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FAB000 CAS: 88-27-7 HR: 2

F 1 (antioxidant)

mf: C₁₇H₂₉NO mw: 263.47

SYNS: AGIDOL 3 □ p-CRESOL, 2,6-DI-tert-BUTYL-α-(DI-METHYLAMINO)- □ 2,6-DI-tert-BUTYL-α-(DIMETHYL-AMINO)-p-CRESOL □ ETHYL 703 □ ETHYL ANTIOXIDANT 703 □ F 1 □ OMI □ PHENOL, 4-((DIMETHYLAMINO)METHYL)-2,6-BIS(1,1-DIMETHYLETHYL)-(9CI)

TOXICITY DATA with REFERENCE:

orl-rat LD50:1030 mg/kg IPSTB3 3,93,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FAB010 HR: 3

F III (sugar fraction)

PROP: Sugar fraction of the extract obtained from *Sasa albamarginata* with a molecular weight between 5000 and 10,000 (YKKZAJ 99,663,79).

TOXICITY DATA with REFERENCE:

orl-mus LD50:10 g/kg YKKZAJ 99,663,77

ipr-mus LD50:2750 mg/kg YKKZAJ 99,663,77

scu-mus TD50:6400 mg/kg YKKZAJ 99,663,77

ivn-mus LD50:360 mg/kg YKKZAJ 99,663,77

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

FAB100 HR: 3

FALSE HELLEBORE

PROP: Top (plant) material from *Veratrum californicum* (Durand) (CJBIAE 44,829,66). Tall, perennial herbs with pleated leaves and white flowers with green marks. The winged seeds are held in a small pod. The various species grow wild in the region bounded by the Aleutian Islands, most of Canada, New Mexico, and Georgia.

SYNS: AMERICAN WHITE HELLEBORE □ CORN LILY □ EARTH GALL □ GREEN HELLEBORE □ INDIAN POKE □ ITCH WEED □ PEPPER-ROOT □ RATTLESNAKE WEED □ SKUNK CABBAGE □ SWAMP HELLEBORE □ TICKLE WEED □ VERATRUM ALBUM □ VERATRUM CALIFORNICUM □ VERATRUM VIRIDE □ WHITE HELLEBORE

TOXICITY DATA with REFERENCE:

orl-dom TDLo:236 g/kg(1-20D preg):TER AJVRAH 24,1164,63

orl-mus LD50:900 mg/kg AFECAT 76(815),65,83

orl-ham LDLo:15 mg/kg AMZOAF 9,1134,69

SAFETY PROFILE: Poison by ingestion. Experimental teratogenic effects. All parts of the plant

contain poisonous veratrum alkaloids. Ingestion of any part of the plant causes an immediate pain in the abdomen followed by nausea and vomiting, blurred vision, confusion, slowed heartbeat, and low blood pressure. The subject may feel as if he is having a heart attack. Effects usually last only 24 hours.

FAB400 CAS: 13171-21-6 HR: 2

FAMFOS

mf: C₁₀H₁₉ClNO₅P mw: 299.72

PROP: Pale-yellow liquid. D: 1.21 @ 25°/4°, bp: 162° @ 1.5 mm. Sol in H₂O; most org solvs.

SYNS: APAMIDON □ C 570 □ (2-CHLOOR-3-DIETHYLAMINO-1-METHYL-3-OXO-PROP-1-EN-YL)-DIMETHYL-FOSFAAT □ (2-CHLOR-3-DIAETHYLAMINO-1-METHYL-3-OXO-PROP-1-EN-YL)-DIMETHYL-PHOSPHAT □ 2-CHLORO-2-DIETHYL-CARBAMOYL-1-METHYLVINYL DIMETHYLPHOSPHATE □ 1-CHLORO-DIETHYLCARBAMOYL-1-PROPEN-2-YL DIMETHYL PHOSPHATE □ (2-CLORO-3-DIETILAMINO-1-METIL-3-OXO-PROP-1-EN-IL)-DIMETIL-FOSFATO □ CIBA 570 □ CROTON-AMIDE, 2-CHLORO-N,N-DIETHYL-3-HYDROXY-, DIMETHYL PHOSPHATE □ DIMECRO □ DIMECRO 100 □ DIMETHYL 2-CHLORO-2-DIETHYLCARBAMOYL-1-METHYLVINYL PHOSPHATE □ O,O-DIMETHYL O-(2-CHLORO-2-(N,N-DIETHYLCARBAMOYL)-1-METHYLVINYL) PHOSPHATE □ DIMETHYL DIETHYLAMIDO-1-CHLOROCROTONYL (2) PHOSPHATE □ O,O-DIMETHYL-O-(1-METHYL-2-CHLOR-2-N,N-DIAETHYL-CARBAMOYL)-VINYL-PHOSPHAT □ (O,O-DIMETHYL-O-(1-METHYL-2-CHLORO-2-DIETHYL-CARBAMOYL-VINYL) PHOSPHATE) □ DIMETHYL PHOSPHATE of 2-CHLORO-N,N-DIETHYL-3-HYDROXYCROTONAMIDE □ DIXON □ ENT 25,515 □ FOSFAMIDON □ FOSFAMIDONE □ FOSZFAMIDON □ ML 97 □ NCI-C00588 □ OMS 1325 □ OR 1191 □ PHOSPHAMIDON □ PHOSPHATE de DIMETHYLE et de (2-CHLORO-2-DIETHYLCARBAMOYL-1-METHYL-VINYLE)

TOXICITY DATA with REFERENCE:

mno-sat 5 µg/plate IJEBA6 24,305,86

mma-sat 9 mg/plate ENMUDM 5(Suppl 1),3,83

cyt-hmn:lyms 1900 µg/L MUREAV 31,103,75

cyt-hmn:leu 5 µmol/L IJEBA6 18,1145,80

bfa-rat:sat 5800 µg/kg IJEBA6 24,305,86

mnt-mus-orl 10 mg/kg/24H BECTA6 25,277,80

orl-mus TDLo:5 mg/kg (7D post):REP TOLED5 42,101,88

orl-rat TDLo:5400 mg/kg/80W-C:ETA NCITR* NCI-TR-16,79

orl-rat LD50:8 mg/kg 85JCAE -,1138,86

ihl-rat LC50:135 mg/m³/4H EGESAQ 24,173,80

skn-rat LD50:125 mg/kg PHJOAV 185,361,60

ipr-rat LD50:8700 µg/kg PESTD5 17,351,76

scu-rat LD50:15 mg/kg IPPABX 4,253,68

orl-mus LD50:6 mg/kg SPEADM 78-1,28,78

ihl-mus LC50:30 mg/m³/1H PSDTAP 15,239,74

ipr-mus LD50:5800 µg/kg TXAPA9 13,37,68

scu-mus LD50:13,200 µg/kg APTAK 132,180,61
 ivn-mus LD50:6 mg/kg ATXKA8 18,316,60
 orl-rbt LD50:70 mg/kg 85GYAZ -,33,71
 skn-rbt LD50:80 mg/kg 85JCAE -,1138,86
 ihl-gpg LC50:1300 mg/m³/4H PSDTAP 15,239,74
 orl-dck LD50:3100 µg/kg DOEAAH 35,25,79
 skn-dck LD50:26 mg/kg TXAPA9 47,451,79
 orl-brd LD50:1800 µg/kg TXAPA9 21,315,72

CONSENSUS REPORTS: NTP Carcinogenesis Bioassay (feed): No Evidence: mouse NCITR* NCI-TR-16,79; Inadequate Studies: rat NCITR* NCI-TR-16,79. EPA Extremely Hazardous Substances List.

SAFETY PROFILE: Poison by ingestion and most other routes. An experimental teratogen. Experimental reproductive data. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and PO_x.

**FAB500 CAS: 76824-35-6 HR: 2
FAMOTIDINE**

mf: C₈H₁₅N₇O₂S₃ mw: 337.48

PROP: Mp: 163–164°. Solubility at 20° (%, w/v): 80 in DMF; 50 in acetic acid; 0.3 in methanol; 0.1 in water; <0.01 in ethanol, ethyl acetate, chloroform.

SYNS: 3-((2-((AMINOIMINOMETHYL)AMINO)-4-THIAZOLYL)-METHYL)THIO)-N-(AMINOSULFONYL)PROPANIMIDAMIDE □ 3-(((2-((DIAMINOMETHYLENE)AMINO)-4-THIAZOLYL)-METHYL)THIO)-N²-SULFAMOYLPROPIONAMIDINE □ FAMODIL □ GASTER □ GASTRIDIN □ MOTIAX □ PEPCID □ PEPCIDINE □ PEPDUL □ YM-11170

TOXICITY DATA with REFERENCE:

orl-rat LD50:4907 mg/kg IYKEDH 16,590,85
 ipr-rat LD50:800 mg/kg DIGEBW 32(Suppl 1),7,85
 scu-rat LD50:800 mg/kg DIGEBW 32(Suppl 1),7,85
 ivn-rat LD50:440 mg/kg YKYUA6 36,653,85
 orl-mus LD50:4686 mg/kg IYKEDH 16,590,85
 ipr-mus LD50:778 mg/kg OYYAA2 26,147,83
 ivn-mus LD50:410 mg/kg YKYUA6 36,653,85

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

**FAB600 CAS: 52-85-7 HR: 3
FAMPHUR**

mf: C₁₀H₁₆NO₅PS₂ mw: 325.36

PROP: Crystalline powder from toluene/cyclohexane. Mp: 52.5–53.5°. Very sol in chloroform and carbon tetrachloride; sltly sol in water.

SYNS: AC 38023 □ AMERICAN CYANAMID-38023 □ AMERICAN CYANAMID CL-38,023 □ BO-ANA □ CL-38023 □ CYFLEE □ O-(4-((DIMETHYLAMINO)SULFONYL)PHENYL) O,O-DIMETHYL PHOSPHOROTHIOATE □ O,O-DIMETHYL-O-(p-(N,N-DIMETHYLSULFAMOYL)PHENYL)PHOSPHOROTHIOATE □ DOVIP □ ENT 25,644 □ FAMFOS □ FAMOPHOS □ FAMOPHOS WARBEX □ FAMPHOS □ FANFOS □ RCRA WASTE NUMBER P097 □ WARBEX □ WARBEXOL

TOXICITY DATA with REFERENCE:

orl-rat LD50:28 mg/kg FAATDF 7,299,86
 skn-rat LD50:400 mg/kg FAATDF 7,299,86

orl-mus LD50:9500 µg/kg ABCHA6 34,1697,70
 skn-rbt LD50:1460 mg/kg WRPCA2 9,119,70
 ims-dom LD50:59 mg/kg VETNAL 54(12),94,78
 ims-mam LD50:64 mg/kg VETNAL 54(12),94,78
 orl-bwd LD50:1800 µg/kg TXAPA9 21,315,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion and intramuscular routes. Moderately toxic by skin contact. A cholinesterase inhibitor. When heated to decomposition it emits toxic fumes of NO_x and SO_x. See also PARATHION.

**FAB800 CAS: 4602-84-0 HR: 2
FARNESOL**

mf: C₁₅H₂₆O mw: 222.41

PROP: trans-Farnesol: Light-yellow liquid; mild oily odor. Bp: 111°, n: (25/D) 1.4872. Commercial farnesol: Bp: 110–113°, d: (20/4) 0.8871, n: (20/D) 1.4870, refr index: 1.487–1.492. Insol in water @ 263°.

SYNS: FARNESYL ALCOHOL □ FEMA No. 2478 □ 3,7,11-TRIMETHYL-2,6,10-DODECATRIEN-1-OL

TOXICITY DATA with REFERENCE:

dni-oin:ovr 100 µmol/L ABCHA6 43,1285,79
 orl-rat LD50:6000 mg/kg THERAP 27,893,72
 orl-mus LD50:7400 mg/kg THERAP 27,893,72
 ipr-mus LD50:443 mg/kg THERAP 27,893,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**FAB830 CAS: 1064-48-8 HR: D
FAST SULON BLACK BN**

mf: C₂₂H₁₆N₆O₉S₂•2Na mw: 618.54

PROP: Dark brown granular solid. Mp: >350°.

SYNS: ACIDAL BLACK 10B □ ACIDAL NAVY BLUE 3BR □ ACID BLACK 10A □ ACID BLACK 10B □ ACID BLACK 12B □ ACID BLACK 10BA □ ACID BLACK BASE M □ ACID BLACK 4BN □ ACID BLACK 4BNU □ ACID BLACK 10BN □ ACID BLACK BRX □ ACID BLACK BX □ ACID BLACK H □ ACID BLACK 1 □ ACID BLACK JVS □ ACID BLUE BLACK B □ ACID BLUE BLACK 10B □ ACID BLUE BLACK BG □ ACID BLUE BLACK DOUBLE 600 □ ACID LEATHER BLUE IGW □ ACID LEATHER DARK BLUE G □ ACID LEATHER FAST BLUE BLACK G □ AIREDALE BLACK 2BG □ AMACID BLACK 10BR □ ATUL ACID BLACK 10BX □ ATUL ACID BLACK BX □ AZANOL FAST ACID BLACK 10B □ AZO DARK BLUE C 2B □ AZO DARK BLUE HR □ AZO DARK BLUE S □ AZO DARK BLUE SH □ BLUE BLACK 12B □ BLUE BLACK SX □ BORUTA BLACK A □ BRASILAN BLACK BS □ BUCACID BLUE BLACK □ CALCOCID BLUE BLACK □ CALCOCID BLUE BLACK 2R □ CERN KYSELA 1 □ C.I. 20470 □ C.I. ACID BLACK 1 (7CI) □ C.I. ACID BLACK 1, DISODIUM SALT (8CI) □ COLACID BLACK 10A □ COMACID BLUE BLACK B □ DIACID BLUE BLACK 10B □ ENIACID BLACK IVS □ ENIACID BLACK SH □ ERIOSIN BLUE BLACK B □ FENAZO BLUE BLACK □ 2,7-NAPHTHALENEDISULFONIC ACID, 4-AMINO-5-HYDROXY-3-((4-NITROPHENYL)AZO)-6-(PHENYLAZO)-, DISODIUM SALT

TOXICITY DATA with REFERENCE:

mmo-sat 50 µg/plate EMMUEG 22,188,93

mna-sat 50 µg/plate EMMUEG 22,188,93

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FAB850

HR: D

FATTY ACIDS

PROP: Consists of capric, caprylic, lauric, myristic, oleic, palmitic, and stearic acids manufactured from fats and oils derived from edible sources.

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

FAB880

HR: 1

FATTY ACID, SOAP (C12-14)

TOXICITY DATA with REFERENCE:

skn-hmn 2500 µg/24H MOD AKEDAX 235,180,69

skn-rbt 10 mg MLD JSCCA5 22,411,71

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

FAB900

CAS: 61789-01-3

HR: 2

FATTY ACID, TALL OIL, EPOXIDIZED-2-ETHYLHEXYL ESTER

mf: C₂₆H₄₈O₄ mw: 424.74

PROP: White paste. Flash pt: 293° F.

SYNS: FLEXOL EP-8 □ sec-OCTYL EPOXYTALLATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:20,800 mg/kg NPIRI* 2,31,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FAB920

CAS: 61788-72-5

HR: 1

FATTY ACID, TALL OIL, EPOXIDIZED, OCTYL ESTER

SYNS: ADMEX 741 □ ADMEX 746 □ DRAPEX 4.4 □ OCTYL EPOXYTALLATE □ PLASTOLEIN 9214 □ PX-806

TOXICITY DATA with REFERENCE:

orl-rat LD50:32 g/kg NPIRI* 2,80,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FAC050

CAS: 2014-22-4

HR: 3

FC 402

mf: C₁₄H₂₁NO₂•ClH mw: 271.82

SYN: N,N-DIETHYLGLYCINE-2,6-XYLYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MOD BCFAAI 107,310,68

eye-rbt 1 g MOD BCFAAI 107,310,68

scu-mus LD50:1350 mg/kg BCFAAI 107,310,68

ivn-mus LD50:35 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Poison by intravenous route.

Moderately toxic by subcutaneous route. An eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

FAC060

CAS: 2173-44-6

HR: 3

FC 410

mf: C₁₅H₂₂N₂O₂•2ClH mw: 335.31

SYN: 4-METHYL-1-PIPERAZINEACETIC ACID 2,6-XYLYL ESTER DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MOD BCFAAI 107,310,68

eye-rbt 1 g MOD BCFAAI 107,310,68

scu-mus LD50:500 mg/kg BCFAAI 107,310,68

ivn-mus LD50:22 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Poison by intravenous route.

Moderately toxic by subcutaneous route. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

FAC100

CAS: 2014-27-9

HR: 2

FC 457

mf: C₁₅H₂₃NO₂•ClH mw: 285.85

SYN: 1-N,N-DIETHYLALANINE-2,6-XYLYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MLD BCFAAI 107,310,68

eye-rbt 1 g MLD BCFAAI 107,310,68

scu-mus LD50:1275 mg/kg BCFAAI 107,310,68

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

FAC130

CAS: 20684-29-1

HR: 3

FC 480

mf: C₁₇H₂₆N₂O₂•ClH mw: 326.91

SYNS: 2,6-DIMETILFENILICO DELL'ACIDO α-N-METILPIPERAZINOBUTIRRICO IDOCLORIDRAT (ITALIAN) □ α-ETHYL-4-METHYL-1-PIPERAZINEACETIC ACID-2,6-XYLYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MOD BCFAAI 107,310,68

eye-rbt 1 g MOD BCFAAI 107,310,68

orl-mus LD50:230 mg/kg BCFAAI 107,310,68

ipr-mus LD50:82 mg/kg BCFAAI 107,310,68

scu-mus LD50:410 mg/kg BCFAAI 107,310,68

ivn-mus LD50:20 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by subcutaneous route. An eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

FAC150

CAS: 2085-83-8

HR: 2

FC 590

mf: C₂₀H₂₅NO₂•ClH mw: 347.92

SYN: N,N-DIETHYL-2-PHENYL-GLYCINE-2,6-XYLYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MLD BCFAAI 107,310,68

eye-rbt 1 g MLD BCFAAI 107,310,68

scu-mus LD50:1200 mg/kg BCFAAI 107,310,68

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

**FAC155 CAS: 19245-07-9 HR: 3
FC 591**

mf: C₂₂H₂₈N₂O₃•ClH mw: 404.98

SYN: 4-(2-HYDROXYETHYL)-α-PHENYL-1-PIPERAZINE-ACETIC ACID-2,6-XYLYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg SEV BCFAAI 107,310,68

eye-rbt 1 g SEV BCFAAI 107,310,68

scu-mus LD50:65 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Poison by subcutaneous route. A severe eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

**FAC157 CAS: 2282-89-5 HR: 2
FC 642**

mf: C₁₇H₂₇NO₂•ClH mw: 313.91

SYN: 1-N,N-DIETHYLALANINE-2,6-DIETHYLPHENYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MOD BCFAAI 107,310,68

eye-rbt 1 g MOD BCFAAI 107,310,68

scu-mus LD50:1750 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Moderately toxic by subcutaneous route. An eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

**FAC160 CAS: 1877-53-8 HR: 3
FC 646**

mf: C₂₀H₃₂N₂O₂•2ClH mw: 405.46

SYN: α,4-DIMETHYL-1-PIPERAZINEACETIC ACID-2,6-DIISOPROPYLPHENYL ESTER DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg SEV BCFAAI 107,310,68

eye-rbt 1 g SEV BCFAAI 107,310,68

scu-mus LD50:600 mg/kg BCFAAI 107,310,68

ivn-mus LD50:42 mg/kg BCFAAI 107,310,68

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

**FAC163 CAS: 2409-35-0 HR: 2
FC 650**

mf: C₁₅H₂₃NO₄•ClH mw: 317.85

SYN: 1-N,N-DIETHYLALANINE-2,6-DIMETHOXYPHENYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MOD BCFAAI 107,310,68

eye-rbt 1 g MOD BCFAAI 107,310,68

scu-mus LD50:1425 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Moderately toxic by subcutaneous route. An eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

**FAC165 CAS: 1877-52-7 HR: 3
FC 651**

mf: C₁₉H₃₀N₂O₂•2ClH mw: 391.43

SYN: α-ETHYL-4-METHYL-1-PIPERAZINEACETIC ACID-2,6-DIETHYLPHENYL ESTER DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MOD BCFAAI 107,310,68

eye-rbt 1 g MOD BCFAAI 107,310,68

scu-mus LD50:540 mg/kg BCFAAI 107,310,68

ivn-mus LD50:34 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. An eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

**FAC166 CAS: 2085-85-0 HR: 2
FC 652**

mf: C₁₄H₂₁NO₄•ClH mw: 303.82

SYN: N,N-DIETHYLGLYCINE-2,6-DIMETHOXYPHENYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MLD BCFAAI 107,310,68

eye-rbt 1 g MLD BCFAAI 107,310,68

scu-mus LD50:550 mg/kg BCFAAI 107,310,68

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

**FAC170 CAS: 2014-32-6 HR: 2
FC 657**

mf: C₁₅H₂₃NO₂•ClH mw: 285.85

SYN: N,N-DIETHYLGLYCINE MESITYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MOD BCFAAI 107,310,68

eye-rbt 1 g MOD BCFAAI 107,310,68

scu-mus LD50:2000 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Moderately toxic by subcutaneous route. An eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

**FAC175 CAS: 2014-33-7 HR: 2
FC 659**

mf: C₁₆H₂₃NO₂•ClH mw: 297.86

SYN: MESITYL ESTER of 1-PIPERIDINEACETIC ACID HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MOD BCFAAI 107,310,68

eye-rbt 1 g MOD BCFAAI 107,310,68

scu-mus LD50:2000 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Moderately toxic by subcutaneous route. An eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

**FAC179 CAS: 2173-47-9 HR: 2
FC 660**

mf: C₁₆H₂₅NO₂•ClH mw: 299.88

SYN: 1-N,N-DIETHYLALANINE MESITYL ESTER HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MLD BCFAAI 107,310,68
 eye-rbt 1 g MLD BCFAAI 107,310,68
 scu-mus LD50:2000 mg/kg BCFAAI 107,310,68

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

**FAC185 CAS: 2014-31-5 HR: 3
 FC 668**

mf: C₁₅H₂₁ClN₂O₂•2ClH mw: 369.75

SYN: α,4-DIMETHYL-1-PIPERAZINEACETIC ACID-6-CHLORO-o-TOLYL ESTER DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MOD BCFAAI 107,310,68
 eye-rbt 1 g MOD BCFAAI 107,310,68
 scu-mus LD50:180 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Poison by subcutaneous route. An eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

**FAC195 CAS: 1940-89-2 HR: 3
 FC 681**

mf: C₁₈H₂₈N₂O₂•2ClH mw: 377.40

SYN: α-ETHYL-4-METHYL-1-PIPERAZINEACETIC ACID MESITYL ESTER DIHYDROCHLORIDE

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MOD BCFAAI 107,310,68
 eye-rbt 1 g MOD BCFAAI 107,310,68
 scu-mus LD50:250 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Poison by subcutaneous route. An eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

**FAE000 CAS: 3844-45-9 HR: 2
 FD&C BLUE No. 1**

mf: C₃₇H₃₆N₂O₉S₃•2Na mw: 794.91

PROP: Dark-purple to bronze powder with metallic luster. Sol in water, ether, conc sulfuric acid.

SYNS: ACID SKY BLUE A □ AIZEN FOOD BLUE No. 2 □ 1206 BLUE □ BRILLIANT BLUE FCD No. 1 □ BRILLIANT BLUE FCF □ CANACERT BRILLIANT BLUE FCF □ C.I. 42090 □ C.I. ACID BLUE 9, DISODIUM SALT □ C.I. FOOD BLUE 2 □ COGILOR BLUE 512.12 □ COSMETIC BLUE LAKE □ D&C BLUE No. 4 □ DISPERSED BLUE 12195 □ DOLKVAL BRILLIANT BLUE □ EDICOL BLUE CL 2 □ ERIOGLAUCINE G □ FENAZO BLUE XI □ FOOD BLUE 2 □ FOOD BLUE DYE No. 1 □ HEXACOL BRILLIANT BLUE A □ INTRACID PURE BLUE L □ MERANTINE BLUE EG □ USACERT BLUE No. 1

TOXICITY DATA with REFERENCE:

cyt-ham:lng 4400 mg/L GANMAX 27,95,81
 scu-rat TDLo:5500 mg/kg/97W-I:NEO ZEKBAI 64,287,61
 scu-mus LD50:4600 mg/kg ZEKBAI 64,287,61

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 16,171,78. Reported in EPA TSCA Inventory.

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

**FAE100 CAS: 860-22-0 HR: 3
 FD&C BLUE No. 2**

mf: C₁₆H₁₀N₂O₈S₂•2Na mw: 468.38

PROP: Blue-brown to red-brown powder or dark blue solid. Sol in H₂O; sltly sol in EtOH; insol in C₆H₆, CHCl₃.

SYNS: ACID BLUE W □ ACID LEATHER BLUE IC □ A.F. BLUE No. 2 □ AIRDALE BLUE IN □ AMACID BRILLIANT BLUE □ ANILINE CARMINE POWDER □ ATUL INDIGO CARMINE □ 1311 BLUE □ 12070 BLUE □ BUCACID INDIGOTINE B □ CANACERT INDIGO CARMINE □ CARMINE BLUE (BIOLOGICAL STAIN) □ C.I. 73015 □ C.I. 7581 □ C.I. ACID BLUE 74 □ C.I. FOOD BLUE 1 □ DISODIUM INDIGO-5,5-DISULFONATE □ DISODIUM SALT of 1-INDIGOTIN-S,S'-DISULPHONIC ACID □ DOLKVAL INDIGO CARMINE □ E 132 □ GRAPE BLUE A GEIGY □ INDIGO CARMINE □ INDIGO CARMINE (BIOLOGICAL STAIN) □ INDIGO CARMINE DISODIUM SALT □ INDIGO EXTRACT □ INDIGO-KARMIN (GERMAN) □ 5,5'-INDIGOTIN DISULFONIC ACID □ INDIGOTINE □ INDIGOTINE DISODIUM SALT □ INTENSE BLUE □ L-BLAU 2 (GERMAN) □ MAPLE INDIGO CARMINE □ SACHSISCHBLAU □ SCHULTZ Nr. 1309 (GERMAN) □ SODIUM-5,5'-INDIGO-TIDISULFONATE □ SOLUBLE INDIGO □ USACERT BLUE No. 2

TOXICITY DATA with REFERENCE:

mno-sat 320 µg/plate MUREAV 89,21,81
 ihl-rat TCLo:100 mg/m³/13W-I:NEO,REP GTPZAB 7(2),54,63
 orl-rat LD:>3 g/kg GTPZAB 7(2),54,63
 ivn-rat LD50:93 mg/kg NIIRDN 6,83,82

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

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and subcutaneous routes. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x, NO_x, and Na₂O.

**FAE950 CAS: 4680-78-8 HR: 2
 FD&C GREEN No. 1**

mf: C₃₇H₃₆N₂O₆S₂•Na mw: 691.86

SYNS: ACIDAL GREEN G □ ACID GREEN 3 □ ACID GREEN □ ACID GREEN B □ ACID GREEN 2G □ ACID GREEN G □ ACID GREEN L □ ACID GREEN S □ ACID LEATHER GREEN F □ ACID LEATHER GREEN 3G □ ACILAN GREEN B □ A.F. GREEN NO. 1 □ AMACID GREEN B □ BRILLIANT GREEN 3EMBL □ BUCACID GUINEA GREEN BA □ CALCOCID GREEN G □ C.I. 42085 □ C.I. ACID GREEN 3 □ C.I. ACID GREEN 3, MONOSODIUM SALT □ C.I. ACID GREEN 3, SODIUM SALT □ C.I. FOOD GREEN 1 □ FDC GREEN 1 □ FENAZO GREEN L □ FOOD GREEN 1 □ GUINEA GREEN □ GUINEA GREEN B □ GUINEA GREEN BA □ HIDACID EMERALD GREEN □ HISPACID GREEN GB □ INTRACID GREEN F □ KITON GREEN F □ KITON GREEN FC □ LEATHER GREEN B □ LISSAMINE GREEN G □ MERANTINE GREEN G □ NAPHTH-ALENE GREEN G □ NAPHTHALENE LAKE GREEN G □ NAPHTHALENE LEATHER GREEN G □ NERAN BRILLIANT GREEN G □ PONTACYL GREEN BL □ SULFACID BRILLIANT GREEN 1B □ SULPHO GREEN 2B □ VONDACID GREEN L □ ZELEN KYSELA 3 □ ZELEN POTRAVINARSKA 1

TOXICITY DATA with REFERENCE:

mma-sat 320 µg/plate MUREAV 89,21,81

ihl-rat TCLo:100 mg/m³/13W-I:NEO,REP GTPZAB 7(2),54,63
 orl-rat LD:>3 g/kg GTPZAB 7(2),54,63

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 16,199,78. Reported in EPA TSCA Inventory. Community Right-To-Know List.

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

**FAF000 CAS: 5141-20-8 HR: 2
 FD&C GREEN No. 2**

mf: C₃₇H₃₆N₂O₉S₃•2Na mw: 794.91

SYNS: ACIDAL LIGHT GREEN SF □ ACID BRILLIANT GREEN SF □ ACID GREEN A □ ACID GREEN N □ ACILAN GREEN SPG □ A.F. GREEN No. 2 □ AMACID GREEN G □ C.I. 42095 □ C.I. ACID GREEN 5 □ C.I. ACID GREEN 5, DISODIUM SALT □ C.I. FOOD GREEN 2 □ D&C GREEN No. 4 □ FAS □ FD&C GREEN No. 2-ALUMINUM LAKE □ FENAZO GREEN 7G □ FOOD GREEN 2 □ GREEN No. 203 □ LEATHER GREEN SF □ LICHTGRUEN (GERMAN) □ LIGHT GREEN FCF YELLOWISH □ LIGHT GREEN LAKE □ LIGHT SF YELLOWISH (BIOLOGICAL STAIN) □ LISSAMINE LAKE GREEN SF □ MERANTINE GREEN SF □ MY/68 □ PENCIL GREEN SF □ SULFO GREEN J □ SUMITOMO LIGHT GREEN SF YELLOWISH □ WOOL BRILLIANT GREEN SF

TOXICITY DATA with REFERENCE:

mma-sat 320 µg/plate MUREAV 89,21,81
 orl-rat TDLo:1300 g/kg/86W-C:CAR GASTAB 23,1,53
 orl-rat LD50:>2 g/kg MEIEDD 11,864,89
 scu-mus LD50:525 mg/kg ZEKBAI 64,287,61
 ivn-mus LD50:700 mg/kg TXAPA9 44,225,78

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 16,209,78. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by subcutaneous and intravenous routes. Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, Na₂O, and SO_x.

**FAG000 CAS: 2353-45-9 HR: 2
 FD&C GREEN No. 3**

mf: C₃₇H₃₆N₂O₁₀S₃•2Na mw: 810.91

PROP: Red to brown-violet powder or dark green crystals. Mp: 290° (decomp). Sol in water, conc sulfuric acid.

SYNS: AIZEN FOOD GREEN No. 3 □ C.I. 42053 □ C.I. FOOD GREEN 3 □ FAST GREEN FCF □ 1724 GREEN □ SOLID GREEN FCF

TOXICITY DATA with REFERENCE:

mma-sat 10 mg/plate FCTOD7 22,623,84
 cyt-ham:fbr 4 g/L FCTOD7 22,623,84
 cyt-ham:ovr 20 µmol/L/5H-C ENMUDM 1,27,79
 cyt-ham:lng 2 g/L GMCRDC 27,95,81

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

IMEMDT 16,187,78. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

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

**FAG010 CAS: 523-44-4 HR: 2
 FD&C ORANGE No. 1**

mf: C₁₆H₁₁N₂O₄S•Na mw: 350.34

PROP: Reddish-brown powder giving orange soln. Sol in H₂O; sltly sol in EtOH; insol in common org solvs.

SYNS: ACID LEATHER ORANGE I □ ACID PHOSPHINE CL □ A.F. ORANGE No. 1 □ AIZEN FOOD ORANGE No. 1 □ AIZEN NAPHTHOL ORANGE I □ AIZEN ORANGE I □ CERTIQUAL ORANGE I □ C.I. 14600 □ C.I. ACID ORANGE 20 □ C.I. ACID ORANGE 20, MONOSODIUM SALT □ D&C ORANGE No. 3 □ DYE ORANGE No. 1 □ EGACID ORANGE GG □ ELGACID ORANGE 2G □ ENIACID ORANGE I □ EXT. D&C ORANGE No. 3 □ FDC ORANGE I □ HISPACID ORANGE 1 □ 4-((4-HYDROXY-1-NAPHTHALENYL)AZO)BENZENESULPHONIC ACID, MONOSODIUM SALT □ p-((4-HYDROXY-1-NAPHTHYL)-AZO)BENZENESULFONIC ACID, MONOSODIUM SALT □ p-((4-HYDROXY-1-NAPHTHYL)AZO)BENZENESULPHONIC ACID, MONOSODIUM SALT □ p-((4-HYDROXY-1-NAPHTHYL)AZO)-BENZENESULPHONIC ACID, SODIUM SALT □ JAVA ORANGE I □ NANKAI ACID ORANGE I □ NAPHTH-ALENE ORANGE I □ NAPHTHOL ORANGE □ α-NAPHTHOL ORANGE □ NEKLACID ORANGE 1 □ 1333 ORANGE □ ORANGE I □ SODIUM AZO-α-NAPHTHOLSULFANILATE □ SODIUM AZO-α-NAPHTHOLSULPHANILATE □ 4-p-SULFO-PHENYL-AZO-1-NAPHTHOL MONOSODIUM SALT □ TERTR-ACID ORANGE I □ TROPAEOLIN 1

TOXICITY DATA with REFERENCE:

mma-sat 100 µg/plate MUREAV 56,249,78
 ipr-rat LD50:1 g/kg FAONAU 38B,67,66

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 8,173,75. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

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

**FAG018 CAS: 3564-09-8 HR: 3
 FD&C RED No. 1**

mf: C₁₉H₁₆N₂O₇S₂•2Na mw: 494.47

SYNS: A.F. RED No. 1 □ CERVEN KUMIDINOVA □ C.I. 16155 □ C.I. FOOD RED 6 □ C.I. FOOD RED 6, DISODIUM SALT □ DISODIUM-3-HYDROXY-4-((2,4,5-TRIMETHYLPHENYL)AZO)-2,7-NAPHTHALENEDISULFONATE □ DISODIUM-3-HYDROXY-4-((2,4,5-TRIMETHYLPHENYL)AZO)-2,7-NAPHTHALENEDISULFONIC ACID □ DISODIUM-3-HYDROXY-4-((2,4,5-TRIMETHYLPHENYL)AZO)-2,7-NAPHTHALENEDISULPHONATE □ DISODIUM-3-HYDROXY-4-((2,4,5-TRIMETHYLPHENYL)-AZO)-2,7-NAPHTHALENEDISULFONIC ACID □ DOLKWAŁ PONCEAU 3R □ EXT. D&C RED No. 15 □ 3-HYDROXY-4-((2,4,5-TRIMETHYLPHENYL)AZO)-2,7-NAPHTHALENEDISULFONIC ACID, DISODIUM SALT □ 3-HYDROXY-4-((2,4,5-TRIMETHYLPHENYL)AZO)-2,7-NAPHTHALENEDISULPHONIC ACID, DISODIUM SALT □ MAPLE PONCEAU 3R □ PONCEAU 3R □

SODIUM CUMENEAZO- β -NAPHTHOL DISULPHONATE \square
USACERT RED No. 1

TOXICITY DATA with REFERENCE:

mma-sat 660 nmol/plate INFIBR 23,686,79

oth-esc 300 μ mol/L SKEZAP 12,298,71

orl-rat TDL₀:730 g/kg/2Y-C:CAR TXAPA9 5,105,63

CONSENSUS REPORTS: IARC Cancer Review:

Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence
IMEMDT 8,199,75.

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

FAG020 CAS: 915-67-3 HR: 2

FD&C RED No. 2

mf: C₂₀H₁₁N₂O₁₀S₃•3Na mw: 604.48

PROP: Dark-red-brown powder. Sol in H₂O.

SYNS: ACETACID RED 2BR \square ACID AMARANTH \square ACILAN
RED SE \square AIZEN AMARANTH \square AMACID AMARANTH \square
AMARANT \square AMARANTH \square AMARANTHE USP (biological stain)
 \square AZO RED R \square BORDEAUX \square CALCOCID AMARANTH \square
CANACERT AMARANTH \square CERVEN KYSELA 27 \square CERVEN
POTRAVINARSKA 9 \square C.I. 184 \square C.I. 16185 \square C.I. ACID RED 27
 \square C.I. FOOD RED 9 \square CILEFA RUBINE 2B \square DAISHIKI
AMARANTH \square D&C RED 2 \square DOLKVAL AMARANTH \square DYE
FDC RED 2 \square DYE RED RASPBERRY \square EDICOL AMARANTH \square
EUROCERT AMARANTH \square FD&C RED No. 2-ALUMINIUM
LAKE \square FOOD RED 2 \square FOOD RED 9 \square FRUIT RED A GEIGY
 \square HD AMARANTH B \square HEXACERT RED No. 2 \square HIDACID
AMARANTH \square 2-HYDROXY-1,1'-AZONAPHTHALENE-3,6,4'-
TRISULFONIC ACID TRISODIUM SALT \square 3-HYDROXY-4-((4-
SULFO-1-NAPHTHALENYL)AZO)-2,7-NAPHTHLENE-
DISULFONIC ACID, TRISODIUM SALT \square 3-HYDROXY-4-((4-
SULFO-1-NAPHTHYL)AZO)-2,7-NAPHTHALENEDISULFONIC
ACID, TRISODIUM SALT \square 3-HYDROXY-4-((4-SULPHO-1-
NAPHTHALENYL)AZO)-2,7-NAPHTHALENEDISULPHONIC
ACID, TRISODIUM SALT \square 3-HYDROXY-4-((4-SULPHO-1-
NAPHTHYL)AZO)-2,7-NAPHTHALENEDISULPHONIC ACID,
TRISODIUM SALT \square JAVA AMARANTH \square KAYAKU
AMARANTH \square KCA FOODCOL AMARANTH A \square KITON
RUBINE S \square LISSAMINE AMARANTH AC \square MAPLE
AMARANTH \square NAPHTHOL RED B \square NAPHTHOLROT S \square
NEKLACID RED A \square RAKUTO AMARANTH \square RASPBERRY
RED for JELLIES \square RED DYE No. 2 \square RED No. 2 \square SHIKISO
AMARANTH \square 1-(4-SULPHO-1-NAPHTHYLAZO)-2-NAPHTHOL-
3,6-DISULFONIC ACID, TRISODIUM SALT \square TAKAOKA
AMARANTH \square TERTRACID RED A \square TOYO AMARANTH \square
TRISODIUM SALT of 1-(4-SULFO-1-NAPHTHYLAZO)-2-
NAPHTHOL-3,6-DISULFONIC ACID \square VICTORIA RUBINE O \square
WHORTLEBERRY RED \square WOOL BORDEAUX 6RK \square WOOL
RED

TOXICITY DATA with REFERENCE:

mmo-sat 20 μ g/L ENVIDV 9,145,83

mmo-esc 20 μ g/L ENVIDV 9,145,83

mrc-smc 20 mg/L ENVIDV 9,145,83

cyt-ham:fbr 1 g/L/48H MUREAV 48,337,77

ipr-rat LD50:1 g/kg SCPHA4 47,39,79

ivn-rat LD50:1 g/kg SCPHA4 47,39,79

ipr-mus LD50:1000 mg/kg FCTXAV 14,163,76

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence
IMEMDT 8,41,75. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by
intraperitoneal route. Questionable carcinogen with
experimental carcinogenic and tumorigenic data. An
experimental teratogen. Other experimental reproductive
effects. Mutation data reported. When heated to
decomposition it emits toxic fumes of NO_x and SO_x.

FAG040 CAS: 16423-68-0 HR: 3

FD&C RED No. 3

mf: C₂₀H₆I₄O₅•2Na mw: 879.84

PROP: Brown powder. Sol in water giving cherry red
solution or in conc sulfuric acid.

SYNS: AIZEN ERYTHROSINE \square CALCOCID ERYTHROSINE N
 \square CANACERT ERYTHROSINE BS \square 9-(α -CARBOXYPHENYL)-6-
HYDROXY-2,4,5,7-TETRAIODO-3-ISOXANTHONE \square C.I. 45430
 \square C.I. ACID RED 51 \square CILEFA PINK B \square D&C RED No. 3 \square
DOLKVAL ERYTHROSINE \square DYE FD&C RED No. 3 \square E 127 \square
EBS \square EDICOL SUPRA ERYTHROSINE A \square ERYTHROSIN \square
ERYTHROSINE B-FO (BIOLOGICAL STAIN) \square FOOD RED 14 \square
HEXACERT RED No. 3 \square HEXACOL ERYTHROSINE BS \square LB-
ROT 1 \square MAPLE ERYTHROSINE \square NEW PINK BLUIISH GEIGY
 \square 1427 RED \square 1671 RED \square 2',4',5',7'-TETRAIODOFLUORESCIN,
DISODIUM SALT \square TETRAIODOFLUORESCIN SODIUM SALT
 \square USACERT RED No. 3

TOXICITY DATA with REFERENCE:

mrc-smc 100 mg/L MUREAV 138,153,84

dni-hmn:leu 500 mg/L NEZAAQ 30,574,75

cyt-ham:fbr 600 mg/L FCTOD7 22,623,84

orl-rat LD50:1840 mg/kg SCPHA4 47,39,79

ivn-rat LD50:200 mg/kg SCPHA4 47,39,79

orl-mus LD50:1264 mg/kg EAPHA6 24,125,81

ivn-mus LD50:370 mg/kg APPHAX 9,127,52

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

SAFETY PROFILE: Poison by intravenous route.
Moderately toxic by ingestion. Questionable carcinogen
with experimental tumorigenic data. Experimental
reproductive effects. Human mutation data reported.
When heated to decomposition it emits very toxic fumes
of Na₂O and I⁻.

