAIAICOL and 4,6-DIACETOXYMERCURI-5-NITROGUAIAICOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:125 mg/kg JAPMA8 38,270,49
ipr-rat LD50:6 mg/kg JAPMA8 38,270,49
ivn-rbt LD50:2600 μg/kg JAPMA8 38,270,49

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: TWA 0.05 mg(Hg)/m³

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and Hg. See also MERCURY COMPOUNDS, ORGANIC.

GKO750 CAS: 23256-50-0 HR: 3

GUANABENZ ACETATE

mf: C₈H₈Cl₂N₄•C₂H₄O₂ mw: 291.16

PROP: A solid. Mp: 192.5° (decomp).

SYNS: BR 750 □ ((2,6-DICHLOROBENZYLIDENE)-AMINO)GUANIDINE ACETATE □ 2-((2,6-DICHLOROPHENYL)METHYLENE)HYDRAZINE-CARBOXIMIDAMIDE MONOACETATE (9CI) □ GUANABENZ □ WY-8678 □ WY 8678 ACETATE

TOXICITY DATA with REFERENCE:

orl-chd TDLo:1 mg/kg:CNS,CVS AIMEAS 102,787,85
orl-wmn TDLo:1 mg/kg:CNS,CVS AIMEAS 102,787,85
orl-rat LD50:238 mg/kg YACHDS 10,4571,82
ipr-rat LD50:62 mg/kg YACHDS 10,4571,82
scu-rat LD50:84 mg/kg YACHDS 10,4571,82
orl-mus LD50:260 mg/kg YACHDS 10,4571,82
ipr-mus LD50:75 mg/kg YACHDS 10,4571,82
scu-mus LD50:89 mg/kg YACHDS 10,4571,82

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. Human systemic effects by ingestion: sleep, pulse rate and blood pressure changes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl⁻ and NO_x. A hypotensive drug.

GKO800 CAS: 32059-15-7 HR: 3
GUANAZODINE

mf: C₉H₂₀N₄ mw: 184.33

SYNS: 1-AZACYCLOOCT-2-YL METHYL GUANIDINE □ ((OCTAHYDRO-2-AZOCINYL)METHYL)GUANIDINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:136 mg/kg DRFUD4 2,592,77

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

GKQ000 CAS: 55-65-2 HR: 3
GUANETHIDINE

mf: C₁₀H₂₂N₄ mw: 198.36

SYNS: 1-(2-GUANIDINOETHYL)HEPTAMETHYLENIMINE □ 1-(2-GUANIDINOETHYL)OCTAHYDROAZOCINE □ ISMELIN □ OCTATENSIN □ OCTATENZINE □ SU 5864

TOXICITY DATA with REFERENCE:

orl-mus LD50:845 mg/kg USXXAM #3856778
ipr-mus LD50:100 mg/kg DRFUD4 4,185,79
scu-mus LD50:224 mg/kg USXXAM #3856778
ivn-mus LD50:28 mg/kg PCJOAU 15,349,81
ivn-cat LDLo:50 mg/kg 27ZIAQ -,112,73
ivn-rbt LDLo:50 mg/kg 27ZIAQ -,112,73

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

GKS000 CAS: 60-02-6 HR: 3
GUANETHIDINE BISULFATE

mf: C₂₀H₄₄N₈•H₂O₄S mw: 494.80

PROP: Crystals. Mp: 276–281° (decomp).

SYNS: β-1-AZACYCLOOCTYLETHYL GUANIDINE SULFATE □ GUANETHIDINE SULFATE □ 1-(2-GUANIDINOETHYL)OCTAHYDROAZOCINE SULFATE (2:1) □ (2-(HEXAHYDRO-1(2H)-AZOCINYL)ETHYL)GUANIDINE SULFATE □ ISMELIN □ ISMELIN SULFATE □ ISOMELIN □ NSC-29863 □ (2-(OCTAHYDRO-1-AZOCINYL)ETHYL)GUANIDINE SULFATE □ SU-5864

TOXICITY DATA with REFERENCE:

orl-rat LD50:1000 mg/kg JPETAB 128,22,60
ivn-rat LD50:23 mg/kg JPETAB 128,22,60
ipr-mus LD50:137 mg/kg RPTOAN 32,11,69
scu-mus LD50:750 mg/kg YKKZAJ 83,629,63
ivn-mus LD50:18 mg/kg CSLNX* NX#08547

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

GKU000 CAS: 645-43-2 HR: 3
GUANETHIDINE MONOSULFATE

mf: C₁₀H₂₂N₄•H₂O₄S mw: 296.44

PROP: White to off-white crystalline powder. Sol in water.