FAG050 CAS: 4548-53-2 HR: 2

FD&C RED No. 4

mf: C₁₈H₁₄N₂O₇S₂•2Na mw: 480.44

SYNS: CERTICOL PONCEAU SXS \square CERVEN POTRAVINARS-
KA 1 \square C.I. 14700 \square C.I. FOOD RED 1 \square C.I. FOOD RED 1,
DISODIUM SALT \square 3-((2,4-DIMETHYL-5-SULFOPHENYL)AZO)-
4-HYDROXY-1-NAPHTHALENE-SULFONIC ACID, DISODIUM
SALT \square 3-((2,4-DIMETHYL-5-SULFOPHENYL)AZO)-4-
HYDROXY-1-NAPHTHALENE-SULFONIC ACID, DISODIUM
SALT \square DYE FD & C RED No. 4 \square DYE FD AND C RED No. 4 \square
EDICOL SUPRA PONCEAU SX \square FD & C RED No. 4-ALUMIN-
IUM LAKE \square FOOD RED 4 \square HEXACOL PONCEAU SX \square 4-
HYDROXY-3-((5-SULFO-2,4-XYLYL)AZO)-1-NAPHTHALENE-
SULFONIC ACID, DISODIUM SALT \square 4-HYDROXY-3-((5-
SULPHO-2,4-XYLYL)AZO)-1-NAPHTHALENESULPHONIC ACID,
DISODIUM SALT \square PONCEAU SX \square PURPLE 4R \square 1306 RED \square
12101 RED \square RED No. 1 \square RED No. 4 \square 2-(6-SULFO-2,4-
XYLYLAZO)-1-NAPHTHOL-4-SULFONIC ACID, DISODIUM
SALT \square USACERT FD & C RED No. 4

TOXICITY DATA with REFERENCE:

orl-rat LD50:>2 g/kg MEIEDD 11,1209,89

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 8,207,75. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

**FAG070 CAS: 81-88-9 HR: 2
FD&C RED No. 19**

mf: C₂₈H₃₁N₂O₃•Cl mw: 479.06

PROP: Violet crystals or powder. Sol in H₂O, EtOH; sltly sol in Me₂CO.

SYNS: ACID BRILLIANT PINK B □ ADC RHODAMINE B □ AIZEN RHODAMINE BH □ AKIRIKU RHODAMINE B □ BASIC VIOLET 10 □ BRILLIANT PINK B □ CALCOZINE RED BX □ CALCOZINE RHODAMINE BX □ 9-*o*-CARBOXYPHENYL-6-DIETHYLAMINO-3-ETHYLIMINO-3-ISOXANTHENE, 3-ETHOCHLORIDE □ (9-(*o*-CARBOXYPHENYL)-6-(DIETHYLAMINO)-3H-XANTHEN-3-YLIDENE) DIETHYLAMMONIUM CHLORIDE □ CERISE TONER X1127 □ CERTIQUAL RHODAMIN □ C.I. 749 □ C.I. BASIC VIOLET 10 □ C.I. FOOD RED 15 □ COGILOR RED 321.10 □ COSMETIC BRILLIANT PINK BLUISH D CONC □ D&C RED No. 19 □ DIABASIC RHODAMINE B □ DIETHYL-*m*-AMINO-PHENOLPHTHALEIN HYDROCHLORIDE □ EDICOL SUPRA ROSE B □ ELCOZINE RHODAMINE B □ ERIOSIN RHODAMINE B □ FOOD RED 15 □ GERANIUM LAKE N □ HEXACOL RHODAMINE B EXTRA □ IKADA RHODAMINE B □ IRAGEN RED L-U □ MITSUI RHODAMINE BX □ 11411 RED □ RED NO. 213 □ RHEONINE B □ RHODAMINE □ RHODAMINE S (RUSSIAN) □ SICILIAN CERISE TONER A-7127 □ SYMULEX MAGENTA F □ SYMULEX PINK F □ TAKAOKA RHODAMINE B □ TETRAETHYLDI-AMINO-*o*-CARBOXY-PHENYL-XANTHENYL CHLORIDE □ TETRAETHYLRHODAMINE

TOXICITY DATA with REFERENCE:

sln-dmg-ori 1000 ppm AMNTA4 87,295,53

cyt-mam:flr 2 mg/L MUREAV 88,211,81

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, NH₃, and Cl⁻.

**FAG080 CAS: 85-82-5 HR: 2
FD&C RED No. 32**

mf: C₁₈H₁₆N₂O mw: 276.36

PROP: Needles with green highlights from EtOH. Mp: 150–151°.

SYNS: FD&C ACID RED 32 □ OIL RED XO □ 1-XYLYLAZO-2-NAPHTHOL □ 1-(2,5-XYLYLAZO)-2-NAPHTHOL

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

**FAG100 CAS: 25956-17-6 HR: D
FD&C RED No. 40**

mf: C₁₈H₁₆N₂O₈S₂•2Na mw: 498.46

PROP: Dark red powder. Sol in water; sltly sol in abs alc.

SYNS: ALLURA RED □ ALLURA RED AC □ C.I. 16035 □ C.I. FOOD RED 17 □ FD and C RED NO. 40 □ RED NO. 40

TOXICITY DATA with REFERENCE:

ori-rat LD50:>10 g/kg FCTOD7 27,701,89

skn-rbt LD50:>10 g/kg FCTOD7 27,701,89

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

**FAG120 CAS: 1694-09-3 HR: 3
FD&C VIOLET No. 1**

mf: C₃₉H₄₁N₃O₆S₂•Na mw: 734.94

PROP: Black powder. Mp: 245–250° (decomposes).

SYNS: ACID VIOLET □ A.F. VIOLET No 1 □ AIZEN FOOD VIOLET No 1 □ BENZYL VIOLET □ BENZYL VIOLET 3B □ CALCOCID VIOLET 4BNS □ C.I. 42640 □ C.I. FOOD VIOLET 2 □ COOMASSIE VIOLET □ DISPERSED VIOLET 12197 □ FORMYL VIOLET S4BN □ PERGACID VIOLET 2B □ SOLAR VIOLET 5BN □ WOOL VIOLET

TOXICITY DATA with REFERENCE:

mma-sat 320 µg/plate MUREAV 89,21,81

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 16,153,78. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, NH₃, Na₂O, and SO_x.

**FAG130 CAS: 85-84-7 HR: 2
FD&C YELLOW No. 3**

mf: C₁₆H₁₃N₃ mw: 247.32

PROP: Red plates from EtOH. Mp: 102–104°. Sol in EtOH and AcOH.

SYNS: A.F. YELLOW No. 2 □ 1-BENZENE-AZO-β-NAPHTHYLAMINE □ 1-BENZENE-AZO-2-NAPHTHYLAMINE □ CERISOL YELLOW AB □ C.I. 11380 □ C.I. FOOD YELLOW 10 □ C.I. SOLVENT YELLOW 5 □ DOLKVAL YELLOW AB □ EXT. D&C YELLOW No. 9 □ GRASAL YELLOW □ JAUNE AB □ OIL YELLOW A □ 1-(PHENYL-AZO)-2-NAPHTHALENAMINE □ 1-(PHENYL-AZO)-2-NAPHTHYLAMINE □ YELLOW AB □ YELLOW No. 2

TOXICITY DATA with REFERENCE:

dns-rat-ori 500 mg/kg ENMUDM 7,101,85

ori-rbt LDLo:1000 mg/kg JBCHA3 27,403,16

scu-rbt LDLo:1000 mg/kg JBCHA3 27,403,16

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal No Evidence IMEMDT 8,279,75. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

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

**FAG135 CAS: 131-79-3 HR: 3
FD&C YELLOW No. 4**

mf: C₁₇H₁₅N₃ mw: 261.35

SYNS: A.F. YELLOW No. 3 □ CERISOL YELLOW TB □ C.I. 11390 □ C.I. FOOD YELLOW 11 □ DOLKVAL YELLOW OB □ EXT. D&C YELLOW No. 10 □ JAUNE OB □ 1-(2-METHYL-PHENYL)AZO-2-NAPHTHALENAMINE □ 1-((2-METHYL-PHENYL)AZO)-2-NAPHTHALENAMINE □ 1-(2-METHYL-PHENYL)AZO-2-NAPHTHYLAMINE □ OIL YELLOW OB □ o-TOLUENE-1-AZO-2-NAPHTHYLAMINE □ 1-(o-TOLYL-AZO)-2-NAPHTHYLAMINE □ YELLOW OB □ ZLUT MASELNA OB □ ZLUT ROZPOUSTEDLOVA 6

TOXICITY DATA with REFERENCE:

mma-sat 50 µg/plate CANCAR 49,1970,82
 orl-rat LD50:120 mg/kg 85JCAE -,1315,86
 orl-mus LDLo:1 g/kg 85JCAE -,1315,86
 orl-rbt LDLo:1 g/kg JBCHA3 27,403,16
 ipr-rbt LDLo:1 g/kg JBCHA3 27,403,16
 scu-rbt LDLo:1 g/kg JBCHA3 27,403,16

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 8,287,75. EPA Genetic Toxicology Program.

SAFETY PROFILE: A poison by ingestion.

Moderately toxic by intraperitoneal and subcutaneous routes. Questionable carcinogen with experimental tumorigenic data. May be contaminated with the carcinogen β-naphthylamine. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AROMATIC AMINES.

FAG140 CAS: 1934-21-0 HR: 1
FD&C YELLOW No. 5

mf: C₁₆H₉N₄O₉S₂·3Na mw: 534.38

PROP: Yellow-orange powder. Sol in water, conc sulfuric acid.

SYNS: ACID LEATHER YELLOW T □ ACID YELLOW 23 □ ACID YELLOW T □ ACILAN YELLOW GG □ A.F. YELLOW NO. 4 □ AIREDALE YELLOW T □ AIZEN TARTRAZINE □ AMACID YELLOW T □ ATUL TARTRAZINE □ BUCACID TARTRAZINE □ CALCOCID YELLOW MCG □ CALCOCID YELLOW XX □ CANACERT TARTRAZINE □ 3-CARBOXY-5-HYDROXY-1-p-SULFOPHENYL-4-p-SULFOPHENYL-AZOPYRAZOLE TRISODIUM SALT □ CERTICOL TARTRAZOL YELLOW S □ CILEFA YELLOW T □ C.I. 640 □ C.I. 19140 □ C.I. ACID YELLOW 23 □ C.I. ACID YELLOW 23, TRISODIUM SALT □ C.I. FOOD YELLOW 4 □ CURON FAST YELLOW 5G □ D and C YELLOW NO. 5 □ DOLKVAL TARTRAZINE □ DYE FD and C YELLOW NO. 5 □ E 102 □ EDICOL SUPRA TARTRAZINE N □ EGG YELLOW A □ ERIO TARTRAZINE □ EUROCERT TARTRAZINE □ FD & C YELLOW NO. 5 TARTRAZINE □ FENAZO YELLOW T □ FOOD YELLOW 4 □ FOOD YELLOW 5 □ FOOD YELLOW NO. 4 □ HD TARTRAZINE □ HD TARTRAZINE SUPRA □ HEXACERT YELLOW NO. 5 □ HEXACOL TARTRAZINE □ HIDAZID TARTRAZINE □ HISPACID FAST YELLOW T □ HYDRAZINE YELLOW □ HYDROXINE YELLOW L □ KAKO TARTRAZINE □ KAYAKU FOOD COLOUR YELLOW NO. 4 □ KAYAKU TARTRAZINE □ KCA FOODCOL TARTRAZINE PF □ KCA TARTRAZINE PF □ KITON YELLOW T □ LAKE YELLOW □ LEMON YELLOW A □ LEMON YELLOW A GEIGY □ L-GELB 2 □ MAPLE TARTRAZOL YELLOW □ MITSUI TARTRAZINE □ NAPHTOCARD YELLOW O □ NEKLACID YELLOW T □ OXANAL YELLOW T □ SAN-EI TARTRAZINE □ SCHULTZ NO. 737 □ SUGAI TARTRAZINE □ TARTAR YELLOW FS □ TARTAR YELLOW N □ TARTAR YELLOW PF □ TARTAR YELLOW S □ TARTRAN YELLOW □ TARTRAPHENINE □ TARTRAZINE □ TARTRAZINE A EXPO T □ TARTRAZINE B □ TARTRAZINE

B.P.C. □ TARTRAZINE EXTRA PURE A □ TARTRAZINE FD & C YELLOW #5 □ TARTRAZINE FQ □ TARTRAZINE G □ TARTRAZINE LAKE □ TARTRAZINE LAKE YELLOW N □ TARTRAZINE M □ TARTRAZINE MCGL □ TARTRAZINE N □ TARTRAZINE NS □ TARTRAZINE O □ TARTRAZINE T □ TARTRAZINE XX □ TARTRAZINE XXX □ TARTRAZINE YELLOW □ TARTRAZOL BPC □ TARTRAZOL YELLOW □ TARTRINE YELLOW O □ TRISODIUM 3-CARBOXY-5-HYDROXY-1-p-SULFOPHENYL-4-p-SULFOPHENYL-AZOPYRAZOLE □ TRISODIUM SALT of 3-CARBOXY-5-HYDROXY-1-SULFOPHENYL-AZOPYRAZOLE □ UNITERTRACID YELLOW TE □ USACERT YELLOW NO. 5 □ VONDACID TARTRAZINE □ WOOL YELLOW □ XYLENE FAST YELLOW GT □ Y-4 □ 1310 YELLOW □ 1409 YELLOW □ YELLOW LAKE 69 □ YELLOW NO. 5 □ YELLOW NO. 5 FDC □ ZLUT KYSELA 23 □ ZLUT PIGMENT 100 □ ZLUT POTRAVINARSKA 4

TOXICITY DATA with REFERENCE:

cyt-hmn:lym 100 mg/L SOGEBZ 11,528,75
 mic-mus:lym 1 g/L SCIEAS 236,933,87
 cyt-ham:lng 2 g/L GANMAX 27,95,81
 orl-rat LD50:>10 g/kg FCTXAV 5,747,67
 ipr-rat LD50:3800 mg/kg FCTXAV 5,747,67
 orl-mus LD50:>6 g/kg FCTXAV 5,747,67
 ipr-mus LD50:4600 mg/kg FCTXAV 5,747,67

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

SAFETY PROFILE: Low toxicity by ingestion. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x, SO_x, and Na₂O.

FAG150 CAS: 2783-94-0 HR: 1
FD&C YELLOW No. 6

mf: C₁₆H₁₀N₂O₇S₂Na₂ mw: 452.36

PROP: Orange powder. Sol in water, conc sulfuric acid; sltly sol in abs alc.

SYNS: ACID YELLOW TRA □ A.F. YELLOW NO. 5 □ AIZEN FOOD YELLOW NO. 5 □ ALABASTER NO. 3 □ ATUL SUNSET YELLOW FCF □ CANACERT SUNSET YELLOW FCF □ CERTICOL SUNSET YELLOW CFS □ CERTOLAKE SUNSET YELLOW □ C.I. 15985 □ C.I. FOOD YELLOW 3 □ C.I. FOOD YELLOW 3, DISODIUM SALT □ CILEFA ORANGE S □ DISODIUM SALT of 1-p-SULPHOPHENYL-AZO-2-NAPHTHOL-6-SULPHONIC ACID □ DISPERSED ORANGE 11348 □ DISPERSED YELLOW 12116 □ DOLKVAL SUNSET YELLOW □ DYE FDC YELLOW LAKE 6 □ DYE FD & C YELLOW LAKE 6 □ DYE FDC YELLOW NO. 6 □ DYE FD & C YELLOW NO. 6 □ DYE SUNSET YELLOW □ E 110 □ EDICOL SUPRA YELLOW FC □ ENIACID SUNSET YELLOW □ EUROCERT ORANGE FCF □ FD & C NO. 6 □ FD and C NO. 6 □ FD and C YELLOW 6 □ FD and C YELLOW LAKE NO. 6 □ FD and C YELLOW NO. 6 □ FD & C YELLOW NO. 6 ALUMINIUM LAKE □ FDC YELLOW NO. 6 □ FOODCOL SUNSET YELLOW FCF □ FOOD YELLOW 3 □ FOOD YELLOW 6 □ GELBORANGE-S □ HD SUNSET YELLOW FCF □ HD SUNSET YELLOW FCF SUPRA □ HEXACOL SUNSET YELLOW F & F SUPRA □ HEXACOL SUNSET YELLOW FCF □ HEXACOL SUNSET YELLOW FCF SUPRA □ HEXACOL SUNSET YELLOW FCF □ 6-HYDROXY-5-((p-SULFOPHENYL)AZO)-2-NAPHTHALENESULFONIC ACID, DISODIUM SALT □ 6-HYDROXY-5-((4-SULFOPHENYL)AZO)-2-NAPHTHALENE-SULFONIC ACID, DISODIUM SALT □ 6-HYDROXY-5-((p-SULFOPHENYL)AZO)-2-NAPHTHALENESULFONIC ACID, DISODIUM SALT □ 6-HYDROXY-5-((4-SULPHOPHENYL)AZO)-

2-NAPHTHALENESULPHONIC ACID, DISODIUM SALT □ KCA
FOODCOL SUNSET YELLOW FCF □ JAUNE ORANGE S □
JAUNE SOLEIL □ L-ORANGE 2 □ L. ORANGE Z2010 □ MAPLE
SUNSET YELLOW FCF □ NCI-C53907 □ ORANGE II R □
ORANGE PAL □ ORANGE RGL CONC. SPECIALLY PURE □
ORANGE YELLOW S □ ORANGE YELLOW S.AF □ ORANGE
YELLOW S.FQ □ PARA ORANGE □ STANDACOL SUNSET
YELLOW FCF □ 1-p-SULFOPHENYLazo-2-HYDROXY-
NAPHTHALENE-6-SULFONATE, DISODIUM SALT □ 1-p-
SULFOPHENYLazo-2-NAPHTHOL-6-SULFONIC ACID,
DISODIUM SALT □ 1-p-SULPHOPHENYLazo-2-NAPHTHOL-6-
SULPHONIC ACID, DISODIUM SALT □ SUN ORANGE A GEIGY
□ SUNSET YELLOW □ SUNSET YELLOW BSS □ SUNSET
YELLOW FCF □ SUNSET YELLOW FCF SUPRA □ SUNSET
YELLOW FU □ SUNSET YELLOW FU SUPRA □ SUNSET
YELLOW LAKE □ SUN YELLOW □ SUN YELLOW A-CE □ SUN
YELLOW A-FDC □ SUN YELLOW EXTRA CONC. A EXPORT □
SUN YELLOW EXTRA PURE A □ SUN YELLOW FCF □
USACERT YELLOW NO. 6 □ USACERT FD & C YELLOW NO. 6
□ USALAKE FD & C YELLOW NO. 6 LAKE □ 1351 YELLOW □
1899 YELLOW □ YELLOW NO. 6 □ YELLOW ORANGE S □
YELLOW ORANGE S SPECIALLY PURE □ YELLOW ORANGE
SPECIALLY PURE 85 □ YELLOW SF FOR FOOD □ YELLOW
SUN □ YELLOW SY FOR FOOD □ ZLUT POTRAVINARSKA 3

TOXICITY DATA with REFERENCE:

mic-mus:lym 1 g/L SCIEAS 236,933,87
cyt-ham:lng 2 g/L GANMAX 27,95,81
orl-rat LD50:>10 g/kg FCTXAV 5,747,67
ipr-rat LD50:3800 mg/kg FCTXAV 5,747,67
orl-mus LD50:>6 g/kg FCTXAV 5,747,67
ipr-mus LD50:4600 mg/kg FCTXAV 5,747,67

CONSENSUS REPORTS: IARC Cancer Review:
Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence
IMEMDT 8,257,75. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and
intraperitoneal routes. Mutation data reported. When
heated to decomposition it emits very toxic fumes of NO_x
and SO_x.

**FAG200 CAS: 25451-15-4 HR: 2
FELBAMATE**

mf: C₁₁H₁₄N₂O₄ mw: 238.27

SYNS: CARBAMIC ACID, 2-PHENYLTRIMETHYLENE ESTER □
FELBAMATO □ FELBATOL □ 2-PHENYL-1,3-PROPANEDIOL
DICARBAMATE □ 1,3-PROPANEDIOL, 2-PHENYL-,
DICARBAMATE □ W 554

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:140 mg/kg:BAH PECAE5 11,369,1995
orl-wmn TDLo:1296 mg/kg/18D-I:EYE,GIT,SKN
PHPYDQ 15,260,1995
orl-wmn TDLo:24 mg/kg/2D-I:CNS,SKN,ALR
APHRER 29,430,1995
orl-rat LD50:>5 g/kg DRFUD4 11,931,1986
ipr-rat LD50:1625 mg/kg TOSCF2 45,225,1998
orl-mus LD50:>5 g/kg DRFUD4 11,931,1986
ipr-mus LD50:659 mg/kg TOSCF2 45,225,1998

SAFETY PROFILE: Moderately toxic by
intraperitoneal rex. Low toxicity by ingestion. Human
systemic effects. When heated to decomposition it emits
toxic vapors of NO_x.

FAJ100 CAS: 4551-59-1 HR: 3**FELDENE**

mf: C₁₅H₁₃N₃O₄S mw: 331.37

PROP: Oil or crystals from methanol. Mp: 198–200°, bp:
182–188° @ 3 mm.

SYNS: CP 16171 □ 4-HYDROXY-2-METHYL-N-(2-PYRIDYL)-2H-
1,2-BENZOTHAZIN-3-CARBOXYAMID-1,1-DIOXID (GERMAN)
□ 4-HYDROXY-2-METHYL-N-(2-PYRIDYL)-2H-1,2-BENZOTHA-
ZINE-3-CARBOXAMIDE-1,1-DIOXIDE □ PIROXICAM □ ROXIC-
AM □ SOLOCALM

TOXICITY DATA with REFERENCE:

orl-man TDLo:7636 mg/kg/6W-I:KID AJNED9 5,142,85
orl-cld TDLo:7143 µg/kg SAMJAF 66,31,84
orl-man TDLo:52 mg/kg/26W-I:SYS AIMEAS 99,282,83
orl-wmn TDLo:1200 µg/kg/3D-I:SKN JRHUA9
11,554,84
orl-man LDLo:3714 mg/kg/13D-I:BLD,SKN NEJMAG
309,795,83
orl-wmn LDLo:2800 µg/kg/1W-I:KID AIMDAP
144,63,84
orl-wmn TDLo:28 mg/kg AMSVAZ 216,335,84
orl-rat LD50:216 mg/kg ARZNAD 28,1714,78
ipr-rat LD50:335 mg/kg YACHDS 8,4639,80
scu-rat LD50:148 mg/kg YACHDS 8,4639,80
rec-rat LD50:400 mg/kg YACHDS 8,4639,80
orl-mus LD50:350 mg/kg YACHDS 8,4639,80
ipr-mus LD50:350 mg/kg YACHDS 8,4639,80
scu-mus LD50:300 mg/kg YACHDS 8,4639,80
orl-dog LD50:108 mg/kg YACHDS 8,4639,80

SAFETY PROFILE: A human poison by ingestion.
Poison experimentally by ingestion, subcutaneous,
intraperitoneal, and rectal routes. Human systemic effects
by ingestion: interstitial nephritis, metabolic acidosis,
dermatitis, agranulocytosis. An experimental teratogen.
Other experimental reproductive effects. When heated to
decomposition it emits toxic fumes of SO_x and NO_x.

**FAJ150 CAS: 4551-59-1 HR: 3
FEMAMIDE**

mf: C₁₉H₃₀N₂O₃ mw: 334.51

PROP: Bp: 182–188°. Sol in acetone, methanol, ethanol,
ethyl acetate, benzene, chloroform, ether, mineral acids,
practically insol in water, alkalies.

SYNS: N-(2-(DIETHYLAMINO)ETHYL)-2-ETHYL-2-PHENYL-
MALONAMIC ACID ETHYL ESTER □ FENALAMIDE □
FENAMIDE □ PHENAMIDE □ PHENYLAETHYLMALON-
SAEURE-AETHYLESTER-DIAETHYLAMINOAEETHYL-AMID
(GERMAN) □ Sch 5706 □ SH 30858 □ SPASMAMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:610 mg/kg AEPPAE 237,264,59
ipr-rat LD50:250 mg/kg AEPPAE 237,264,59
orl-mus LD50:400 mg/kg AEPPAE 237,264,59
ipr-mus LD50:210 mg/kg BCFAAI 111,293,72

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

**FAJ200 CAS: 56222-04-9 HR: 2
FEMOXETINE HYDROCHLORIDE**

mf: C₂₀H₂₅NO₂·ClH mw: 347.92

PROP: A solid. Mp: 191–193°.

SYNS: FG 4963 □ (3R-trans)-3-((4-METHOXYPHENOXY)-
METHYL)-1-METHYL-4-PHENYLPYPERIDINE HYDRO-

CHLORIDE □ PIPERIDINE, 3-((4-METHOXYPHENOXY)METHYL)-1-METHYL-4-PHENYL-, HYDROCHLORIDE, (3R-trans)-

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:2576 mg/kg/23W-I APTOA6 58,253,86

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

FAJ300 CAS: 161326-34-7 HR: 2 FENAMIDONE

mf: C₁₇H₁₇N₃OS mw: 311.41

SYNS: 4H-IMIDAZOL-4-ONE, 3,5-DIHYDRO-5-METHYL-2-(METHYLTHIO)-5-PHENYL-3-(PHENYLAMINO)-, (5S)- □ S-5-METHYL-2-METHYLTHIO-5-PHENYL-3-PHENYLAMINO-3,5-DIHYDRO-4H-IMIDAZOL-4-ONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2028 mg/kg HBPTO* 2,1207,2001

skn-rat LD50:2000 mg/kg FEREAC 67,595,2002

ihl-rat LC50:5 g/m³ FEREAC 67,595,2002

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Low toxicity by inhalation. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

FAK000 CAS: 22224-92-6 HR: 3 FENAMIPHOS

mf: C₁₃H₂₂NO₃PS mw: 303.39

PROP: A solid. Mp: 49°. Sltly sol in H₂O.

SYNS: O-AETHYL-O-(3-METHYL-4-METHYLTHIOPHENYL)-ISOPROPYLAMIDO-PHOSPHORSAEURE ESTER (GERMAN) □ BAY 68138 □ ENT 27,572 □ ETHYL-3-METHYL-4-(METHYLTHIO)PHENYL(1-METHYLETHYL)PHOSPHORAMID-ATE □ ETHYL-4-(METHYLTHIO)-m-TOLYL ISOPROPYL PHOSPHORAMIDATE □ ISOPROPYLAMINO-O-ETHYL-(4-METHYL-MERCAPTO-3-METHYLPHENYL)PHOSPHATE □ 1-(METHYL-ETHYL)-ETHYL 3-METHYL-4-(METHYLTHIO)PHENYL PHOSPHORAMIDATE □ NEMACUR □ NSC-195106 □ PHANAMIPHOS

TOXICITY DATA with REFERENCE:

orl-rat LD50:8 mg/kg BESAAT 15,116,69

ihl-rat LC50:91 mg/m³/4H 85DPAN -,71/76

skn-rat LD50:80 mg/kg FMCHA2 -,C216,91

orl-mus LD50:22,700 µg/kg 85DPAN -,71/76

orl-dog LD50:10 mg/kg 28ZEAL 5,112,76

orl-cat LD50:10 mg/kg 85DPAN -,71/76

skn-rbt LD50:178 mg/kg DTLWS* 4,191,82

orl-gpg LD50:75 mg/kg 28ZEAL 5,112,76

orl-qal LD50:1 mg/kg EESADV 8,551,84

orl-dck LD50:1680 µg/kg TXAPA9 47,451,79

skn-dck LD50:24 mg/kg TXAPA9 47,451,79

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.

OSHA PEL: TWA 0.1 mg/m³ (skin)

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

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

FAK100 CAS: 60168-88-9 HR: 2 FENARIMOL

mf: C₁₇H₁₂Cl₂N₂O mw: 331.21

PROP: White, odorless crystals. Mp: 117–119°. Practically insol in water; sol in most org solvs.

SYNS: BLOC □ (2-CHLOROPHENYL)-α-(4-CHLOROPHENYL)-5-PYRIMIDINEMETHANOL □ α-(2-CHLOROPHENYL)-α-(4-CHLOROPHENYL)-5-PYRIMIDINEMETHANOL □ EL 222 □ RIMIDIN □ RUBIGAN

TOXICITY DATA with REFERENCE:

sln-asn 6 mg/L MUREAV 79,169,80

cyt-mus-orl 450 mg/kg DBANAD 36,1351,83

orl-rat LD50:2500 mg/kg FMCHA2 -,C254,89

orl-mus LD50:4500 mg/kg FMCHA2 -,C254,89

CONSENSUS REPORTS: 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 Cl⁻ and NO_x.

FAK200 CAS: 120928-09-8 HR: 3 FENAZAQUIN

mf: C₂₀H₂₂N₂O mw: 306.44

SYNS: 4-tert-BUTYLPHENETHYLQUINAZOLIN-4-YL ETHER □ 4-((4-(1,1-DIMETHYLETHYL)PHENYL)ETHOXY)QUINAZOLINE □ QUINAZOLINE, 4-((4-(1,1-DIMETHYLETHYL)PHENYL)-ETHOXY)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:50 mg/kg PEMNDP 9,363,91

orl-mus LD50:>500 mg/kg PEMNDP 9,363,91

orl-qal LD50:>2 g/kg PEMNDP 9,363,91

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

FAL000 CAS: 13669-70-0 HR: 3 FENAZOXINE

mf: C₁₇H₁₉NO mw: 253.37

SYNS: NEFOPAM □ 3,4,5,6,7-TETRAHYDRO-5-METHYL-1-PHENYL-1H-2,5-BENZOXAZOCINE

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:15 mg/kg:CNS,CVS BMJOAE 283,1508,81

orl-man TDLo:17 mg/kg:CNS,CVS BMJOAE 283,1508,81

orl-rat LD50:178 mg/kg DRUGAY 19,249,80

ivn-rat LD50:28 mg/kg DRUGAY 19,249,80

ims-rat LD50:57 mg/kg DRUGAY 19,249,80

orl-mus LD50:119 mg/kg DRUGAY 19,249,80

ipr-mus LD50:50 mg/kg DDEVD6 3,10,79

ivn-mus LD50:45 mg/kg DRUGAY 19,249,80

ims-mus LD50:53 mg/kg DRUGAY 19,249,80

orl-dog LD50:100 mg/kg DRUGAY 19,249,80

SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal, and intramuscular routes. Human systemic effects by ingestion: hallucinations, distorted perceptions, excitement, motor activity changes, increased pulse rate without blood pressure fall and heart rate changes. When heated to decomposition it emits toxic fumes of NO_x.

FAL050 CAS: 12235-21-1 HR: D FENAZO YELLOW N3GL

mf: C₂₀H₁₈N₂O₆S•Na mw: 437.45

SYNS: ACID YELLOW 135 □ (1,1'-BIPHENYL)-4-OL, 3-((4-(2-(SULFOOXY)ETHOXY)PHENYL)AZO)-, MONOSODIUM SALT □ C.I. ACID YELLOW 135 □ TELON YELLOW NLL □ NYLOMINE YELLOW A-G

TOXICITY DATA with REFERENCE:

mic-sat 100 mg/L GJSCDQ 39,39,1981

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.**FAL100 CAS: 43210-67-9 HR: D FENBENDAZOLE**mf: C₁₅H₁₃N₃O₂S mw: 299.37**PROP:** Powder. Mp: 233° (decomp).**SYNS:** FENBENDAZOL □ HOE 881 □ PANACUR □ (5-(PHENYLTHIO))-2-BENZIMIDAZOLECARBAMIC ACID, METHYL ESTER**TOXICITY DATA with REFERENCE:**

oth:hmn:lym 100 mg/L ENMUDM 2,67,80

oth:hmn:leu 1 mg/L THERAP 31,505,76

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x.**FAM000 CAS: 63918-50-3 HR: 3 FENCAMINE HYDROCHLORIDE**mf: C₂₀H₂₈N₆O₂·ClH mw: 421.00**SYNS:** SICOCLOR □ 1-(1,3,7-TRIMETHYL-2,6-DIOXOPURIN-8-YL)-4-(2-PHENYL-1-METHYL)ETHYL-4-METHYLETHYLENEDIAMINE, HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:508 mg/kg 27ZQAG -,229,72

ipr-rat LD50:93 mg/kg 27ZQAG -,229,72

orl-mus LD50:418 mg/kg 27ZQAG -,229,72

ipr-mus LD50:82 mg/kg 27ZQAG -,229,72

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. A central nervous system stimulant. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.**FAM100 CAS: 7424-00-2 HR: D FENCHLONINE**mf: C₉H₁₀ClNO₂ mw: 199.65**PROP:** Crystals from MeOH (aq). Mp: 238–240°.**SYNS:** ALANINE, 3-(p-CHLOROPHENYL)-, dl- □ dl-p-CHLOROPHENYLALANINE □ dl-4-CHLOROPHENYLALANINE □ (±)-p-CHLOROPHENYLALANINE □ CP 10,188 □ C-PAL □ FENCLONIN □ FENCLONINE**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x and Cl⁻.**FAM300 CAS: 4695-62-9 HR: 1 d-FENCHONE**mf: C₁₀H₁₆O mw: 152.26**SYNS:** BICYCLO(2.2.1)HEPTAN-2-ONE, 1,3,3-TRIMETHYL-, (1R)-(9CI) □ (+)-FENCHONE □ d(+)-FENCHONE □ 2-NORBORNAN-ONE, 1,3,3-TRIMETHYL-, (1R,4S)-(+)- □ 1,3,3-TRIMETHYLBICYCLO(2.2.1)HEPTAN-2-ONE □ (1R)-1,3,3-TRIMETHYLBICYCLO(2.2.1)HEPTAN-2-ONE □ d-1,3,3-TRIMETHYL-2-NORBORNANONE □ d-1,3,3-TRIMETHYL-2-NORCAMPHANONE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:6160 mg/kg FCTXAV 2,327,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**FAO000 CAS: 13851-11-1 HR: 2 FENCHYL ACETATE**mf: C₁₂H₁₉O₂ mw: 195.31**PROP:** Odor od pine, sweet herbal, earthy. D: 0.9690-0.9790 (15°/15°), ref index: 1.4530-1.4590, bp: 220°. Flash pt: 85°C (CC).**SYNS:** 1,3,3-TRIMETHYL-2-NORBORNANOL ACETATE □ 1,3,3-TRIMETHYL-2-NORBORNANYL ACETATE**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 14,773,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A skin irritant. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.**FAO050 CAS: 72841-24-8 HR: D FENCLOL 64****SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.**FAO100 CAS: 53597-27-6 HR: 2 FENDOSAL**mf: C₂₅H₁₉NO₃ mw: 381.45**PROP:** Crystals from acetic acid. Mp: 223–225° (decomp).**SYNS:** ALNOVIN □ 3-(3-CARBOXY-4-HYDROXYPHENYL)-2-PHENYL-4,5-DIHYDRO-3H-BENZ(e)INDOLE □ 5-(4,5-DIHYDRO-2-PHENYL-3H-BENZ(e)INDOL-3-YL)-2-HYDROXY-BENZOIC ACID □ 5-(4,5-DIHYDRO-2-PHENYL-3H-BENZ(e)-INDOL-3-YL)SALICYLIC ACID □ FENDOZAL □ HP 129 □ P 71-0129**TOXICITY DATA with REFERENCE:**

orl-rat LD50:450 mg/kg AGACBH 8,209,78

orl-mus LD50:740 mg/kg AGACBH 8,209,78

ipr-mus LD50:510 mg/kg AGACBH 8,209,78

orl-rbt LD50:560 mg/kg AGACBH 8,209,78

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.**FAO200 CAS: 7698-97-7 HR: 3 FENESTREL**mf: C₁₆H₂₀O₂ mw: 244.36**PROP:** A solid. Mp: 158–163°.**SYNS:** 2-METHYL-3-ETHYL-4-PHENYL-4-CYCLOHEXENE CARBOXYLIC ACID □ 2-METHYL-3-ETHYL-4-PHENYL-Δ⁴-CYCLOHEXENECARBOXYLIC ACID □ ORF 3858**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2350 mg/kg TXAPA9 19,412,71

orl-mus LD50:680 mg/kg TXAPA9 19,412,71

ipr-mus LD50:150 mg/kg TXAPA9 19,412,71

ivn-dog LDLo:20 mg/kg TXAPA9 19,412,71

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. An experimental teratogen. Other experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

**FAO220 CAS: 75867-00-4 HR: 2
FENFLUTHRIN**

mf: $C_{15}H_{11}Cl_2F_5O_2$ mw: 389.16

SYNS: CYCLOPROPANECARBOXYLIC ACID, 3-(2,2-DICHLOROETHENYL)-2,2-DIMETHYL-, (PENTAFLUOROPHENYL) METHYL ESTER, (1R-trans)- □ NAK 1654 □ PENTAFLUOROBENZYL (1R)-trans-(2,2-DICHLOROVINYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE

TOXICITY DATA with REFERENCE:

ivn-rat LD50:1011 μ g/kg PCBPBS 30,79,88

SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic vapors of F^- and Cl^- .

**FAO250 CAS: 126833-17-8 HR: 1
FENHEXAMID**

mf: $C_{14}H_{17}Cl_2NO_2$ mw: 302.20

SYN: CYCLOHEXANECARBOXAMIDE, N-(2,3-DICHLORO-4-HYDROXYPHENYL)-1-METHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:5000 mg/kg FEREAC 67,6030,2002

skn-rat LD50:5000 mg/kg FEREAC 67,6030,2002

ihl-rat LC50:0.322 g/ m^3 FEREAC 67,6030,2002

SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and Cl^- .

**FAO300 CAS: 8067-98-9 HR: D
FENITROTHION-MALATHION MIXTURE**

mf: $C_{10}H_{19}O_6PS_2 \cdot C_9H_{12}NO_5PS$ mw: 607.63

SYNS: AMBITHION □ BUTANEDIOIC ACID, ((DIMETHOXY-PHOSPHINOETHOYL)THIO)-, DIETHYL ESTER, MIXT. WITH o,o-DIMETHYL o-(3-METHYL-4-NITROPHENYL) PHOSPHOROTHIOATE □ GALITION □ MALATHION-FENITROTHION MIXTURE

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:2 mL/kg:BAH,BPR,PUL VHTODE 41,326,1999

SAFETY PROFILE: Human systemic effects. When heated to decomposition it emits toxic vapors of NO_x , SO_x , and PO_x .

**FAP000 CAS: 8006-84-6 HR: 2
FENNEL OIL**

PROP: From steam distillation of *Foeniculum vulgare* Miller (Fam. *Umbelliferae*) (FCTXAV 12,807,74). Colorless to pale-yellow liquid; odor and taste of fennel.

SYNS: BITTER FENNEL OIL □ FENCHEL OEL (GERMAN) □ OIL OF FENNEL

TOXICITY DATA with REFERENCE:

skn-mus 100% SEV FCTXAV 12,879,74

skn-rbt 500 mg/24H MOD FCTXAV 12,879,74

skn-rbt 500 mg/24H FCTXAV 14,309,76

mma-sat 2500 μ g/plate JAFCAU 30,563,82

orl-rat LD50:3120 mg/kg PHARAT 14,435,59

orl-mus LD50:3100 mg/kg TOFOD5 8,91,85

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**FAP100 CAS: 53746-45-5 HR: 3
FENOPROFEN CALCIUM DIHYDRATE**

mf: $C_{30}H_{26}O_6 \cdot Ca \cdot 2H_2O$ mw: 558.68

SYNS: CALCIUM-2-(m-PHENOXYPHENYL)PROPIONATE DIHYDRATE □ FENOPROFEN CALCIUM SALT DIHYDRATE □ FENOPRON □ FEPRONA □ LILLY 69323 □ (\pm)- α -METHYL-3-PHENOXYBENZENEACETIC ACID CALCIUM SALT DIHYDRATE □ NALFON □ NALGESIC □ dl-2-(3-PHENOXYPHENYL)-PROPIONIC ACID CALCIUM SALT, DIHYDRATE □ PROGESIC □ YM-09229

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:5832 mg/kg/35W-I:GIT,KID AJMEAZ 72,81,82

orl-wmn TDLo:720 mg/kg/30D-I JAMAAP 242,1896,79

orl-man TDLo:521 mg/kg/17W-I:KID AIMEAS 93,508,80

orl-wmn LDLo:8748 mg/kg/35W-I:KID,PUL AJMEAZ 72,81,82

orl-wmn TDLo:1898 mg/kg/12W-I:KID AIMEAS 92,72,80

orl-rat LD50:380 mg/kg IYKEDH 13,1128,82

ipr-rat LD50:234 mg/kg YKYUA6 34,363,83

scu-rat LD50:366 mg/kg IYKEDH 13,1128,82

ivn-rat LD50:526 mg/kg YKYUA6 34,363,83

orl-mus LD50:439 mg/kg YHTPAD 21,36,86

ipr-mus LD50:286 mg/kg YKYUA6 34,363,83

scu-mus LD50:463 mg/kg YKYUA6 34,363,83

ivn-mus LD50:471 mg/kg YKYUA6 34,363,83

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. Moderately toxic by intravenous route. Human systemic effects by ingestion: dyspnea, nausea or vomiting, acute renal failure, acute tubular necrosis, interstitial nephritis, and other kidney damage. Experimental reproductive effects. An experimental teratogen. When heated to decomposition it emits acrid smoke and irritating fumes.