SYNS: N-(2-GUANIDINO ETHYL)HEPTAMETHYLENIMINE SULFATE □ (2-(HEXAHYDRO-1(2H)-AZOCINYL)ETHYL)GUANIDINE HYDROGEN SULFATE □ 2-(OCTAHYDRO-1-AZOCINYL)ETHYL GUANIDINE SULPHATE

TOXICITY DATA with REFERENCE:

eye-hmn 420 mg/6W-I MLD BMJOAE 4,592,67
ipr-rat LD50:290 mg/kg TXAP9 24,37,73
orl-mus LD50:1450 mg/kg BCFAAI 111,353,72
ipr-mus LD50:180 mg/kg BCFAAI 111,353,72
ivn-mus LD50:18,500 µg/kg BCFAAI 111,353,72

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. A human eye irritant. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

GKU300 CAS: 29110-48-3 HR: 3
GUANFACINE HYDROCHLORIDE

mf: C₉H₉Cl₂N₃O•ClH mw: 282.57

PROP: Blood pressure medicine.

SYNS: N-AMIDINO-2-(2,6-DICHLOROPHENYL)ACETAMIDE HYDROCHLORIDE □ N-(AMINOIMINOMETHYL)-2,6-DICHLOROBENZENEACETAMIDE HYDROCHLORIDE □ BS100-141 □ ESTULIC □ LON 798

TOXICITY DATA with REFERENCE:

orl-rat LD50:145 mg/kg IYKEDH 16,357,85
scu-rat LD50:114 mg/kg KSRNAM 14,4511,80
ivn-rat LD50:5800 µg/kg KSRNAM 14,4511,80
orl-mus LD50:15,300 µg/kg IYKEDH 16,357,85
scu-mus LD50:46 mg/kg KSRNAM 14,4511,80
ivn-mus LD50:25 mg/kg KSRNAM 14,4511,80

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

GKW000 CAS: 113-00-8 HR: 3
GUANIDINE

mf: CH₅N₃ mw: 59.09

PROP: Hygroscopic, deliquescent, colorless crystals. Mp: 50°. Very sol in water, alc, and acids (aq soln).

SYNS: AMINOFORMAMIDINE □ AMINOMETHANAMIDINE □ CARBAMAMIDINE □ CARBAMIDINE □ IMINOUREA

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:22,500 µg/kg AEXPBL 90,129,21
scu-rat LDLo:150 mg/kg HBAMAK 4,1352,35

scu-mus LDLo:266 mg/kg HBAMAK 4,1352,35
 ipr-cat LDLo:10 mg/kg AEXPBL 90,129,21
 orl-rbt LDLo:500 mg/kg MEIEDD 10,657,83
 scu-frg LDLo:3000 mg/kg HBAMAK 4,1352,35

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Moderately toxic by ingestion. On heating to 160° it converts to melamine and NH₃. Keep well closed. When heated to decomposition it emits toxic fumes of NO_x.

GKW050 CAS: 78441-84-6 HR: 2
GUANIDINE, (4-(((2-((4-AMINO-1,2,5-THIADIAZOL-3-YL)AMINO)ETHYL)THIO)-METHYL)-2-THIAZOLYL)-, S-OXIDE

mf: C₉H₁₄N₈OS₃ mw: 346.49

SYNS: BL 6341 □ BL 6341A

SAFETY PROFILE: Questionable carcinogen with tumorigenic data. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

GKW100 CAS: 593-85-1 HR: 3
GUANIDINE CARBONATE

mf: CH₅N₃•½CH₂O₃ mw: 493.30

PROP: Mp: 267–270°.

SYNS: AI3-14631 □ BISGUANIDINIUM CARBONATE □ CARBONIC ACID, compd. with GUANIDINE (1:2) □ DIGUANIDINIUM CARBONATE □ GUANIDINIUM CARBONATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:350 mg/kg CKFRAY 1,434,52
 scu-rbt LDLo:500 mg/kg HBAMAK 4,1352,35

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GKY000 CAS: 50-01-1 HR: 3
GUANIDINE, MONOHYDROCHLORIDE

mf: CH₅N₃•HCl mw: 72.11

PROP: White powder. Mp: 183°. Freely sol in water, alc.

SYNS: AMINOFORMAMIDINE HYDROCHLORIDE □ AMINOMETHANAMIDINE HYDROCHLORIDE □ CARBAMIDINE HYDROCHLORIDE □ GUANIDINE CHLORIDE □ GUANIDINE HYDROCHLORIDE □ GUANIDINIUM CHLORIDE □ GUANIDINIUM HYDROCHLORIDE □ IMINOUREA HYDROCHLORIDE □ USAF EK-749

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H SEV NTIS** AD-A166-306
 eye-rbt 81,400 µg MOD NTIS** AD-A184-068
 mmo-smc 4 mmol/L BBRC A9 53,531,73
 orl-rat LD50:475 mg/kg NTIS** AD-A165-747
 scu-rat LDLo:404 mg/kg JPETAB 28,251,26
 orl-mus LD50:571 mg/kg JACTDZ 12,598,93
 ipr-mus LD50:500 mg/kg NTIS** AD277-689
 scu-dog LDLo:200 mg/kg HBAMAK 4,1352,35
 scu-gpg LDLo:100 mg/kg HBAMAK 4,1352,35

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by ingestion and intraperitoneal routes. Mutation data reported. An eye and severe skin irritant.

Can cause nausea, diarrhea, and neurological disturbances. When heated to decomposition it emits highly toxic fumes of HCl and NO_x.

GLA000 CAS: 506-93-4 HR: 3
GUANIDINE MONONITRATE

DOT: UN 1467

mf: CH₅N₃•HNO₃ mw: 122.11

PROP: White granules. Mp: 214°.

SYN: GUANIDINE NITRATE (DOT)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg SEV JACTDZ 12,592,93
 eye-rbt 92 mg MLD NTIS** AD-A166-449
 orl-rat LD50:730 mg/kg JACTDZ 12,594,93
 orl-mus LD50:1028 mg/kg NTIS** AD-A197-827
 skn-rbt LD:>2 g/kg JACTDZ 12,592,93

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 5.1; Label: Oxidizer

SAFETY PROFILE: Moderately toxic by ingestion. A severe skin and an eye irritant. A powerful oxidizer. Flammable when shocked or exposed to heat or flame. A stable, flashless, non-hygroscopic high explosive used as a blasting explosive in combination with charcoal and inorganic nitrates. Keep away from heat and open flame. When heated to decomposition it emits very toxic fumes of HNO₃ and NO_x. See also NITRATES, GUANIDINE MONOHYDROCHLORIDE, and EXPLOSIVES, HIGH.

GLB100 CAS: 27698-99-3 HR: 3
GUANIDINIUM DICHROMATE

mf: C₂H₁₂Cr₂N₆O₇ mw: 336.14

CONSENSUS REPORTS: Chromium and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Explodes violently when heated in a sealed container. When heated to decomposition it emits toxic fumes of NO_x. See also CHROMIUM COMPOUNDS.

GLB300 CAS: 52470-25-4 HR: 3
GUANIDINIUM NITRATE

mf: CH₆N₄O₃ mw: 122.08

PROP: A solid. Mp: 214°.

SAFETY PROFILE: Decomposes explosively when heated. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES.

GLC000 CAS: 10308-84-6 HR: 3
GUANIDINIUM PERCHLORATE

mf: CH₆ClN₃O₄ mw: 159.53

SAFETY PROFILE: A very sensitive, powerful and unstable explosive. Decomposes violently at 350°C. Mixtures with 10% iron are more thermally sensitive. Upon decomposition it emits toxic fumes of Cl⁻ and NO_x. See also PERCHLORATES.