**FAQ000 CAS: 34691-31-1 HR: 3
FENOPROFEN SODIUM**

mf: $C_{15}H_{13}O_3 \cdot Na$ mw: 264.27

SYN: d,l-2-(3-PHENOXYPHENYL)PROPIONIC ACID SODIUM SALT

TOXICITY DATA with REFERENCE:

orl-rat LD50:800 mg/kg TXAPA9 25,444,73

ipr-rat LD50:234 mg/kg KSRNAM 14,4385,80

scu-rat LD50:500 mg/kg TXAPA9 25,444,73

ivn-rat LD50:500 mg/kg TXAPA9 25,444,73

ipr-mus LD50:286 mg/kg KSRNAM 14,4385,80

scu-mus LD50:463 mg/kg KSRNAM 14,4385,80

ivn-mus LD50:471 mg/kg KSRNAM 14,4385,80

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of Na_2O . See also FENOPROFEN CALCIUM DIHYDRATE.

**FAQ100 CAS: 1944-12-3 HR: 3
FENOTEROL HYDROBROMIDE**mf: C₁₇H₂₁NO₄•BrH mw: 384.31**PROP:** Crystals from MeOH/Et₂O. Mp: 222–223°.**SYNS:** BEROTEC □ BEROTEC HYDROBROMIDE □ 1-(3,5-DIHYDROXY-PHENYL-2-((1-(4-HYDROXYBENZYL)ETHYL)-AMINO)-ETHANOL) HYDROBROMIDE □ FENOTEROL BROMIDE □ PARTUSISTEN □ PHENOTEROL HYDROBROMIDE □ Th 1165a □ TH 1165a HYDROBROMIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1600 mg/kg IYKEDH 11,542,80

scu-rat LD50:1080 mg/kg IYKEDH 15,1140,84

ivn-rat LD50:65 mg/kg IYKEDH 11,542,80

orl-mus LD50:1990 mg/kg TXAPA9 18,185,71

scu-mus LD50:1100 mg/kg TXAPA9 18,185,71

SAFETY PROFILE: Poison by intravenous route.

Moderately toxic by ingestion and subcutaneous routes.

An experimental teratogen. Human reproductive effects

by ingestion: changes in the uterus, cervix or vagina.

Experimental reproductive effects. When heated to

decomposition it emits toxic fumes of Br⁻ and NO_x.**FAQ200 CAS: 66441-23-4 HR: 2
FENOXAPROP-ETHYL**mf: C₁₈H₁₆ClNO₅ mw: 361.80**SYNS:** ACCLAIM □ DEPON □ ETHYL (D+)-2-(4-(6-CHLOR-2-BENZOXAZOLYLOXY)PHENOXY)PROPANOATE □ ETHYL (+)-2-(4-(6-CHLORO-2-BENZOXAZOLYLOXY)PHENOXY)-PROPANOATE □ EXCEL □ FUREORE □ HOE 33171 □ HOE-A 25-01 □ OPTION □ PROPANOIC ACID, 2-(4-((6-CHLORO-2-BENZOXAZOLYL)OXY)PHENOXY)-, ETHYL ESTER, (+)- □ PUMA □ WHIP**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2357 mg/kg PEMNDP 9,373,91

ihl-rat LC50:>510 mg/m³ NNGADV 17,517,92

skn-rat LD50:>2 g/kg PEMNDP 9,373,91

ipr-rat LD50:739 mg/kg 85ESA3 11,625,89

orl-mus LD50:4670 mg/kg PEMNDP 9,373,91

skn-rbt LD50:>2 g/kg FMCHA2 -,C136,91

ihl-uns LC50:511 mg/m³/4H FMCHA2 -,C136,91**SAFETY PROFILE:** Moderately toxic by ingestion, inhalation, intraperitoneal, and skin contact routes. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**FAQ220 CAS: 74738-17-3 HR: 2
FENPICLONIL**mf: C₁₁H₆Cl₂N₂ mw: 237.09**SYNS:** 4-(2,3-DICHLOROPHENYL)-1H-PYRROLE-3-CARBONITRILE □ 1H-PYRROLE-3-CARBONITRILE, 4-(2,3-DICHLOROPHENYL)-**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>5 g/kg PEMNDP 9,376,91

ihl-rat LC50:1500 mg/m³/4H PEMNDP 9,376,91

skn-rat LD50:>2 g/kg PEMNDP 9,376,91

orl-mus LD50:>5 g/kg PEMNDP 9,376,91

orl-rbt LD50:>5 g/kg PEMNDP 9,376,91

orl-qal LD50:>2510 mg/kg PEMNDP 9,376,91

SAFETY PROFILE: Moderately toxic by skin contact.

Low toxicity by ingestion and inhalation route. When

heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**FAQ230 CAS: 67306-00-7 HR: 2
FENPROPIDINE**mf: C₁₉H₃₁N mw: 273.51**SYNS:** 1-(3-(4-tert-BUTYLPHENYL)-2-METHYLPROPYL)-PIPERIDINE □ CGA 114900 □ 1-(3-(4-(1,1-DIMETHYLETHYL)-PHENYL)-2-METHYLPROPYL)PIPERIDINE □ FENPROPIDIN □ PATROL □ PIPERIDINE, 1-(3-(4-(1,1-DIMETHYLETHYL)-PHENYL)-2-METHYLPROPYL)- □ RO 12-3049**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1447 mg/kg DEVEAA 42(254),33,1988

ihl-rat LC50:1200 g/m³ DEVEAA 42(252),15,1988

skn-rat LD50:1820 mg/kg DEVEAA 42(254),33,1988

orl-mus LD50:>2600 mg/kg PEMNDP 9,378,1991

orl-dck LD50:1900 mg/kg PEMNDP 9,378,1991

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and skin contact. When heated to decomposition it emits toxic vapors of NO_x.**FAQ300 CAS: 67564-91-4 HR: 2
cis-FENPROPIMORPH**mf: C₂₀H₃₃NO mw: 303.54**SYNS:** cis-2,6-DIMETHYL-4-(3-(4-(1,1-DIMETHYLETHYL)-PHENYL)-2-METHYLPROPYL)MORPHOLINE □ MORPHOLINE, 2,6-DIMETHYL-4-(3-(4-(1,1-DIMETHYLETHYL)PHENYL)-2-METHYLPROPYL)-, cis-**TOXICITY DATA with REFERENCE:**

orl-rat LD50:3 g/kg PEMNDP 9,379,1991

ihl-rat LC50:2900 mg/m³/4H PEMNDP 9,379,1991

skn-rat LD50:4200 mg/kg PEMNDP 9,379,1991

orl-mus LD50:5980 mg/kg PEMNDP 9,379,1991

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and skin contact. When heated to decomposition it emits toxic vapors of NO_x.**FAQ500 CAS: 69381-94-8 HR: D
FENPROSTALENE**mf: C₂₃H₃₀O₆ mw: 402.49**SYNS:** BOVILENE □ 7-{3,5-DIHYDROXY-2-(3-HYDROXY-4-PHENOXY-1-BUTENYL)CYCLOPENTYL}-4,5-HEPTADIENOIC ACID METHYL ESTER □ SYNCHROCEPT B**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**FAQ600 CAS: 55512-33-9 HR: 2
FENPYRATE**mf: C₁₉H₂₃ClN₂O₂S mw: 378.95**SYNS:** CARBONOTHIOIC ACID, o-(6-CHLORO-3-PHENYL-4-PYRIDAZINYL) S-OCTYL ESTER □ o-(6-CHLORO-3-PHENYL-4-PYRIDAZINYL) S-OCTYL CARBONOTHIOATE □ CL 11344 □ LENTAGRAN □ P1 3419 □ PYRIDATE □ PYRON □ TOUGH**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1970 mg/kg DEVEAA 38,310,1984

orl-mus LD50:10 g/kg DEVEAA 35,327,1981

skn-rbt LD50:3400 mg/kg FMCHA2-,C257,1991

orl-qal LD50:1500 mg/kg PEMNDP 9,743,1991

orl-dck LD50:10 g/kg PEMNDP 9,743,1991

orl-brd LD50:10 g/kg PEMNDP 9,743,1991

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Cl⁻.

FAQ800 CAS: 115-90-2 HR: 3**FENSULFOTHION**mf: C₁₁H₁₇O₄PS₂ mw: 308.37**PROP:** Yellow oil. D: 1.202 @ 20°/4°, bp: 138–141° @ 0.01 mm. Sol in most org solvs; sltly sol in H₂O.**SYNS:** BAY 25141 □ BAYER S767 □ CHEMAGRO 25141 □ DASANIT □ O,O-DIAETHYL-O-4-METHYLSULFINYL-PHENYL-MONOTHIOPHOSPHAT (GERMAN) □ O,O-DIETHYL-O-(p-(METHYLSULFINYL)PHENYL) PHOSPHOROTHIOATE □ O,O-DIETHYL-O-p-(METHYLSULFINYL)PHENYL THIOPHOSPHATE □ DMSP □ ENT 24,945 □ S 767 □ TERRACUR P**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2 mg/kg FMCHA2 -,C70,83
 ihl-rat LC50:113 mg/m³/1H 85JFAN A202,83
 skn-rat LD50:3 mg/kg WRPCA2 9,119,70
 orl-gpg LDLo:9 mg/kg TXAPA9 6,78,64
 orl-qal LD50:1200 µg/kg EESADV 8,551,84
 orl-dck LD50:747 µg/kg TXAPA9 22,556,72
 skn-dck LD50:3 mg/kg TXAPA9 47,451,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program. EPA Extremely Hazardous Substances List.**OSHA PEL:** TWA 0.1 mg/m³**ACGIH TLV:** TWA 0.1 mg/m³; Not Classifiable as a Human Carcinogen**SAFETY PROFILE:** A poison by ingestion, inhalation, and skin contact. Experimental reproductive effects. A pesticide. When heated to decomposition it emits very toxic fumes of SO_x and PO_x.**FAQ900 CAS: 55-38-9 HR: 3****FENTHION**mf: C₁₀H₁₅O₃PS₂ mw: 278.34**PROP:** A liquid with slight garlic odor. D: 1.25 @ 20°/4°, bp: 87° @ 0.01 mm. Very sltly sol in H₂O.

SYNS: BAY 29493 □ BAYCID □ BAYER 9007 □ BAYTEX □ O,O-DIMETHYL-O-4-(METHYLMERCAPTO)-3-METHYLPHENYL PHOSPHOROTHIOATE □ O,O-DIMETHYL-p-4-(METHYLMERCAPTO)-3-METHYLPHENYL THIOPHOSPHATE □ O,O-DIMETHYL-O-(3-METHYL-4-METHYLMERCAPTOPHENYL)-PHOSPHOROTHIOATE □ O,O-DIMETHYL-O-(3-METHYL-4-METHYLTHIO-PHENYL)-MONOTHIOFOSFAAT (DUTCH) □ O,O-DIMETHYL-O-(3-METHYL-4-METHYLTHIOPHENYL)-MONOTHIOPHOSPHAT (GERMAN) □ O,O-DIMETHYL-O-3-METHYL-4-METHYLTHIOPHENYL PHOSPHOROTHIOATE □ O,O-DIMETHYL-O-(3-METHYL-4-METHYLTHIO-PHENYL)-THIONOPHOSPHAT (GERMAN) □ O,O-DIMETHYL-O-(4-METHYLTHIO-3-METHYLPHENYL) PHOSPHOROTHIOATE □ O,O-DIMETHYL-O-(4-(METHYLTHIO)-m-TOLYL) PHOSPHOROTHIOATE □ O,O-DIMETHYL-O-(3-METHYL-4-METHYLTHIO-FENIL)-MONOTIOFOSFATO (ITALIAN) □ DMTP □ ENT 25,540 □ ENTEX □ LEBAYCID □ MERCAPTOPHOS □ 4-METHYLMERCAPTO-3-METHYLPHENYL DIMETHYL THIOPHOSPHATE □ MPP □ NCI-C08651 □ OMS 2 □ PHOSPHOROTHIOIC ACID-O,O-DIMETHYL-O-(3-METHYL-4-METHYLTHIOPHENYLE) (FRENCH) □ QUELETOX □ S 1752 □ SPOTTON □ TALODEX □ THIOPHOSPHATE de O,O-DIMETHYLE et de O-(3-METHYL-4-METHYLTHIOPHENYLE) (FRENCH) □ TIGUVON

TOXICITY DATA with REFERENCE:

mma-sat 333 µg/plate ENMUDM 8(Suppl 7),1,86
 sce-ham:lng 40 mg/L ENMUDM 4,621,82
 orl-man TDLo:257 mg/kg:CVS,GIT JTCTDW 19,425,82
 unr-hmn LD50:50 mg/kg DTLVS* 4,191,80
 orl-rat LD50:180 mg/kg KSKZAN 16(2),59,78

ihl-rat LC50:800 mg/m³/4H 85INA8 6,646,91
 skn-rat LD50:330 mg/kg TXAPA9 2,88,60
 ipr-rat LDLo:260 mg/kg TXAPA9 6,86,64
 orl-mus LD50:88,100 µg/kg HOEKAN 30,53,80
 ihl-mus LCLo:1 g/m³/2H 85GYAZ -,27,71
 skn-mus LD50:500 mg/kg OYYAA2 1,74,67
 ipr-mus LD50:125 mg/kg TXAPA9 6,86,64
 ivn-mus LD50:320 mg/kg CSLNX* NX#00142
 ihl-rbt LCLo:1 g/m³/2H 85GYAZ -,27,71

CONSENSUS REPORTS: NCI Carcinogenesis

Bioassay Completed; Results Negative: rat NCITR* NCI-CG-TR-103,79; Indefinite: mouse NCITR* NCI-CG-TR-103,79. EPA Genetic Toxicology Program.

OSHA PEL: TWA 0.2 mg/m³ (skin)**ACGIH TLV:** TWA 0.2 mg/m³ (skin); Not Classifiable as a Human Carcinogen**DFG MAK:** 0.2 mg/m³**SAFETY PROFILE:** A human poison by an unspecified route. Poison experimentally by ingestion, skin contact, intraperitoneal, intravenous, and intramuscular routes. Moderately toxic by inhalation. Human systemic effects by ingestion: pulse rate increase, hypermotility, diarrhea, nausea or vomiting. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of PO_x and SO_x. See also MERCAPTANS and ESTERS.**FAQ930 CAS: 8066-27-1 HR: 2****FENTHIURAM**mf: C₆H₁₂N₂S₄•C₆H₆Cl₆•C₆H₅Cl₃O•½Cu mw: 793.43

SYNS: FENTIURAM □ PHENTIURAM □ THIOPEROXY-DICARBONIC DIAMIDE, TETRAMETHYL-, mixture with (1-α-2-α-3-β,4-α-5-α-6-β)-1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE and TRICHLOROPHENOL COPPER(2+) SALT □ UNYSH A

TOXICITY DATA with REFERENCE:

mnt-mus-ipr 50 mg/kg CYGEDX 21(1),57,87
 mnt-ham:lng 15 mg/L CYGEDX 21(1),57,87
 ipr-mus LD50:650 mg/kg CYGEDX 21(1),57,87

SAFETY PROFILE: Moderately toxic by intraperitoneal route. An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and Cl₂.**FAQ950 CAS: 80830-42-8 HR: 3****FENTIAPRIL**mf: C₁₃H₁₅NO₄S₂ mw: 313.41**PROP:** Crystals from EtOAc. Mp: 146–148° (decomp).

SYNS: (2R,4R)-2-(o-HYDROXYPHENYL)-3-(3-MERCAPTO-PROPIONYL)-4-THIAZOLIDINECARBOXYLIC ACID □ PRESCRIN □ RENTIAPRIL □ SA 446 □ 4-THIAZOLIDINECARBOXYLIC ACID, 2-(2-HYDROXYPHENYL)-3-(3-MERCAPTO-1-OXOPROPYL)-, (2R-cis)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:8290 mg/kg OYYAA2 31,235,86
 ipr-rat LD50:921 mg/kg OYYAA2 31,235,86
 scu-rat LD50:1369 mg/kg OYYAA2 31,235,86
 ivn-rat LD50:884 mg/kg OYYAA2 31,235,86
 orl-mus LD50:8050 mg/kg OYYAA2 31,235,86
 ivn-mus LD50:946 mg/kg OYYAA2 31,235,86
 ivn-dog LD50:200 mg/kg OYYAA2 31,235,86

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

FAR000 CAS: 68990-15-8 HR: 1
FENUGREEK ABSOLUTE

PROP: Found in the seed of the plant *Trigonella foenum graecum* L. (FCTXAV 16,637,78).

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 16,755,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FAR050 CAS: 4482-55-7 HR: 1
FENURON TRICHLOROACETATE

mf: C₉H₁₂N₂O•C₂HCl₃O₂ mw: 327.61

SYNS: ACETIC ACID, TRICHLORO-, compounded with N,N-DIMETHYL-N'-PHENYLUREA (1:1) (9CI) □ ACETIC ACID, TRICHLORO-, compounded with 1,1-DIMETHYL-3-PHENYLUREA (1:1) □ ACETIC ACID, TRICHLORO-, mixed with UREA, 1,1-DIMETHYL-3-PHENYL-(1:1) □ 1,1-DIMETHYL-3-PHENYLUREA TRICHLOROACETATE □ N,N-DIMETHYL-N'-PHENYLURONIUM TRICHLOROACETATE □ FENURON TCA □ FENURON TCA SALT □ GC-2603 □ 3-PHENYL-1,1-DIMETHYLUREA, TRICHLOROACETATE □ URAB □ UREA, 1,1-DIMETHYL-3-PHENYL-, TRICHLOROACETATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4 g/kg 28ZEAL 4,230,69

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

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

FAR100 CAS: 51630-58-1 HR: 3
FENVALERATE

mf: C₂₅H₂₂ClNO₃ mw: 419.93

PROP: Clear, yellow, viscous liquid at 23°. D: 1.17, n: (20/D) 1.5533, bp: 300° @ 37 mm. Solubility at 20° (g/L): acetone >450, chloroform >450, methanol >450, hexane 77. Insol in water. Decomp gradually between 150 and 300°.

SYNS: BELMARK □ α-CYANO-3-PHENOXYBENZYL-2-(4-CHLOROPHENYL)ISOVALERATE PYDRIN □ α-CYANO-3-PHENOXYBENZYL-2-(4-CHLOROPHENYL)-3-METHYLBUTYRATE □ CYANO(3-PHENOXYPHENYL)METHYL 4-CHLORO-α-(1-METHYLETHYL)BENZENEACETATE □ ECTRIN □ PHENVALERATE □ PYDRIN □ S 5602 □ SANMARTON □ SD 43775 □ SUMICIDIN □ SUMIFLY □ SUMIPOWER □ WL 43775

TOXICITY DATA with REFERENCE:

cyt-hmn:lym 2 mg/L MUTAEX 4,72,89

sce-hmn:lym 10 mg/L MUTAEX 4,72,89

orl-rat LD50:70,200 µg/kg CHYCDW 21,215,87

ivn-rat LDLo:50 mg/kg ARTODN 45,325,80

orl-mus LD50:185 mg/kg FAATDF 5,278,85

ice-mus LDLo:200 µg/kg TXAPA9 66,290,82

skn-rbt LD50:2500 mg/kg FMCHA2-,C104,83

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

SAFETY PROFILE: Poison by ingestion, intravenous, and intracerebral routes. Moderately toxic by skin contact. Experimental reproductive effects. Mutation data reported. Highly toxic to fish and bees. Corrosive, causes eye damage. A skin irritant. When heated to decomposition it emits toxic fumes of Cl⁻, NO_x, and CN⁻. See also CYANIDE.

FAR150 CAS: 66230-04-4 HR: 3
FENVALERATE ALPHA

mf: C₂₅H₂₂ClNO₃ mw: 419.93

SYNS: ASANA □ ASANA XL □ BENZENEACETIC ACID, 4-CHLORO-α-(1-METHYLETHYL)-, CYANO (3-PHENOXY-PHENYL)METHYL ESTER, (S-(R*,R*))-, □ (S)-α-CYANO-3-PHENOXYBENZYL(S)-2-(4-CHLOROPHENYL)-3-METHYLBUTYRATE □ ESFENVALERATE □ FENVALERATE A ALPHA □ HALMARK □ OMS 3023 □ S 1844 □ S 5602 A ALPHA □ SUMI-ALFA □ SUMI-ALPHA □ SUMICIDIN A ALPHA

TOXICITY DATA with REFERENCE:

orl-rat LD50:325 mg/kg FMCHA2-,C287,91

skn-rat LD50:>5 g/kg FMCHA2-,C287,91

skn-rbt LD50:>2 g/kg FMCHA2-,C27,91

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 53,309,91; Animal Inadequate Evidence IMEMDT 53,309,91; Human No Available Data IMEMDT 53,309,91.

SAFETY PROFILE: A poison by ingestion. Moderately toxic by skin contact. Questionable carcinogen. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

FAR200 CAS: 2441-88-5 HR: 3
FENYRIPOL HYDROCHLORIDE

mf: C₁₂H₁₃N₃O•ClH mw: 251.74

PROP: Crystals from EtOH. Mp: 167–168°.

SYNS: 2-(β-HYDROXY-β-PHENETHYLAMINO)-PYRIMIDINE HYDROCHLORIDE □ 2-(β-HYDROXY-β-PHENYL-ETHYL-AMINO)-PYRIMIDINE CHLORHYDRATE (FRENCH) □ IN 836 □ α-((2-PYRIMIDINYLAMINO)METHYL)BENZYL ALCOHOL HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:235 mg/kg AIPTAK 141,83,63

orl-mus LD50:850 mg/kg AIPTAK 141,83,63

ipr-mus LD50:455 mg/kg AIPTAK 141,83,63

ivn-mus LD50:137 mg/kg AIPTAK 141,83,63

ivn-dog LD50:125 mg/kg AIPTAK 141,83,63

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.

FAS000 CAS: 14484-64-1 HR: 3
FERBAM

mf: C₉H₁₈N₃S₆•Fe mw: 416.51

PROP: Black solid or powder. Mp: 180° (decomp).

Decomposes upon prolonged storage or in contact with moisture. Sltly sol in H₂O; sol in Me₂CO, CHCl₃, Py, and MeCN. IDLH 800 mg/m³.

SYNS: AAFERTIS □ BERCEMA FERTAM 50 □ CARBAMATE □ DIMETHYLCARBAMODITHIOIC ACID, IRON COMPLEX □ DIMETHYLCARBAMODITHIOIC ACID, IRON(3+) SALT □ DIMETHYLDITHIOICARBAMIC ACID, IRON SALT □

DIMETHYLDITHIOCARBAMIC ACID, IRON(3+) SALT □
 EISENDIMETHYLDITHIOCARBAMAT (GERMAN) □ EISEN(III)-
 TRIS(N,N-DIMETHYLDITHIOCARBAMAT) (GERMAN) □ ENT
 14,689 □ FERBAM 50 □ FERBAM, IRON SALT □ FERBECK □
 FERMATE FERBAM FUNGICIDE □ FERMOCID □
 FERRADOW □ FERRIC DIMETHYLDITHIOCARBAMATE □
 FUKLASIN ULTRA □ HEXAFERB □ HOKMATE □ IRON
 DIMETHYLDITHIOCARBAMATE □ KARBAM BLACK □
 KNOCKMATE □ NIACIDE □ SUP'R FLO FERBAM FLOWABLE
 □ TRIFUNGOL □ TRIS(DIMETHYLCARBAMODITHIOATO-
 S,S')IRON □ TRIS(DIMETHYLDITHIOCARBAMATO)IRON □
 TRIS(N,N-DIMETHYLDITHIOCARBAMATO) IRON(III) □
 VANCIDE FE95

TOXICITY DATA with REFERENCE:

mno-sat 50 µg/plate CSHCAL 4,267,77
 mno-omi 1000 ppm MMAPAP 50,233,73
 orl-rat LD50:1130 mg/kg FATOAO 32,356,69
 ipr-rat LD50:2700 mg/kg JAPMA8 41,662,52
 orl-mus LD50:3400 mg/kg JTEHD6 4,93,78
 ipr-mus LDLo:63 mg/kg CBCCT* 4,228,52
 orl-rbt LDLo:3 g/kg JAPMA8 41,662,52
 ipr-rbt LDLo:1500 mg/kg JAPMA8 41,662,52

CONSENSUS REPORTS: IARC Cancer Review:
 Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence
 IMEMDT 12,121,76. Reported in EPA TSCA Inventory.
 EPA Genetic Toxicology Program.

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

ACGIH TLV: TWA 10 mg/m³; Not Classifiable as a
 Human Carcinogen

DFG MAK: 15 mg/m³

SAFETY PROFILE: Poison by intraperitoneal route.
 Moderately toxic by ingestion. Experimental teratogenic
 and reproductive effects. Questionable carcinogen with
 experimental carcinogenic and tumorigenic data. Mutation
 data reported. A fungicide. When heated to
 decomposition it emits very toxic fumes of NO_x and SO_x.
 See also CARBAMATES.

FAS100 CAS: 50767-79-8 HR: 1
FERODIN SL

mf: C₁₆H₂₈O₂ mw: 252.44

SYNS: LITLURE A □ PHERODIN SL □ PRODLURE □ PT-2 □
 9,11-TETRADECADIEN-1-YL, ACETATE, (E,Z)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:>1 g/kg JPIFAN (40),32,82
 orl-mus LD50:>1 g/kg JPIFAN (40),32,82

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

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

FAS700 CAS: 1185-57-5 HR: 1
FERRIC AMMONIUM CITRATE

mf: C₆H₈O₇•xFe•xH₄N

PROP: A complex salt of undetermined structure.
 Transparent green scales, granules, powder, or crystals;
 ammonia-like odor, mild iron-metallic taste. Sol in water;
 insol in alc. Deliquescent.

SYNS: CITRIC ACID, AMMONIUM IRON(3+) SALT □ FAC □
 FERRIC AMMONIUM CITRATE, GREEN □ IRON(III)
 AMMONIUM CITRATE

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

ACGIH TLV: TWA 1 mg(Fe)/m³

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

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

FAS800 CAS: 25869-00-5 HR: 1
FERRIC AMMONIUM FERROCYANIDE

mf: C₆FeN₆•Fe•H₄N mw: 285.87

SYNS: AFCF □ AMMONIUM-FERRIC-CYANO-FERRATE(II) □
 AMMONIUM-FERRIC-FERROCYANIDE □ AMMONIUM IRON
 HEXACYANOFERRATE □ FERRATE(4), HEXACYANO-,
 AMMONIUM IRON(3+) □ GIESE SALT □ FERRATE(4),
 HEXAKIS(CYANO-C)-, AMMONIUM IRON(3+) (1:1:1), (OC-6-11)-

TOXICITY DATA with REFERENCE:

unr-mus LD50:>5 g/kg BVJOA9 144,363,1988

CONSENSUS REPORTS: Reported in EPA TSCA
 Inventory.

SAFETY PROFILE: Low toxicity by an unreported
 route. When heated to decomposition it emits toxic
 vapors of CN⁻.

FAU000 CAS: 7705-08-0 HR: 3
FERRIC CHLORIDE

DOT: UN 1773/UN 2582

mf: Cl₃Fe mw: 162.20

PROP: Black-brown solid or hygroscopic dark-green or
 black crystals. Mp: 303°, bp: 315°, d: 2.90 @ 25°, vap
 press: 1 mm @ 194.0°. Aq solns are strongly acidic. Sol in
 H₂O to give hydrates; sol in MeOH and Et₂O.

SYNS: CHLORURE PERRIQUE □ FERRIC CHLORIDE (UN
 1733) (DOT) □ FERRIC CHLORIDE, solution (UN 2582) (DOT) □
 FLORES MARTIS □ IRON CHLORIDE □ IRON(III) CHLORIDE
 □ IRON TRICHLORIDE □ PERCHLORURE de FER

TOXICITY DATA with REFERENCE:

oth-esc 500 nmol/tube LAMEDS 6,252,86
 orl-rat LD50:450 mg/kg GISAAA 39(5),16,74
 orl-mus LD50:895 mg/kg TRENAF 27,159,76
 ivn-mus LD50:58 mg/kg YKKZAJ 87,677,67

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

OSHA PEL: TWA 1 mg(Fe)/m³

ACGIH TLV: TWA 1 mg(Fe)/m³

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by ingestion and
 intravenous routes. Experimental reproductive effects.
 Corrosive. Probably an eye, skin, and mucous membrane
 irritant. Mutation data reported. Reacts with water to
 produce toxic and corrosive fumes. Catalyzes potentially
 explosive polymerization of ethylene oxide, chlorine +
 monomers (e.g., styrene). Forms shock-sensitive explosive
 mixtures with some metals (e.g., potassium, sodium).
 Violent reaction with allyl chloride. When heated to
 decomposition it emits highly toxic fumes of HCl.

FAW000 CAS: 10025-77-1 HR: 3

FERRIC CHLORIDE HEXAHYDRATEmf: $\text{Cl}_3\text{Fe}\cdot 6\text{H}_2\text{O}$ mw: 270.32**PROP:** Orange-brown very hygroscopic crystals. Mp: 37°. Sol in H_2O , EtOH, Me_2CO , and Et_2O .**SYNS:** FERRIC TRICHLORIDE HEXAHYDRATE □ IRON(3+) CHLORIDE HEXAHYDRATE □ IRON(III), CHLORIDE HEXAHYDRATE □ IRON TRICHLORIDE HEXAHYDRATE**TOXICITY DATA with REFERENCE:**dni-hmn:lym 4800 $\mu\text{mol/L}$ IAAAAM 79,83,86

cyt-rat/ast 500 mg/kg GANNA2 54,155,63

orl-rat LDLo:900 mg/kg EQSSDX 1,1,75

ipr-mus LD50:260 mg/kg JAFCAU 14,512,66

ivn-rbt LDLo:7200 $\mu\text{g/kg}$ EQSSDX 1,1,75**OSHA PEL:** TWA 1 mg(Fe)/ m^3 **ACGIH TLV:** TWA 1 mg(Fe)/ m^3 **SAFETY PROFILE:** Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Human mutation data reported. Used as an astringent. When heated to decomposition it emits toxic fumes of Cl^- . See also CHLORIDES.**FAW100 CAS: 2338-05-8 HR: D
FERRIC CITRATE**mf: $\text{C}_6\text{H}_5\text{FeO}_7$ mw: 244.95**PROP:** White or red crystals; odorless with slt metallic taste. Sol in water.**SYN:** IRON(III) CITRATE**SAFETY PROFILE:** When heated to decomposition it emits acid smoke and irritating fumes.**FAX000 CAS: 7783-50-8 HR: 3
FERRIC FLUORIDE**mf: F_3Fe mw: 112.85**PROP:** White or green crystals. D: 3.87, mp: 1000°. Sltly sol in H_2O , HF, EtOH, and Et_2O .**SYNS:** IRON FLUORIDE □ IRON TRIFLUORIDE**TOXICITY DATA with REFERENCE:**

oth-esc 250 nmol/tube LAMEDS 6,252,86

ipr-mus LD50:601 mg/kg COREAF 256,1043,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 2.5 mg(F)/ m^3 ; TWA 1 mg(Fe)/ m^3 **ACGIH TLV:** TWA 2.5 mg(F)/ m^3 ; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift; 1 mg(Fe)/ m^3 **NIOSH REL:** TWA (Inorganic Fluorides) 2.5 mg(F)/ m^3 **SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of F^- . See also FLUORIDES.**FAY000 HR: 2
FERRIC HYDROXIDE NITRILOTRIPROPIONIC
ACID COMPLEX****PROP:** Complex with 20.0% Fe (ONCOBS 19,239,65).**SYN:** IRON(+3) HYDROXIDE COMPLEX with NITRILO-TRIPROPIONIC ACID**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x .**FAY200 CAS: 10421-48-4 HR: 2
FERRIC NITRATE
DOT: UN 1466**mf: $\text{N}_3\text{O}_9\cdot\text{Fe}$ mw: 241.88**SYNS:** FERRIC NITRATE (DOT) □ IRON NITRATE □ IRON (III) NITRATE, ANHYDROUS □ IRON TRINITRATE □ NITRIC ACID, IRON(3+) SALT**TOXICITY DATA with REFERENCE:**

oth-esc 1250 nmol/tube LAMEDS 6,252,86

ACGIH TLV: TWA 1 mg/(Fe)/ m^3 **DOT CLASSIFICATION:** 5.1; Label: Oxidizer**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. A reactive oxidizer.**FAZ000 HR: 2
FERRIC NITROSODIMETHYL DITHIOCARBAM-
ATE and TETRAMETHYL THIURAM
DISULFIDE****PROP:** 58.5% main component, 6.5% secondary component (NTIS** PB223-159).**SYNS:** BIS(DIMETHYLTHIOCARBAMOYL)DISULFIDE and NITROSOTRIS(DIMETHYLDITHIOCARBAMATO)IRON □ TETRAMETHYLTHIURAM DISULFIDE mixed with FERRIC NITROSODIMETHYLDITHIOCARBAMATE □ VANGUARD GF**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and SO_x . See also N-NITROSO COMPOUNDS, CARBAMATES, and SULFIDES.**FAZ500 CAS: 10045-86-0 HR: D
FERRIC PHOSPHATE**mf: $\text{FePO}_4\cdot x\text{H}_2\text{O}$ mw: 150.82**PROP:** Yellowish to buff powder; odorless. Sol in mineral acids; insol in water, acetic acid.**SYNS:** FERRIC ORTHOPHOSPHATE □ IRON PHOSPHATE**SAFETY PROFILE:** When heated to decomposition it emits very toxic fumes of PO_x .**FAZ525 CAS: 10058-44-3 HR: D
FERRIC PYROPHOSPHATE**mf: $\text{Fe}_4(\text{P}_2\text{O}_7)_3\cdot x\text{H}_2\text{O}$ mw: 745.22**PROP:** Tan to yellow powder. Sol in mineral acids; insol in water.**SYN:** IRON PYROPHOSPHATE**SAFETY PROFILE:** When heated to decomposition it emits very toxic fumes of PO_x .**FBA000 CAS: 10028-22-5 HR: 3
FERRIC SULFATE**mf: $\text{Fe}_2\text{O}_12\text{S}_3$ mw: 399.88**PROP:** Yellow solid or crystals, or gray-white powder. Sltly soluble in H_2O ; soly increased if trace FeSO_4 present.**SYNS:** DIIRON TRISULFATE □ IRON PERSULFATE □ IRON SESQUISULFATE □ IRON SULFATE (2:3) □ IRON(III) SULFATE □ IRON TERSULFATE □ SULFURIC ACID, IRON (3+) SALT (3:2)**TOXICITY DATA with REFERENCE:**

uns-bac-esc 250 nmol/tube LAMEDS 6,252,86

ipr-mus LD50:168 mg/kg CHDDAT 256,1043,63

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

ACGIH TLV: TWA 1 mg(Fe)/m³

SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and Fe⁺. See also SULFATES and other ferric salts.

**FBB000 CAS: 9007-73-2 HR: 2
FERRITIN**

PROP: Prepared from rat liver protein by precipitation with a cadmium salt (BECCAN 39,74,61).

TOXICITY DATA with REFERENCE:

cyt-ham:ovr 27 mg/L CNREA8 41,1628,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**FBB100 HR: 3
FERRLECIT**

TOXICITY DATA with REFERENCE:

ipr-mus LD50:229 mg(Fe)/kg NNAPBA 270(Suppl),R50,71

SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

**FBC000 CAS: 102-54-5 HR: 3
FERROCENE**

mf: C₁₀H₁₀Fe mw: 186.05

PROP: Orange crystals from alc (aq); camphor odor. Mp: 172.5–173°, bp: 249°, subl @ >100°, volatile in steam. Insol in water; sol in alcohol and ether.

SYNS: BIS(CYCLOPENTADIENYL)IRON □ DI-2,4-CYCLOPENTADIEN-1-YL IRON □ DICYCLOPENTADIENYL IRON (OSHA, ACGIH) □ IRON BIS(CYCLOPENTADIENE) □ IRON DICYCLOPENTADIENYL

TOXICITY DATA with REFERENCE:

sln-dmg-par 100 ppm ENMUDM 7,87,85

trn-dmg-par 100 ppm ENMUDM 7,87,85

sce-ham:ovr 130 µg/L ENMUDM 7,1,85

orl-rat LD50:1320 mg/kg SCCUR* -,5,61

ipr-rat LD50:500 mg/kg NCIUS* PH 43-64-886,JAN,65

orl-mus LD50:832 mg/kg BJPCAL 24,352,65

ipr-mus LD50:335 mg/kg NCIUS* PH 43-64-886,JAN,65

ivn-mus LD50:178 mg/kg CSLNX* NX#02382

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

ACGIH TLV: TWA 10 mg/m³

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Flammable; reacts violently with NH₄ClO₄. When heated to decomposition it emits acrid smoke and irritating fumes.

**FBC100 CAS: 1336-80-7 HR: 3
FERROCHOLINATE**

mf: C₆H₁₀FeO₁₀•C₅H₁₄NO mw: 402.21

PROP: Greenish-brown, reddish-brown, or brown amorph solid or powder with glistening surface upon fracture. Sol in water, acids, and alkalis.

SYNS: CHELAFER □ CHEL-IRON □ FERRIC CHOLINE CITRATE □ FERROLIP □ IRON CHOLINE CITRATE COMPLEX

TOXICITY DATA with REFERENCE:

orl-mus LD50:5500 mg/kg AJMSA9 241,296,61

ipr-mus LD50:151 mg/kg AJMSA9 241,296,61

ivn-mus LD50:210 mg/kg AJMSA9 241,296,61

ivn-dog LD50:140 mg/kg AJMSA9 241,296,61

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

**FBD000 CAS: 11114-46-8 HR: 3
FERROCHROME (exothermic)**

SYNS: CARBON FERROCHROMIUM □ CHROME FERRO-ALLOY □ CHROMIUM ALLOY, Cr,C,Fe,N,Si □ CHROMIUM ALLOY, BASE, Cr,C,Fe,N,Si (FERROCHROMIUM) □ FERRO-CHROME □ exothermic FERROCHROME □ FERROCHROMIUM

CONSENSUS REPORTS: IARC Cancer Review:

Animal Inadequate Evidence IMEMDT 23,205,80.

Reported in EPA TSCA Inventory. Chromium and its compounds are on the Community Right-To-Know List.

OSHA PEL: TWA 1 mg(Cr)/m³

ACGIH TLV: TWA 0.5 mg(Cr)/m³; Not Classifiable as a Carcinogen

SAFETY PROFILE: Poison by inhalation. Questionable carcinogen. See also CHROMIUM COMPOUNDS.

**FBD100 HR: 1
FERROCYANIDES**

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

SAFETY PROFILE: Ferrocyanides in general have low toxicity, but highly toxic decomposition products can form upon mixing them with hot concentrated acids. Acid, basic or neutral solutions of ferrocyanides liberate hydrocyanic acid upon strong irradiation. Fusion of mixtures of metal cyanides with metal chlorates, perchlorates, nitrates, or nitrites may cause violent explosions. When heated to decomposition or on contact with acids or acid fumes they emit toxic fumes of CN⁻. See also CYANIDE and specific compounds.

**FBD500 CAS: 17169-60-7 HR: 3
FERROGLYCINE SULFATE**

mf: C₂H₄FeNO₆S•H mw: 226.99

SYNS: FERRATE(1-), (GLYCINATO-N,O)(SULFATO(2-)-O',O'), HYDROGEN, (T-4)-(9CI) □ FERROGLYCINE SULFATE □ FERROGLYCINE SULFATE COMPLEX □ FERRONORD □ FERROSANOL □ GLYFERRO

TOXICITY DATA with REFERENCE:

orl-rat LD50:5590 mg/kg AJMSA9 241,296,61

orl-mus LD50:1940 mg/kg

AJMSA9 241,296,61

ipr-mus LD50:365 mg/kg AJMSA9 241,296,61

ACGIH TLV: TWA 1 mg(Fe)/m³**SAFETY PROFILE:** Poison by intraperitoneal route.Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of SO_x and NO_x.**FBE000 CAS: 12604-53-4 HR: 3****FERROMANGANESE (exothermic)****SYN:** exothermic FERROMANGANESE (DOT)**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory. Manganese and its compounds are on the Community Right-To-Know List.**SAFETY PROFILE:** The dust will burn violently and give off toxic fumes of MnO₂. See also MANGANESE COMPOUNDS.**FBG000 CAS: 8049-17-0 HR: 3****FERROSILICON****DOT:** UN 1408

mf: FeSi mw: 83.90

PROP: Crystalline, metallic solid. Fe + Si, d: 5.4.

Containing 30% or more but not more than 70% silicon (FEREAC 41,15972,76).