GLC100 HR: 2
p-GUANIDINO BENZOIC ACID 4-METHYL-2-OXO-2H-1-BENZOPYRAN-7-YL ESTER

mf: $C_{18}H_{15}N_3O_4$ mw: 337.36

SYNS: BENZOIC ACID, p-GUANIDINO-, 4-METHYL-2-OXO-2H-1-BENZOPYRAN-7-YL ESTER □ COUMARIN, 4-METHYL-7-HYDROXY-, p-GUANIDINOBENZOATE □ 4-METHYLBELLIFERONE 4-GUANIDINOBENZOATE □ MUGB

TOXICITY DATA with REFERENCE:

ipr-mus LD50:600 mg/kg CCPTAY 26,137,82

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

GLC200 CAS: 1072-13-5 HR: D
2-GUANIDINOETHYL DISULFIDE
mf: $C_6H_{16}N_5S_2$ mw: 222.39

SYNS: BIS(2-GUANIDOETHYL)DISULPHIDE □ N,N'-(DITHIODI-2,1-ETHANEDIYL)BISGUANIDINE □ GUANIDINE, N,N'-(DITHIODI-2,1-ETHANEDIYL)BIS-(9CI) □ GUANIDINE, 1,1'-(DITHIODIETHYLENE)DI- □ GUANIDINOETHYL DISULFIDE □ GUANIDOETHYL DISULFIDE □ GUANYLCYSTAMINE

TOXICITY DATA with REFERENCE:

dnd-unr-lym 200 mmol/L IJRBA3 9,185,65

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

GLI000 CAS: 73-40-5 HR: 2
GUANINE
mf: $C_5H_5N_5O$ mw: 151.15

PROP: Crystals. Usually amorph. Decomp: $>360^\circ$ with partial subl. Very sol in ammonia water, aq KOH solns, dil acids; very sltly sol in alc, ether; insol in water.

SYNS: 2-AMINOHYPOXANTHINE □ MEALMAID

TOXICITY DATA with REFERENCE:sln-hmn:lym 30 μ mol/L MUTAEX 1,99,86

cyt-mus-ipr 15 ng/kg NULSAK 19,40,76

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

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

GLK000 CAS: 635-39-2 HR: 3
GUANINE HYDROCHLORIDE
mf: $C_5H_5O \cdot ClH$ mw: 187.61

PROP: Crystalline powder. Practically insol in water, alc, ether; sol in acidulated H_2O .

SYN: USAF S-1

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GLK100 CAS: 18905-29-8 HR: 3
GUANINE-3-N-OXIDE
mf: $C_5H_5N_5O_2$ mw: 167.15**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:75 mg/kg ARPAAQ 86,395,68

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

GLM000 CAS: 5227-68-9 HR: 3
GUANINE-7-N-OXIDE
mf: $C_5H_5N_5O_2$ mw: 167.15

PROP: Brownish crystals from $3H_2O$.

SYN: 7-HYDROXYGUANINE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:95 mg/kg ADTEAS 3,181,68

ipr-mus LD50:40 mg/kg JANTAJ 38,972,85

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

GLO000 CAS: 19039-44-2 HR: 2
GUANINE-3-N-OXIDE HEMIHYDROCHLORIDE
mf: $C_5H_5O_2 \cdot \frac{1}{2} ClH$ mw: 115.33

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

GLO100 CAS: 67848-07-1 HR: D
(GUANINE)PENTAAMMINERUTHENIUM(3+)
TRICHLORIDE

SYN: RUTHENIUM(3+), (GUANINE)PENTAAMMINE-, TRICHLORIDE

TOXICITY DATA with REFERENCE:mic-sat 400 μ mol/L CBINA8 31,355,1980

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

GLQ000 CAS: 39202-39-6 HR: 3
GUANOCTINE
mf: $C_{18}H_{41}N_7 \cdot H_2O_4S$ mw: 453.74

SYNS: N,N'-DIAMIDINO-9-AZA-1,17-HEPTADECANEDIAMINE HYDROGEN SULFATE □ DI-(8-GUANIDINO-OCTYL)AMINE SULFATE □ (IMINOBIS(OCTAMETHYLENE))-DIGUANIDINE SULFATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:227 mg/kg FMCHA2 -,D230,80

skn-rbt LD50:1176 μ g/kg FMCHA2 -,D230,80

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

GLQ100 CAS: 57520-17-9 HR: 3
GUANOCTINE TRIACETATE
mf: $C_{18}H_{41}N_7 \cdot 3C_2H_4O_2$ mw: 535.84

SYNS: 9-AZA-1,17-DIGUANIDINOHEPTADECANE TRIACETATE □ BEFRAN □ DF 125 □ GUANIDINE, N,N''-(IMINODI-8,1-OCTANEDIYL)BIS-, TRIACETATE □ GUANIDINE, 1,1'-(IMINOBIS(OCTAMETHYLENE))DI-, TRIACETATE □ GUAZATINE TRIACETATE □ GUAZATIN TRIACETATE □ HEPTADECANE, 9-AZA-1,17-DIGUANIDINO-, TRIACETATE □

1,1'-(IMINOBI(SOCTAMETHYLENE))DI-GUANIDINE
TRIACETATE □ PANOPTINE TRIACETATE □ SN 513

TOXICITY DATA with REFERENCE:

orl-rat LD50:260 mg/kg GUCHAZ 6,295,73
skn-rat LD50:>1500 mg/kg JPIFAN 49,7,86
skn-rbt LD50:1100 mg/kg PEMNDP 9,461,91
orl-ckn LD50:125 mg/kg 85JCAE -,975,86

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

GLS000 CAS: 118-00-3 HR: 3 GUANOSINE

mf: C₁₀H₁₃N₅O₅ mw: 283.28

PROP: A component of nucleic acids. Mp: 239°
(decomp).

SYNS: GR □ GUANINE, 9-β-D-RIBOFURANOSYL- □ GUAN-
INE RIBOSIDE □ 2(3H)-IMINO-9-β-D-RIBOFURANOSYL-9H-
PURIN-6(1H)-ONE □ INOSINE, 2-AMINO- □ RIBOFURANOS-
IDE, GUANINE-9, β-D- □ 9-β-D-RIBOFURANOSYLGUANINE □
USAF CB-11 □ VERNINE

TOXICITY DATA with REFERENCE:

pic-esc 1 g/L ZAPOAK 12,583,72
oms-hmn:oth 1 mmol/L JIDEAE 65,52,75
ipr-mus LD50:500 mg/kg NTIS** AD277-689
ivn-mus LD50:180 mg/kg CSLNX* NX#03206

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.

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

GLS100 CAS: 2564-35-4 HR: D GUANOSINE 2'-DEOXY-, 5'-TRIPHOSPHATE

mf: C₁₀H₁₆N₅O₁₃P₃ mw: 507.22

SYNS: DEOXY-GTP □ 2'-DEOXYGUANOSINE 5'-(TETRA-
HYDROGEN TRIPHOSPHATE) □ DEOXYGUANOSINE
TRIPHOSPHATE □ DEOXYGUANOSINE 5'-TRIPHOSPHATE □
DGTP □ GUANOSINE, 2'-DEOXY-, 5'-(TETRAHYDROGEN
TRIPHOSPHATE) □ GUANOSINE 5'-(TETRAHYDROGEN
TRIPHOSPHATE), 2'-DEOXY-(9CI)

TOXICITY DATA with REFERENCE:

sce-hmn-lym 10 mg/L MUREAV 356,261,1996

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

GLS700 CAS: 1021-11-0 HR: 3 GUANOXYFEN SULFATE

mf: C₂₀H₃₀N₆O₂•H₂O₄S mw: 484.61

PROP: A solid. Mp: 145–146°.

SYNS: C.I. 515 □ EA 166 □ (3-PHENOXYPROPYL)GUANIDINE
SULFATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:402 mg/kg JPETAB 143,374,64
ipr-mus LD50:123 mg/kg JPETAB 143,374,64
ivn-mus LD50:17 mg/kg JPETAB 143,374,64
ims-mus LD50:122 mg/kg JPETAB 143,374,64

SAFETY PROFILE: Poison by intravenous,
intramuscular, and intraperitoneal routes. Moderately toxic
by ingestion. See also SULFATES.

GLS750 CAS: 85-32-5 HR: 2 5'-GUANYLIC ACID

mf: C₁₀H₁₄N₅O₈P mw: 363.26

SYNS: GMP □ 5'-GMP □ GUANIDINE MONOPHOSPHATE □
GUANOSINE MONOPHOSPHATE □ GUANOSINE 5'-
MONOPHOSPHATE □ GUANOSINE 5'-MONOPHOSPHORIC
ACID □ GUANOSINE 5'-PHOSPHATE □ GUANYLIC ACID

TOXICITY DATA with REFERENCE:

oth-hmn:oth 1 mmol/L JIDEAE 65,52,75
ipr-mus LDLo:1500 mg/kg ANYAA9 60,251,54

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.