SYN: FERROSILICON, containing more than 30% but less than 90% SILICON (DOT)**TOXICITY DATA with REFERENCE:**

skn-rbt LD50:>20 g/kg NTIS** AD-A062-138

ihl-rat TCLo:194 mg/m³/6H/26W-I GTPZAB 22(6),28,78**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 4.3; Label: Dangerous When Wet**SAFETY PROFILE:** Moderate inhalation hazard. Low skin toxicity. Reaction with moisture releases hydrogen and acetylene gases, which then ignite; impurities in the alloy may liberate such poisonous and reactive gases as phosphine and arsine. Dry mixtures with sodium hydroxide react incandescently when water is added. Reaction with acid, acid fumes, or oxidizing materials can emit toxic fumes. Reaction hazards increase with decreasing particle size.**FBG200 CAS: 15669-07-5 HR: 2****FERROTREMOLITE**mf: Ca₂Fe₅H₂O₂₄Si₈ mw: 970.15**SYN:** FERROACTINOLITE**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data.**FBH000 CAS: 3094-87-9 HR: 2****FERROUS ACETATE**mf: C₄H₆O₄•Fe mw: 173.95**PROP:** White or colorless crystals.**SYNS:** ACETIC ACID, IRON(2+) SALT □ IRON(2+) ACETATE □ IRON(II) ACETATE □ IRON DIACETATE**TOXICITY DATA with REFERENCE:**

scu-rat LD50:492 mg/kg 27ZWAY 3,2,1268,-

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 1 mg(Fe)/m³**ACGIH TLV:** TWA 1 mg(Fe)/m³**SAFETY PROFILE:** Moderately toxic by subcutaneous route. When heated to decomposition it emits acrid smoke and irritating fumes.**FBH050 CAS: 14536-17-5 HR: 1****FERROUS ASCORBATE****PROP:** Blue-violet solid.**SYN:** IRON(II) ASCORBATE**SAFETY PROFILE:** A nuisance dust.**FBH100 CAS: 563-71-3 HR: 1****FERROUS CARBONATE**mf: CFeO₃ mw: 115.86**PROP:** White solid; odorless; gray solid. Decomposes yielding CO₂ + FeO at 2°. Insol in H₂O; sol acids to give CO₂; sol in H₂O saturated with CO₂ to give Fe(HCO₃)₂ which then oxidizes.**SYN:** IRON(II) CARBONATE**SAFETY PROFILE:** A nuisance dust.**FBI000 CAS: 7758-94-3 HR: 3****FERROUS CHLORIDE****DOT:** UN 1759/UN 1760mf: Cl₂Fe mw: 126.75**PROP:** White crystals when pure; hygroscopic. Green to yellow, deliquescent crystals. Mp: 676°, bp: 1012°, d: 3.16, vap press: 10 mm @ 700°. Sol in H₂O; insol in Et₂O; sltly sol in C₆H₆.**SYNS:** IRON(II) CHLORIDE (1:2) □ FERROUS CHLORIDE, solution (NA 1760) (DOT) □ FERROUS CHLORIDE, solid (NA 1759) (DOT) □ IRON DICHLORIDE □ IRON PROTOCHLORIDE**TOXICITY DATA with REFERENCE:**

otr-ham:emb 2500 μmol/L CNREA8 39,193,79

orl-rat LD50:450 mg/kg GISAAA 39(5),16,74

ipr-mus LD50:59 mg/kg AEPPAE 244,17,62

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**OSHA PEL:** TWA 1 mg(Fe)/m³**ACGIH TLV:** TWA 1 mg(Fe)/m³**DOT CLASSIFICATION:** 8; Label: Corrosive**SAFETY PROFILE:** Poison by ingestion and intraperitoneal routes. Mutation data reported. Corrosive. Probably an irritant to the eyes, skin, and mucous membranes. Can react violently with ethylene oxide, K, Na. When heated to decomposition it emits toxic fumes of Cl⁻. See also CHLORIDES and IRON.**FBJ000 CAS: 13478-10-9 HR: 3****FERROUS CHLORIDE TETRAHYDRATE**mf: Cl₂Fe•4H₂O mw: 198.83**PROP:** Blue green crystals; readily oxidized in soln. Sol in H₂O, EtOH.**SYNS:** IRON CHLORIDE TETRAHYDRATE □ IRON (II) CHLORIDE TETRAHYDRATE □ IRON(2+) CHLORIDE TETRAHYDRATE □ IRON DICHLORIDE TETRAHYDRATE**TOXICITY DATA with REFERENCE:**

rec-rat LDLo:498 mg/kg EQSSDX 1,1,75

ipr-mus LD50:93 mg/kg AEPPAE 244,17,62

orl-rbt LDLo:890 mg/kg EQSSDX 1,1,75

scu-rbt LDLo:189 mg/kg EQSSDX 1,1,75

rec-rbt LDLo:984 mg/kg EQSSDX 1,1,75

OSHA PEL: TWA 1 mg(Fe)/m³**ACGIH TLV:** TWA 1 mg(Fe)/m³**SAFETY PROFILE:** Poison by intraperitoneal and subcutaneous routes. Moderately toxic by ingestion and rectal routes. When heated to decomposition it emits toxic fumes of Cl⁻.**FBJ075 CAS: 23383-11-1 HR: D
FERROUS CITRATE**mf: C₆H₆FeO₇ mw: 245.96**PROP:** White crystals or sltly colored powder.**SYN:** IRON(II) CITRATE**SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**FBJ100 CAS: 141-01-5 HR: 3
FERROUS FUMARATE**mf: C₄H₂O₄•Fe mw: 169.91**PROP:** Reddish-orange to reddish-brown granular powder or solid; odorless, almost tasteless. D: 2.435. Solubility at 25° in water: 0.14 g/100 mL; in alc <0.01 g/100 mL. Solubility in acid is limited by liberation of fumaric acid. Insol in EtOH.**SYNS:** CIRON □ ERCO-FER □ ERCOFERRO □ FEOSTAT □ FEROTON □ FERROFUME □ FERRONAT □ FERRONE □ FERROTEMP □ FERRUM □ FERSAMAL □ FIRON □ FUMAFER □ FUMAR-F □ FUMIRON □ GALFER □ HEMOTON □ IRCON □ IRON FUMARATE □ METERFER □ METERFOLIC □ ONE-IRON □ PALAFER □ TOLERON □ TOLFERAIN □ TOLIFER**TOXICITY DATA with REFERENCE:**

orl-wmn LDLo:400 mg/kg:BAH,PUL HUTODJ 7,281,88

orl-rat LD50:3850 mg/kg NIIRDN 6,683,82

ipr-rat LD50:185 mg/kg NIIRDN 6,683,82

scu-rat LD50:500 mg/kg NIIRDN 6,683,82

orl-mus LD50:1570 mg/kg AJMSA9 241,296,61

ipr-mus LD50:480 mg/kg AJMSA9 241,296,61

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 1 mg(Fe)/m³**ACGIH TLV:** TWA 1 mg(Fe)/m³**SAFETY PROFILE:** Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. Human systemic effects by ingestion: dyspnea, nausea or vomiting, somnolence. When heated to decomposition it emits acrid smoke and irritating fumes. See also FUMARIC ACID.**FBK000 CAS: 299-29-6 HR: 3
FERROUS GLUCONATE**mf: C₁₂H₂₂O₁₄•Fe mw: 446.19**PROP:** Yellowish-gray or pale-greenish-yellow, fine powder or granules with slt odor of burned sugar. Sol in water and glycerin; insol in alc.**SYNS:** FERGON □ FERGON PREPARATIONS □ FERLUCON □ FERRONICUM □ GLUCO-FERRUM □ IROMIN □ IRON GLUCONATE □ IROX (GADOR) □ NIONATE □ RAY-GLUCIRON**TOXICITY DATA with REFERENCE:**

scu-mus TDLo:2600 mg/kg/13W-I:ETA,REP JNCIAM 24,109,60

orl-chd TDLo:162 mg/kg:GIT JAMAAP 218,1179,71

orl-rat LD50:2237 mg/kg NTIS** UR-3490-168

orl-mus LD50:3950 mg/kg AJMSA9 241,296,61

ipr-mus LD50:160 mg/kg AJMSA9 241,296,61

ivn-mus LD50:199 mg/kg AJMSA9 241,296,61

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 1 mg(Fe)/m³**ACGIH TLV:** TWA 1 mg(Fe)/m³**SAFETY PROFILE:** Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Human systemic effects by ingestion: hypermotility, diarrhea, nausea, and vomiting. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**FBL000 CAS: 22830-45-1 HR: 3
FERROUS GLUCONATE DIHYDRATE**mf: C₁₂H₂₂O₁₄•Fe•2H₂O mw: 483.23**PROP:** Yellow-gray powder. Sol in H₂O; insol in EtOH.**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4500 mg/kg AJMSA9 230,491,55

orl-mus LD50:3700 mg/kg AJMSA9 230,491,55

ivn-mus LD50:98 mg/kg AJMSA9 230,491,55

OSHA PEL: TWA 1 mg(Fe)/m³**ACGIH TLV:** TWA 1 mg(Fe)/m³**SAFETY PROFILE:** Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.**FBM000 CAS: 2896-87-9 HR: 2
FERROUS GLUTAMATE**mf: C₅H₉FeNO₄ mw: 203.00**SYN:** GLUTAMIC ACID, IRON (2+) SALT (1:1)**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**FBN000 CAS: 15438-31-0 HR: D
FERROUS ION**

mf: Fe mw: 55.85

SYNS: FERROUS □ IRON(2+) □ IRON (Fe 2+) □ IRON(II) ION**TOXICITY DATA with REFERENCE:**

mmo-nsc 200 μmol/L MAGDA3 10,249,79

SAFETY PROFILE: Mutation data reported.**FBN100 CAS: 7720-78-7 HR: 3
FERROUS SULFATE**mf: O₄S•Fe mw: 151.91**PROP:** Grayish white to buff powder. Slowly sol in water; insol in alc.**SYNS:** COPPERAS □ DURETTER □ DUROFERON □ EXSICCATED FERROUS SULFATE □ EXSICCATED FERROUS SULPHATE □ FEOSOL □ FEOSPAN □ FER-IN-SOL □ FERRO-GRADUMET □ FERRALYN □ FERRO-GRADUMET □ FERROSULFAT (GERMAN) □ FERROSULFATE □ FERROTHERON □ FERSOLATE □ GREEN VITRIOL □ IRON MONOSULFATE □ IRON PROTOSULFATE □ IRON(II) SULFATE (1:1) □ IRON VITRIOL □ IROSPAN □ IROSUL □ SLOW-FE □ SULFERROUS □ SULFURIC ACID, IRON(2+) SALT (1:1)

TOXICITY DATA with REFERENCE:

mmo-smc 100 mmol/L MUREAV 117,149,83
 cyt-ham:fbr 1250 mg/L FCTOD7 22,623,84
 orl-rat TDLo:7200 mg/kg;TER OYYAA2 17,483,79
 itt-rat TDLo:12,153 mg/kg (1D male):REP JRPFA4 7,21,64
 scu-mus TDLo:1600 mg/kg/16W-I:ETA JNCIAM 24,109,60
 orl-chd LDLo:390 mg/kg JOPDAB 64,218,64
 orl-wmn TDLo:60 mg/kg:CNS,GIT JAMAAP 229,1333,74
 orl-wmn TDLo:10,560 µg/kg:GIT JAMAAP 236,2320,76
 orl-chd TDLo:20 mg/kg:BRN,CNS JOPDAB 94,147,79
 orl-chd TDLo:150 mg/kg:CNS,GIT NEJMAG 273,1124,65
 orl-wmn TDLo:600 mg/kg JAMAAP 229,1333,74
 unr-man LDLo:441 mg/kg 85DCAI 2,73,70
 orl-rat LD50:319 mg/kg JOPDAB 69,663,66
 scu-rat LD50:155 mg/kg NIIRDN 6,888,82
 orl-mus LD50:680 mg/kg BJPCAL 24,352,65
 ipr-mus LD50:289 mg/kg COREAF 256,1043,63
 scu-mus LD50:60,300 µg/kg NIIRDN 6,6888,82
 ivn-mus LD50:112 mg/kg AJMSA9 241,296,61
 ivn-dog LD50:79 mg/kg AJMSA9 241,296,61
 idu-rbt LDLo:200 mg/kg TXAPA9 66,329,82

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

OSHA PEL: TWA 1 mg(Fe)/m³

ACGIH TLV: TWA 1 mg(Fe)/m³

SAFETY PROFILE: A human poison by ingestion. Moderately toxic to humans by an unspecified route. An experimental poison by ingestion, intraduodenal, intraperitoneal, intravenous, and subcutaneous routes. Human systemic effects by ingestion: aggression, somnolence, brain recording changes, diarrhea, nausea or vomiting, bleeding from the stomach, coma. Questionable carcinogen with experimental tumorigenic data. Experimental teratogenic and reproductive effects. Mutation data reported. Potentially explosive reaction with methyl isocyanacetate at 25°. May ignite on contact with arsenic trioxide + sodium nitrate. When heated to decomposition it emits toxic fumes of SO_x. See also IRON COMPOUNDS.

FBO000 CAS: 7782-63-0 HR: 3
FERROUS SULFATE HEPTAHYDRATE

mf: O₄S•Fe•7H₂O mw: 278.05

PROP: Pale blue green monoclinic, hygroscopic crystals or granules; odorless with a salt taste. D: 2.99–3.08, mp: 64°. Sol in H₂O to give [Fe(H₂O)₆]₂; acidic soln insol in EtOH.

SYNS: COPPERAS □ FEOSOL □ FER-IN-SOL □ FERRO-GRADUMET □ FERROUS SULFATE (FCC) □ FESOFOR □ FESOTYME □ GREEN VITROL □ HAEMOFORT □ IRONATE □ IRON(II) SULFATE (1:1), HEPTAHYDRATE □ IRON VITROL □ IROSUL □ MOL-IRON □ PRESFERSUL □ SULFERROUS

TOXICITY DATA with REFERENCE:

mmo-esc 30 µmol/L CIWYAO 49,144,50
 orl-rat LDLo:1389 mg/kg EQSSDX 1,1,75
 rec-rat LDLo:697 mg/kg EQSSDX 1,1,75
 orl-mus LD50:1520 mg/kg AJMSA9 230,491,55
 ipr-mus LD50:245 mg/kg ARZNAD 17,748,67
 ivn-mus LD50:51 mg/kg AJMSA9 230,491,55

orl-rbt LDLo:2778 mg/kg EQSSDX 1,1,75
 scu-rbt LDLo:279 mg/kg EQSSDX 1,1,75
 ivn-rbt LDLo:99 mg/kg EQSSDX 1,1,75

OSHA PEL: TWA 1 mg(Fe)/m³

ACGIH TLV: TWA 1 mg(Fe)/m³

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

FBP000 CAS: 12604-58-9 HR: 2
FERROVANADIUM DUST

PROP: A gray to black dust. IDLH 500 mg/m³.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 1 mg/m³; STEL 3 mg/m³

ACGIH TLV: TWA 1 mg/m³; STEL 3 mg/m³

DFG MAK: 1 mg/m³

NIOSH REL: (Vanadium) TWA 1.0 mg(V)/m³

SAFETY PROFILE: Can cause pulmonary damage. Combustible when exposed to heat or flame. See also VANADIUM and IRON.

FBP050 CAS: 53858-86-9 HR: 2
FERRUM

TOXICITY DATA with REFERENCE:

ivn-rat LD50:1140 mg/kg KSRNAM 5,226,71
 ims-rat LD50:1820 mg/kg KSRNAM 5,226,71
 ivn-mus LD50:540 mg/kg KSRNAM 5,226,71
 ims-mus LD50:4060 mg/kg KSRNAM 5,226,71

SAFETY PROFILE: Moderately toxic by intravenous and intramuscular routes.

FBP100 CAS: 2624-43-3 HR: 2
FERTODUR

mf: C₂₃H₂₄O₄ mw: 364.47

PROP: Crystals from ethanol. Mp: 135–136°.

SYNS: 4-((4-(ACETYLOXY)PHENYL)CYCLOHEXYLIDENEMETHYL)PHENOL ACETATE □ BIS-(p-ACETOXYPHENYL)-CYCLOHEXYLIDENEMETHANE □ BIS-(p-HYDROXYPHENYL)CYCLOHEXYLIDENEMETHANE DIACETATE □ CYCLOFENIL □ CYCLOFENYL □ CYCLOPENIL □ CYCLOPHENYL □ F 6066 □ H 3452 □ ICI 48213 □ NEOCLYM □ OGINEX □ ONDOGYNE □ ONDONID □ REHIBIN □ SANOCRISIN □ SEXADIENO □ SEXOVAR □ SEXOVID

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1700 mg/kg OYYAA2 4,821,70
 ipr-mus LD50:1080 mg/kg OYYAA2 4,821,70

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

FBP175 HR: D
FERULA JAECHKEANA VATKE, EXTRACT

PROP: Indian plant belonging to the family *Apiaceae* (IJEBA6 22,312,84).

SAFETY PROFILE: Experimental reproductive effects.

FBP200 CAS: 537-98-4 HR: 2**trans-FERULIC ACID**mf: C₁₀H₁₀O₄ mw: 194.20**PROP:** Orthorhombic needles (H₂O). Mp: 174°.**SYNS:** FERULIC ACID □ 4-HYDROXY-3-METHOXYCINNAMIC ACID □ 3-(4-HYDROXY-3-METHOXYPHENYL)PROPENOIC ACID**TOXICITY DATA with REFERENCE:**

cyt-ham:ovr 25 g/L CALEDQ 14,251,81

par-mus LDLo:1200 mg/kg CBCCT* 7,688,55

SAFETY PROFILE: Moderately toxic by parenteral route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**FBP300 CAS: 483-57-8 HR: 3**
FERVENULINmf: C₇H₇N₅O₂ mw: 193.19**PROP:** Yellow, orthorhombic crystals. Mp: 178–179°.

Sol in most common org solvs; sol in cold water to about 2 mg/mL; in hot water to about 40 mg/mL. Practically insol in hydrocarbons.

SYNS: 10204-BII □ COMPOUND 7215 □ 6,8-DIMETHYLPYRIMIDO(5,4-e)-as-TRIAZINE-5,7(6H,8H)-DIONE □ 6,8-DIMETHYLPYRIMIDO(5,4-e)-1,2,4-TRIAZINE-5,7(6H,8H)-DIONE □ FERVENULINE □ PLANOMYCIN □ PULANOMYCIN □ U-7118**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:11,200 µg/kg 85GDA2 5,198,81

ivn-mus LD50:15 g/kg 85GDA2 5,199,81

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x.**FBP350 CAS: 55635-13-7 HR: 2**
FERVINmf: C₁₇H₂₄NO₅•Na mw: 345.41**SYNS:** ADS □ ALLOXYDIM-SODIUM □ 2-(1-ALLYLOXY-AMINOBUTYLIDENE)-5,5-DIMETHYLMETHOXYCARBONYLCYCLOHEXANE-1,3-DIONE SODIUM SALT □ BAS 90210H □ CLOUT □ CYCLOHEXANECARBOXYLIC ACID, 3-(1-(ALLYLOXYAMINO)BUTYLIDENE)-6,6-DIMETHYL-2,4-DIOXO-, METHYL ESTER, SODIUM SALT □ GRASIP □ GRASIPAN □ GRASPAZ □ KUSAGARD □ NIPPON SODA □ NP-48 □ NP-48 NA**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2260 mg/kg PEMNDP 9,21,91

ihl-rat LC50:>4300 mg/m³/4H FMCHA2 -,C16,91

skn-rat LD50:>5 g/kg PEMNDP 9,21,91

ipr-rat LD50:1689 mg/kg JPIFAN (35),24,78

orl-mus LD50:3 g/kg 85JFAN A010,84

skn-mus LD50:>1380 mg/kg JPIFAN (40),32,82

ipr-mus LD50:2 g/kg JPIFAN (35),24,78

orl-dog LD50:1350 mg/kg JPIFAN (35),24,78

orl-rbt LD50:3700 mg/kg JPIFAN (35),24,78

skn-rbt LD50:>2 g/kg FMCHA2 -,C16,91

orl-qal LD50:2950 mg/kg DOVEAA 32,229,78

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x and NaO.**FBP400 CAS: 25161-91-5 HR: 3**
FESTUCINEmf: C₈H₁₄N₂O mw: 154.24**SYNS:** LOLINE □ 2,4-METHANO-4H-FURO(3,2-B)PYRROL-3-AMINE, HEXAHYDRO-N-METHYL-, (2R-(2-α,3-α,3A-β,4-α,6A-β))- □ 2,4-METHANO-4H-FURO(3,2-B)PYRROLE, HEXAHYDRO-3-(METHYLAMINO)-**TOXICITY DATA with REFERENCE:**

ipr-mus LD :>125 mg/kg JOETD7 57,1,1997

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.**FBP520 HR: 3**
FETTERBUSH**PROP:** Evergreen shrubs or small trees with simple, leathery leaves. They produce clusters of white flowers. *P. floribunda* is a bush that grows wild in the Atlantic coastal states of the United States from Virginia to Georgia. *P. japonica* is a small tree native to Japan that is cultivated in temperate areas of the United States, particularly along the Pacific coast.**SYNS:** LILY-OF-THE-VALLEY BUSH □ PIERIS FLORIBUNDA □ PIERIS JAPONICA**SAFETY PROFILE:** The leaves and nectar contain poisonous grayanotoxins (andromedotoxins). Ingestion of the leaves or honey made from the nectar causes an immediate burning pain which may be followed after a delay period of several hours by vomiting, diarrhea, headache, muscle weakness, vision impairment, slowed heartbeat, severe low blood pressure, convulsions, and coma. Fatalities have been reported among children.**FBP850 CAS: 33237-74-0 HR: 3**
FIBORANmf: C₂₂H₃₀N₂•ClH mw: 359.00**SYNS:** APRINDINE HYDROCHLORIDE □ N,N-DIETHYL-N'-2-INDANYL-N'-PHENYL-1,3-PROPANEDIAMINE HYDROCHLORIDE □ N-(2,3-DIHYDRO-1H-INDEN-2-YL)-N',N'-DIETHYL-N-PHENYL-2,3-PROPANEDIAMINE MONOHYDROCHLORIDE □ MS-5075**TOXICITY DATA with REFERENCE:**

unr-wmn TDLo:82 mg/kg/31D-I:BLD AIMDAP 143,241,83

mul-wmn TDLo:468 mg/kg/8W-I:BLD AIMDAP 143,229,83

orl-rat LD50:525 mg/kg OYYAA2 27,353,84

ipr-rat LD50:68,200 µg/kg OYYAA2 27,353,84

scu-rat LD50:198 mg/kg OYYAA2 27,353,84

ivn-rat LD50:16,600 µg/kg OYYAA2 27,353,84

orl-mus LD50:262 mg/kg OYYAA2 27,353,84

ipr-mus LD50:56,600 µg/kg OYYAA2 27,353,84

scu-mus LD50:80,200 µg/kg OYYAA2 27,353,84

ivn-mus LD50:17,100 µg/kg OYYAA2 27,353,84

orl-dog LDLo:30 mg/kg OYYAA2 27,353,84

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Human systemic effects: agranulocytosis. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.**FBQ000 HR: 2**
FIBROUS GLASS

PROP: Is of a borosilicate variety, of low alkalinity, and consists of calcia-alumina-silicate (85INA8 5,270,86).

SYNS: FIBERGLASS □ FIBROUS GLASS DUST (ACGIH) □ GLASS □ GLASS FIBERS

TOXICITY DATA with REFERENCE:

oms-hmn:fbr 10 mg/L MUREAV 116,369,83

oms-ham:ovr 10 mg/L MUREAV 116,369,83

ihl-rat TCLo:5 mg/m³/7H/90W-I:CAR NTIS** PB83-258111

imp-rat TDLo:200 mg/kg:NEO JJIND8 67,965,81

OSHA PEL: TWA 15 mg/m³ (total dust); 5 mg/m³ (nuisance dust)

ACGIH TLV: TWA 10 mg/m³ (dust)

NIOSH REL: TWA 5 mg/m³ (total fibrous glass)

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data by inhalation and other routes. Human mutation data reported. Used as thermal and acoustic insulation.

The possibility of lung problems due to inhalation of fine particles or flakes or fibers of fiberglass has often been raised. The extensive medical research so far reported has shown no consistent evidence of chronic health effects in workers who are exposed to man-made vitreous fibers. In some studies where massive doses of fine-diameter fibers were implanted into mice, cancer development in the pleura was noted. Also some animal studies involving injection of fibers into the tracheae resulted in a minimal fibrosis.

Exposure to glass fibers sometimes causes irritation of the skin and, less frequently, irritation of the eyes, nose, or throat. This is not an allergic reaction, but simply a mechanical irritation. Skin irritation typically is experienced by individuals who are newly exposed to fibrous glass and it usually diminishes after several days of exposure. Good personal and industrial hygiene practices minimize the amount of discomfort experienced.

FBS000 CAS: 9001-33-6 HR: 3
FICIN

PROP: A proteolytic enzyme in the crude latex of the fig tree *Ficus* (JPETAB 71,20,41). White powder. Very sol in water.

SYNS: DEBRICIN □ FICUS PROTEASE □ FICUS PROTEINASE □ HIGUEROXYL DELABARRE □ TL 367

TOXICITY DATA with REFERENCE:

orl-rat LD50:10 g/kg MEIEDD 10,585,83

orl-mus LD50:10 g/kg MEIEDD 10,585,83

ihl-mus LCLo:290 mg/m³/10M NDRC** NDCrc-132,Sept,42

ihl-cat LCLo:290 mg/m³/10M NDRC** NDCrc-132,Sept,42

orl-rbt LD50:5000 mg/kg JPETAB 71,20,41

ihl-rbt LCLo:290 mg/m³/10M NDRC** NDCrc-132,Sept,42

orl-gpg LD50:5000 mg/kg JPETAB 71,20,41

ihl-gpg LCLo:290 mg/m³/10M NDRC** NDCrc-132,Sept,42

ivn-mam LDLo:50 mg/kg JPETAB 71,20,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FBS100 HR: 3
FIGWORT

PROP: Annual or perennial herbs which grow to 3 feet and produce yellow, white, or occasionally red flowers. They grow in swampy areas throughout North America and Hawaii.

SYNS: BASSINET (CANADA) □ BLISTER FLOWER □ BLISTER WORT □ BOUTON d'OR (CANADA) □ BUTTER CRESS □ BUTTERCUP □ BUTTER DAISY □ CRAIN □ CROWFOOD □ DEVIL'S CLAWS □ GOLDBALLS □ GOLDWEED □ HORSE GOLD □ HUNGER WEED □ LESSER CELANDINE □ PILEWORT □ RAM'S CLAWS □ RANUNCULUS ACIS □ RANUNCULUS BULBOSUS □ RANUNCULUS SCLELERATUS □ RENONCULE (CANADA) □ SITFAST □ SPEARWORT □ ST. ANTHONY'S TURNIP □ STARVE-ACRE □ WATER CROWFOOT □ YELLOW GOWAN

SAFETY PROFILE: The roots contain the poison protoanemonin which is a direct irritant and drying agent on the skin and mucous membranes. Ingestion causes pain and blistering of the mouth possibly followed by vomiting, diarrhea, cramps, bloody and painful urination, dizziness, fainting, confusion, and convulsions.

FBS200 CAS: 8007-47-4 HR: 1
FIR BALSAM ABSOLUTE

PROP: Balsam like odor. Insol in water.

SYNS: BALSAM OF FIR □ BALSAMS, CANADA □ CANADIAN BALSAM

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTXAV 13,449,75

skn-rbt LD50:>5 g/kg FCTXAV 13,449,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FBU000 CAS: 59536-65-1 HR: 3
FIREMASTER BP-6

PROP: Consists mainly of penta-, hexa-, and heptabromobiphenyl, with lesser amounts of tetra- and other brominated biphenyls (ENVRL 10,390,75).

SYNS: HEXABROMOBIPHENYL (technical grade) □ PBB □ POLYBROMINATED BIPHENYLS

TOXICITY DATA with REFERENCE:

pic-esc 3100 ng/well MUREAV 260,349,91

dnd-sal:oth 8 µmol/L EVHPAZ 23,51,78

orl-rat TD:1200 mg/kg/18W-I:CAR JJIND8 66,535,81

orl-qal LD50:15 µg/kg BECTA6 33,308,84

CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 18,107,78. Polybrominated biphenyl compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Poison by ingestion. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When

heated to decomposition it emits very toxic Br⁻. See also POLYBROMINATED BIPHENYLS.

**FBU509 CAS: 67774-32-7 HR: 3
FIREMASTER FF-1**

PROP: 2,4,5,2',4',5'-hexabromobiphenyl is the predominant isomer (LANCAO 2,602,77).

SYNS: 2,4,5,2',4',5'-HEXABROMOBIPHENYL □ PBB □

POLYBROMINATED BIPHENYL □ POLYBROMINATED BIPHENYL (FF-1)

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,321,87; Human Inadequate Evidence IMEMDT 41,261,86; Animal Sufficient Evidence IMEMDT 41,261,86. NTP Carcinogenesis Studies (gavage); Clear Evidence: mouse, rat NTPTR* NTP-TR-244,83. Polybrominated biphenyl compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and teratogenic data. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of Br⁻. See also POLYBROMINATED BIPHENYLS.

**FBU850 HR: D
FIR NEEDLE OIL, CANADIAN TYPE**

PROP: Found in the needles and twigs of *Abies balsamea* L. Mill (Fam. *Pinaceae*) (FCTXAV 13,449,75). Colorless to faintly yellow liquid; pleasant odor. Sol in fixed oils, mineral oil; sltly sol in propylene glycol; insol in glycerin.

SYN: BALSAM FIR OIL

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

**FBV000 CAS: 8021-29-2 HR: 1
FIR NEEDLE OIL, SIBERIAN**

PROP: Found in the needles and twigs of *Abies sibirica* Ledeb. (Fam. *Pinaceae*) (FCTXAV 13,449,75). Colorless to faintly yellow liquid. Sol in fixed oils, mineral oil; insol in glycerin, propylene glycol.

SYN: PINE NEEDLE OIL

TOXICITY DATA with REFERENCE:

skn-hmn 12,500 µg/48H FCTXAV 13,450,75

skn-rbt 500 mg/24H MOD FCTXAV 13,450,75

orl-rat LD50:10,200 mg/kg FCTXAV 13,450,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**FBV050 CAS: 84-83-3 HR: 3
FISCHER'S ALDEHYDE**

mf: C₁₃H₁₅NO mw: 201.29

SYNS: (1,3-DIHYDRO-1,3,3-TRIMETHYL-2H-INDOL-2-YLID-ENE)ACETALDEHYDE □ ACETALDEHYDE,(1,3-DIHYDRO-1,3,3-TRIMETHYL-2H-INDOL-2-YLIDENE)- □ Δ²,α-INDOLIN-ACETALDEHYDE, 1,3,3-TRIMETHYL-(6CI) □ Δ²,α-INDOLINE-ACETALDEHYDE, 1,3,3-TRIMETHYL-(7CI,8CI) □ TRIBASEN-ALDEHYDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>215 mg/kg NTIS** OTS0535466

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

**FBV100 HR: 1
FISCHER'S SOLUTION**

PROP: An amino acid solution for hepatic failure (IYKEDH 13,11,82)

SYN: GO-80

TOXICITY DATA with REFERENCE:

ivn-rbt LDLo:200 g/kg IYKEDH 13,11,82

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

**FBW000 CAS: 528-48-3 HR: 3
FISETIN**

mf: C₁₅H₁₀O₆ mw: 286.25

PROP: Coloring matter isolated from *Rhus cotinus* L. *Anacardiaceae*. Yellow needles from dil alc. Decomp @ 330°. Sol in alc, acetone, acetic acid, solns of fixed alkali hydroxides; practically insol in water, ether, benzene, chloroform and pet ether.

SYNS: BOIS BLEUDE HONQRIE □ C.I. 75620 □ C.I. NATURAL BROWN 1 □ COTININ □ 5-DESOXYQUERCETIN □ FIETIN □ FISETHOLZ □ FUSTEL □ FUSTET □ JUNGER FUSTIK □ SUPERFUSTEL □ SUPERFUSTEL K □ 3,3',4',7-TETRAHYDROXY-FLAVONE □ UNGARISCHES GELBHOLZ □ VENTIN SUMACH □ VISET □ YOUNG FUSTIC □ YOUNG FUSTIC CRYSTALS □ ZANTE FUSTIC

TOXICITY DATA with REFERENCE:

mmo-sat 100 µg/plate BCSTB5 5,1489,77

mma-sat 100 µg/plate MUREAV 58,231,78

dni-hmn:fbr 50 mg/L BCPA6 33,3823,84

ivn-mus LD50:180 mg/kg CSLNX* NX#01998

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**FBW100 HR: 2
FISHTAIL PALM**

PROP: A palm with long (up to 20 feet) leaves formed of small fishtail-shaped leaflets. It produces red or black berries clustered on long strings. They are native to Asia and grow wild and under cultivation in Florida, Hawaii, the West Indies and Guam.

SYNS: CARIOTA (CUBA) □ CARYOTA (VARIOUS SPECIES) □ C. MITIS □ C. URENS □ WINE PALM

SAFETY PROFILE: The berries contain toxic calcium oxalate raphides. Chewing the berries results in burning pain in the lips, mouth and throat, possibly followed by inflammation and blistering. Systemic effects are usually not seen because of the insolubility of calcium oxalate. Skin contact may result in pain and itching. See also OXALATES.

**FBW110 CAS: 1506-02-1 HR: D
FIXOLIDE**

mf: C₁₈H₂₆O mw: 258.44

SYNS: 2'-ACETANAPHTHONE, 5',6',7',8'-TETRAHYDRO-3,5',5',6',8',8'-HEXAMETHYL- □ 7-ACETYL-1,1,3,4,4,6-HEXAMETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE □ 7-ACETYL-1,1,3,4,4,6-HEXAMETHYLTETRALIN □ 7-ACETYL-1,2,3,4-TETRAHYDRO-1,1,3,4,4,6-HEXAMETHYLNAPHTHALENE □ ETHANONE, 1-(5,6,7,8-TETRAHYDRO-3,5,5,6,8,8-HEXAMETHYL-2-NAPHTHALENYL)- □ TENTAROME □ 1-(5,6,7,8-TETRAHYDRO-3,5,5,6,8,8-HEXAMETHYL-2-NAPHTHALENYL)-THANONE

TOXICITY DATA with REFERENCE:

uns-ham-ovr 20 mg/L MUREAV 446,67,1999

cyt-ham-ovr 18 mg/L MUREAV 446,67,1999

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

FBW125 CAS: 83453-15-0 HR: 2

FLAMAL 171**TOXICITY DATA with REFERENCE:**

skn-rat LD :>3 g/kg GISAAA 48(8),18,83

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

FBW135 CAS: 63782-90-1 HR: 2

FLAMPROP-m-ISOPROPYL

mf: C₁₉H₁₉ClFNO₃ mw: 363.84

SYNS: d-ALANINE, N-BENZOYL-N-(3-CHLORO-4-FLUOROPHENYL)-, ISOPROPYL ESTER □ BARNON PLUS □ COMMANDO □ EFFIX □ d-FLAMPROP-ISOPROPYL □ (-)-FLAMPROP-ISOPROPYL □ ISOPROPYL N-BENZOYL-N-(3-CHLORO-4-FLUOROPHENYL)-d-ALANINATE □ SUPERBARNON □ WL 43 425

TOXICITY DATA with REFERENCE:

orl-rat LD50:>4 g/kg PEMNDP 9,395,1991

skn-rat LD50:>1600 mg/kg PEMNDP 9,395,1991

orl-mus LD50:>4 g/kg PEMNDP 9,395,1991

orl-brd LD50:>2 g/kg PEMNDP 9,395,1991

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Cl⁻.

FBW150 CAS: 487-26-3 HR: 3

FLAVANONE

mf: C₁₅H₁₂O₂ mw: 224.27

SYNS: 4H-1-BENZOPYRAN-4-ONE, 2,3-DIHYDRO-2-PHENYL-(9CI) □ 2,3-DIHYDRO-2-PHENYL-4H-1-BENZOPYRAN-4-ONE □ 4-FLAVANONE

TOXICITY DATA with REFERENCE:

orl-brd LD50:75 mg/kg AECTCV 12,355,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FBY000 CAS: 114-42-1 HR: 3

FLAVASPIDIC ACID

mf: C₂₄H₃₀O₈ mw: 446.54

PROP: Yellow or colorless crystals. Mp: 92°, mp: 156° (double mp).

SYNS: FLAVASPIDSAEURE (GERMAN) □ FLAVISPIDIC ACID BB □ POLYSTICHOCITRIN □ TOXIFREN

TOXICITY DATA with REFERENCE:

orl-mus LD50:690 mg/kg APTOA6 25,33,67

ivn-mus LD50:94 mg/kg JPMSAE 54,1362,65

SAFETY PROFILE: Poison by intravenous route.

Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

FBZ000 CAS: 29382-82-9 HR: 3

FLAVENSOMYCIN

mf: C₄₇H₆₅O₁₄ mw: 854.12

PROP: Pale-yellow crystals. Mp: 152°, mp: 250–300° (decomp). An antibiotic produced by a strain of *Streptomyces* sp (85ERAY 2,1141,78).

TOXICITY DATA with REFERENCE:

orl-mus LD50:5 mg/kg 85GDA2 6,412,81

ipr-mus LD50:1 mg/kg 85GDA2 6,412,81

scu-mus LD50:2 mg/kg 85FZAT -,1291,67

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

FBZ100 CAS: 483-84-1 HR: D

FLAVIANIC ACID

mf: C₁₀H₆N₂O₈S mw: 314.24

SYNS: 2,4-DINITRONAPHTHOLSULFONIC ACID □ D,4-DINITRO-1-NAPHTHOL-7-SULFONIC ACID □ DNNS □ 8-HYDROXY-5,7-DINITRO-2-NAPHTHALENESULFONIC ACID □ 2-NAPHTHALENESULFONIC ACID, 5,7-DINITRO-8-HYDROXY- □ 2-NAPHTHALENESULFONIC ACID, 8-HYDROXY-5,7-DINITRO-(8CI)

TOXICITY DATA with REFERENCE:

mmo-sat 10 μmol/plate MUREAV 58,11,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FCA000 CAS: 11006-22-7 HR: 3

FLAVOFUNGIN (1:10)

PROP: Crystals. Mp: 210° (decomp).

TOXICITY DATA with REFERENCE:

orl-mus LD50:1200 mg/kg 85ERAY 2,996,78

ipr-mus LD50:25 mg/kg 85ERAY 2,996,78

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

FCA100 CAS: 81-11-8 HR: 1

FLAVONIC ACID

mf: C₁₄H₁₄N₂O₆S₂ mw: 370.42

PROP: White to yellowish crystalline powder. Mp: 300°.

SYNS: AMSONIC ACID □ BENZENESULFONIC ACID, 2,2'-(1,2-ETHYLENEDIYL)BIS(5-AMINO)-(9CI) □ DASD □ 4,4'-DIAMINO-2,2'-STILBENEDISULFONIC ACID □ 2,2'-(1,2-ETHYLENEDIYL)-BIS(5-AMINO)BENZENESULFONIC ACID □ NCI-C60162 □ 2,2'-STILBENEDISULFONIC ACID, 4,4'-DIAMINO- □ TINOPAL BHS

TOXICITY DATA with REFERENCE:

orl-gpg LD50:47 g/kg GISAAA 45(3),73,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**FCA200 CAS: 7336-20-1 HR: 2
FLAVONIC ACID DISODIUM SALT**

mf: C₁₄H₁₂N₂O₆S₂•2Na mw: 414.38

SYNS: AMSONIC ACID DISODIUM SALT □ BENZENE-SULFONIC ACID, 2,2'-(1,2-ETHANEDIYL)BIS(5-AMINO)-, DISODIUM SALT □ p,p'-DIAMINOSTILBENE-o,o'-DISULFONIC ACID DISODIUM SALT □ DIAMINOSTILBENE DISULPHONATE DISODIUM SALT □ 2,2'-DISULFO-4,4'-STILBENEDIAMINE DISODIUM SALT □ 2,3'-(1,2-ETHENEDIYL)BIS(5-AMINO-BENZENESULFONIC ACID) DISODIUM SALT □ 2,2'-STILBENE-DISULFONIC ACID, 4,4'-DIAMINO-, DISODIUM SALT

TOXICITY DATA with REFERENCE:

orl-rat TDLo:42 g/kg/14D-C NTPTR* NTP-TR-412,92
orl-mus TDLo:168 g/kg/14D-C NTPTR* NTP-TR-412,92

CONSENSUS REPORTS: Reported in NTP Carcinogenesis Studies (feed); No Evidence: rat, mouse NTPTR* NTP-TR-412,92. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with negative NTP carcinogenesis bioassay. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

**FCB000 HR: 3
FLAVONOID AGLUCONE**

PROP: Extracted from figwort (RPTOAN 32,315,69).

TOXICITY DATA with REFERENCE:

orl-mus LD50:555 mg/kg RPTOAN 32(6),315,69
ipr-mus LD50:323 mg/kg RPTOAN 32(6),315,69

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

**FCB100 CAS: 3717-88-2 HR: 3
FLAVOXATE HYDROCHLORIDE**

mf: C₂₄H₂₅NO₄•ClH mw: 427.96

SYNS: BLADDERON □ DW-61 □ FLAROXATE HYDROCHLORIDE □ 3-METHYL-4-OXO-2-PHENYL-4H-1-BENZOPYRAN-8-CARBOXYLATE 1-PIPERIDINEETHANOL HYDROCHLORIDE □ NSC-114649 □ PIPERIDINOETHYL-3-METHYLFLAVONE-8-CARBOXYLATE HYDROCHLORIDE □ 2-PIPERIDINOETHYL-3-METHYL-4-OXO-2-PHENYL-4H-1-BENZOPYRAN-8-CARBOXYLATE HYDROCHLORIDE □ REC 7-0040 □ SPASURET □ URISPAS

TOXICITY DATA with REFERENCE:

mno-sat 79 µg/plate YACHDS 19,773,91
orl-rat LD50:1040 mg/kg YACHDS 15,5271,87
ipr-rat LD50:170 mg/kg YACHDS 15,5271,87
scu-rat LD50:1010 mg/kg IYKEDH 10,232,79
ivn-rat LD50:25 mg/kg IYKEDH 10,232,79
orl-mus LD50:740 mg/kg JPETAB 130,356,60
ipr-mus LD50:350 mg/kg AIPTAK 131,187,61
scu-mus LD50:610 mg/kg IYKEDH 10,232,79
ivn-mus LD50:28 mg/kg IYKEDH 10,232,79
ivn-rbt LD50:25 mg/kg YACHDS 3,1214,75

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

subcutaneous routes. Experimental teratogenic and reproductive effects. Mutation data reported. A smooth muscle relaxant. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

**FCC000 CAS: 57608-59-0 HR: 3
FLAVUMYCIN B**

PROP: A solid. Mp: 232–234°. Produced by *A. flavus* var. *geptinicus* 4 LIA-073 (JANTAJ 29,76–91,76).

TOXICITY DATA with REFERENCE:

ipr-mus LD50:6500 µg/kg JANTAJ 29,76-91,76
ivn-mus LD50:2630 µg/kg JANTAJ 29,76-91,76

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

**FCC050 CAS: 104040-78-0 HR: 2
FLAZASULFURON**

mf: C₁₃H₁₂F₃N₅O₅S mw: 407.36

PROP: Herbicide.