SAFETY PROFILE: Moderately toxic by
intraperitoneal route. Human mutation data reported.
When heated to decomposition it emits toxic vapors of
NO_x and PO_x.

GLS800 CAS: 5550-12-9 HR: 2 GUANYLIC ACID SODIUM SALT

mf: C₁₀H₁₄N₅O₈P•2Na mw: 409.24

PROP: Colorless to white crystals; characteristic taste.
Sol in water; sltly sol in alc; insol in ether.

SYNS: DISODIUM GMP □ DISODIUM-5'-GMP □ DISODIUM
GUANYLATE (FCC) □ DISODIUM-5'-GUANYLATE □ GMP
DISODIUM SALT □ 5'-GMP DISODIUM SALT □ GMP SODIUM
SALT □ SODIUM GMP □ SODIUM GUANOSINE-5'-
MONOPHOSPHATE □ SODIUM GUANYLATE □ SODIUM-5'-
GUANYLATE

TOXICITY DATA with REFERENCE:

cyt-ham:fbr 1 g/L FCTOD7 22,623,84
ipr-rat LD50:3880 mg/kg AJINO* -,73
scu-rat LD50:3400 mg/kg AJINO* -,73
ivn-rat LD50:2720 mg/kg AJINO* -,73
orl-mus LD50:15 g/kg AJINO* -,73
ipr-mus LD50:5010 mg/kg AJINO* -,73
scu-mus LD50:5050 mg/kg AJINO* -,73
ivn-mus LD50:3580 mg/kg AJINO* -,73

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.

SAFETY PROFILE: Moderately toxic by
intraperitoneal, subcutaneous, and intravenous routes.
Mildly toxic by ingestion. Mutation data reported. When
heated to decomposition it emits toxic fumes of PO_x,
NO_x, and Na₂O.

GLS900 CAS: 141-83-3 HR: 2 GUANYLUREA

mf: C₂H₆N₄O mw: 102.12

SYNS: AMIDINOUREA □ N-AMIDINOUREA □ 1-AMIDINO-
UREA □ N-CARBAMOYLGUANIDINE □ 1-CARBAMOYL-
GUANIDINE □ DICYANDIAMIDINE □ GUANIDINE-
CARBOXAMIDE □ UREA, AMIDINO- □ UREA, GUANYL-

TOXICITY DATA with REFERENCE:

orl-rat LD:>500 mg/kg NCNSA6 5,47,53

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.

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

GLU000 CAS: 9000-30-0 HR: 1

GUAR GUM

PROP: Yellowish-white powder; odorless. Sol in water; insol in oils, grease, hydrocarbons, ketones, esters. Obtained from the ground endosperms of *Cyanopsis tetragonoloba* L. Taub (Fam. Leguminosae).

SYNS: 1212A □ A-20D □ BURTONITE V-7-E □ CYAMOPSIS GUM □ DEALCA TP1 □ DEALCA TP2 □ DECORPA □ GALACTASOL □ GENDRIV 162 □ GUAR □ GUARAN □ GUAR FLOUR □ GUM CYAMOPSIS □ GUM GUAR □ INDALCA AG □ INDALCA AG-BV □ INDALCA AG-HV □ JAGUAR □ JAGUAR 6000 □ JAGUAR A 20 B □ JAGUAR A 20D □ JAGUAR A 40F □ JAGUAR GUM A-20-D □ JAGUAR No. 124 □ JAGUAR PLUS □ J 2Fp □ LYCOID DR □ NCI-C50395 □ REGONOL □ REIN GUARIN □ SUPERCOL G.F. □ SUPERCOL U POWDER □ SYNGUM D 46D □ UNI-GUAR

TOXICITY DATA with REFERENCE:

orl-rat TDLo:228 g/kg/13W-C:REP NTPTR* NTP-TR-229,82

orl-rat LD50:6770 mg/kg FCTXAV 19,287,81

orl-mus LD50:8100 mg/kg FDRLI* 124-,76

orl-rbt LD50:7000 mg/kg FDRLI* 124-,76

orl-ham LD50:6000 mg/kg FDRLI* 124-,76

CONSENSUS REPORTS: NTP Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NTPTR* NTP-TR-229,82. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

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

**GLW000
GUAVA****HR: 2**

PROP: Material extracted with hot water from the unripe fruits of *P. guajava* (JNCIAM 60,683,78).