SYNS: N-(((4,6-DIMETHOXY-2-PYRIMIDINYL)AMINO)-CARBONYL)-3-(TRIFLUOROMETHYL)-2-PYRIDINESULFONAMIDE □ 1-(4,6-DIMETHOXYPYRIMIDIN-2-YL)-3-(3-TRIFLUOROMETHYL-2-PYRIDYLSULFONYL)UREA □ OK-1166 □ 2-PYRIDINESULFONAMIDE, N-(((4,6-DIMETHOXY-2-PYRIMIDINYL)AMINO)CARBONYL)-3-(TRIFLUOROMETHYL)- □ SHIBAGEN □ SL-160

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg JPIFAN (57),27,90
skn-rat LD50:>2 g/kg JPIFAN (57),27,90
orl-mus LD50:>5 g/kg JPIFAN (57),27,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by skin contact route. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of SO_x, NO_x, and F⁻.

**FCC065 CAS: 54143-55-4 HR: D
FLECAINIDE**

mf: C₁₇H₂₀F₆N₂O₃ mw: 414.39

SYNS: BENZAMIDE, N-(2-PIPERIDINYLMETHYL)-2,5-BIS(2,2,2-TRIFLUOROETHOXY)- □ (+)-FLECAINIDE □ N-(2-PIPERIDINYLMETHYL)-2,5-BIS(2,2,2-TRIFLUOROETHOXY)-BENZAMIDE

TOXICITY DATA with REFERENCE:

orl-wmn TDLo:40 mg/kg:CVS BJCPAT 49,218,1995

SAFETY PROFILE: Human systemic effects. When heated to decomposition it emits toxic vapors of NO_x and F⁻.

**FCC100 CAS: 8013-07-8 HR: 1
FLEXOL EPO**

PROP: Epoxidized soybean oil used as plasticizer.

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 4/17/70
orl-rat LD50:23 g/kg UCDS** 4/17/70
skn-rbt LD50:>20 g/kg UCDS** 4/17/20

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.

FCD500 CAS: 18268-70-7 HR: 1**FLEXOL 4GO**mf: C₂₄H₄₆O₇ mw: 446.70**SYNS:** POLYETHYLENE GLYCOL 200 DI(2-ETHYLHEXOATE)

□ TETRAETHYLENE GLYCOL DI(2-ETHYLHEXOATE)

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:18,000 mg/kg NPRI* 2,85,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**FCN515 CAS: 8036-63-3 HR: 1****FLEXOL PLASTICIZER 810****TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 7/23/71

skn-rbt LD50:20 mg/kg UCDS** 7/23/71

SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**FCD520 CAS: 101564-02-7 HR: 1****FLEXOL PLASTICIZER CC-55****PROP:** Liquid. Mp: -53°, bp: 216° @ 5 mm, flash p: 425°F (OC), d: 0.9586 @ 20°/20°, vap d: 13.7.**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg open MLD UCDS** 1/12/72

SAFETY PROFILE: A skin irritant. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.**FCD522 CAS: 101564-04-9 HR: 3****FLEXOL PLASTICIZER 3GV****SYN:** FLEXOL 3GV**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg MLD open UCDS** 2/30/73

orl-rat LD50:14,300 µL/kg UCDS** 2/20/73

skn-rbt LD50:>16 mL/kg UCDS** 2/20/73

SAFETY PROFILE: A poison by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**FCD525 CAS: 94-28-0 HR: 1****FLEXOL PLASTICIZER 3GO**mf: C₂₂H₄₂O₆ mw: 402.64**SYNS:** BIS(ETHYLHEXANOATE)TRIETHYLENE GLYCOL □ TRIETHYLENE GLYCOL DI(2-ETHYLHEXOATE)**TOXICITY DATA with REFERENCE:**

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

orl-rat LD50:31 g/kg JIHTAB 23,259,41

orl-gpg LD50:21 g/kg JIHTAB 23,259,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A mild skin irritant. When heated to decomposition it emits acrid smoke and fumes. See also TRIETHYLENE GLYCOL and ESTERS.**FCN530 CAS: 101564-05-0 HR: 3****FLEXOL PLASTICIZER JPO****SYN:** FLEXOL JPO**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg MLD open UCDS** 6/11/65

orl-rat LD50:23,800 µL/kg UCDS** 6/11/65

skn-rbt LD50:>20 mL/kg UCDS** 6/11/65

SAFETY PROFILE: A poison by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**FCN531 CAS: 61461-77-6 HR: 3****FLEXOL PLASTICIZER 8N8****SYN:** FLEXOL 8N8**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg MLD open UCDS** 1/12/72

orl-rat LD :>29,800 µL/kg UCDS** 1/12/72

skn-rbt LD :>20 mL/kg UCDS** 1/12/72

SAFETY PROFILE: A poison by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**FCN533 CAS: 101564-06-1 HR: 3****FLEXOL PLASTICIZER NODP****SYN:** FLEXOL NODP**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg MLD open UCDS** 11/29/71

orl-rat LD50:45,200 µL/kg UCDS** 11/29/71

skn-rbt LD50:>20 mL/kg UCDS** 11/29/71

SAFETY PROFILE: A poison by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**FCD570 CAS: 26401-41-2 HR: 3****FLEXOL PLASTICIZER PEP**mf: C₂₈H₅₀O₅ mw: 466.78**SYNS:** DIISODECYL TETRAHYDRO-4,5-EPOXYPHthalate □ FLEXOL PEP □ 7-OXABICYCLO(4.1.0)HEPTANE-3,4-DICARB-OXYLIC ACID, DIISODECYL ESTER**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg MLD open UCDS** 1/12/72

orl-rat LD50:>63 mL/kg EVHPAZ 3,61,73

skn-rbt LD :>20 mL/kg UCDS** 1/12/72

SAFETY PROFILE: A poison by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.**FCN100 CAS: 92823-03-5 HR: 2****FLOMOXEF SODIUM**mf: C₁₅H₁₇F₂N₆O₇S₂•Na mw: 518.49**SYNS:** FLOMOXEF □ 5-OXA-1-AZABICYCLO(4.2.0)OCT-2-ENE-2-CARBOXYLIC ACID, 7-(2-((DIFLUOROMETHYL)THIO)-ACETAMIDO)-3-(((1-(2-HYDROXYETHYL)-1H-TETRAZOL-5-YL)THIO)METHYL)-7-METHOXY-8-OXO-, SODIUM SALT, (6R,7R)- □ 6315-S**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:7360 mg/kg NKRZAZ 35(Suppl 1),207,87

scu-mus LD50:13,500 mg/kg IYKEDH 19,735,88

ivn-mus LD50:7086 mg/kg IYKEDH 19,735,88

SAFETY PROFILE: Moderately toxic by intravenous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x, SO_x, F₂, and Cl₂.

FDA000 CAS: 68916-09-6 HR: 1**FLOUVE OIL****PROP:** Found in the upper part of the dried grass *Flouve odorante* (FCTXAV 16,637,78).**TOXICITY DATA with REFERENCE:**

skn-rbt 500 mg/24H MOD FCTXAV 16,757,78

orl-rat LD50:4100 mg/kg FCTXAV 16,757,78

orl-rbt LD50:5000 mg/kg FCTXAV 16,757,78

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.**FDA100 CAS: 1847-24-1 HR: 2****FLOXAPEN SODIUM**mf: $C_{19}H_{16}ClFN_3O_5S \cdot Na$ mw: 475.88**PROP:** White or almost white crystalline powder. Sol in water.**SYNS:** FLOXACILLIN SODIUM □ FLUCLOXACILLIN SODIUM □ FLUCLOXACILLIN SODIUM SALT □ 5-METHYL-3-(2-CHLORO-6-FLUOROPHENYL)-4-ISOXAZOLYL-PENICILLIN SODIUM □ MFI-PC □ MONOSODIUM FLUCLOXACILLIN □ SODIUM FLUCLOXACILLIN**TOXICITY DATA with REFERENCE:**

orl-wmn TDLo:120 mg/kg/3D-I:SYS AJGAAR 82,483,87

orl-rat LD50:11 g/kg NIIRDN 6,697,82

ipr-rat LD50:1100 mg/kg NIIRDN 6,697,82

scu-rat LD50:2800 mg/kg NIIRDN 6,697,82

ivn-rat LD50:680 mg/kg NIIRDN 6,697,82

orl-mus LD50:7600 mg/kg NIIRDN 6,697,82

ipr-mus LD50:1350 mg/kg NIIRDN 6,697,82

scu-mus LD50:1450 mg/kg NKRZAZ 17,1523,69

ivn-mus LD50:1360 mg/kg NIIRDN 6,697,82

ivn-dog LD50:760 mg/kg NKRZAZ 17,1523,69

SAFETY PROFILE: Moderately toxic by intravenous, intraperitoneal, and subcutaneous routes. Mildly toxic by ingestion. Human systemic effects: cholestatic jaundice.An experimental teratogen. When heated to decomposition it emits toxic fumes of F^- , Cl^- , SO_x , NO_x , and Na_2O .**FDA875 CAS: 5107-49-3 HR: 3****FLUALAMIDE**mf: $C_{17}H_{23}F_3N_2O_2$ mw: 344.42**PROP:** IDLH 5 mg/m³.**SYNS:** 2-(ALLYLOXY)-N-(2-(DIETHYLAMINO)ETHYL)- α,α,α -TRIFLUORO-p-TOLUAMIDE □ 305CE □ 4-TRIFLUOROMETHYL ALLYLOXY-2-N-(β -DIETHYLAMINO-ETHYL)BENZAMIDE (FRENCH)**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1375 mg/kg MPHEAE 15,241,66

scu-mus LD50:249 mg/kg JJPAAZ 20,1,70

ivn-mus LD50:86 mg/kg MPHEAE 15,241,66

ivn-dog LDLo:40 mg/kg JJPAAZ 20,1,70

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of F^- and NO_x .**FDA880 CAS: 17160-71-3 HR: 3****FLUANISONE HYDROCHLORIDE**mf: $C_{21}H_{25}FN_2O_2 \cdot ClH$ mw: 392.94**SYNS:** ANTI-PICA □ 4-FLUORO-4-(4-(α -METHOXYPHENYL)-1-PIPERAZINYL)BUTYROPHENONE HYDROCHLORIDE □ HALOANISONE COMPOSITUM**TOXICITY DATA with REFERENCE:**

scu-rat LD50:420 mg/kg 27ZQAG -,189,72

ivn-rat LD50:20 mg/kg 27ZQAG -,189,72

ipr-mus LD50:200 mg/kg 27ZQAG -,189,72

scu-mus LD50:150 mg/kg 27ZQAG -,189,72

ivn-mus LD50:25 mg/kg 27ZQAG -,189,72

SAFETY PROFILE: Poison by subcutaneous, intraperitoneal, and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl , NO_x , and F^- .**FDA885 CAS: 69806-50-4 HR: 2****FLUAZIFOP-BUTYL**mf: $C_{19}H_{20}F_3NO_4$ mw: 383.38**PROP:** Pale straw-colored, odorless liquid. Bp: 165°, mp: 13°, d: 1.21 @ 20°.**SYNS:** BUTYL 2-(4-(5-TRIFLUOROMETHYL-2-PYRIDINYLOXY)PHENOXY)PROPANOATE □ FUSILADE □ HACHE UNO SUPER □ IH 773B □ ONECIDE EC □ ONECIDE □ PP 009 □ PROPIONIC ACID, 2-(p-((5-(TRIFLUOROMETHYL)-2-PYRIDYL)-OXY)PHENOXY)-, BUTYL ESTER □ SL-236 □ TF 1169 □ TS-7236**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2910 mg/kg NNGADV 15,305,90

ipr-rat LD50:1620 mg/kg NNGADV 15,305,90

orl-mus LD50:1490 mg/kg PEMNDP 9,400,91

ipr-mus LD50:1240 mg/kg NNGADV 15,305,90

orl-rbt LD50:621 mg/kg 85JFAN A535,84

orl-gpg LD50:2659 mg/kg 85JFAN A535,84

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of F^- and NO_x .**FDA887 CAS: 31430-15-6 HR: 2****FLUBENDAZOLE**mf: $C_{16}H_{12}FN_3O_3$ mw: 313.31**PROP:** A solid. Mp: 260°.**SYNS:** 2-BENZIMIDAZOLECARBAMIC ACID, 5-(p-FLUORO-BENZOYL)-, METHYL ESTER □ CARBAMIC ACID, (5-(4-FLUOROBENZOYL)-1H-BENZIMIDAZOL-2-YL)-, METHYL ESTER (9CI) □ (5-(4-FLUOROBENZOYL)-1H-BENZIMIDAZOLE-2-YL)CARBAMIC ACID METHYL ESTER □ METHYL N-(5-(p-FLUOROBENZOYL)-2-BENZIMIDAZOLYL)CARBAMATE □ R 17899**TOXICITY DATA with REFERENCE:**

mmo-sat 500 nmol/L PCBRD2 340E,225,90

sce-mus-ipr 100 mg/kg PCBRD2 340E,225,90

orl-rat LD50:2560 mg/kg YRTMA6 9,11,78

orl-rbt LD50:2560 mg/kg YRTMA6 9,11,78

SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and F^- .**FDA890 CAS: 37893-02-0 HR: 3****FLUBENZIMINE**mf: $C_{17}H_{10}F_6N_4S$ mw: 416.37**SYNS:** BAY SLJ 0312 □ BENZENAMINE, N-(3-PHENYL-4,5-BIS((TRIFLUOROMETHYL)IMINO)-2-THIAZOLIDINYLIDENE)-

□ CROPOTEX □ N-(3-PHENYL-4,5-BIS((TRIFLUOROMETHYL)-IMINO)-2-THIAZOLIDINYLIDENE)BENZENAMINE □ SLJ 0312

TOXICITY DATA with REFERENCE:

orl-rat LD50:2150 mg/kg ARTODN 54,275,83

ihl-rat LC50:>714 mg/m³/4H 85JFAN A790,85

skn-rat LD50:>5 g/kg 85JFAN A790,85

orl-rbt LD50:360 mg/kg 85JFAN A790,85

SAFETY PROFILE: A poison by ingestion and inhalation. Low toxicity by skin contact. When heated to decomposition it emits toxic vapors of SO_x, NO_x, and F⁻.

FDA895 CAS: 181274-17-9 HR: 2
FLUCARBAZONE-SODIUM

mf: C₁₂H₁₀F₃N₄O₆S•Na mw: 418.29

SYN: 1H-1,2,4-TRIAZOLE-1-CARBOXAMIDE, 4,5-DIHYDRO-3-METHOXY-4-METHYL-5-OXO-N-((2-(TRIFLUOROMETHOXY)-PHENYL)SULFONYL)-, SODIUM SALT

TOXICITY DATA with REFERENCE:

unr-rat TDLo:2000 mg/kg FEREAC 65,58368,2000

SAFETY PROFILE: Moderately toxic by an unreported route. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and F⁻.

FDA900 CAS: 33245-39-5 HR: 2
FLUCHLORALIN

mf: C₁₂H₁₃ClF₃N₃O₄ mw: 355.73

PROP: Orange-yellow, crystalline solid. Mp: 42–43°. Solubility in water: 10 ppm.

SYNS: BAS 392-H □ BASALIN □ N-(2-CHLOROETHYL)-2,6-DINITRO-N-PROPYL-4-(TRIFLUOROMETHYL)ANILINE □ N-(2-CHLOROETHYL)-2,6-DINITRO-N-PROPYL-4-(TRIFLUOROMETHYL)BENZENAMIDE □ N-(2-CHLOROETHYL)-α,α,α-TRIFLUORO-2,6-DINITRO-N-PROPYL-p-TOLUIDINE □ N-PROPYL-N-(2-CHLOROETHYL)-2,6-DINITRO-4-TRIFLUOROMETHYLANILINE □ N-PROPYL-N-(2-CHLOROETHYL)-α,α,α-TRIFLUORO-2,6-DINITRO-p-TOLUIDINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:2940 mg/kg FMCHA2 -,C37,91

ihl-rat LC50:8400 mg/m³/4H PEMNDP 9,403,91

orl-mus LD50:730 mg/kg PEMNDP 9,403,91

SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by inhalation. When heated to decomposition it emits toxic fumes of F⁻, Cl⁻, and NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

FDA925 CAS: 152-97-6 HR: D
FLUCORTOLONE

mf: C₂₂H₂₉FO₄ mw: 376.51

PROP: Crystals. Mp: 188–190.5°. Solubility (mg/L): 295 in water (37°), 120 in ethanol (20°), 440 in toluene (20°).

SYNS: FLUCORTOLON □ FLUCORTOLONE □ FLUORCORTOLONE □ 6-α-FLUORO-11-β,21-DIHYDROXY-16-α-METHYLPREGNA-1,4-DIENE-3,20-DIONE □ 6-α-FLUORO-16-α-METHYL-1-DEHYDROCORTICOSTERONE □ 6-α-FLUORO-16-α-METHYLPREGNA-1,4-DIENE-11-β,21-DIOL-3,20-DIONE □ 6-α-FLUORO-16-α-METHYL-Δ^{1,4}-PREGNADIENE-11-β-DIOL-3,20-DIONE □ SH 742 □ ULTRALAN ORAL

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. A steroid. When heated to decomposition it emits toxic fumes of F⁻.

FDB000 CAS: 2825-60-7 HR: 2
FLUDERMA

mf: C₂₉H₃₈ClFO₈ mw: 569.12

PROP: Crystals from Et₂O/pet ether. Mp: 180–182°.

SYNS: CORTOCIN-F □ CUTISTEROL □ DEFLAMENE □ FI 6341 □ FLUOROFORMYLON □ FORMOCORTAL

TOXICITY DATA with REFERENCE:

ipr-mus LD50:537 mg/kg MEIEDD 10,605,83

scu-mus LD50:490 mg/kg MEIEDD 10,605,83

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. Used as a glucocorticoid (a corticosteroid which affects carbohydrate, protein and fat metabolism with many other side effects). When heated to decomposition it emits very toxic fumes of F⁻ and Cl⁻.

FDB100 CAS: 3900-31-0 HR: 3
FLUDIAZEPAM

mf: C₁₆H₁₂ClFN₂O mw: 302.75

PROP: Colorless prisms from n-hexane/isopropanol. Mp: 88–92°.

SYNS: 7-CHLORO-5-(o-FLUOROPHENYL)-1,3-DIHYDRO-1-METHYL-2H-1,4-BENZODIAZEPIN-2-ONE □ 7-CHLORO-5-(2-FLUOROPHENYL)-1-METHYL-1H-1,4-BENZODIAZEPIN-2(3H)-ONE □ ERISPAN □ ID 540 □ RO 5-3438

TOXICITY DATA with REFERENCE:

orl-rat LD50:1740 mg/kg YAKUD5 22,811,80

ipr-rat LD50:315 mg/kg IYKEDH 11,811,80

scu-rat LD50:7600 mg/kg IYKEDH 11,811,80

orl-mus LD50:830 mg/kg IYKEDH 11,811,80

ipr-mus LD50:360 mg/kg NIIRDN 6,698,82

scu-mus LD50:1150 mg/kg NIIRDN 6,698,82

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. Experimental reproductive effects. Used as a tranquilizer. Note: This is a controlled substance (depressant) listed in the U.S. Code of Federal Regulations, Title 21 Part 1308.14 (1985). When heated to decomposition it emits toxic fumes of F⁻, Cl⁻, and NO_x. See also DIAZEPAM.

FDB200 CAS: 4301-50-2 HR: 3
FLUENETIL

mf: C₁₆H₁₅FO₂ mw: 258.31

PROP: A Solid.

SYNS: 4-BIPHENYLACETIC ACID, 2-FLUOROETHYL ESTER □ (1,1'-BIPHENYL)-4-ACETIC ACID, 2-FLUOROETHYL ESTER □ FLUENYL □ LAMBROL

TOXICITY DATA with REFERENCE:

ipr-mus LD50:42 mg/kg EVHPAZ 14,93,76

orl-rat LD50:6 mg/kg FMCHA2 -,C138,83

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of F⁻. See also ESTERS.

FDB300 CAS: 62441-54-7 HR: 3
FLUFENAMINE

mf: C₁₄H₆ClF₆N₃O₄ mw: 429.68

SYNS: ANILINE, 2-CHLORO-N-(2,4-DINITRO-6-(TRIFLUOROMETHYL)PHENYL)-5-(TRIFLUOROMETHYL)- □ ANILINE, 2-CHLORO-N-(4,6-DINITRO-α-α-TRIFLUORO-O-

TOYL)-5-(TRIFLUOROMETHYL)- \square BENZENAMINE, N-(2-CHLORO-5-(TRIFLUOROMETHYL)PHENYL)-2,4-DINITRO-6-(TRIFLUOROMETHYL)-(9CI) \square N-(2-CHLORO-5-(TRIFLUOROMETHYL)PHENYL)-2,4-DINITRO-6-(TRIFLUOROMETHYL)-BENZENAMINE \square DIPHENYLAMINE, 2,5'-BIS(TRIFLUOROMETHYL)-2'-CHLORO-4,6-DINITRO- \square FAMAFLUR \square FENTRI-FANIL \square HEXAFLUORAMIN \square PP-199

TOXICITY DATA with REFERENCE:

orl-rat LD50:94 mg/kg 85AREA 1,76,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FDB400 CAS: 101463-69-8 HR: 3 FLUFENOXURON

mf: C₂₁H₁₁ClF₆N₂O₃ mw: 488.79

PROP: Clear liquid, slight solvent odor. Flammable.

SYNS: BENZAMIDE, N-(((4-(2-CHLORO-4-(TRIFLUOROMETHYL)PHENOXY)-2-FLUOROPHENYL)AMINO)CARBONYL)-2,6-DIFLUORO- \square CASCADE \square N-(((4-(2-CHLORO-4-(TRIFLUOROMETHYL)PHENOXY)-2-FLUOROPHENYL)CARBAMOYL)-2, 6-DIFLUOROBENZAMIDE \square WL 115110

TOXICITY DATA with REFERENCE:

orl-rat LD50:>3 g/kg FMCHA2 -,C63,91

skn-rat LD50:>2 g/kg FMCHA2 -,C63,91

SAFETY PROFILE: Low toxicity by ingestion and skin contact. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Cl⁻.

FDB500 CAS: 52756-25-9 HR: 3 FLUFENPROP-METHYL

mf: C₁₇H₁₅ClFNO₃ mw: 335.78

SYNS: FLAMPROP-METHYL \square LANCER \square MATAVEN \square METHYL N-BENZOYL-N-(3-CHLORO-4-FLUOROPHENYL)-2-AMINOPROPIONATE \square PROPIONIC ACID, 2-(N-(3-CHLORO-4-FLUOROPHENYL)BENZAMIDO)-, METHYL ESTER \square SUFFIX PLUS \square WL 29761

TOXICITY DATA with REFERENCE:

orl-rat LD50:1200 mg/kg FMCHA2 -,C190,91

skn-rat LD50:>294 mg/kg PEMNDP 9,393,91

ipr-rat LD50:350 mg/kg 85JFAN A210,83

orl-mus LD50:720 mg/kg PEMNDP 9,393,91

orl-brd-dom LD50:>1 g/kg PEMNDP 9,393,91

SAFETY PROFILE: A poison by skin contact and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Cl⁻.

FDD075 CAS: 2135-17-3 HR: D FLUMETHASONE

mf: C₂₂H₂₈F₂O₅ mw: 410.50

SYNS: ANAPRIME \square ANIPRIME \square CORTEXILAR \square FLUCORT \square FLUCORTICIN \square 6- α -FLUORODEXAMETHASONE \square FLUVET \square METHAGON \square RS-2177 \square U-10974

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

FDD078 CAS: 62924-70-3 HR: 2 FLUMETRALINE

mf: C₁₆H₁₂ClF₄N₃O₄ mw: 421.76

PROP: Aromatic solvent odor. Flash pt: 104° F. Bp: 145°. Sol in water.

SYNS: BENZENEMETHANAMINE, 2-CHLORO-N-(2,6-DINITRO-4-(TRIFLUOROMETHYL)PHENYL)-N-ETHYL-6-FLUORO- \square CGA-41065 \square 2-CHLORO-N-(2,6-DINITRO-4-(TRIFLUOROMETHYL)PHENYL)-N-ETHYL-6-FLUOROBENZENEMETHANAMINE \square FLUMETRALIN \square PRIME+

TOXICITY DATA with REFERENCE:

orl-rat LD50:3100 mg/kg FMCHA2 -,C248,91

skn-rat LD50:>2 g/kg PEMNDP 9,409,91

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A combustible liquid. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Cl⁻.

FDD080 CAS: 30484-77-6 HR: 3 FLUNARIZINE DIHYDROCHLORIDE

mf: C₂₆H₂₆F₂N₂•2ClH mw: 477.46

PROP: Crystals from EtOH/2-propanol. Mp: 251.5°.

SYNS: (3)-1-(BIS(p-FLUOROPHENYL)METHYL)-4-CINNAMYLPYPERAZINE DIHYDROCHLORIDE \square (E)-1-(BIS(4-FLUOROPHENYL)METHYL)-4-(3-PHENYL-2-PROPENYL)PIPERAZINE DIHYDROCHLORIDE \square FLUNARIZINE HYDROCHLORIDE \square KW-3149 \square R 14950

TOXICITY DATA with REFERENCE:

orl-rat LD50:503 mg/kg ARZNAD 25,1408,75

ipr-rat LD50:305 mg/kg YKYUA6 36,825,85

scu-rat LD50:1793 mg/kg YKYUA6 36,825,85

ivn-rat LD50:35 mg/kg YKYUA6 36,825,85

orl-mus LD50:1203 mg/kg YKYUA6 36,825,85

ipr-mus LD50:379 mg/kg YKYUA6 36,825,85

ivn-mus LD50:27 mg/kg YKYUA6 36,825,85

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl⁻, NO_x, and F⁻.

FDD085 CAS: 3385-03-3 HR: 1 FLUNISOLIDE

mf: C₂₄H₃₁FO₆ mw: 434.55

SYNS: 6- α -FLUORO-11- β ,16- α ,17,21-TETRAHYDROXYPREGNA-1,4-DIENE,-3,20-DIONE, CYCLIC 16,17-ACETAL with ACETONE \square LUNIS \square NASALIDE \square RHINALAR \square SYNTARIS

TOXICITY DATA with REFERENCE:

ihl-cld TClO:21 mg/kg/30W-I:NOSE JOPDAB 105,840,84

SAFETY PROFILE: Human systemic effects by inhalation: deviated nasal septum, ulcerated nasal septum. An experimental teratogen. Experimental reproductive effects. A steroid. When heated to decomposition it emits toxic fumes of F⁻.

FDD100 CAS: 1622-62-4 HR: 2 FLUNITRAZEPAM

mf: C₁₆H₁₂FN₃O₃ mw: 313.31

PROP: Pale yellow needles from methylene chloridehexane. Mp: 166–167°.

SYNS: 1,3-DIHYDRO-5-(6-FLUOROPHENYL)-1-METHYL-7-NITRO-2H-1,4-BENZODIAZEPIN-2-ONE \square 1-METHYL-7-NITRO-5-(2-FLUOROPHENYL)-3H-1,4-BENZODIAZEPIN-2(1H)-ONE \square NARCOZEP \square PRIMUN \square RO 5-4200 \square ROHYPNOL \square ROIPNOL

TOXICITY DATA with REFERENCE:

mmo-sat 3 mg/plate BSIBAC 60,2247,84
 mma-sat 2 mg/plate BSIBAC 60,2247,84
 orl-wmn TDLo:127 µg/kg:BAH AIMDAP 145,663,85
 orl-rat LD50:415 mg/kg KSRNAM 19,1277,85
 ipr-rat LD50:1060 mg/kg KSRNAM 19,1277,85
 orl-mus LD50:1200 mg/kg KSRNAM 19,1277,85
 ipr-mus LD50:1050 mg/kg KSRNAM 19,1277,85

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An experimental teratogen. Human reproductive effects by ingestion and intramuscular routes: Apgar score of newborn and other neonatal and postnatal effects. Experimental reproductive effects. Mutation data reported. Human systemic effects by ingestion: coma. Used as a hypnotic agent. Note: This is a controlled substance (depressant) listed in the U.S. Code of Federal Regulations, Title 21 Part 1308.14 (1985). When heated to decomposition it emits toxic fumes of F⁻ and NO_x. See also DIAZEPAM.

FDD125 CAS: 16872-11-0 HR: 2
FLUOBORIC ACID

DOT: UN 1775

mf: BF₄•H mw: 87.82

PROP: Colorless liquid. Bp: 130°.

SYNS: BORATE(1-), TETRAFLUORO-, HYDROGEN □
 BOROFLUORIC ACID □ FLUOBORIC ACID (DOT) □
 HYDROFLUOBORIC ACID □ HYDROGEN TETRAFLUORO-
 BORATE □ TETRAFLUOROBORIC ACID

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2.5 mg(F)/m³

ACGIH TLV: TWA 2.5 mg(F)/m³; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.

NIOSH REL: (Fluorides, inorganic) TWA 2.5 mg(F)/m³

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: A corrosive acid. When heated to decomposition it emits toxic vapors of B and F⁻.

FDD150 CAS: 356-12-7 HR: 3
FLUOCINOLIDE

mf: C₂₆H₃₂F₂O₇ mw: 494.58

PROP: Crystals from methanol. Mp: 308–311°.

SYNS: FLUOCINOLONE ACETONIDE ACETATE □
 FLUOCINOLONE ACETONIDE 21-ACETATE □
 FLUOCINONIDE □ METOSYN

TOXICITY DATA with REFERENCE:

dni-mus-skn 4 g/kg BJDEAZ 94,1,76
 orl-rat LD50:14 mg/kg NIIRDN 6,694,82
 ipr-rat LD50:300 µg/kg NIIRDN 6,694,82
 scu-rat LD50:720 µg/kg IYKEDH 6,386,75
 ipr-mus LD50:160 mg/kg YAKUD5 17,849,75
 scu-mus LD50:165 mg/kg YKYUA6 26,741,75

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. Mutation data reported. Experimental reproductive effects. A steroid. When heated to decomposition it emits toxic fumes of F⁻.

FDE000 CAS: 30223-48-4 HR: D
FLUORACIZINE

mf: C₂₀H₂₁F₃N₂OS mw: 394.49

SYN: 10-DIETHYLAMINOPROPIONYL-3-TRIFLUOROMETHYL PHENOTHIAZINE HYDROCHLORIDE

SAFETY PROFILE: Experimental teratogenic effects. When heated to decomposition it emits very toxic fumes of SO_x, NO_x, and F⁻.

FDE100 CAS: 13177-25-8 HR: 2
1-FLUORANTHENAMINE

mf: C₁₆H₁₁N mw: 217.28

SYN: 1-AMINOFLUORANTHENE

TOXICITY DATA with REFERENCE:

mic-sat 200 ng/plate ENMUDM 6,497,84

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

FDE200 CAS: 5869-25-0 HR: D
8-FLUORANTHENAMINE

mf: C₁₆H₁₁N mw: 217.28

SYNS: 8-AMINOFLUORANTHENE □ 9-FLUORANTHENAMINE

TOXICITY DATA with REFERENCE:

mic-sat 200 ng/plate ENMUDM 6,497,1984

mic-sat 1 nmol/plate/20M EMMUEG 38,268,2001

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

FDF000 CAS: 206-44-0 HR: 3
FLUORANTHENE

mf: C₁₆H₁₀ mw: 202.26

PROP: A polycyclic hydrocarbon. Colorless solid. Needles or plates from alc. Mp: 110°, bp: 250–251° @ 60 mm, vap press: 0.01 mm @ 20°.

SYNS: 1,2-BENZACENAPHTHENE □ BENZO(k)FLUORENE □ IDRYL □ 1,2-(1,8-NAPHTHALENEDIYL)BENZENE □ 1,2-(1,8-NAPHTHYLENE)BENZENE □ RCRA WASTE NUMBER U120

TOXICITY DATA with REFERENCE:

mma-sat 5 µg/plate MUREAV 156,61,85
 msc-hmn:lym 2 µmol/L DTESD7 10,277,82
 msc-ham:ovr 20 mg/L ENMUDM 6,539,84
 orl-rat LD50:2000 mg/kg AIHAAP 23,95,62
 ivn-mus LD50:100 mg/kg CSLNX* NX#00205
 skn-rbt LD50:3180 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal No Evidence IMEMDT 32,355,83. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and skin contact. Questionable carcinogen with experimental tumorigenic data. Human mutation data reported. Combustible when exposed to heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Polynuclear Aromatic Hydrocarbons (HPLC), 5506; (GC), 5515.

FDH000 CAS: 1306-05-4 HR: D
FLUORAPATITE

mf: $\text{Ca}_{10}\text{F}_2\text{O}_4\text{P}$ mw: 533.77

PROP: Colorless to red or blue crystals.

SYN: PHOSPHATE ROCK

OSHA PEL: TWA 2.5 mg(F)/ m^3

ACGIH TLV: TWA 2.5 mg(F)/ m^3 ; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.

NIOSH REL: (Inorganic Fluorides) TWA 2.5 mg(F)/ m^3

SAFETY PROFILE: When heated to decomposition it emits very toxic fumes of F^- and PO_x . See also FLUORIDES and PHOSPHATES.

FDI000 CAS: 153-78-6 HR: 3

FLUOREN-2-AMINE

mf: $\text{C}_{13}\text{H}_{11}\text{N}$ mw: 181.25

PROP: Crystals from EtOH (aq). Mp: 129°.

SYNS: AMINOFLUOREN (GERMAN) □ 2-AMINOFLUORENE □ 2-FLUORENAMINE □ 2-FLUORENEAMINE

TOXICITY DATA with REFERENCE:

mma-sat 150 ng/plate

CBINA8 54,71,85

msc-rat:lvr 50 $\mu\text{mol/L}$ MUREAV 130,53,84

ipr-mus LD50:132 mg/kg JJIND8 62,911,79

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also AMINES.

FDI100 CAS: 86-73-7 HR: 2

9H-FLUORENE

mf: $\text{C}_{13}\text{H}_{10}$ mw: 166.23

PROP: White crystals. Mp: 116°, bp: 295°, d: 1.203.

Flash pt: 151° C.

SYNS: o-BIPHENYLENEMETHANE □ o-BIPHENYLMETHANE □ DIPHENYLENEMETHANE □ FLUORENE □ 2,2'-METHYLENEBIPHENYL

TOXICITY DATA with REFERENCE:

mma-mus:lyms 19,500 nmol/L MUTAEX 3,193,88

otr-mus:mmr 1 $\mu\text{g/L}$ CNREA8 39,1784,79

dnd-mus:lyms 150 $\mu\text{mol/L}$ MUREAV 203,155,88

msc-mus:lyms 584 $\mu\text{mol/L}$ MUTAEX 3,193,88

cyt-ham:lng 25 mg/L MUREAV 259,103,91

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

par-mus LD50:>2 g/kg RPTOAN 52,112,89

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 32,365,83; Human No Adequate Data IMEMDT 32,365,83. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Slightly toxic by intraperitoneal and parenteral routes. Mutation data reported. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Polynuclear Aromatic Hydrocarbons (HPLC), 5506; (GC), 5515.

FDK000 HR: 3
9-FLUORENECARBOXYLATE-3-QUINUCLIDIN-

OL HYDROCHLORIDE

mf: $\text{C}_{21}\text{H}_{21}\text{NO}_2 \cdot \text{ClH}$ mw: 355.89

SYNS: FLUORENE-9-CARBOXYLIC ACID-3-QUINUCLIDINYL ESTER □ PAVATRINE □ RO 2-3208

TOXICITY DATA with REFERENCE:

ipr-mus LD50:165 mg/kg JPETAB 104,284,52

ivn-mus LD50:26 mg/kg JPETAB 104,284,52

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

FDM000 CAS: 525-64-4 HR: 2

FLUORENE-2,7-DIAMINE

mf: $\text{C}_{13}\text{H}_{11}\text{N}_2$ mw: 195.26

PROP: Plates from C_6H_6 or Et_2O . Mp: 164–165°. Sol in acids.

SYNS: 2,7-DIAMINOFLUORENE □ 2,7-FLUORENEDIAMINE □ 2,7-FLUOROENEDIAMINE

TOXICITY DATA with REFERENCE:

mmo-sat 10 $\mu\text{g/plate}$ MUREAV 143,213,85

mma-sat 5 $\mu\text{g/plate}$ MUREAV 143,213,85

dns-hmn:lym 10 $\mu\text{mol/L}$ SHYCD4 (40),47,83

dns-rat:lvr 500 nmol/L ENMUDM 3,11,81

dnd-mus:ast 5 $\mu\text{mol/L}$ MUREAV 89,95,81

orl-rat LDLo:1000 mg/kg CNREA8 26,619,66

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also AMINES.

FDN000 CAS: 66686-30-4 HR: 2
1,1'-(9H-FLUORENE-2,7-DIYL)BIS(2-(DIETHYL-AMINO)ETHANONE) DIHYDROCHLORIDE TRIHYDRATE

mf: $\text{C}_{25}\text{H}_{32}\text{N}_2\text{O}_2 \cdot 2\text{ClH} \cdot 3\text{H}_2\text{O}$ mw: 519.57

SYNS: RMI 11002 □ RMI 11002 DA

TOXICITY DATA with REFERENCE:

orl-mus LD50:5000 mg/kg ALACBI 12,77,79

scu-mus LD50:930 mg/kg ALACBI 12,77,79

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

FDN100 CAS: 55345-04-5 HR: D

9H-FLUORENE, NITRO-(9CI)

mf: $\text{C}_{13}\text{H}_9\text{NO}_2$ mw: 211.23

SYNS: FLUORENE, NITRO- □ NITROFLUORENE □ NITRO-9H-FLUORENE

TOXICITY DATA with REFERENCE:

mic-bac-sat 1 $\mu\text{g/plate}$ BIJOAK 188,867,80

dnr-bcs 2 $\mu\text{g/disc}$ MUREAV 97,1,82

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

FDO000 CAS: 486-25-9 HR: 2

9H-FLUORENE-9-ONE

mf: $\text{C}_{13}\text{H}_8\text{O}$ mw: 180.21

PROP: Yellow, rhombic crystals. Mp: 83–84°, bp: 341.5°. Insol in water; very sol in alc and ether.

SYNS: FLUOREN-9-ONE □ 9-FLUORENONE

TOXICITY DATA with REFERENCE:

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

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

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

FDP000 CAS: 206-00-8 HR: 2

FLUORENO(9,1-*gh*)QUINOLINE

mf: C₁₉H₁₁N mw: 253.31

SYN: PYRIDO(3',2':3,4)FLUORANTHENE

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

FDQ000 CAS: 28314-03-6 HR: 2

N-FLUOREN-1-YL ACETAMIDE

mf: C₁₅H₁₃NO mw: 223.29

SYNS: 1-FLUORENYLACETAMIDE □ N-1-FLUORENYLACETAMIDE

TOXICITY DATA with REFERENCE:

orl-rat TDLo:4400 mg/kg/44W-C:ETA,REP JNCIAM 24,149,60

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

FDR000 CAS: 53-96-3 HR: 3

N-FLUOREN-2-YL ACETAMIDE

mf: C₁₅H₁₃NO mw: 223.29

SYNS: AAF □ 2-AAF □ 2-ACETAMIDOFUORENE □ 2-ACETAMINOFUORENE □ ACETOAMINOFUORENE □ 2-ACETYLAMINO-FLUOREN (GERMAN) □ N-ACETYL-2-AMINOFUORENE □ 2-ACETYLAMINOFUORENE (OSHA) □ AZETYLAMINOFUOREN (GERMAN) □ FAA □ 2-FAA □ 2-FLUORENYLACETAMIDE □ N-2-FLUORENYLACETAMIDE □ RCRA WASTE NUMBER U005

TOXICITY DATA with REFERENCE:

mno-sat 100 µg/plate CBINA8 22,297,78

dnr-esc 5 µmol/L MUREAV 89,95,81

dnd-hmn:fbr 1 mmol/L ENMUDM 7,267,85

sce-hmn:lym 4400 µg/L CNREA8 40,4775,80

otr-rat:emb 100 µg/L JJIND8 67,1303,81

otr-rat:lvr 100 µmol/L CNREA8 43,5087,83

sce-mus-ipr 20 mg/kg MUREAV 157,181,85

scu-mus TDLo:400 mg/kg (15D preg):ETA,TER

IJCNW 20,293,77

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: Cancer Suspect Agent

NIOSH REL: (2-Acetylaminofluorene) TWA use 29 CFR 1910.1014

SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic, neoplastigenic,

tumorigenic, and teratogenic data. Moderately toxic by ingestion and intraperitoneal routes. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

FDS000 CAS: 6292-55-3 HR: 2

3-FLUORENYL ACETAMIDE

mf: C₁₅H₁₃NO mw: 223.29

SYNS: N-3-FLUORENYL ACETAMIDE □ N-FLUOREN-3-YL ACETAMIDE □ N-9H-FLUOREN-3-YL ACETAMIDE

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

FDT000 CAS: 22251-01-0 HR: 2

1-FLUORENYL ACETHYDROXAMIC ACID

mf: C₁₅H₁₃NO₂ mw: 239.29

PROP: Flakes from EtOH (aq). Mp: 78–80°.

SYNS: N-FLUOREN-1-YL ACETOHYDROXAMIC ACID □ N-HYDROXY-1-FLUORENYL ACETAMIDE

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

FDU000 CAS: 22225-32-7 HR: 2

3-FLUORENYL ACETHYDROXAMIC ACID

mf: C₁₅H₁₃NO₂ mw: 239.29

PROP: Prisms from EtOH (aq). Mp: 132–134°.