SYN: PSIDIUM GUAJAVA

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

GLY000 CAS: 9000-28-6**HR: 1****GUM GHATTI**

PROP: The gummy exudation from the stem of *Anogeissus latifolia*. Colorless to pale-yellow tears; almost odorless. Sltly sol in water.

SYN: INDIAN GUM

TOXICITY DATA with REFERENCE:

orl-rat LD50:17 g/kg FDRLI* 124-,76

orl-rbt LD50:7000 mg/kg FDRLI* 124-,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

GLY100 CAS: 9000-29-7**HR: 2****GUM GUAIAC**

PROP: From wood of *guajacum officinale* L. or *Guajacum sanctum* L. (Fam. Zygophyllaceae). Brown solid; balsamic odor, sltly acrid taste. Sol in alc, ether, chloroform, solns of alkalies; sltly sol in carbon disulfide, benzene.

SYN: GUAIAC GUM

TOXICITY DATA with REFERENCE:

orl-gpg LD50:1120 mg/kg AFREAW 3,197,51

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

**GMA000 CAS: 39300-88-4 HR: D
GUM TARA**

PROP: Off white powder. Sol in water: <1 mg/mL @ 17°.

SYNS: NCI-C54364 □ TARA GUM

CONSENSUS REPORTS: NTP Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NTPTR* NTP-TR-224,82.

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

**GMC000 CAS: 73341-70-5 HR: 3
GUNACIN**

mf: C₁₇H₁₆O₈ mw: 348.33

PROP: Orange powder.

TOXICITY DATA with REFERENCE:

dni-omi 200 µg/L JANTAJ 32,1104,79

ipr-mus LD50:16 mg/kg JANTAJ 32,1104,79

ivn-mus LD50:12 mg/kg JANTAJ 32,1104,79

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

**GME000 CAS: 8030-55-5 HR: 1
GURJUN BALSAM**

PROP: Oleoresin from various species of *Dipterocarpus* (FCTXAV 14,789,76).

SYNS: BALSAM GURJUN □ EAST INDIAN COPAIBA □ WOOD OIL

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,789,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**GME300 CAS: 11048-92-3 HR: 3
α-2-GUTTIFERIN**

mf: C₃₃H₃₈O₈ mw: 562.71

PROP: A solid. Mp: 113–115°.

SYNS: α-GUTTIFERIN (9CI) □ A²-GUTTIFERIN □ Y-GUTTIFERIN

TOXICITY DATA with REFERENCE:

ipr-rat LD50:91 mg/kg IJEB A6 5,96,67

scu-rat LD50:279 mg/kg IJEB A6 5,96,67

ivn-rat LD50:105 mg/kg IJEB A6 5,96,67

ipr-mus LD50:83 mg/kg IJEB A6 5,96,67

scu-mus LD50:400 mg/kg 85GDA2 8(1),331,82

ivn-mus LD50:97 mg/kg IJEB A6 5,96,67

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

**GMG000 CAS: 639-14-5 HR: 3
GYPSOGENIN**

mf: $C_{30}H_{46}O_4$ mw: 470.76

PROP: Needles or leaflets from methanol; crystals from MeOH. Mp: 274–276°.

SYNS: ALBSAPOGENIN □ ASTRANTIAGENIN D □ GITHAGENIN □ GYPSOPHILASAPOGENIN □ GYPSOPHILASAPONIN □ 3-β-HYDROXY-23-OXO-OLEAN-12-EN-28-OIC ACID □ SAPONIN-GYPSOPHILA

TOXICITY DATA with REFERENCE:

orl-mus LDLo:2 g/kg HBAMAK 4,1289,35

scu-mus LDLo:100 mg/kg HBAMAK 4,1289,35

ivn-mus LDLo:15 mg/kg HBAMAK 4,1289,35

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

GMG100

CAS: 24237-00-1

HR: 1

GYRANE

mf: $C_{11}H_{20}O$ mw: 168.31

PROP: Cosmetic fragrance.

SYNS: 6-BUTYL-2,4-DIMETHYLDIHYDROPYRANE □ 2H-PYRAN, 3,6-DIHYDRO-6-BUTYL-2,4-DIMETHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTOD7 26,289,88

skn-rbt LD50:>5 g/kg FCTOD7 26,289,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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