SYNS: N-FLUOREN-3-YL ACETOHYDROXAMIC ACID □ N-HYDROXY-3-FAA □ N-HYDROXY-3-FLUORENYL ACETAMIDE

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

FDU875 CAS: 14751-87-2 HR: 2

N-FLUOREN-2-YLACETOHYDROXAMIC ACID, COBALT(2+) COMPLEX

mf: C₃₀H₂₄N₂O₄•Co mw: 535.49

SYNS: COBALT, BIS(N-9H-FLUOREN-2-YL-N-HYDROXY-ACETAMIDATO-O,O')-(9CI) □ COBALT N-FLUOREN-2-YLACETOHYDROXAMATE □ COBALT SALTS □ N-HYDROXY-2-ACETYLAMINOFUORENE, COBALTOUS CHELATE

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

FDV000 CAS: 16808-85-8 HR: 2
N-FLUOREN-2-YL ACETOHYDROXAMIC ACID SULFATE

mf: C₁₅H₁₃NO₅S mw: 319.35

SYNS: SULFATE ESTER of N-HYDROXY-N-2-FLUORENYL ACETAMIDE □ N-SULFONOXY-AAF □ N-SULFONOXY-N-ACETYL-2-AMINOFUORENE

TOXICITY DATA with REFERENCE:

mno-bcs 6600 mmol MOPMA3 4,411,68

dnd-bcs 6600 mmol MOPMA3 4,411,68

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

FDX000 CAS: 3671-78-1 HR: 2
N-(2-FLUORENYL)BENZAMIDE

mf: C₂₀H₁₅NO mw: 285.36

SYNS: 2-BENZOYLAMINOFLUORENE □ N-FLUOREN-2-YL BENZAMIDE □ N-9H-FLUOREN-2-YL-BENZAMIDE (9CI)

TOXICITY DATA with REFERENCE:

mma-sat 100 ng/plate BBRC9 71,1201,76

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

FDY000 CAS: 29968-64-7 HR: 2
N-FLUOREN-1-YL BENZOHYDROXAMIC ACID

mf: C₂₀H₁₅NO₂ mw: 301.36

PROP: Red-orange flakes from EtOH (aq). Mp: 147° (decomp).

SYN: N-HYDROXY-1-FLUORENYL BENZAMIDE

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

FDZ000 CAS: 3671-71-4 HR: 2
N-FLUOREN-2-YL BENZOHYDROXAMIC ACID

mf: C₂₀H₁₅NO₂ mw: 301.36

PROP: A solid. Mp: 187–190°.

SYNS: N-BENZOYLOXY-ACETYLAMINOFLUORENE □ N-(2-FLUORENYL)BENZOHYDROXAMIC ACID □ N-9H-FLUOREN-2-YL-N-HYDROXYBENZAMIDE □ N-HYDROXY-2-BENZOYL-AMINOFLUORENE □ N-HYDROXY-N-2-FLUORENYL-BENZAMIDE

TOXICITY DATA with REFERENCE:

mma-sat 1500 ng/plate CBINA8 54,71,85

mmo-bcs 10 mol MOPMA3 4,411,68

oms-bcs 10 mol MOPMA3 4,411,68

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

FEE000 CAS: 391-57-1 HR: 2
N,N'-FLUOREN-2,7-YLENE BIS(TRIFLUORO-ACETAMIDE)

mf: C₁₇H₁₀F₆N₂O₂ mw: 388.29

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of F⁻ and NO_x. See also FLUORIDES.

FEE100 CAS: 13929-01-6 HR: 2
N-(9-FLUORENYL)-N-ETHYL-β-CHLOROETHYL-AMINE HYDROCHLORIDE

mf: C₁₇H₁₈ClN•ClH mw: 308.27

SYNS: N-(2-CHLOROETHYL)-N-ETHYLFLUOREN-9-AMINE HYDROCHLORIDE □ N-(2-CHLOROETHYL)-N-ETHYL-9-FLUORENAMINE HYDROCHLORIDE □ 2-CHLORO-N-(9-

FLUORENYL)DIETHYLAMINE HYDROCHLORIDE □ DIETHYLAMINE, 2-CHLORO-N-(9-FLUORENYL)-, HYDROCHLORIDE □ FLUOREN-9-AMINE, N-(2-CHLOROETHYL)-N-ETHYL-, HYDROCHLORIDE □ 9H-FLUOREN-9-AMINE, N-(2-CHLOROETHYL)-N-ETHYL-, HYDROCHLORIDE (9CI) □ SKF-501 HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

scu-mus LD50:800 mg/kg JPETAB 97,25,49

SAFETY PROFILE: Moderately toxic by subcutaneous route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x, HCl, and Cl⁻.

FEF000 CAS: 6957-71-7 HR: 2
N-FLUOREN-2-YL FORMAMIDE

mf: C₁₄H₁₁NO mw: 209.26

SYNS: N,2-FLUORENYL FORMAMIDE □ 2-FORMYLAMINO-FLUORENE

TOXICITY DATA with REFERENCE:

mma-sat 100 ng/plate BBRC9 71,1201,76

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

FEG000 CAS: 67176-33-4 HR: 2
N-(2-FLUORENYL)FORMOHYDROXAMIC ACID

mf: C₁₄H₁₁NO₂ mw: 225.26

SYNS: N-FORMYL-N-2-FLUORENYLHYDROXYLAMINE □ N-HYDROXY-N-2-FORMYLAMINOFLUORENE

TOXICITY DATA with REFERENCE:

mmo-sat 10 µg/plate CRNGDP 3,233,82

mma-sat 5 µg/plate CNREA8 40,1204,80

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

FEH000 CAS: 51029-30-2 HR: 2
3-FLUORENYLHYDROXYLAMINE

mf: C₁₃H₁₁NO mw: 197.25

SYNS: N-FLUOREN-3-YL HYDROXYLAMINE □ N-HYDROXY-3-AMINOFLUORENE

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

FEI000 CAS: 34461-49-9 HR: 2
N-FLUOREN-2-YL-HYDROXYLAMINE-*o*-GLUCURONIDE

mf: C₁₉H₁₉NO₈ mw: 389.39

SYN: N-2-FLUORENYLHYDROXYLAMINE-*o*-GLUCURONIDE

TOXICITY DATA with REFERENCE:

mmo-bcs 750 µg/L MUREAV 21,63,73

uns-bac-bcs 750 µg/L MUREAV 21,63,73

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

FEI100 CAS: 28920-43-6 HR: 3
9-FLUORENYLMETHYL CHLOROFORMATE

mf: C₁₅H₁₁ClO₂ mw: 258.71

SYNS: CARBONCHLORIDIC ACID, 9H-FLUOREN-9-YLMETHYL ESTER □ FORMIC ACID, CHLORO-, FLUOREN-9-YLMETHYL ESTER

TOXICITY DATA with REFERENCE:

mma-sat 100 µg/plate MUREAV 170,23,86

DOT CLASSIFICATION: 6.1; Label: Poison, Corrosive

SAFETY PROFILE: A poison. Mutation data reported. A corrosive. When heated to decomposition it emits toxic vapors of Cl⁻.

FEI200 CAS: 781-73-7 HR: 3
2-FLUORENYL METHYL KETONE

mf: C₁₅H₁₂O mw: 208.27

PROP: White to light yellow powder. Mp: 128–129°.

SYNS: 2-ACETOFLUORENE □ 2-ACETYLFUORENE □ ETHANONE, 1-(9H-FLUOREN-2-YL) □ KETONE, FLUOREN-2-YL METHYL

TOXICITY DATA with REFERENCE:

dnr-esc 80 mg/L MUREAV 119,135,83

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

FEI500 CAS: 63019-68-1 HR: 2
2-FLUORENYLMONOMETHYLAMINE

mf: C₁₄H₁₃N mw: 195.28

SYNS: 2-METHYLAMINOFLUORENE □ N-MONOMETHYL-2-AMINOFLUORENE □ 2-MONOMETHYLAMINOFLUORENE

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

FEM000 CAS: 63224-45-3 HR: 2
N-(2-FLUORENYL)MYRISTOXYHYDROXAMIC ACID ACETATE

mf: C₂₉H₃₉NO₃ mw: 449.69

SYNS: N-ACETOXY-2-MYRISTOYL-AMINOFLUORENE □ N-(ACETOXY)-N-9H-FLUOREN-2-YL-TETRADECANAMIDE

TOXICITY DATA with REFERENCE:

mmo-sat 1 nmol/plate CNREA8 37,1461,77

dns-hmn:fbr 100 µmol/L/5H IJCNAW 16,284,75

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

FEM050 CAS: 114119-92-5 HR: 2
N-9H-FLUOREN-2-YL-N-NITROSOACETAMIDE

mf: C₁₅H₁₂N₂O₂ mw: 252.29

SYNS: ACETAMIDE, N-9H-FLUOREN-2-YL-N-NITROSO- □ N-NITROSO-2-ACETYLAMINOFLUORENE □ N-NITROSO-N-2-FLUORENYLACETAMIDE

TOXICITY DATA with REFERENCE:

mic-sat 100 ng/plate MUREAV 201,117,88

cyt-ham-ovr 100 µmol/L MUREAV 265,203,92

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

FEM100 CAS: 15860-31-8 HR: 3
1-FLUORENYL PHENYL KETONE

mf: C₂₀H₁₄O mw: 270.34

SYNS: 2-BENZOYLFLUORENE □ 9H-FLUOREN-2-YLPHENYLMETHANONE □ KETONE, FLUOREN-2-YL-PHENYL □ METHANONE, 9H-FLUOREN-2-YLPHENYL-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:>2 g/kg PCJOAU 23,325,89

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Low toxicity by intraperitoneal route. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

FEN000 CAS: 2485-10-1 HR: 2
N-FLUORENYL-2-PHTHALIMIC ACID

mf: C₂₁H₁₅NO₃ mw: 329.37

SYNS: 2-BENZOYLAMIDOFUORENE-2'-CARBOXYLATE □ 2-BENZOYLAMINOFLUORENE-2'-CARBOXYLATE □ N-(2-FLUORENYL)PHTHALAMIC ACID

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

FEO000 CAS: 52663-84-0 HR: 2
N-(2-FLUORENYL)PROPIONOHYDROXAMIC ACID

mf: C₁₆H₁₅NO₂ mw: 253.32

SYNS: N-HYDROXY-N-2-PROPIONYLAMINO FLUORENE □ N-PROPIONYL-N-2-FLUORENYLHYDROXYLAMINE

TOXICITY DATA with REFERENCE:

mmo-sat 10 µg/plate CRNGDP 3,233,82

mma-sat 5 µg/plate CNREA8 40,1204,80

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

FEP000 CAS: 59935-47-6 HR: 2
N-2-FLUORENYL SUCCINAMIC ACID

mf: C₁₇H₁₅NO₃ mw: 281.33

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

FER000 CAS: 363-17-7 HR: 2
N-FLUOREN-2-YL-2,2,2-TRIFLUOROACET-AMIDE

mf: C₁₅H₁₀F₃NO mw: 277.26

SYNS: N-(2-FLUORENYL)-2,2,2-TRIFLUOROACETAMIDE □ 2-TRIFLUOROACETYLAMINOFLUORENE □ 2,2,2-TRIFLUORO-N-(FLUOREN-2-YL)ACETAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic F⁻ and NO_x. See also FLUORIDES.

FEV000 CAS: 2321-07-5 HR: 3
FLUORESCEIN

mf: C₂₀H₁₂O₅ mw: 332.32

PROP: Orange-red, crystalline powder. Mp: 314–316° with decomp.

SYNS: 9-(*o*-CARBOXYPHENYL)-6-HYDROXY-3-ISOXANTHENE-ONE □ 9-(*o*-CARBOXYPHENYL)-6-HYDROXY-3H-XANTHENE-3-ONE □ C.I. 45330 □ C.I. 45350 (FREE ACID) □ C.I. SOLVENT YELLOW 94 □ D&C YELLOW No. 7 □ 3',6'-DIHYDROXY-FLUORAN □ DIHYDROXYFLUORANE □ 3',6'-DIHYDROXY-SPIRO(ISOBENZOFURAN-1(3H),9'(9H)-XANTHENE)-3-ONE □ 3,6-FLUORANDIOL □ 3',6'-FLUORANDIOL □ FLUORESCINE □ HIDACID FLUORESCIN □ RESORCINOLPHTHALEIN □ SOAP YELLOW F □ 11712 YELLOW

TOXICITY DATA with REFERENCE:

dnd-esc 15 µmol/L MUREAV 89,95,81
ipr-rat LDLo:600 mg/kg IJLEAG 2,257,34
ivn-rbt LDLo:300 mg/kg IJLEAG 2,257,34

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

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

FEV100 CAS: 3570-80-7 HR: 3
FLUORESCIN MERCURIC ACETATE

mf: C₂₄H₁₆Hg₂O₉ mw: 849.58

SYNS: FLUORESCIN MERCURIACETATE □ FLUORESCIN MERCURY ACETATE □ FMA □ FMA (analytical reagent) □ MERCURY, BIS(ACETATO)(mu-(3',6'-DIHYDROXY-2',7'-FLUORANDIYL))DI-

TOXICITY DATA with REFERENCE:

dnd-mmo-omi 200 nmol/L BBACAQ 454,309,76
dnd-uns:lyms 100 nmol/L BBACAQ 454,309,76

CONSENSUS REPORTS: EPA TSCA Chemical Inventory.

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

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

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

FEW000 CAS: 518-47-8 HR: 2
FLUORESCIN SODIUM

mf: C₂₀H₁₀O₅•2Na mw: 376.28

PROP: Orange-red, hygroscopic powder. Sol in water; sltly sol in alc.

SYNS: AIZEN URANINE □ CALCOCID URANINE B4315 □ 9-*o*-CARBOXYPHENYL-6-HYDROXY-3-ISOXANTHONE, DISODIUM SALT □ CERTIQUAL FLUORESCINE □ C.I. 766 □ C.I. ACID YELLOW 73 □ C.I. 45350 DISODIUM SALT □ D&C YELLOW No. 8 □ DISODIUM-6-HYDROXY-3-OXO-9-XANTHENE-*o*-BENZOATE □ FLUORESCIN SODIUM B.P □ FLUORESCIN, soluble □ FLUOR-I-STRIP A.T. □ FUL-GLO □ FUNDUSCEIN □ FURANIUM □ HIDACID URANINE □ NCI-C54706 □ RESORCINOL PHTHALEIN SODIUM □ SODIUM FLUORESCIN □ SODIUM FLUORESCINATE □ SODIUM SALT of HYDROXY-*o*-CARBOXY-PHENYL-FLUORONE □ SOLUBLE FLUORESCIN □ SPIRO(ISOBENZOFURAN)-1(3H),9'-

(9H)XANTHENE-3-ONE, 3',6'-DIHYDROXY-DISODIUM SALT □ URANIN □ URANINE A EXTRA □ URANINE USP XII □ URANINE YELLOW □ 11824 YELLOW □ 12417 YELLOW

TOXICITY DATA with REFERENCE:

dnd-esc 15 µmol/L MUREAV 89,95,81
ivn-man TDLo:14 mg/kg/10M-I:CVS AACRAT 66,283,87

ivn-man TDLo:7142 µg/kg:EYE,GIT AJOPAA 103,111,87

orl-rat LD50:6721 mg/kg JOPRAJ 48,228,77

orl-mus LD50:4738 mg/kg JOPRAJ 48,228,77

ipr-mus LD50:1800 mg/kg TXAPA9 24,37,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Human systemic effects by intravenous route: arrhythmias, eye hemorrhage, nausea or vomiting. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Na₂O.

FEX875 CAS: 16984-48-8 HR: 3
FLUORIDE

af: F aw: 18.9984

SYNS: FLUORIDE(1-) □ FLUORIDE ION □ FLUORIDE ION(1-) □ PERFLUORIDE

TOXICITY DATA with REFERENCE:

dni-mus:fbr 1300 µmol/L APTOA6 45,96,79

orl-hmn TDLo:3 mg/kg:LIV,PUL,CNS IMEMDT** 27,237,82

orl-hmn LDLo:50 mg/kg:PUL,LIV IMEMDT** 27,237,82

ivn-mus LD50:22,800 µg/kg MIVRA6 8,320,74

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

OSHA PEL: TWA 2.5 mg(F)/m³

ACGIH TLV: TWA 2.5 mg(F)/m³; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.

DFG MAK: 2.5 mg/m³

NIOSH REL: (Fluorides, inorganic) TWA 2.5 mg(F)/m³

SAFETY PROFILE: Human poison by ingestion. Human systemic effects by ingestion: convulsions, changes in the respiratory system, liver, and kidneys. Mutation data reported. When heated to decomposition it emits toxic fumes of F⁻.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Fluorides 7902; Fluoride in Urine 8308.

FEY000 HR: 2
FLUORIDES

OSHA PEL: TWA 2.5 mg(F)/m³

ACGIH TLV: TWA 2.5 mg(F)/m³; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.

DFG MAK: 2.5 mg/m³; BAT: 7 mg/kg creatinine in urine at end of exposure; 4 mg/kg creatinine in urine about 16 hours after end of exposure

NIOSH REL: TWA 2.5 mg(F)/m³

SAFETY PROFILE: Inorganic fluorides are generally highly irritating and toxic. Acute effects resulting from exposure to fluorine compounds are due to HF. Chronic fluorine poisoning, or "fluorosis," occurs among miners of cryolite, and consists of a sclerosis of the bones, caused by fixation of the calcium by the fluorine. There may also be some calcification of the ligaments. The teeth are mottled, and there is osteosclerosis and osteomalacia. The bony and ligamentous changes are demonstrable by x-ray. The estimated human lethal dose is 2.5 to 5.9 g of F⁻. Large doses can cause very severe nausea, vomiting, diarrhea, abdominal burning, and cramp-like pains. It is not taken up by the thyroid and does not interfere with iodine uptake. Can cause or aggravate attacks of asthma and severe bone changes, making normal movements painful. Some signs of pulmonary fibrosis are noted. Some enzyme systems effects are reported. Irritants to the eyes, skin, and mucous membranes. Loss of weight, anorexia, anemia, wasting and cachexia, and dental defects are among the common findings in chronic fluorine poisoning. There may be an eosinophilia and impairment of growth in young workers. Symptoms of intoxication include gastric, intestinal, circulatory, respiratory and nervous complaints, and skin rashes. When heated to decomposition, or on contact with acid or acid fumes, they emit highly toxic fumes of F⁻.

Organic fluorides are generally less toxic than other halogenated hydrocarbons. Fluorocarbons are chemically inert to most materials but can react violently with barium, sodium, and potassium. Fluoroamides react violently with lithium tetrahydroaluminate and with sodium at very high temperatures. Some fluorinated cyclopropenyl methyl ethers react violently with water or methanol. Some fluorodinitro compounds of methane and ethane are sensitive explosives. When heated to decomposition they emit toxic fumes of F⁻. Common air contaminants.

**FEZ000 CAS: 7782-41-4 HR: 3
FLUORINE**

DOT: UN 1045

mf: F₂ mw: 38.00

PROP: Pale-yellow gas (turning white at -2°) which reacts with most organic and inorganic materials. Powerful oxidant. Mp: -218°, bp: -187°, d: 1.14 @ -200°, 1.108 @ -188°, vap d: 1.695. IDLH 25 ppm.

SYNS: BIFLUORIDEN (DUTCH) □ FLUOR (DUTCH, FRENCH, GERMAN, POLISH) □ FLUORINE, compressed (DOT) □ FLUORO (ITALIAN) □ FLUORURES ACIDE (FRENCH) □ FLUORURI ACIDI (ITALIAN) □ RCRA WASTE NUMBER P056 □ SAEURE FLUORIDE (GERMAN)

TOXICITY DATA with REFERENCE:

eye-hmn 25 ppm/5M MLD AIHAAP 29,11,68

eye-rat 140 ppm/30M AIHAAP 29,11,68

eye-mus 467 ppm/5M AIHAAP 29,11,68

eye-dog 68 ppm/1H AIHAAP 29,11,68

mno-sat 1 mg/plate CYGEDX 16(6),41,82

ihl-rat LC50:185 ppm/1H AIHAAP 29,11,68

ihl-mus LC50:150 ppm/1H AIHAAP 29,11,68

ihl-rbt LC50:270 ppm/30M AIHAAP 29,11,68

ihl-gpg LC50:170 ppm/1H AIHAAP 29,11,68

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

OSHA PEL: TWA 0.1 ppm

ACGIH TLV: TWA 1 ppm; STEL 2 ppm

DFG MAK: 0.1 ppm (0.16 mg/m³)

DOT CLASSIFICATION: 2.3; Label: Poison Gas, Oxidizer

SAFETY PROFILE: A poison gas. A skin, eye, and mucous membrane irritant. A most powerful caustic irritant to tissue. Mutation data reported. A very dangerous fire and explosion hazard. A powerful oxidizer. Reacts violently with many materials.

Explosive or potentially explosive reaction with ammonia, cesium fluoride + fluorocarboxylic acids, cesium heptafluoropropoxide, 1- or 2-fluoriminoperfluoropropane, graphite, halocarbons (e.g., carbon tetrachloride, chloroform, perfluorocyclobutane, iodoform, 1,2-dichlorotetrafluoroethane), liquid hydrocarbons (e.g., anthracene, turpentine), hydrogen, hydrogen + oxygen, hydrogen fluoride + seleninyl fluoride + heat, nitric acid, silver cyanide, sulfur dioxide, carbon monoxide, sodium acetate, sodium bromate, stainless steel, water.

Reacts to form explosive products with alkanes + oxygen (forms peroxides), cyanoguanidine, perchloric acid (forms fluorine perchlorate gas), potassium chlorate (forms fluorine perchlorate gas), potassium hydroxide (forms potassium trioxide). Forms explosive mixtures with acetonitrile + chlorine fluoride, ice.

Ignition or violent reaction on contact with acetylene, ceramic materials, covalent halides (e.g., chromyl chloride, phosphorus pentachloride, phosphorus trichloride, phosphorus trifluoride, boron trichloride, silicon tetrachloride), halogens (e.g., bromine, iodine, chlorine + spark or heating to 100°C), dicyanogen, gaseous hydrocarbons (e.g., town gas, methane, benzene), hydrogen halide gases or concentrated solutions (e.g., hydrogen bromide, hydrogen chloride, hydrogen iodide, hydrogen fluoride), metal acetylides and carbides (e.g., monocesium acetylide, cesium acetylide, lithium acetylide, rubidium acetylide, tungsten carbide, ditungsten carbide, zirconium dicarbide, uranium dicarbide), metal cyano complexes [e.g., potassium hexacyanoferrate(II), lead hexacyanoferrate(III), potassium hexacyanoferrate(III)], metal hydrides (e.g., copper hydride, potassium hydride, sodium hydride), metal iodides (e.g., lead iodide, calcium iodide, mercury iodide, potassium iodide), metals, metal salts, metal silicides (e.g., calcium disilicide, lithium hexasilicide), nickel(IV) oxide, nonmetals (e.g., boron, yellow or red phosphorus, selenium, tellurium, silicon, carbon, charcoal, sulfur), oxygenated organic compounds (e.g., methanol, ethanol, 3-methyl butanol, acetaldehyde, trichloroacetaldehyde, acetone, lactic acid, benzoic acid, salicylic acid, ethyl acetate, methyl borate), nonmetal oxides (e.g., arsenic trioxide, nitrogen oxide, dinitrogen tetroxide), oxygen + polymers [e.g., phenol-formaldehyde resins (bakelite), polyacrylonitrile-butadiene (Buna N), polyamides (nylons), polychloroprene (neoprene), polyethylene, polytrifluoropropylmethylsiloxane, polyvinylchloride-vinyl acetate (Tygon), polyvinylidene fluoride-hexafluoropropylene (Viton), polyurethane foam, polymethyl methacrylate (Perspex), polytetrafluoroethylene (Teflon)], sulfides (e.g., antimony trisulfide, carbon disulfide vapor, chromium (II) sulfide, hydrogen sulfide,

barium sulfide, potassium sulfide, zinc sulfide, molybdenum sulfide), xenon + catalysts (e.g., nickel fluoride, silver difluoride, nickel(III) oxide, silver (I) oxide).

Incandescent reaction with boron nitride, hexalithium disilicide + heat, metal borides, metal oxides (e.g., nickel(II) oxide, alkali metal oxides, alkaline earth oxides), nitrogenous bases (e.g., aniline, dimethylamine, pyridine), gallic acid.

Incompatible with cesium heptafluoro propoxide, cyanoguanidine, halocarbons, hexalithium disilicide, seleninyl fluoride, hydrogen sulfide, oxygen, sodium acetate, sodium bromate, sodium dicyanamides, most organic matter, H-containing molecules, oxides of S, N, P, alkali metals, and alkaline earths. It reacts violently with halogen acids, hydrazine, ClO_2 , coke, cyanamide, cyanides, KNO_3 , (PbO + glycerol), CCl_4 , silicides, silicates, trinitromethane, alkenes, alkyl benzenes, CS_2 , $\text{Cr}(\text{OCl})_2$, Al, Tl, Sn, Sb, As, natural gas, liquid air, perfluoropropionyl fluoride, polyvinyl chloride acetate. Many reactions go on even at $<-160^\circ$. Reacts with water or steam to produce heat and toxic and corrosive fumes. Used as one component of liquid rocket fuel and in chemical lasers. See also FLUORIDES.

FFA000 CAS: 14986-60-8 HR: 3
FLUORINE AZIDE

mf: FN_3 mw: 61.02

PROP: A green gas. Mp: -154° , bp: -82° .

SYN: AZIDO FLUORINE

SAFETY PROFILE: A poison. An irritant to the eyes, skin, and mucous membranes. An extremely unstable explosive sensitive to light and heat. Usually explodes on vaporization at -82°C . When heated to decomposition it emits toxic fumes of F^- and NO_x . See also FLUORINE and AZIDES.

FFB000 CAS: 13536-85-1 HR: 3
FLUORINE FLUORO SULFATE

mf: $\text{F}_2\text{O}_3\text{S}$ mw: 118.06

FSO_2OF

PROP: Colorless gas or vapor. Mp: -158.5° , bp: -31.3° .

SYN: FLUOROSULFURYL HYPOFLUORITE

SAFETY PROFILE: Unstable it may explode at room temperature. When heated to decomposition it emits toxic fumes of F^- and SO_x . See also FLUORINE and SULFATES.

FFD000 CAS: 10049-03-3 HR: 3
FLUORINE PERCHLORATE

mf: ClFO_4 mw: 118.45

O_3ClOF

PROP: Colorless gas, pungent, acrid odor. Mp: -167.3° , bp: -15.9° .

SYNS: CHLORINE TETROXYFLUORIDE ☐ PERCHLORYL HYPOFLUORITE

SAFETY PROFILE: A poison by ingestion and inhalation. Corrosive to the skin, eye, and mucous membranes. Very unstable. A powerful oxidizer which can react violently with oxidizable materials. A very dangerous explosion hazard; it explodes on slightest provocation. The liquid explodes on freezing at -167°C . The gas

explodes when exposed to sparks, flame, or on contact with grease, dust, rubber, or aqueous potassium iodide. Ignites in contact with hydrogen gas. When heated to decomposition it emits highly toxic fumes of F^- and Cl^- . See also FLUORINE and PERCHLORATES.

FFE000 CAS: 1544-46-3 HR: 3
FLUOROACETALDEHYDE

mf: $\text{C}_2\text{H}_3\text{FO}$ mw: 62.05

PROP: Viscous liquid; rapidly polymerizing to a white solid. Bp: $19-23^\circ$.

TOXICITY DATA with REFERENCE:

ipr-mus LD50:6 mg/kg JACSAT 78,4996,56

scu-mus LD50:4800 $\mu\text{g}/\text{kg}$ JCSOA9 -,773,49

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of F^- . See also FLUORIDES and ALDEHYDES.

FFF000 CAS: 640-19-7 HR: 3
FLUOROACETAMIDE

mf: $\text{C}_2\text{H}_4\text{FNO}$ mw: 77.07

PROP: Needles from CHCl_3 . Mp: $107-109^\circ$. Sol in H_2O and Me_2CO . Sltly sol in CHCl_3 .

SYNS: AFL 1081 ☐ COMPOUND 1081 ☐ FAA ☐ FLUORAKIL 100 ☐ 2-FLUOROACETAMIDE ☐ FLUOROACETIC ACID AMIDE ☐ FUSSOL ☐ MEGATOX ☐ MONOFLUOROACETAMIDE ☐ NAVRON ☐ RCRA WASTE NUMBER P057 ☐ RODEX ☐ YANOCK

TOXICITY DATA with REFERENCE:

spm-rat-ipr 4 mg/kg VAAZA2 1,346,68

cyt-mam:lng 300 $\mu\text{mol}/\text{L}$ HKXUDL 3,94,83

orl-rat TDLo:90 mg/kg (30D male):REP EXPEAM 20,492,64

orl-hmn LDLo:2 mg/kg SKEZAP 9,1,68

unr-hmn LDLo:5 mg/kg:CNS,GIT 34ZIAG -,274,69

orl-rat LD50:5750 $\mu\text{g}/\text{kg}$ PCOC** -,538,66

skn-rat LD50:80 mg/kg WRPCA2 9,119,70

ipr-rat LD50:12 mg/kg JSFAAE 8,400,57

orl-mus LD50:25 mg/kg ABCHA6 31,1294,67

ihl-mus LC50:550 mg/ m^3 ABCHA6 31,1294,67

skn-mus LD50:34 mg/kg SKEZAP 9,1,68

ipr-mus LD50:85 mg/kg BCPA6 12,1201,63

scu-mus LD50:34 mg/kg NHOZAX 26,203,72

ivn-rbt LD50:250 $\mu\text{g}/\text{kg}$ JCSOA9 -,912,49

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

SAFETY PROFILE: A human poison by an unspecified route. Poison experimentally by ingestion, skin contact, intraperitoneal, subcutaneous, and intravenous routes. Human systemic effects by unspecified route: convulsions, coma, nausea and vomiting. Experimental reproductive effects. Mutation data reported. Used as an insecticide and rodenticide. When heated to decomposition it emits very toxic fumes of F^- and NO_x . See also FLUORIDES.

FFG000 CAS: 343-89-5 HR: 2
7-FLUORO-2-ACETAMIDO-FLUORENE

mf: $\text{C}_{15}\text{H}_{12}\text{FNO}$ mw: 241.28

SYNS: 7-FLUORO-2-ACETYLAMINOFLUORENE ☐ N-(7-FLUOROFLUORENE-2-YL)ACETAMIDE

TOXICITY DATA with REFERENCE:

dnd-rat-par 27 µmol/kg CBINA8 40,27,82
 orl-rat TDLo:450 mg/kg/11W-C:CAR CNREA8 26,2239,66
 orl-rat TD:1200 mg/kg/15W-C:ETA CNREA8 18,469,58
 orl-rat TD:1200 mg/kg/14W-C:CAR CNREA8 15,188,55

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F⁻ and NO_x. See also FLUORIDES.

FFH000 CAS: 330-68-7 HR: 3
FLUOROACETANILIDE

mf: C₈H₈FNO mw: 153.17

SYNS: AFL 1082 □ 2-FLUOROACETANILIDE □ 2-FLUORO-N-PHENYLACETAMIDE □ TL 1312

TOXICITY DATA with REFERENCE:

orl-rat LDLo:3 mg/kg NCNSA6 5,10,53
 ipr-rat LD50:6 mg/kg JSFAAE 8,400,57
 orl-mus LD50:25 mg/kg YKKZAJ 88,1620,68
 ihl-mus LCLo:480 mg/m³/10M NDRC** 30101,4,45

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by inhalation. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES.

FFI000 CAS: 331-87-3 HR: 3
FLUOROACETIC ACID (2-ETHYLHEXYL) ESTER

mf: C₁₀H₁₉FO₂ mw: 190.29

TOXICITY DATA with REFERENCE:

skn-rbt LDLo:10 mg/kg NDRC** 30101,-,45
 ivn-rbt LDLo:10 mg/kg 11FYAN 3,73,63

SAFETY PROFILE: Poison by skin contact and intravenous routes. When heated to decomposition it emits toxic fumes of F⁻. See also ESTERS.

FFJ000 CAS: 503-20-8 HR: 3
FLUOROACETONITRILE

mf: C₂H₂FN mw: 59.05

PROP: Bp: 79–80°, d: 1.0912.

SYN: FLUOROMETHYL CYANIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:25 mg/kg JACSAT 78,3484,56
 scu-mus LD50:25 mg/kg CLDND*

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

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of F⁻, CN⁻, and NO_x. See also NITRILES and FLUORIDES.

FFK000 CAS: 2343-36-4 HR: 3
FLUOROACETPHENYLHYDRAZIDE

mf: C₈H₉FN₂O mw: 168.19

SYN: FANYLINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:9100 µg/kg JPETAB 93,287,48
 orl-mus LD50:45 mg/kg JPETAB 93,287,48
 orl-dog LDLo:250 µg/kg JPETAB 93,287,48
 orl-cat LDLo:500 µg/kg JPETAB 93,287,48
 orl-rbt LDLo:1700 µg/kg JPETAB 93,287,48

orl-gpg LDLo:1300 µg/kg JPETAB 93,287,48

orl-pgn LD50:7200 µg/kg JPETAB 93,287,48

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES.

FFL000 CAS: 2824-10-4 HR: 2
1-FLUORO-2-ACETYLAMINOFLUORENE

mf: C₁₅H₁₂FNO mw: 241.28

SYNS: 1-FLUORO-2-FAA □ N-(1-FLUOROFLUOREN-2-YL)ACETAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also AMINES and FLUORIDES.

FFM000 CAS: 2823-93-0 HR: 2
3-FLUORO-2-ACETYLAMINOFLUORENE

mf: C₁₅H₁₂FNO mw: 241.28

SYNS: 3-FLUORO-2-FAA □ N-(3-FLUOROFLUOREN-2-YL)ACETAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also AMINES and FLUORIDES.

FFN000 CAS: 2823-91-8 HR: 2
4-FLUORO-2-ACETYLAMINOFLUORENE

mf: C₁₅H₁₂FNO mw: 241.28

SYNS: 4-FLUORO-2-FAA □ N-(4-FLUOROFLUOREN-2-YL)ACETAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also AMINES and FLUORIDES.

FFO000 CAS: 2823-90-7 HR: 2
5-FLUORO-2-ACETYLAMINOFLUORENE

mf: C₁₅H₁₂FNO mw: 241.28

SYNS: 5-FLUORO-2-FAA □ N-(5-FLUOROFLUOREN-2-YL)ACETAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also AMINES and FLUORIDES.

FFP000 CAS: 2823-94-1 HR: 2
6-FLUORO-2-ACETYLAMINOFLUORENE

mf: C₁₅H₁₂FNO mw: 241.28

SYNS: 6-FLUORO-2-FAA □ N-(6-FLUOROFLUOREN-2-YL)ACETAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also AMINES and FLUORIDES.

FFQ000 CAS: 2823-95-2 HR: 2
8-FLUORO-2-ACETYLAMINOFLUORENE

mf: C₁₅H₁₂FNO mw: 241.28

SYNS: 8-FLUORO-2-FAA □ N-(8-FLUOROFLUOREN-2-YL)ACETAMIDE

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of F^- and NO_x . See also FLUORIDES and AMINES.

FFR000 CAS: 359-06-8 HR: 3
FLUOROACETYL CHLORIDE

mf: C_2H_2ClFO mw: 96.49

PROP: Liquid. Rodenticide.

TOXICITY DATA with REFERENCE:

ihl-mus LCLo:200 mg/ m^3 /10M NDRC** No. 9-4-1-9,43

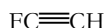
ihl-gpg LCLo:100 mg/ m^3 /10M NDRC** No. 9-4-1-9,43

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

SAFETY PROFILE: Poison by inhalation. When heated to decomposition it emits very toxic fumes of Cl^- and F^- . See also FLUORIDES and CHLORIDES.

FFS000 CAS: 2713-09-9 HR: 3
FLUORO ACETYLENE

mf: C_2H_2F mw: 44.03



PROP: A gas. Fp: -196° , bp: -105° .

SAFETY PROFILE: Can explode violently. The silver and mercury salts are heat-sensitive explosives. May explode spontaneously close to its boiling point $-80^\circ C$. The gas is stable. Ignites on contact with solutions of bromine in carbon tetrachloride. When heated to decomposition it emits toxic fumes of F^- . See also ACETYLENE COMPOUNDS and FLUORIDES.

FFS100 CAS: 1514-42-7 HR: 1
FLUOROACETYL FLUORIDE

mf: $C_2H_2F_2O$ mw: 80.04

SYNS: ACETYL FLUORIDE, FLUORO- □ FLUORID KYSELINY FLUOROCTOVE □ TL 736

TOXICITY DATA with REFERENCE:

ihl-gpg LCLo:100 mg/ m^3 /10M NDRC** No.9-4-1-9,1943

OSHA PEL: TWA 2.5 mg(F)/ m^3

ACGIH TLV: TWA 2.5 mg(F)/ m^3 ; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.

NIOSH REL: (Fluorides, Inorganic) TWA 2.5 mg(F)/ m^3

SAFETY PROFILE: Low toxicity by inhalation. When heated to decomposition it emits toxic vapors of F^- .

FFT000 CAS: 364-71-6 HR: 3
o-(FLUOROACETYL)SALICYLIC ACID

mf: $C_9H_7FO_4$ mw: 198.16

SYN: SALICYLIC ACID, FLUOROACETATE

TOXICITY DATA with REFERENCE:

orl-rat LDLo:10 mg/kg NCNSA6 5,8,53

scu-mus LD50:15 mg/kg JCOSA9 -,1773,48

SAFETY PROFILE: Poison by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of F^- . See also FLUORIDES.

FFT100 HR: 3
 α -FLUORO- β -ALANINE HYDROCHLORIDE

mf: $C_3H_6FNO_2 \cdot ClH$ mw: 143.56

SYNS: 3-AMINO-2-FLUORO-PROPANOIC ACID HYDROCHLORIDE □ FLUORO- β -ALANINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:218 mg/kg JPMSAE 73,212,84

ipr-mus LD50:167 mg/kg JPMSAE 73,212,84

ipr-dog LD50:24,500 $\mu g/kg$ JPMSAE 73,212,84

ipr-cat LD50:9400 $\mu g/kg$ JPMSAE 73,212,84

ipr-rbt LD50:27 mg/kg JPMSAE 73,212,84

SAFETY PROFILE: Poison by intraperitoneal route.

When heated to decomposition it emits toxic fumes of F^- , NO_x , and HCl.

FFU000 CAS: 15861-05-9 HR: 3
FLUOROAMINE

mf: FH_2N mw: 35.02

SYN: FLUORAMIDE

SAFETY PROFILE: The impure material is very explosive. When heated to decomposition it emits toxic fumes of F^- and NO_x . See also AMINES and FLUORIDES.

FFV000 CAS: 592-79-0 HR: 3
5-FLUORO AMYLAMINE

mf: $C_5H_{12}FN$ mw: 105.18

SYN: 5-FLUOROPENTYLAMINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:50 mg/kg JACSAT 78,3487,56

scu-mus LD50:50 mg/kg CLDND*

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of F^- and NO_x .

FFW000 CAS: 407-98-7 HR: 3
5-FLUOROAMYL CHLORIDE

mf: $C_5H_{10}ClF$ mw: 124.60

SYN: 1-CHLORO-5-FLUOROPENTANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:30,400 $\mu g/kg$ CJBPAZ 36,339,58

scu-mus LD50:32 mg/kg CLDND*

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of Cl^- and F^- .

FFX000 CAS: 661-18-7 HR: 3
5-FLUOROAMYL THIOCYANATE

mf: $C_6H_{10}FNS$ mw: 147.23

SYN: 5-FLUOROPENTYL THIOCYANATE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:30 mg/kg JACSAT 78,3843,56

scu-mus LD50:30 mg/kg CLDND*

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic F^- , NO_x , and SO_x . See also THIOCYANATES and FLUORIDES.

FFY000 CAS: 371-40-4 HR: 3
4-FLUOROANILINE

mf: C_6H_6FN mw: 111.13

PROP: D: 1.1724, mp: -0.82° , bp: $184-186^\circ$.

SYNS: BENZENAMINE, 4-FLUORO-(9CI) □ 4-FLUORANILIN □ p-FLUOROANILINE □ 4-FLUOROBENZENAMINE □ p-FLUOROPHENYLAMINE

TOXICITY DATA with REFERENCE:

skn-rbt 2 mg/24H SEV 85JCAE -,611,86
eye-rbt 250 µg/24H SEV 28ZPAK -,95,72
mma-sat 1 µmol/plate MUREAV 77,317,80
orl-rat LD50:417 mg/kg CEHYAN 23,168,78
orl-bwd LD50:100 mg/kg TXAPA9 21,315,72

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

SAFETY PROFILE: Poison by ingestion. Mutation data reported. A severe skin and eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and F⁻.

FFY100 CAS: 446-52-6 HR: 3
2-FLUOROBENZALDEHYDE

mf: C₇H₅FO mw: 124.12

SYNS: BENZALDEHYDE, 2-FLUORO- □ o-FLUORO-BENZALDEHYDE

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#07570

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

FFZ000 CAS: 388-72-7 HR: 2
4-FLUOROBENZANTHRACENE

mf: C₁₈H₁₁F mw: 246.29

SYNS:

□ 4-FLUOROBENZ(a)ANTHRACENE □ 4'-FLUORO-1,2-BENZANTHRACENE

TOXICITY DATA with REFERENCE:

scu-rat TDLo:8 mg/kg;NEO CNREA8 23,229,63

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

FGA000 CAS: 462-06-6 HR: 3
FLUOROBENZENE

DOT: UN 2387

mf: C₆H₅F mw: 96.11

PROP: Colorless liquid. D: 1.024, mp: -40°, bp: 85.2°, flash p: 5°F, d: 1.024, vap d: 3.31. Insol in water; misc in alc and ether.

SYN: PHENYL FLUORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4399 mg/kg GTPZAB 19(9),36,75
ihl-rat LC50:26,908 mg/m³ GTPZAB 19(9),36,75
ihl-mus LC50:45 g/m³/2H IZSBAI 3,91,65

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Mildly toxic by ingestion and inhalation. A very dangerous fire hazard when exposed to heat, flame, or oxidizers. To fight fire, use water spray, mist, foam, dry chemical, CO₂. When heated to decomposition it emits toxic fumes of F⁻.

FGA100 CAS: 5430-13-7 HR: 3

4-FLUOROBENZENEARSONIC ACID

mf: C₆H₆AsFO₃ mw: 220.04

PROP: A solid. Mp: 240° (decomp).

SYN: BENZENEARSONIC ACID, p-FLUORO-

TOXICITY DATA with REFERENCE:

ivn-mus LD50:180 mg/kg CSLNX* NX#05114

OSHA PEL: TWA 0.5 mg(As)/m³

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

FGA200 CAS: 200398-40-9 HR: 3
1-(2-(4-(6-FLUORO-1,2-BENZISOXAZOL-3-YL)-1-PIPERIDINYL)ETHYL)-3-PHENYL-2-IMIDAZOLIDINONE

mf: C₂₃H₂₅FN₄O₂ mw: 408.48

SYN: S18327

TOXICITY DATA with REFERENCE:

ivn-rat TDLo:63 µg/kg JPETAB 292,38,2000
scu-rat TDLo:10 mg/kg JPETAB 292,38,2000
scu-rat TDLo:1.25 mg/kg JPETAB 292,38,2000
scu-rat TDLo:0.02 mg/kg JPETAB 292,54,2000
scu-rat TDLo:10.4 mg/kg JPETAB 292,54,2000
scu-rat TDLo:1.3 mg/kg JPETAB 292,54,2000
orl-rat TDLo:0.05 mg/kg JPETAB 292,54,2000
orl-rat TDLo:0.07 mg/kg JPETAB 292,54,2000

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

FGB000 CAS: 52831-45-5 HR: 2
2-FLUORO-BENZO(e)(1)BENZOTHIO-PYRANO(4,3-b)INDOLE

mf: C₁₉H₁₀FNS mw: 303.36

TOXICITY DATA with REFERENCE:

mma-sat 30 µg/plate MUREAV 66,307,79

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

FGD000 CAS: 52831-56-8 HR: 2
3-FLUORO-BENZO(e)(1)BENZOTHIOPYRANO-(4,3-b)INDOLE

mf: C₁₉H₁₀FNS mw: 303.36

TOXICITY DATA with REFERENCE:

mma-sat 30 µg/plate MUREAV 66,307,79

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

FGD100 CAS: 52831-53-5 HR: 2
3-FLUORO-BENZO(g)(1)BENZOTHIOPYRANO-(4,3-b)INDOLE

mf: C₁₉H₁₀FNS mw: 303.36

SYN: BENZO(g)(1)BENZOTHIOPYRANO(4,3-b)INDOLE, 3-FLUORO-

TOXICITY DATA with REFERENCE:

mic-sat 30 µg/plate MUREAV 66,307,79

SAFETY PROFILE: Questionable carcinogen with neoplastigenic data reported. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and F⁻.

FGF000 CAS: 52831-68-2 HR: 2
4-FLUORO-BENZO(e)(1)BENZOTHIOPYRANO-(4,3-b)INDOLE

mf: C₁₉H₁₀FNS mw: 303.36

TOXICITY DATA with REFERENCE:

mma-sat 30 µg/plate MUREAV 66,307,79

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

FGG000 CAS: 52831-65-9 HR: 2
4-FLUORO-BENZO(g)(1)BENZOTHIOPYRANO-(4,3-b)INDOLE

mf: C₁₉H₁₀FNS mw: 303.36

TOXICITY DATA with REFERENCE:

mma-sat 30 µg/plate MUREAV 66,307,79

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

FGG900 CAS: 129286-37-9 HR: 2
10-FLUOROBENZO(j)FLUORANTHENE

mf: C₂₀H₁₁F mw: 270.31

SYN: BENZO(j)FLUORANTHENE, 10-FLUORO-

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data reported. When heated to decomposition it emits toxic vapors of F⁻.

FGH000 CAS: 445-29-4 HR: 3
o-FLUOROBENZOIC ACID

mf: C₇H₅FO₂ mw: 140.12

PROP: Needles from water. Mp: 126.5°, d: 1.460 @ 25°/4°. Sltly sol in hot water; sol in alc and ether.

SYN: o-FLUOROBENZOESAEURE (GERMAN)

TOXICITY DATA with REFERENCE:

scu-mus LDLo:700 mg/kg AEPPAE 183,427,36

ivn-mus LD50:180 mg/kg CSLNX* NX#01726

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FGH050 CAS: 1496-02-2 HR: 3
p-FLUOROBENZOIC ACID 2-PHENYL-HYDRAZIDE

mf: C₁₃H₁₁FN₂O mw: 230.26

SYN: BENZOIC ACID, p-FLUORO-, 2-PHENYLHYDRAZIDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:350 mg/kg PCJOAU 14,162,1980

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

FGH100 CAS: 1194-02-1 HR: 2
4-FLUOROBENZONITRILE

PROP: Solid white. Bp: 188°, mp: 33–36°.

SYNS: BENZONITRILE, p-FLUORO- □ p-CYANOFLUORO-BENZENE □ p-FLUOROBENZONITRILE

TOXICITY DATA with REFERENCE:

orl-mus LD50:>300 mg/kg JMCMA 21,906,78

ipr-mus LD50:1 g/kg FRPSAX 41,41,86

CONSENSUS REPORTS: On Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of CN⁻ and F⁻.

FGI000 CAS: 61735-77-1 HR: 2
3-FLUOROBENZO(rst)PENTAPHENE

mf: C₂₄H₁₃F mw: 320.37

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

FGI100 CAS: 59417-86-6 HR: 3
6-FLUOROBENZO(a)PYRENE

mf: C₂₀H₁₁F mw: 270.31

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and neoplastigenic data. When heated to decomposition it emits toxic fumes of F⁻.

FGJ000 CAS: 52831-39-7 HR: 2
2-FLUORO-(1)BENZOTHIOPYRANO(4,3-b)INDOLE

mf: C₁₅H₈FNS mw: 253.30

SYN: 2-FLUOROTHIOPYRANO(4,3-b)BENZ(e)INDOLE

TOXICITY DATA with REFERENCE:

mma-sat 30 µg/plate MUREAV 66,307,79

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes such as F⁻, SO_x, and NO_x.

FGL000 CAS: 52831-62-6 HR: 2
4-FLUORO-(1)BENZOTHIOPYRANO(4,3-b)INDOLE

mf: C₁₅H₈FNS mw: 253.30

SYN: 4-FLUOROTHIOPYRANO(4,3-b)BENZ(e)INDOLE

TOXICITY DATA with REFERENCE:

mma-sat 30 µg/plate MUREAV 66,307,79

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes such as F⁻, SO_x, and NO_x.

FGO000 CAS: 52831-58-0 HR: 2
4-FLUORO-6H-(1)BENZOTHIOPYRANO(4,3-b)QUINOLINE

mf: C₁₆H₁₀FNS mw: 267.33

TOXICITY DATA with REFERENCE:

mma-sat 90 µg/plate MUREAV 66,307,79

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported.

When heated to decomposition it emits very toxic fumes such as F⁻, NO_x, and SO_x.

FGP000 **CAS: 393-52-2** **HR: 3**
***o*-FLUOROBENZOYL CHLORIDE**

mf: C₇H₄ClFO mw: 158.56

PROP: A liquid. Mp: 4°, bp: 206°.

SYN: 2-FLUOROBENZOYL CHLORIDE

TOXICITY DATA with REFERENCE:

mma-sat 100 µg/plate ENMUDM 5(Suppl 1),3,83

ivn-mus LD50:100 mg/kg CSLNX* NX#04779

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FGQ000 **CAS: 56390-16-0** **HR: 3**
2-(3-(*p*-FLUOROBENZOYL)-1-PROPYL)-5- α ,9- α -DIMETHYL-2'-HYDROXY-6,7-BENZOMORPHAN

mf: C₂₄H₂₈FNO₂ mw: 381.53

SYN: ID-1229

TOXICITY DATA with REFERENCE:

orl-rat LD50:1000 mg/kg DRFUD4 3,298,78

ipr-rat LD50:82 mg/kg ARZNAD 25,795,75

scu-rat LD50:520 mg/kg ARZNAD 25,795,75

ivn-rat LD50:24 mg/kg ARZNAD 25,795,75

orl-mus LD50:500 mg/kg DRFUD4 3,298,78

ipr-mus LD50:112 mg/kg ARZNAD 25,795,75

scu-mus LD50:270 mg/kg ARZNAD 25,795,75

ivn-mus LD50:32 mg/kg DRFUD4 3,298,78

scu-rbt LD50:75 mg/kg ARZNAD 25,795,75

ivn-rbt LD50:7850 µg/kg ARZNAD 25,795,75

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

FGU000 **HR: 3**
1-(1-(3-(*p*-FLUOROBENZOYL)PROPYL)-4-PIPERIDYL)-2-BENZIMIDAZOLINONE, HYDROCHLORIDE MONOHYDRATE

mf: C₂₂H₂₄FN₃O₂•ClH•H₂O mw: 435.97

SYNS: BENPERIDOL □ BENZOPERIDOL □ BENZPERIDOL □ 8089 CB □ CONCILIUM □ FRENACTIL □ FRENACTYL □ GLIANIMON □ MCN-JR-4584 □ R 4584

TOXICITY DATA with REFERENCE:

dnd-mus-skn 192 µmol/kg CRNGDP 5,231,84

scu-rat LD50:218 mg/kg 27ZQAG -,185,72

ivn-rat LD50:21 mg/kg 27ZQAG -,185,72

orl-mus LD50:1000 mg/kg 27ZQAG -,185,72

scu-mus LD50:210 mg/kg 27ZQAG -,185,72

ivn-mus LD50:27 mg/kg 27ZQAG -,185,72

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. Mutation data reported. Used as an antipsychotic agent. When heated to decomposition it emits very toxic fumes of F⁻, NO_x, and HCl.

FGV000 **CAS: 20977-50-8** **HR: 3**

1-(3-(4-FLUOROBENZOYL)PROPYL)-4-PIPERIDYL-N-ISOPROPYL CARBAMATE

mf: C₁₉H₂₇FN₂O₃ mw: 350.48

PROP: A solid. Mp: 105–105.3°.

SYN: AL-1021

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:2140 µg/kg;PSY CTCEA9 11,779,69

orl-rat LD50:310 mg/kg 27ZQAG -,184,72

orl-mus LD50:265 mg/kg 27ZQAG -,184,72

ivn-mus LD50:44 mg/kg 27ZQAG -,184,72

orl-dog LD50:25 mg/kg 27ZQAG -,184,72

orl-rbt LD50:200 mg/kg 27ZQAG -,184,72

SAFETY PROFILE: Poison by ingestion and intravenous routes. Human systemic effects by ingestion: psychotropic effects. When heated to decomposition it emits very toxic F⁻ and NO_x. See also CARBAMATES.

FGW000 **CAS: 59921-81-2** **HR: 3**
1-(4'-FLUOROBENZOYL)-3-PYRROLIDINYL-PROPANE MALEATE

mf: C₁₄H₁₈FNO•C₄H₄O₄ mw: 351.41

SYNS: 1-(4'-FLUOROBENZOYL)-3-PYRROLIDINOPROPANO MALEATO (ITALIAN) □ 4'-FLUORO-4-(1-PYRROLIDINYL)BUTYROPHENONE MALEATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:335 mg/kg FRPSAX 31,442,76

orl-mus LD50:235 mg/kg FRPSAX 31,442,76

ivn-mus LD50:47 mg/kg FRPSAX 31,442,76

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

FGI025 **CAS: 59749-46-1** **HR: 2**
N-(*p*-FLUOROBENZYL)PYROGLUTAMIDE

mf: C₁₂H₁₃FN₂O₂ mw: 236.27

SYNS: 1-((4-FLUOROPHENYL)METHYL)-5-OXO-2-PYRROLIDINECARBOXAMIDE □ 2-PYRROLIDINE-CARBOXAMIDE, 1-((4-FLUOROPHENYL)METHYL)-5-OXO-

TOXICITY DATA with REFERENCE:

orl-mus LD :>1200 mg/kg FRXXBL #2273533

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

FGI050 **CAS: 321-60-8** **HR: D**
2-FLUOROBIPHENYL

mf: C₁₂H₉F mw: 172.21

PROP: White crystals or powder. Mp: 73.5°, bp: 248°.

SYNS: BIPHENYL, 2-FLUORO- □ 1,1'-BIPHENYL, 2-FLUORO-(9CI) □ ORTHO-FLUORODIPHENYL

TOXICITY DATA with REFERENCE:

mics-ham:lng 25 mg/L MUREAV 281,151,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FGW100 **CAS: 1426-40-0** **HR: 3**
FLUOROBIS(TRIFLUOROMETHYL)PHOSPHINE

mf: C₂F₇P mw: 187.98

PROP: A gas. Bp: -11°.

SAFETY PROFILE: Ignites spontaneously in air. When heated to decomposition it emits toxic fumes of F^- , phosphine and NO_x . See also PHOSPHINE.

FGX000 CAS: 1072-85-1 HR: 1
1-FLUORO-2-BROMOBENZENE

mf: C_6H_4BrF mw: 175.01

PROP: Colorless liquid. D: 1.597, mp: -8° , bp: 152° . Insol in water; very sol in alc and ether.

SYN: 2-BROMFLUORBENZEN (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,31,72

eye-rbt 100 mg/24H MOD 28ZPAK -,31,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin and eye irritant. When heated to decomposition it emits very toxic fumes of Br^- and F^- .

FGY000 CAS: 1073-06-9 HR: 2
1-FLUORO-3-BROMOBENZENE

mf: C_6H_4BrF mw: 175.01

PROP: Colorless liquid. D: 1.597, mp: -8° , bp: 152° . Insol in water, very sol in alcohol and ether.

SYN: 3-BROMFLUORBENZEN (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD 28ZPAK -,32,72

eye-rbt 20 mg/24H MOD 28ZPAK -,32,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A skin and eye irritant. When heated to decomposition it emits very toxic fumes of F^- and Br^- .

FGY100 CAS: 462-74-8 HR: 2
4-FLUOROBUTANAL

mf: C_4H_7FO mw: 90.11

SYNS: BUTANAL, 4-FLUORO-(9CI) □ BUTYRALDEHYDE, 4-FLUORO-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2 mg/kg 85JCAE -,558,1986

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of F^- .

FHA000 CAS: 462-72-6 HR: 3
4-FLUOROBUTYL BROMIDE

mf: C_4H_8BrF mw: 155.03

TOXICITY DATA with REFERENCE:

ipr-mus LD50:8200 $\mu g/kg$ JOCEAH 21,748,56

scu-mus LD50:8 mg/kg CLDND*

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of Br^- and F^- .

FHB000 CAS: 462-73-7 HR: 3
4-FLUOROBUTYL CHLORIDE

mf: C_4H_8ClF mw: 110.57

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1250 $\mu g/kg$ JOCEAH 21,748,56

scu-mus LD50:1250 mg/kg CLDND*

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

FHC000 CAS: 372-91-8 HR: 3
4-FLUOROBUTYL IODIDE

mf: C_4H_8FI mw: 202.02

TOXICITY DATA with REFERENCE:

ipr-mus LD50:5200 $\mu g/kg$ JOCEAH 21,748,56

scu-mus LD50:5 mg/kg CLDND*

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of F^- and I^- .

FHC200 CAS: 353-16-2 HR: 3
3-FLUOROBUTYL ISOCYANATE

DOT: UN 2206/UN 2207/UN 2478/UN 3080

mf: C_5H_8FNO mw: 117.14

SYN: ISOCYANIC ACID, 4-FLUOROBUTYL ESTER

TOXICITY DATA with REFERENCE:

ipr-mus LD50:4700 $\mu g/kg$ JACSAT 79,1956,57

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD (UN2207); 6.1; Label: Poison (UN2206); 6.1; Label: Poison, Flammable Liquid (UN3080); 3; Label: Flammable Liquid, Poison (UN2478)

SAFETY PROFILE: A poison. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x and CN^- .

FHD000 CAS: 353-17-3 HR: 3
4-FLUOROBUTYL THIOCYANATE

mf: C_5H_8FNS mw: 133.20

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2600 $\mu g/kg$ JACSAT 78,3843,56

scu-mus LD50:2600 $\mu g/kg$ CLDND*

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of F^- , NO_x , and SO_x . See also THIOCYANATES and FLUORIDES.

FHD100 CAS: 63867-20-9 HR: 3
2-FLUOROBUTYRIC ACID ISOPROPYL ESTER

mf: $C_7H_{13}FO_2$ mw: 148.20

TOXICITY DATA with REFERENCE:

ihl-mus LCLo:50 mg/ $m^3/10M$ NDRC** No.9-4-1-19,43

ihl-gpg LCLo:100 mg/ $m^3/10M$ NDRC** No.9-4-1-19,43

SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits toxic vapors of F^- .

FHF000 CAS: 407-83-0 HR: 3
4-FLUOROBUTYRONITRILE

mf: C_4H_6FN mw: 87.11

SYN: γ -FLUOROBUTYRONITRILE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:16 mg/kg JACSAT 78,3484,56

scu-mus LD50:16 mg/kg CLDND*

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

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of F^- , CN^- , and NO_x . See also NITRILES.

FHG000 CAS: 1893-33-0 HR: 3
FLUOROBUTYROPHENONE

mf: $C_{21}H_{30}FN_3O_2$ mw: 375.54

SYNS: DIPIPERAL □ DIPIPERON □ DIPIPERONE □ FLOROPIPAMIDE □ 1'-(3-(p-FLUOROBENZOYL)PROPYL)(1,4'-BIPYRIDINE)-4'-CARBOXAMIDE □ 1-(3-(p-FLUOROBENZOYL)PROPYL)-4-PIPERIDINOISONIPACOTAMIDE □ 4'-FLUORO-4-(4-N-PIPERIDINO-4-CARBAMIDOPYRIDINO)BUTYROPHENONE □ p-FLUORO-γ-(4-PIPERIDINO-4-CARBAMOYL-PIPERIDINO)BUTYROPHENONE □ FPA □ MCN-JR-3345 □ PIPAMPERONE □ PIPANEPERONE □ PIPERONYL □ PROPITAN □ R 3345

TOXICITY DATA with REFERENCE:

orl-mus TDL₀:1500 mg/kg (10-12D preg):TER TOIZAG 28,621,81

orl-rat LD50:160 mg/kg ANPBZ 61,611,61

scu-rat LD50:160 mg/kg ANPBZ 61,611,61

ivn-rat LD50:48 mg/kg 27ZQAG -,188,72

orl-mus LD50:490 mg/kg PHMGBN 15,485,77

scu-mus LD50:160 mg/kg 27ZQAG -,188,72

ivn-mus LD50:66 mg/kg 27ZQAG -,188,72

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. An experimental teratogen. When heated to decomposition it emits very toxic fumes of F^- and NO_x .

FHH000 HR: 2
FLUROCHLOROCARBON LIQUID

TOXICITY DATA with REFERENCE:

orl-mus LD50:7600 mg/kg GISAAA 39(4),114,74

ihl-mus LC50:930 mg/m³/2H GISAAA 39(4),114,74

ivn-mus LD50:490 mg/kg GISAAA 39(4),114,74

SAFETY PROFILE: Moderately toxic by intravenous route. Mildly toxic by ingestion and inhalation. When heated to decomposition it emits very toxic fumes of F^- .

FHH025 CAS: 67639-45-6 HR: 2
5-FLUORO-7-CHLOROMETHYL-12-METHYLBENZ(a)ANTHRACENE

mf: $C_{20}H_{14}ClF$ mw: 308.79

SYN: 7-(CHLOROMETHYL)-5-FLUORO-12-METHYLBENZ(a)ANTHRACENE

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of Cl^- and F^- .

FHH100 CAS: 127-31-1 HR: 3
FLUOROCORTISONE

mf: $C_{21}H_{29}FO_5$ mw: 380.50

PROP: Crystals from alc. Mp: 260–262° (decomp). Sol in water.

SYNS: ALFLORONE □ F-COL □ F-CORTEF □ FLORINEF □ FLUDROCORTISONE □ FLUDROCORTONE □ FLUDROCORTISONE □ FLUOHYDRISONE □ FLUOHYDROCORTISONE □ 9-α-FLUOROHYDROCORTISONE □ 9-α-FLUORO-17-HYDROXYCORTICOSTERONE □ 9-FLUORO-11-

β,17,21-TRIHIDROXYPREGN-4-ENE-3,20-DIONE □ 9-α-FLUORO-11-β,17-α,21-TRIHIDROXY-4-PREGNENE-3,20-DIONE □ U 5963

TOXICITY DATA with REFERENCE:

ipr-mus LD50:170 mg/kg CLDND*

SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of F^- . See also PREDNISONE.

FHI000 CAS: 2022-85-7 HR: 2
5-FLUOROCYTOSINE

mf: $C_4H_4FN_3O$ mw: 129.11

PROP: A solid. Mp: 295–297° (decomp).

SYNS: ALCOBON □ 4-AMINO-5-FLUORO-2(1H)-PYRIMIDINONE □ ANCOBON □ ANCOTIL □ 5-FC □ FLUCYTOSINE □ 5-FLUOROCYTOSINE □ 2-HYDROXY-4-AMINO-5-FLUOROPYRIMIDINE □ RO 2-9915

TOXICITY DATA with REFERENCE:

dni-omi 100 mg/L JMMIAV 12,83,79

oms-omi 100 mg/L JMMIAV 12,83,79

mno-smc 8 mg/L MGGEAE 146,253,76

ipr-rat LD50:3811 mg/kg IYKEDH 10,710,79

scu-rat LD50:3600 mg/kg NIIRDN 6,699,82

ipr-mus LD50:1190 mg/kg AACHAX -,566,63

scu-mus LD50:1000 mg/kg CHTHBK 25,54,79

ivn-mus LD50:500 mg/kg AACHAX -,566,63

SAFETY PROFILE: Moderately toxic by intraperitoneal, subcutaneous, and intravenous routes. Mutation data reported. An antifungal agent. When heated to decomposition it emits very toxic fumes of F^- and NO_x .

FHJ000 CAS: 475-26-3 HR: 2
FLURO-DDT

mf: $C_{14}H_9Cl_3F_2$ mw: 321.58

PROP: Crystals. Mp: 45.5°, vap d: 10.5.

SYNS: 1,1-BIS(p-FLUOROPHENYL)-2,2,2-TRICHLOROETHANE □ 2,2-BIS(p-FLUOROPHENYL)-1,1,1-TRICHLOROETHANE □ DIFLUORODIPHENYLTRICHLOROETHANE □ FLUROGESAROL □ 1,1,1-TRICHLORO-2,2-BIS(p-FLUOROPHENYL)ETHANE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1120 mg/kg AFDOAQ 15,122,51

orl-mus LDLo:600 mg/kg JPETAB 88,400,46

SAFETY PROFILE: Moderately toxic by ingestion. A contact insecticide. When heated to decomposition it emits highly toxic fumes of fluorides and Cl^- . See also DDT and FLUORIDES.

FHL000 CAS: 334-56-5 HR: 3
1-FLURODECANE

mf: $C_{10}H_{21}F$ mw: 160.31

SYN: F10

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1700 µg/kg JACSAT 79,2311,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FHM000 CAS: 334-64-5 HR: 3**10-FLUORODECANOL**mf: C₁₀H₂₁FO mw: 176.31**SYN:** ω-FLUORODECANOL**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:1 mg/kg JOCEAH 21,739,56

scu-mus LD50:2 mg/kg 11FYAN 3,60,63

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of F⁻.**FHN000 CAS: 334-62-3 HR: 3****10-FLUORODECYL CHLORIDE**mf: C₁₀H₂₀ClF mw: 194.75**SYN:** 1-CHLORO-10-FLUORO-DECANE**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:5 mg/kg JOCEAH 21,748,56

scu-mus LD50:5 mg/kg CLDND*

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of Cl⁻ and F⁻.**FHO000 CAS: 10356-76-0 HR: 2****5-FLUORO-2'-DEOXYCYTIDINE**mf: C₉H₁₂FN₃O₄ mw: 245.24**PROP:** Crystals from EtOH. Mp: 195–196.5°.**SYNS:** FcDR □ FCDR □ 5-FLUOR-DESOXYCYTIDIN

(GERMAN) □ 5-FLUORODEOXYCYTIDINE

TOXICITY DATA with REFERENCE:

dni-mus:leu 1 mg/L CPBTAL 30,1018,82

sce-ham:ovr 10 μmol/L CHROAU 85,603,82

ipr-rat LD50:2000 mg/kg ADTEAS 3,181,68

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Experimental teratogenic and reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x.**FHP000 CAS: 1764-39-2 HR: 2****6-FLUORODIBENZ(a,h)ANTHRACENE**mf: C₂₂H₁₃F mw: 296.35**SYN:** 4-FLUORO-1,2:5,6-DIBENZANTHRACENE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of F⁻.**FHP100 CAS: 1645-07-4 HR: D****p-FLUORO-DI-(2-CHLOROETHYL)BENZYL-AMINE HYDROCHLORIDE**mf: C₁₁H₁₄Cl₂FN•ClH mw: 286.62**SYNS:** BENZYLAMINE, N,N-BIS(2-CHLOROETHYL)-p-FLUORO-, HYDROCHLORIDE □ N,N-BIS(2-CHLOROETHYL)-p-FLUOROBENZYLAMINE HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

mic-mld-asn 2500 μmol/L SOGEBZ 6,220,70

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, HCl, F⁻, and Cl⁻.**FHQ000 CAS: 321-25-5 HR: 2**
2-FLUORO-4-DIMETHYLAMINOAZOBENZENEmf: C₁₄H₁₄FN₃ mw: 243.31**SYN:** N,N-DIMETHYL-2-FLUORO-4-PHENYLAZOANILINE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x and F⁻.**FHQ100 CAS: 331-91-9 HR: 2**
2'-FLUORO-4-DIMETHYLAMINOAZOBENZENEmf: C₁₄H₁₄FN₃ mw: 243.31**SYN:** N,N-DIMETHYL-p-(2-FLUOROPHENYLAZO)ANILINE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES.**FHQ100 CAS: 332-54-7 HR: 2**
3'-FLUORO-4-DIMETHYLAMINOAZOBENZENEmf: C₁₄H₁₄FN₃ mw: 243.31**SYN:** m-FLUORODIMETHYLAMINOAZOBENZENE**TOXICITY DATA with REFERENCE:**

scu-mus LDLo:1200 mg/kg OFAJAE 36,195,60

SAFETY PROFILE: Moderately toxic by subcutaneous route. An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental neoplastigenic and tumorigenic data. When heated to decomposition it emits toxic fumes of F⁻ and NO_x.**FHR000 CAS: 64038-39-7 HR: 2**
10-FLUORO-9,12-DIMETHYLBENZ(a)ACRIDINEmf: C₁₉H₁₄FN mw: 275.34**SYNS:** 2,10-DIMETHYL-3-FLUORO-5,6-BENZACRIDINE □ 9,12-DIMETHYL-10-FLUOROBENZ(a)ACRIDINE □ 3-FLUORO-2,10-DIMETHYL-5,6-BENZACRIDINE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic F⁻ and NO_x.**FHS000 CAS: 68141-57-1 HR: 2**
1-FLUORO-7,12-DIMETHYLBENZ(a)-ANTHRACENEmf: C₂₀H₁₅F mw: 274.35**SYN:** 7,12-DIMETHYL-1-FLUOROBENZ(a)ANTHRACENE**TOXICITY DATA with REFERENCE:**

msc-ham:lng 1 mg/L MUREAV 136,65,84

CONSENSUS REPORTS: EPA Genetic Toxicology Program.**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F⁻.**FHU000 CAS: 959-73-9 HR: 2**
2'-FLUORO-N,N-DIMETHYL-4-STILBENAMINEmf: C₁₆H₁₆FN mw: 241.33**SYNS:** 2'-FLUORO-4-DIMETHYLAMINOSTILBENE □ 2-FLUORO-4-STILBENYL-N,N-DIMETHYLAMINE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES.

FHV000 CAS: 405-86-7 HR: 2
4'-FLUORO-N,N-DIMETHYL-4-STILBENAMINE

mf: $C_{16}H_{16}FN$ mw: 241.33

SYNS: 4'-FLUORO-4-DIMETHYLAMINOSTILBENE □ 4'-FLUORO-4-STILBENYL-N,N-DIMETHYLAMINE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of F^- and NO_x . See also FLUORIDES.

FHV300 HR: 3
1-FLUORO-1,1-DINITRO-2-BUTENE

mf: $C_4H_5FN_2O_4$ mw: 164.09



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

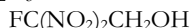
FHV800 CAS: 68795-10-8 HR: 3
2-FLUORO-1,1-DINITROETHANE

mf: $C_2H_3FN_2O_4$ mw: 138.06

SAFETY PROFILE: Explosive reaction with air at 75°C. When heated to decomposition it emits toxic fumes of F^- and NO_x .

FHW000 CAS: 17003-75-7 HR: 3
2-FLUORO-2,2-DINITROETHANOL

mf: $C_2H_3FN_2O_5$ mw: 154.06



PROP: Bp: 55–57° @ 1.5 mm.

SYNS: 2,2-DINITRO-2-FLUOROETHANOL □ 2-FLUORO-2,2-DINITROETHANOL

TOXICITY DATA with REFERENCE:

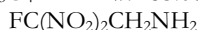
ipr-mus LD50: 54 mg/kg KHfZAN 11(1), 73, 77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by intraperitoneal route. A vesicant. Potentially explosive. When heated to decomposition it emits toxic fumes of F^- and NO_x .

FHX000 CAS: 18139-02-1 HR: 3
2-FLUORO-2,2-DINITROETHYLAMINE

mf: $C_2H_4FN_3O_4$ mw: 153.08



SAFETY PROFILE: The pure material may explode at room temperature. Concentrated solutions in dichloromethane may decompose violently in storage. When heated to decomposition it emits toxic fumes of F^- and NO_x .

FHY000 CAS: 7182-87-8 HR: 3
FLUORO DINITROMETHANE

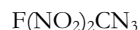
mf: $CHFNO_2O_4$ mw: 124.03



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

FHZ000 CAS: 17003-82-6 HR: 3
FLUORO DINITROMETHYL AZIDE

mf: CFN_3O_4 mw: 165.04

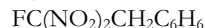


PROP: Bp: 45° @ 60 mm.

SAFETY PROFILE: Unstable at room temperature. When heated to decomposition it emits toxic fumes of F^- and NO_x . See also AZIDES.

FHZ200 CAS: 22692-30-4 HR: 3
1-FLUORO-1,1-DINITRO-2-PHENYLETHANE

mf: $C_8H_7FN_2O_4$ mw: 214.15



SAFETY PROFILE: Explosive. When heated to decomposition it emits toxic fumes of F^- and NO_x . See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

FIA000 CAS: 334-71-4 HR: 3
12-FLUORO DODECANO NITRILE

mf: $C_{12}H_{22}FN$ mw: 199.35

SYN: NC11F

TOXICITY DATA with REFERENCE:

ipr-mus LD50: 80 mg/kg JACSAT 78, 3484, 56

scu-mus LD50: 80 mg/kg CLDND*

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

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of F^- , NO_x , and CN^- . See also FLUORIDES and NITRILES.

FIA500 CAS: 1881-37-4 HR: 2
4-FLUOROESTRADIOL

mf: $C_{18}H_{23}FO_2$ mw: 290.41

PROP: Needles from C_6H_6 . Mp: 190–190.5°.

SYNS: ESTRA-1,3,5(10)-TRIENE-3,17-DIOL, 4-FLUORO-, (17-β)-(9CI) □ 4-FLUOROESTRA-1,3,5-(10)-TRIENE-3,17-β-DIOL

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

FIB000 CAS: 353-36-6 HR: 3
FLUOROETHANE

DOT: UN 2453

mf: C_2H_5F mw: 48.06

PROP: A gas with ethereal odor. Mp: −143.2°, bp: −37.7°, d: 0.8158 @ −37.7°, vap d: 1.66. Sol in EtOH and Et_2O ; sltly sol in H_2O .

SYNS: ETHYL FLUORIDE (DOT) □ MONOFLUOROETHANE □ R161

TOXICITY DATA with REFERENCE:

ihl-rat LCLo: 26 pph/4H JIDHAN 31, 343, 49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: A poison by inhalation. A very dangerous fire hazard when exposed to heat, flames, or oxidizers. To fight fire, stop flow of gas. When heated to decomposition it emits toxic fumes of F^- .

FIC000 CAS: 144-49-0 HR: 3
FLUOROETHANOIC ACID

DOT: UN 2642mf: C₂H₃FO₂ mw: 78.05**PROP:** Colorless solid or crystals. Mp: 35.3°, d: 1.393 @ 36 mm, bp: 167–168°. Sol in water and alc.**SYNS:** ACIDE-MONOFLUORACETIQUE (FRENCH) □ ACIDO MONOFLUOROACETIO (ITALIAN) □ CYMONIC ACID □ FAA □ FLUOROACETATE □ FLUOROACETIC ACID □ 2-FLUOROACETIC ACID □ FLUOROACETIC ACID (DOT) □ GIFBLAAR POISON □ HFA □ MFA □ MONOFLUORAZIJN-ZUUR (DUTCH) □ MONOFLUORESSIGSAEURE (GERMAN) □ MONOFLUOROACETATE □ MONOFLUOROACETIC ACID**TOXICITY DATA with REFERENCE:**

orl-rat LD50:4680 µg/kg TXAPA9 13,189,68
 orl-mus LD50:7 mg/kg TXAPA9 13,189,68
 ipr-mus LD50:6600 µg/kg JOCEAH 21,883,56
 scu-mus LD50:281 mg/kg JPETAB 95,62,49
 ivn-mus LD50:13 mg/kg CSLNX* NX#03014
 ivn-rbt LD50:250 µg/kg NATUAS 158,382,46
 orl-gpg LD50:468 µg/kg TXAPA9 13,189,68

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 6.1; Label: Poison**SAFETY PROFILE:** Poison by ingestion, subcutaneous, intraperitoneal, and intravenous routes. Affects the human central nervous system, causing convulsions and ventricular fibrillation. When heated to decomposition it emits toxic fumes of F⁻ and Na₂O. See also SODIUM FLUOROACETATE.**FID000 CAS: 63919-01-7 HR: 3**
FLUOROETHANOLmf: C₂H₅FO mw: 64.07**SYNS:** MONOFLUORETHANOL □ MONOFLUOROETHANOL**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:5 mg/kg JPETAB 106,464,52
 ihl-mus LC50:1100 mg/m³/10M 11FYAN 3,61,63
 scu-mus LD50:19 mg/kg JPETAB 95,62,49

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Mildly toxic by inhalation. When heated to decomposition it emits very toxic fumes of F⁻.**FIE000 CAS: 371-62-0 HR: 3**
2-FLUOROETHANOLmf: C₂H₅FO mw: 64.07**PROP:** A liquid. Fp: -26.45°, bp: 103.35° @ 757 mm. Sol in H₂O.**SYNS:** β-FLUOROETHANOL □ TL 741**TOXICITY DATA with REFERENCE:**

orl-rat LD50:5 mg/kg 85JCAE -,515,86
 ihl-rat LC50:200 mg/m³/10M NTIS** PB158-508
 ihl-mus LC50:1100 mg/m³/10M JCSOA9 -,773,49
 ipr-mus LD50:10 mg/kg JOCEAH 21,739,56
 scu-mus LD50:15 mg/kg NATUAS 172,1139,53
 ihl-dog LC50:7 mg/m³/10M NTIS** PB158-508
 ihl-mky LC50:1500 mg/m³/10M NTIS** PB158-508
 ihl-cat LC50:35 mg/m³/10M NTIS** PB158-508
 ihl-rbt LC50:25 mg/m³/10M NTIS** PB158-508
 ivn-rbt LDLo:250 µg/kg JCSOA9 -,1279,49
 ihl-gpg LC50:150 mg/m³/10M NTIS** PB158-508

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by inhalation, intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic fumes of F⁻.**FIH000 CAS: 63884-92-4 HR: 3**
β-FLUOROETHYL-N-(β-CHLOROETHYL)-N-NITROSOCARBAMATEmf: C₄H₈ClFN₂O₃ mw: 186.59**SYNS:** (2-CHLOROETHYL)NITROSOCARBAMIC ACID-2-FLUOROETHYL ESTER □ TL 821**TOXICITY DATA with REFERENCE:**ihl-gpg LCLo:300 mg/m³/10M NDRC** No. 9-4-1-9,43**SAFETY PROFILE:** Poison by inhalation. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of Cl⁻, F⁻, and NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.**FIH100 CAS: 462-27-1 HR: 3**
2-FLUOROETHYL CHLOROFORMATEmf: C₃H₄ClFO₂ mw: 126.52**SYNS:** CHLOROFORMIC ACID 2-FLUOROETHYL ESTER □ 2-FLUORETHYLESTER KYSELINY CHLORMRAVENCI □ FORMIC ACID, CHLORO-, 2-FLUOROETHYL ESTER □ TL 751**TOXICITY DATA with REFERENCE:**

ihl-mus LDLo:200 mg/kg/10M NDRC** No. 9-4-1-9,43

ihl-gpg LDLo:100 mg/kg/10M NDRC** No. 9-4-1-9,43

DOT CLASSIFICATION: 6.1; Label: Poison, Corrosive**SAFETY PROFILE:** Poison by inhalation. A corrosive. When heated to decomposition it emits toxic vapors of F⁻ and Cl⁻.**FIJ000 CAS: 13908-93-5 HR: 3**
1-(2-FLUOROETHYL)-3-CYCLOHEXYL-1-NITROSOUREAmf: C₉H₁₆FN₃O₂ mw: 217.2**SYNS:** CFNU □ CYCLOHEXYL FLUOROETHYL NITROSOUREA □ NSC-87974 □ SRI 2619**TOXICITY DATA with REFERENCE:**

msc-ham:lng 10 µmol/L CNREA8 40,2719,80

dnd-ham:lng 21 µmol/L CNREA8 38,3379,78

dnd-mus:leu 50 µmol/L CNREA8 38,3197,78

ipr-mus LD10:34 mg/kg CNREA8 34,194,74

ivn-mus LD50:51 mg/kg TXAPA9 10,397,67

ivn-mus LD50:12 mg/kg TXAPA9 10,397,67

orl-mus LD50:111 mg/kg TXAPA9 10,397,67

orl-rat LD50:18,500 µg/kg TXAPA9 10,397,67

scu-mus LD50:25,210 µg/kg NCISP* JAN86

SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal and subcutaneous routes. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also N-NITROSO COMPOUNDS.**FIK000 CAS: 4681-36-1 HR: 3**
FLUOROETHYL-O,O-DIETHYLDITHIOPHOSPHORYL-1-PHENYLACETATEmf: C₁₄H₂₀FO₄PS₂ mw: 366.43**SYN:** 2-FLUOROETHYL MERCAPTOPHENYLACETATE-O,O-DIETHYL PHOSPHORODITHIOATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 mg/kg BESAAT 15,119,69
 orl-mus LD50:75 mg/kg BESAAT 15,119,69
 orl-gpg LD50:3 mg/kg 28ZEAL 5,140,76

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of F^- , PO_3 , and SO_x . See also MERCAPTANS and FLUORIDES.

FIK875 CAS: 60553-18-6 HR: 3
FLUOROETHYLENE OZONIDE

mf: $C_2H_3FO_3$ mw: 94.04

SYN: 3-FLUORO-1,2,4-TRIOXOLANE

SAFETY PROFILE: Spontaneously explosive at room temperature. When heated to decomposition it emits toxic fumes of F^- . See also OZONE.

FIM000 CAS: 459-99-4 HR: 3
 β -FLUOROETHYL FLUOROACETATE

mf: $C_4H_6F_2O_2$ mw: 124.10

SYNS: 2-FLUOROETHYL FLUOROACETATE \square TL 855

TOXICITY DATA with REFERENCE:

ihl-rat LC50:200 mg/m³/10M NTIS** PB158-508
 ihl-mus LC50:450 μ g/m³ NATUAS 160,179,47
 scu-mus LD50:8500 μ g/kg NATUAS 160,179,47
 par-mus LD50:8500 μ g/kg JCSOA9 -,1471,49
 ihl-rbt LC50:50 mg/m³ JCSOA9 -,916,49

ihl-gpg LC50:70 mg/m³/10M NTIS** PB158-508

SAFETY PROFILE: Poison by inhalation, subcutaneous and parenteral routes. When heated to decomposition it emits toxic fumes of F^- . See also ESTERS and FLUORIDES.

FIN000 CAS: 371-29-9 HR: 3
2-FLUORO ETHYL- γ -FLUORO BUTYRATE

mf: $C_6H_{10}F_2O_2$ mw: 152.16

SYN: β -FLUOROETHYL- γ -FLUOROBUTYRATE

TOXICITY DATA with REFERENCE:

ihl-rat LC50:200 mg/m³/10M NTIS** PB158-508
 ihl-mus LC50:73 mg/m³/10M NDRC** No. 9-4-1-19,44
 ihl-dog LC50:25 mg/m³/10M NTIS** PB158-508
 ihl-mky LC50:500 mg/m³/10M NTIS** PB158-508
 ihl-cat LC50:25 mg/m³/10M NTIS** PB158-508
 ihl-gpg LC50:35 mg/m³/10M NTIS** PB158-508

SAFETY PROFILE: Poison by inhalation. When heated to decomposition it emits toxic fumes of F^- .

FIO000 CAS: 63765-78-6 HR: 3
2-FLUOROETHYL-5-FLUOROHEXOATE

mf: $C_8H_{14}F_2O_2$ mw: 180.22

TOXICITY DATA with REFERENCE:

ihl-rat LD50:200 mg/m³ NATUAS 160,179,47
 ims-rat LD50:1800 μ g/kg NATUAS 160,179,47
 ihl-mus LC50:150 μ g/m³ NATUAS 160,179,47
 scu-mus LD50:2500 μ g/kg NATUAS 160,179,47
 ihl-rbt LC50:20 μ g/m³ NATUAS 160,179,47
 ivn-rbt LD50:100 μ g/kg NATUAS 160,179,47

SAFETY PROFILE: Poison by inhalation, intramuscular, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic F^- .

FIP999 CAS: 4242-33-5 HR: 3
 β -FLUOROETHYLIC ESTER of XENYLACETIC ACID

mf: $C_{16}H_{15}FO_2$ mw: 258.31

PROP: A brown solid, sol in org solvs. Mp: 60.6°.

SYNS: 2-FLUOROETHYL ESTER DIPHENYLACETIC ACID \square LAMBROL \square M 2060

TOXICITY DATA with REFERENCE:

skn-rat LD50:4 mg/kg BESAAT 15,102,69
 orl-mus LD50:35 mg/kg BESAAT 15,102,69
 orl-dog LD50:2 mg/kg BESAAT 15,102,69
 orl-rbt LD50:600 μ g/kg SPEADM 74-1-,74
 skn-rbt LD50:7 mg/kg BESAAT 15,102,69
 orl-gpg LD50:700 μ g/kg 85DPAN -,71/76

SAFETY PROFILE: Poison by ingestion and skin contact. An insecticide. When heated to decomposition it emits toxic fumes of F^- . See also FLUORIDES.

FIQ000 CAS: 762-51-6 HR: 3
2-FLUOROETHYL IODIDE

mf: C_2H_4FI mw: 173.96

PROP: A liquid. D: 2.14 @ 25°/4°, bp: 98–102°.

SYNS: 1-FLUOR-2-JODETHAN \square 1-FLUORO-2-iodoethane

TOXICITY DATA with REFERENCE:

ipr-mus LD50:28 mg/kg JOCEAH 21,748,56
 scu-mus LD50:28 mg/kg CLDND*

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

FIS000 CAS: 63982-15-0 HR: 3
2-FLUOROETHYL-N-METHYL-N-NITROSO-CARBAMATE

mf: $C_4H_7FN_2O_3$ mw: 150.13

PROP: Crystals from Me_2CO /EtOH or Me_3CN . Mp: 198–199° (decomp).

SYN: TL 790

TOXICITY DATA with REFERENCE:

ihl-mus LCLo:500 mg/m³/10M NDRC** No. 9-4-1-9,43
 ihl-gpg LCLo:100 mg/m³/10M NDRC** No. 9-4-1-9,43

SAFETY PROFILE: Poison by inhalation. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of F^- and NO_x . See also N-NITROSO COMPOUNDS and CARBAMATES.

FIT200 CAS: 2508-18-1 HR: 2
7-FLUORO-2-N-(FLUORENYL)ACETHYDRO-XAMIC ACID

mf: $C_{15}H_{12}FNO_2$ mw: 257.28

SYNS: 7-FLUORO-2-FAA \square 7-FLUORO-N-(FLUOREN-2-YL)ACETOHYDROXAMIC ACID \square N-(7-FLUORO-2-FLUORENYL)ACETOHYDROXAMIC ACID \square 7-FLUORO-N-HYDROXY-N-2-ACETYLAMINOFLUORENE \square N-HYDROXY-7-FLUORO-2-ACETYLAMINOFLUORENE

TOXICITY DATA with REFERENCE:

mno-sat 15 nmol/plate MUREAV 67,85,79
 orl-rat TDLo:675 mg/kg/10W-C:CAR CNREA8 26,2239,66

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported.

When heated to decomposition it emits toxic fumes of NO_x and F^- .

FIW000 CAS: 31540-62-2 HR: 3
4'-FLUORO-4-(8-FLUORO-2,3,4,5-TETRA-HYDRO-1H-PYRIDO(4,3-b)INDOL-2-YL)BUTYROPHENONE HYDROCHLORIDE

mf: $\text{C}_{21}\text{H}_{20}\text{F}_2\text{N}_2\text{O}\cdot\text{ClH}$ mw: 390.89

SYN: ABBOTT-30360

TOXICITY DATA with REFERENCE:

ims-rat LD50:76 mg/kg AIPTAK 190,124,71

orl-mus LD50:335 mg/kg AIPTAK 190,124,71

ivn-mus LD50:47 mg/kg AIPTAK 190,124,71

ims-mus LD50:112 mg/kg AIPTAK 190,124,71

SAFETY PROFILE: Poison by intramuscular, ingestion, and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl , NO_x , and F^- .

FIW100 CAS: 77501-90-7 HR: 2
FLUOROGLYCOFEN

mf: $\text{C}_{18}\text{H}_{13}\text{ClF}_3\text{NO}_7$ mw: 447.77

PROP: Brown and black oil-like. Mp: 65° . Sol in water: $<1\text{mg/kg}$ @ 25° .

SYNS: BAS 9106 H \square BENZOIC ACID, 5-(2-CHLORO-4-(TRIFLUOROMETHYL)PHENOXY)-2-NITRO-, ESTER WITH ETHYL GLYCOLATE \square BENZOIC ACID, 5-(2-CHLORO-4-(TRIFLUOROMETHYL)PHENOXY)-2-NITRO-, 2-ETHOXY-2-OXOETHYL ESTER \square FLUOROGLYCOFEN-ETHYL \square RH-0265 \square SUPER BLAZER

TOXICITY DATA with REFERENCE:

orl-rat LD50:1480 mg/kg FMCHA2 -,C288,91

skn-rbt LD50:5 g/kg PEMNDP 9,412,91

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

FIX000 CAS: 661-11-0 HR: 3
1-FLUOROHEPTANE

mf: $\text{C}_7\text{H}_{15}\text{F}$ mw: 118.22

PROP: A liquid. Fp: -73° , bp: 119° @ 755 mm.

TOXICITY DATA with REFERENCE:

ipr-mus LD50:35 mg/kg JACSAT 79,2311,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FIY000 CAS: 334-44-1 HR: 3
7-FLUOROHEPTANONITRILE

mf: $\text{C}_7\text{H}_{12}\text{FN}$ mw: 129.20

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2700 $\mu\text{g/kg}$ JACSAT 78,3484,56

scu-mus LD50:2700 $\mu\text{g/kg}$ CLDND*

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

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of F^- , NO_x and CN^- . See also NITRILES.

FIZ000 CAS: 353-21-9 HR: 3

7-FLUOROHEPTYLAMINE

mf: $\text{C}_7\text{H}_{16}\text{FN}$ mw: 133.24

TOXICITY DATA with REFERENCE:

ipr-mus LD50:47 mg/kg CJBPAZ 35,407,57

scu-mus LD50:50 mg/kg CLDND*

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of NO_x and F^- . See also AMINES.

FJA000 CAS: 373-14-8 HR: 3

1-FLUOROHEXANE

mf: $\text{C}_6\text{H}_{13}\text{F}$ mw: 104.19

PROP: A liquid. Bp: $91-92^\circ$ @ 760 mm.

SYN: FLUOROHEXANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1700 $\mu\text{g/kg}$ JACSAT 79,2311,57

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of F^- . See also FLUORIDES.

FJA100 CAS: 372-70-3 HR: 3
6-FLUOROHEXANESULFONYL FLUORIDE

mf: $\text{C}_6\text{H}_{12}\text{F}_2\text{O}_2\text{S}$ mw: 186.24

SYNS: HEXANESULFONYL FLUORIDE, 6-FLUORO- \square N-TETRADECAFLUOROHEXANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:45 mg/kg JACSAT 78,3846,56

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

FJF100 CAS: 357-09-5 HR: D
FLUOROHYDROXYANDROSTENEDIONE

mf: $\text{C}_{19}\text{H}_{25}\text{FO}_3$ mw: 320.44

SYNS: FHA \square 9- α -FLUORO-11- β -HYDROXY-4-ANDROSTENE-3,17-DIONE \square U-5438

TOXICITY DATA with REFERENCE:

orl-rat TDLo:600 mg/kg (9-14D preg):TER JRPFA4 39,319,74

orl-rat TDLo:100 mg/kg (3-7D preg):REP JRPFA4 39,319,74

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. A steroid. When heated to decomposition it emits toxic fumes of F^- .

FJF200 CAS: 78336-03-5 HR: D
(1- α ,3- β ,4- α)-5-FLUORO-1-(3-HYDROXY-4-(HYDROXYMETHYL)CYCLOPENTYL)-2,4(1H,3H)-PYRIMIDINEDIONE, (+-)

mf: $\text{C}_{10}\text{H}_{13}\text{FN}_2\text{O}_4$ mw: 244.25

TOXICITY DATA with REFERENCE:

dni-mus-oth 1 mg/L JMCMA 24,1083,1981

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

FJG000 CAS: 100700-28-5 HR: 3
4-FLUORO-2-HYDROXYTHIOBUTYRIC ACID-S-

METHYL ESTERmf: C₅H₉FO₂S mw: 152.20

SYNS: BUTYRIC ACID- γ -FLUORO- β -HDYROXY-THIOL-METHYL ESTER \square γ -FLUORO- β -HYDROXY BUTYRIC ACID THIO METHYL ESTER \square TL 1427

TOXICITY DATA with REFERENCE:ihl-mus LCLo:30 mg/m³/10M NDRC** 30101,13,45ihl-dog LCLo:63 mg/m³/10M NDRC** 30101,13,45ihl-mky LC50:188 mg/m³/10M NDRC** 30101,13,45ihl-cat LCLo:63 mg/m³/10M NDRC** 30101,13,45ihl-rbt LCLo:63 mg/m³/10M NDRC** 30101,13,45

SAFETY PROFILE: Poison by inhalation. When heated to decomposition it emits toxic fumes of F⁻ and SO_x. See also ESTERS.

FJI000**HR: 3****N-FLUOROIMINO DIFLUOROMETHANE**mf: CNF₃ mw: 83.01**PROP:** Bp: -60°.

SAFETY PROFILE: Explodes on warming. When heated to decomposition it emits toxic fumes of F⁻ and NO_x.

FJI500**CAS: 78343-32-5****HR: 3****1-FLUOROIMINOHEXAFLUOROPROPANE**mf: C₃F₇N mw: 183.03

SAFETY PROFILE: Explosive reaction on contact with fluorine. When heated to decomposition it emits toxic fumes of F⁻ and NO_x. See also FLUORIDES.

FJI510**CAS: 2802-70-2****HR: 3****2-FLUOROIMINOHEXAFLUOROPROPANE**mf: C₃F₇N mw: 183.03

SAFETY PROFILE: Explosive reaction on contact with fluorine. When heated to decomposition it emits toxic fumes of F⁻ and NO_x. See also FLUORIDES.

FJK000**CAS: 593-53-3****HR: 3****FLUOROMETHANE**mf: CH₃F mw: 34.03

PROP: Colorless gas; agreeable, ether-like odor. D: (liquid) 0.8774 @ -78°, (gas) 1.1951 (air = 1), (gas) 1.0813 (oxygen = 1), mp: -141.8°, bp: -75.7° @ 872 mm, -78.2° @ 760 mm. Mod sol in H₂O; sol in EtOH and Et₂O.

SYNS: FREON 41 \square METHYL FLUORIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2.5 mg(F)/m³

ACGIH TLV: TWA 2.5 mg(F)/m³; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.

NIOSH REL: (Fluorides, Inorganic) TWA 2.5 mg(F)/m³

SAFETY PROFILE: Narcotic in high concentrations. Acts as a simple asphyxiant. Burns with evolution of hydrogen fluoride. The flame is about as colorless as that of alcohol. When heated to decomposition it emits toxic fumes of F⁻.

FJN000**CAS: 1994-57-6****HR: 2****2-FLUORO-7-METHYLBENZ(a)ANTHRACENE**mf: C₁₉H₁₃F mw: 260.32**SYN:** 7-METHYL-2-FLUOROBENZ(a)ANTHRACENE**TOXICITY DATA with REFERENCE:**

ims-rat TDLo:10 mg/kg;NEO NATUAS 273,566,78

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

FJO000**CAS: 2606-87-3****HR: 2****3-FLUORO-7-METHYLBENZ(a)ANTHRACENE**mf: C₁₉H₁₃F mw: 260.32**SYN:** 3'-FLUORO-10-METHYL-1,2-BENZANTHRACENE**TOXICITY DATA with REFERENCE:**

skn-mus TDLo:120 mg/kg/20W-I:ETA CNREA8 23,229,63

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

FJP000**CAS: 2541-68-6****HR: 2****6-FLUORO-7-METHYLBENZ(a)ANTHRACENE**mf: C₁₉H₁₃F mw: 260.32

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

FJQ000**CAS: 1881-75-0****HR: 2****9-FLUORO-7-METHYLBENZ(a)ANTHRACENE**mf: C₁₉H₁₃F mw: 260.32**SYN:** 6-FLUORO-10-METHYL-1,2-BENZANTHRACENE

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

FJR000**CAS: 1881-76-1****HR: 2****7-FLUORO-10-METHYL-1,2-BENZANTHRACENE**mf: C₁₉H₁₃F mw: 260.32**SYN:** 10-FLUORO-7-METHYLBENZ(a)ANTHRACENE

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

FJR900**CAS: 452-71-1****HR: D****4-FLUORO-2-METHYLBENZENAMINE**mf: C₇H₈FN mw: 125.16**PROP:** Pale orange to red liquid. Bp: 90-92°.**SYNS:** BENZENAMINE, 4-FLUORO-2-METHYL- \square 2-METHYL-4-FLUOROANILINE**TOXICITY DATA with REFERENCE:**mma-sat 2 μ mol/plate MUREAV 77,317,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FJT000**CAS: 52831-60-4****HR: 2****4-FLUORO-7-METHYL-6H-(1)BENZOTHTIO-**

PYRANO(4,3-b)QUINOLINEmf: C₁₇H₁₂FNS mw: 281.36**TOXICITY DATA with REFERENCE:**

mma-sat 100 µg/plate MUREAV 66,307,79

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

FJT100 CAS: 91503-79-6 HR: 3
2-FLUORO-α-METHYL-(1,1'-BIPHENYL)-4-ACETIC ACID 1-(ACETYLOXY)ETHYL ESTER

mf: C₁₉H₁₉FO₄ mw: 330.38

SYNS: 1-ACETOXYETHYL 2-(2-FLUORO-4-BIPHENYLYL)-PROPIONATE □ (1,1'-BIPHENYL)-4-ACETIC ACID, 2-FLUORO-α-METHYL-, 1-(ACETYLOXY)ETHYL ESTER □ 4-BIPHENYLACETIC ACID, 2-FLUORO-α-METHYL-, 1-ACETOXYETHYL ESTER □ FLURBIPROFEN AXETIL □ FP-83 □ LFP 83 □ LIPFEN □ LIPO-FLURBIPROFEN AXETIL □ LIPOSOMAL FLURBIPROFEN AXETIL □ ROPION

TOXICITY DATA with REFERENCE:

orl-rat LD50:66 mg/kg KSRNAM 22,3949,88

scu-rat LD50:66 mg/kg KSRNAM 22,3949,88

ivn-rat LD50:88 mg/kg KSRNAM 22,3949,88

orl-mus LD50:69 mg/kg KSRNAM 22,3949,88

scu-mus LD50:183 mg/kg KSRNAM 22,3949,88

ivn-mus LD50:194 mg/kg KSRNAM 22,3949,88

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

FJU000 CAS: 73771-72-9 HR: 2
2-FLUORO-3-METHYLCHOLANTHRENE

mf: C₂₁H₁₅F mw: 286.36

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

FJV000 CAS: 73771-73-0 HR: 2
6-FLUORO-3-METHYLCHOLANTHRENE

mf: C₂₁H₁₅F mw: 286.36

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

FJW000 CAS: 73771-74-1 HR: 2
9-FLUORO-3-METHYLCHOLANTHRENE

mf: C₂₁H₁₅F mw: 286.36

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

FJY000 CAS: 64977-44-2 HR: 2
1-FLUORO-5-METHYLCHRYSENE

mf: C₁₉H₁₃F mw: 260.32**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate JMCMAR 21,38,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F⁻. See also CHRYSENE.

FKA000 CAS: 64977-46-4 HR: 2
6-FLUORO-5-METHYLCHRYSENE

mf: C₁₉H₁₃F mw: 260.32**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate JMCMAR 21,38,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F⁻. See also CHRYSENE.

FKB000 CAS: 64977-47-5 HR: 2
7-FLUORO-5-METHYLCHRYSENE

mf: C₁₉H₁₃F mw: 260.32**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate JJIND8 63,855,79

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F⁻. See also CHRYSENE.

FKC000 CAS: 64977-48-6 HR: 2
9-FLUORO-5-METHYLCHRYSENE

mf: C₁₉H₁₃F mw: 260.32**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate JMCMAR 21,38,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F⁻. See also CHRYSENE.

FKD000 CAS: 64977-49-7 HR: 2
11-FLUORO-5-METHYLCHRYSENE

mf: C₁₉H₁₃F mw: 260.32**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate JMCMAR 21,38,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F⁻. See also CHRYSENE.

FKE000 CAS: 61413-38-5 HR: 2
12-FLUORO-5-METHYLCHRYSENE

mf: C₁₉H₁₃F mw: 260.32**TOXICITY DATA with REFERENCE:**

mma-sat 20 µg/plate JMCMAR 21,38,78

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F⁻. See also CHRYSENE.

FKF100 CAS: 465-69-0 HR: D
9- α -FLUORO-17- α -METHYL-17-HYDROXY-4-ANDROSTENE-3,11-DIONE

mf: C₂₀H₂₇FO₃ mw: 334.47

SYN: U-6596

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

FKF800 CAS: 937-25-7 HR: 2
p-FLUORO-N-METHYL-N-NITROSOANILINE

mf: C₇H₇FN₂O mw: 154.16

SYN: N-NITROSO-N-METHYL-4-FLUOROANILINE

TOXICITY DATA with REFERENCE:

mma-sat 500 μ g/plate MUREAV 89,255,81

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

FKG000 CAS: 459-02-9 HR: 3
4-FLUORO- α -METHYLPHENETHYLAMINE

mf: C₉H₁₂FN mw: 153.22

TOXICITY DATA with REFERENCE:

orl-mus LD50:25 mg/kg JACSAT 63,602,41

ipr-mus LD50:46 mg/kg ISYAM* -,21,70

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

FKI000 CAS: 1622-79-3 HR: 3
4'-FLUORO-4-(4-METHYLPIPERIDINO)-BUTYROPHENONE HYDROCHLORIDE

mf: C₁₆H₂₂FNO•ClH mw: 299.85

PROP: A solid. Mp: 209–211°.

SYNS: BURONIL □ EUNERPAN □ FG 5111 □ METHYLPER-ONE HYDROCHLORIDE □ γ -(4-METHYLPIPERIDINE)-p-FLUOROBUTYROPHENONE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:330 mg/kg APTOA6 23,109,65

scu-rat LD50:220 mg/kg APTOA6 23,109,65

ivn-rat LD50:40 mg/kg APTOA6 23,109,65

orl-mus LD50:230 mg/kg APTOA6 23,109,65

scu-mus LD50:230 mg/kg 27ZQAG -,191,72

ivn-mus LD50:35 mg/kg APTOA6 23,109,65

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. Experimental teratogenic effects. A neuroleptic drug used to treat anxiety and confusion. When heated to decomposition it emits very toxic fumes of F⁻, NO_x, and HCl.

FKK000 CAS: 321-38-0 HR: 3
 α -FLUORONAPHTHALENE

mf: C₁₀H₇F mw: 146.17

PROP: Liquid. D: 1.33, mp: -8°, bp: 212–6°; sol in benzene, alc, acetyl chloroform.

TOXICITY DATA with REFERENCE:

orl-rat LDLo:380 mg/kg JLCMAK 22,1133,37

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of F⁻. See also FLUORIDES.

FKK035 CAS: 326800-76-4 HR: 3
3-(6-FLUORO-2-NAPHTHALENYL)-2,5-DIHYDRO-1,2-DIMETHYL-1H-PYRROLE, EL-(2R,3R)-2,3-DIHYDROXYBUTANEDIOATE (1:1)

mf: C₁₆H₁₆FN•C₄H₆O₆ mw: 391.40

TOXICITY DATA with REFERENCE:

scu-mus TDLo:0.31 mg/kg FRMCE8 55,611,2000

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

FKK045 CAS: 302959-28-0 HR: 3
3-(6-FLUORO-2-NAPHTHALENYL)-1,2-DIMETHYL (2R,3S)-REL-3-PYRROLIDINOL HYDROCHLORIDE

mf: C₁₆H₁₈FNO•ClH mw: 295.78

TOXICITY DATA with REFERENCE:

scu-mus TDLo:3.14 mg/kg FRMCE8 55,611,2000

scu-mus TDLo:3.14 mg/kg FRMCE8 55,611,2000

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

FKK100 CAS: 364-76-1 HR: 2
4-FLUORO-3-NITROANILINE

mf: C₆H₅FN₂O₂ mw: 156.13

PROP: Dark yellow liquid.

SYNS: ANILINE, 4-FLUORO-3-NITRO- □ BENZENAMINE, 4-FLUORO-3-NITRO- □ 4-F-3NA

TOXICITY DATA with REFERENCE:

orl-rat LD50:1100 mg/kg TXAP9 72,400,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FKL000 CAS: 350-46-9 HR: 3
1-FLUORO-4-NITROBENZENE

mf: C₆H₄FNO₂ mw: 141.11

PROP: Pale yellow crystals. D: 1.34 @ 17.2°, mp: 27°, bp: 214–216°.

SYNS: p-FLUORONITROBENZENE □ 4-FLUORONITROBENZENE □ p-NITROFLUOROBENZENE □ 4-NITROFLUOROBENZENE

TOXICITY DATA with REFERENCE:

mno-sat 160 nL/plate MUREAV 116,217,83

orl-rat LDLo:250 mg/kg NCNSA6 5,19,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. Mutation data reported. When heated to decomposition it emits very toxic fumes of F^- and NO_x . See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

FKL500 CAS: 134514-27-5 HR: D
2-FLUORO-5-NITRO-1,4-BENZENEDIAMINE

mf: $C_6H_6FN_3O_2$ mw: 171.15

SYNS: 4-AMINO-3-NITRO-6-FLUOROANILINE □ 1,4-BENZENEDIAMINE, 2-FLUORO-5-NITRO-

TOXICITY DATA with REFERENCE:

mic-bac-sat 100 μg /plate MUREAV 307,83,94

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

FKM000 CAS: 14233-86-4 HR: 3
N-FLUORO-N-NITROBUTYLAMINE

mf: $C_4H_9FN_2O_2$ mw: 136.13

SAFETY PROFILE: Potentially explosive at 60°C. When heated to decomposition it emits very toxic fumes of F^- and NO_x . See also FLUORIDES and AMINES.

FKM100 CAS: 13738-63-1 HR: 2
FLUORONITROFEN

mf: $C_{12}H_6Cl_2FNO_3$ mw: 302.09

SYNS: BENZENE, 1,5-DICHLORO-3-FLUORO-2-(4-NITRO-PHENOXY)- □ CFNP □ 2,4-DICHLORO-6-FLUOROPHENYL p-NITROPHENYL ETHER □ 2,4-DICHLORO-6-FLUOROPHENYL-4'-NITROPHENYL ETHER □ ETHER, 2,4-DICHLORO-6-FLUOROPHENYL p-NITROPHENYL □ MO-500

TOXICITY DATA with REFERENCE:

orl-rat LD50:2890 mg/kg 85ARAE 2,197,1977

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

FKO000 CAS: 17576-63-5 HR: 2
3-FLUORO-4-NITROQUINOLINE-1-OXIDE

mf: $C_9H_5FN_2O_3$ mw: 208.16

TOXICITY DATA with REFERENCE:

cyt-omi 10 $\mu mol/L$ GANNA2 60,155,69

cyt-rat:ast 100 nmol/L GMCRCDC 17,31,75

dns-ham:oth 2 $\mu mol/L$ NATUAS 229,416,71

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of F^- and NO_x .

FKP000 CAS: 19789-69-6 HR: 2
8-FLUORO-4-NITROQUINOLINE-1-OXIDE

mf: $C_9H_5FN_2O_3$ mw: 208.16

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

FKQ000 HR: 3

FLUORONIUM PERCHLORATE

mf: $ClFH_2O_4$ mw: 120.5

$H_2F^+ClO_4^-$

SAFETY PROFILE: Complex explodes on contact with water. When heated to decomposition it emits very toxic fumes of F^- and Cl^- . See also FLUORIDES and PERCHLORATES.

FKQ100 CAS: 399-24-6 HR: 3
9-FLUORONONYL PHENYL KETONE

mf: $C_{16}H_{23}FO$ mw: 250.39

SYN: DECANOPHENONE, 10-FLUORO-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:90 mg/kg JACSAT 79,1959,57

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of F^- and Cl^- .

FKS000 CAS: 593-12-4 HR: 3
8-FLUOROOCTYL BROMIDE

mf: $C_8H_{16}BrF$ mw: 211.15

SYN: 1-BROMO-8-FLUOROOCTANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:20 mg/kg JOCEAH 21,748,56

scu-mus LD50:20 mg/kg CLDND*

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of Br^- and F^- . See also FLUORIDES and BROMIDES.

FKT000 CAS: 593-14-6 HR: 3
8-FLUOROOCTYL CHLORIDE

mf: $C_8H_{16}ClF$ mw: 166.69

SYN: 1-CHLORO-8-FLUOROOCTANE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:2300 $\mu g/kg$ JOCEAH 21,748,56

scu-mus LD50:2300 $\mu g/kg$ CLDND*

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of Cl^- and F^- . See also FLUORIDES and CHLORIDES.

FKT050 CAS: 326-52-3 HR: 3
8-FLUOROOCTYL PHENYL KETONE

mf: $C_{15}H_{21}FO$ mw: 236.36

SYN: NONANOPHENONE, 9-FLUORO-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:100 mg/kg JACSAT 79,1959,57

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of F^- .

FKT100 CAS: 367-12-4 HR: 2
2-FLUOROPHENOL

mf: C_6H_5FO mw: 112.11

PROP: Bp: 171–172°, d: 1.256.

SYNS: o-FLUOROPHENOL □ PHENOL, o-FLUORO-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:537 mg/kg JMCAR 18,868,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of F⁻.**FKV000 CAS: 371-41-5 HR: 3
4-FLUOROPHENOL**mf: C₆H₅FO mw: 112.11**PROP:** A solid. Mp: 48°, bp: 189°.**TOXICITY DATA with REFERENCE:**

skn-mus TDLo:10 g/kg/25W-I:CAR CNREA8 19,413,59

ipr-mus LD50:312 mg/kg JMCAR 18,868,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by intraperitoneal route. Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of F⁻. See also PHENOL.**FKW000 CAS: 1827-91-4 HR: 3
FLUOROPHENOTHIAZINE DIHYDROCHLORIDE**mf: C₂₄H₃₀F₃N₃O₂S•2ClH mw: 554.55**SYNS:** NDR A-3682 □ SKF 7261**TOXICITY DATA with REFERENCE:**

orl-mus LD50:588 mg/kg 27ZQAG -,23,72

ipr-mus LD50:199 mg/kg 27ZQAG -,23,72

ivn-mus LD50:40 mg/kg 27ZQAG -,23,72

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of HCl, SO_x, and NO_x.**FKX000 CAS: 725-04-2 HR: 2
2'-FLUORO-4'-PHENYLACETANILIDE**mf: C₁₄H₁₂FNO mw: 229.27**SYN:** 3-FLUORO-4-ACETYLAMINOBIIPHENYL**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of NO_x and F⁻. See also FLUORIDES.**FKY000 CAS: 725-06-4 HR: 2
4'-(m-FLUOROPHENYL)ACETANILIDE**mf: C₁₄H₁₂FNO mw: 229.27**SYN:** 3'-FLUORO-4-ACETYLAMINOBIIPHENYL**SAFETY PROFILE:** Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES.**FKZ000 CAS: 398-32-3 HR: 2
4'-(p-FLUOROPHENYL)ACETANILIDE**mf: C₁₄H₁₂FNO mw: 229.27**PROP:** A solid. Mp: 205–205.5°.**SYNS:** 4'-FLUORO-4-ACETYLAMINOBIIPHENYL □ N-4-(4'-FLUORO)BIIPHENYLACETAMIDE □ N-(4'-FLUORO-4-BIPHENYL)ACETAMIDE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and F⁻. See also FLUORIDES.**FLC000 CAS: 459-22-3 HR: 3
p-FLUOROPHENYLACETONITRILE**mf: C₈H₆FN mw: 135.15**PROP:** Bp: 228–230°.**SYNS:** 4-FLUOROBENZENEACETONITRILE □ p-FLUOROBENZYL CYANIDE □ 4-FLUOROBENZYL CYANIDE □ 4-FLUOROPHENYLACETONITRILE**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:42 mg/kg CSLNX* NX#07881

CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits very toxic fumes of F⁻, NO_x, and CN⁻. See also FLUORIDES and NITRILES.**FLD000 CAS: 456-88-2 HR: 3
3-FLUOROPHENYLALANINE**mf: C₉H₁₀FNO₂ mw: 183.20**SYN:** m-FLUOROPHENYLALANINE**TOXICITY DATA with REFERENCE:**

dnd-hmn:hla 200 μmol/L ECREAL 107,191,77

scu-rat LDLo:20 mg/kg JPETAB 73,176,41

SAFETY PROFILE: Poison by subcutaneous route. Human mutation data reported. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES.**FLD100 CAS: 51-65-0 HR: D
4-FLUORO-DI-PHENYLALANINE**mf: C₉H₁₀FNO₂ mw: 183.20**SYNS:** ALANINE, 3-(p-FLUOROPHENYL)-, dl- □ ALNASID □ FLUOROPHENYLALANINE □ dl-FLUOROPHENYLALANINE □ dl-p-FLUOROPHENYLALANINE □ dl-4-FLUOROPHENYLALANINE □ p-FLUOROPHENYLALANINE □ FPA □ dl-PHENYLALANINE, 4-FLUORO-(9CI)**TOXICITY DATA with REFERENCE:**

mmo-omi 50 μmol/L GENRA8 23,47,74

mmo-nsc 1 mg/L MUREAV 46,345,77

mrc-smc 1200 ppm HERAY 59,197,68

sln-smc 1200 ppm HERAY 59,197,68

cyt-hmn:lyms 50 μmol/L HERAY 88,197,78

cyt-ham:lng 550 μmol/L HERAY 95,25,81

dni-rbt:kdy 500 μmol/L ECREAL 36,92,64

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Human mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and F⁻.**FLE000 CAS: 325-69-9 HR: D
3-(o-FLUOROPHENYL)ALANINE**mf: C₉H₁₀FNO₂ mw: 183.20**SYNS:** o-FLUOROPHENYLALANINE □ 2-FLUOROPHENYLALANINE

TOXICITY DATA with REFERENCE:

sln-asn 36 mg/L EVHPAZ 31,81,79
 dnd-hmn:hla 200 µmol/L ECREAL 107,191,77

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES.

**FLF000 CAS: 60-17-3 HR: D
4-FLUOROPHENYLALANINE**

mf: C₉H₁₀FNO₂ mw: 183.20

SYNS: p-FLUOROPHENYLALANINE □ p-FPHE □ PFPA

TOXICITY DATA with REFERENCE:

sln-nsc 1 mg/L MUREAV 167,35,86
 cyt-hmn:lym 50 µmol/L HERAY 88,197,78
 sln-mus-ipr 100 mg/kg MUREAV 164,117,86

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES.

**FLG000 CAS: 2924-67-6 HR: 3
p-FLUOROPHENYL ETHYL SULFONE**

mf: C₈H₉FO₂S mw: 188.23

PROP: Crystals. Mp: 41°.

SYNS: BRIPADON □ CADUCID □ ETHYL-p-FLUOROPHENYL SULFONE □ 1-(ETHYLSULFONYL)-4-FLUOROBENZENE □ FLUORESONE

TOXICITY DATA with REFERENCE:

orl-mus LD50:542 mg/kg NEPSBV 3,326,64
 ipr-mus LD50:343 mg/kg NEPSBV 3,326,64
 ivn-mus LD50:320 mg/kg NEPSBV 3,317,64
 ivn-rbt LD50:110 mg/kg NEPSBV 3,317,64

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Used as an anti-epileptic agent and as a tranquilizer. When heated to decomposition it emits very toxic fumes of F⁻ and SO_x. See also FLUORIDES.

**FLG100 CAS: 5104-49-4 HR: 3
3-FLUORO-4-PHENYLHYDRATROPIC ACID**

mf: C₁₅H₁₃FO₂ mw: 244.28

PROP: Solid. Mp: 110–111°.

SYNS: 4-BIPHENYLACETIC ACID, 2-FLUORO-α-METHYL- □ (1,1'-BIPHENYL)-4-ACETIC ACID, 2-FLUORO-α-METHYL- (9CI) □ BTS 18322 □ 2-(2-FLUORO-4-BIPHENYLYL)PROPIONIC ACID □ 2-FLUORO-α-METHYL-4-BIPHENYLACETIC ACID □ 2-FLUORO-α-METHYL(1,1'-BIPHENYL)-4-ACETIC ACID □ FLURBIPROFEN □ FP 70 □ FROBEN

TOXICITY DATA with REFERENCE:

orl-man TDLo:30 mg/kg/2W-I:BAH BMJOAE 4,496,74
 orl-wmn TDLo:14 mg/kg/7D-I:SKN AIMEAS 112,550,90
 orl-rat LD50:117 mg/kg KSRNAM 9,2641,75
 ipr-rat LD50:108 mg/kg KSRNAM 9,2641,75
 scu-rat LD50:100 mg/kg KSRNAM 9,2641,75
 orl-mus LD50:640 mg/kg KSRNAM 9,2641,75

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. Human systemic effects: dermatitis, distorted perceptions, hallucinations, headache. An experimental teratogen. When heated to decomposition it emits toxic fumes of F⁻.

**FLG150 CAS: 61001-09-0 HR: D
2-(4-FLUOROPHENYL)IMIDAZO(2,1-A)ISO-QUINOLINE**

mf: C₁₇H₁₁FN₂ mw: 262.30

SYNS: 2-(p-FLUOROPHENYL)IMIDAZO(2,1-A)ISOQUINOLINE □ IMIDAZO(2,1-A)ISOQUINOLINE, 2-(p-FLUOROPHENYL)-

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

**FLG200 CAS: 317-97-5 HR: 2
N-(9-(p-FLUOROPHENYLIMINO)FLUOREN-2-YL)ACETAMIDE**

mf: C₂₁H₁₅FN₂O mw: 330.38

SYNS: ACETAMIDE, N-(9-(p-FLUOROPHENYLIMINO)-FLUOREN-2-YL)- □ 2-ACETYLAMINO-9-(p-FLUOROPHENYLIMINO)FLUORENE

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic vapors of NO_x and F⁻.

**FLH100 CAS: 1493-23-8 HR: 3
4-FLUOROPHENYLLITHIUM**

mf: C₆H₄FLi mw: 102.04

PROP: A solid. Very sol in Et₂O.

SAFETY PROFILE: The pure material is explosive. When heated to decomposition it emits toxic fumes of F⁻. See also LITHIUM COMPOUNDS.

**FLH150 CAS: 59749-50-7 HR: 2
1-((4-FLUOROPHENYL)METHYL)-5-OXO-N-(4-
OXO-4H-1-BENZOPYRAN-2-YL)-2-
PYRROLIDINECARBOXAMIDE**

mf: C₂₁H₁₇FN₂O₄ mw: 380.40

SYNS: N-p-FLUOROBENZYL((CHROMONYL-2 AMINO)-CARBONYL)-5 PYRROLIDONE-2 □ 2-PYRROLIDINECARBOX-AMIDE, 1-((4-FLUOROPHENYL)METHYL)-5-OXO-N-(4-OXO-4H-1-BENZOPYRAN-2-YL)-

TOXICITY DATA with REFERENCE:

orl-mus LD :>1200 mg/kg FRXXBL #2273533

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

**FLH200 CAS: 59749-21-2 HR: 2
1-((4-FLUOROPHENYL)METHYL)-5-OXO-L-
PROLINE**

mf: C₁₂H₁₂FNO₃ mw: 237.25

SYNS: ACIDE N-(p-FLUOROBENZYL)PYROGLUTAMIQUE □ L-PROLINE, 1-((4-FLUOROPHENYL)METHYL)-5-OXO-

TOXICITY DATA with REFERENCE:

orl-mus LD:>1200 mg/kg FRXXBL #2273533

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

**FLH300 CAS: 59749-27-8 HR: 2
1-((4-FLUOROPHENYL)METHYL)-5-OXO-L-
PROLINE AMMONIUM SALT**

mf: C₁₂H₁₂FNO₃•H₃N mw: 254.29

SYNS: N-(p-FLUOROBENZYL)PYROGLUTAMATE D'AMMONIUM □ L-PROLINE, 1-((4-FLUOROPHENYL)METHYL)-5-OXO-, AMMONIUM SALT

TOXICITY DATA with REFERENCE:

orl-mus LD: >1200 mg/kg FRXXBL #2273533

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, NH₃, and F⁻.

FLH310 CAS: 59749-40-5 HR: 2
1-((4-FLUOROPHENYL)METHYL)-5-OXO-L-PROLINE (2,2-DIMETHYL-1,3-DIOXOLAN-4-YL)METHYL ESTER

mf: C₁₈H₂₂FNO₅ mw: 351.41

SYNS: N-(p-FLUOROBENZYL)PYROGLUTAMATE de ((DI-METHYL-2,2)DIOXOLANNE-1,3-YL-4)-METHYLE □ L-PROLINE, 1-((4-FLUOROPHENYL)METHYL)-5-OXO-, (2,2-DIMETHYL-1,3-DIOXOLAN-4-YL)METHYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD :>1200 mg/kg FRXXBL #2273533

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

FLH315 CAS: 59749-17-6 HR: 2
1-((4-FLUOROPHENYL)METHYL)-5-OXO-L-PROLINE METHYL ESTER

mf: C₁₃H₁₄FNO₃ mw: 251.28

SYNS: N-(p-FLUOROBENZYL)PYROGLUTAMATE de METHYLE □ L-PROLINE, 1-((4-FLUOROPHENYL)METHYL)-5-OXO-, METHYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD :>1200 mg/kg FRXXBL #2273533

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

FLH320 CAS: 59749-45-0 HR: 2
1-((4-FLUOROPHENYL)METHYL)-5-OXO-L-PROLINE(4-OXO-4H-1-BENZOPYRAN-2-YL)METHYL ESTER

mf: C₂₂H₁₈FNO₅ mw: 395.41

SYNS: N-(p-FLUOROBENZYL)PYROGLUTAMATE de CHROMONYL-2 METHYL □ L-PROLINE, 1-((4-FLUOROPHENYL)METHYL)-5-OXO-, (4-OXO-4H-1-BENZOPYRAN-2-YL)METHYL ESTER

TOXICITY DATA with REFERENCE:

orl-mus LD :>1200 mg/kg FRXXBL #2273533

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

FLH325 CAS: 59749-31-4 HR: 2
1-((4-FLUOROPHENYL)METHYL)-5-OXO-L-PROLINE compounded with N-ETHYLETHANAMINE (1:1)

mf: C₁₂H₁₂FNO₃•C₄H₁₁N mw: 310.41

SYNS: N-(p-FLUOROBENZYL)PYROGLUTAMATE de DIETHYLAMINE □ L-PROLINE, 1-((4-FLUOROPHENYL)-METHYL)-5-OXO-, compounded with N-ETHYLETHANAMINE (1:1)

TOXICITY DATA with REFERENCE:

orl-mus LD :>1200 mg/kg FRXXBL #2273533

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

FLH400 CAS: 59749-51-8 HR: 2
1-((4-FLUOROPHENYL)METHYL)-5-OXO-N-(3-(TRIFLUOROMETHYL)PHENYL)-2-PYRROLIDINE CARBOXAMIDE

mf: C₁₉H₁₆F₄N₂O₂ mw: 380.37

SYNS: N-p-FLUOROBENZYL((M-TRIFLUOROMETHYL-ANILINO)CARBONYL)-5-PYRROLIDONE-2 □ 2-PYRROLIDINE-CARBOXAMIDE, 1-((4-FLUOROPHENYL)METHYL)-5-OXO-N-(3-(TRIFLUOROMETHYL)PHENYL)-

TOXICITY DATA with REFERENCE:

orl-mus LD :>1200 mg/kg FRXXBL #2273533

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

FLJ000 CAS: 2804-00-4 HR: 3
8-(4-p-FLUORO PHENYL-4-OXOBUTYL)-2-METHYL-2,8-DIAZASPIRO(4.5)DECANE-1,3-DIONE

mf: C₁₉H₂₃FN₂O₃ mw: 346.44

SYNS: F-33 □ FR-33 □ R 7158

TOXICITY DATA with REFERENCE:

ivn-rat LD50:92 mg/kg 27ZQAG -,189,72

orl-mus LD50:193 mg/kg 27ZQAG -,189,72

ivn-mus LD50:90 mg/kg 27ZQAG -,189,72

ivn-dog LD50:56 mg/kg 27ZQAG -,189,72

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

FLK000 CAS: 54063-38-6 HR: 2
4-(4-(4-FLUOROPHENYL)-4-OXOBUTYL)-1-PIPERAZINECARBOXYLIC ACID CYCLOHEXYL ESTER

mf: C₂₁H₂₉FN₂O₃ mw: 376.52

SYNS: FENAPERONA (SPANISH) □ FENAPERONE □ 4-(3-(p-FLUOROBENZOYL)PROPYL)-1-PIPERAZINOCARBOXYLIC ACID CYCLOHEXYLESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:1080 mg/kg DRFUD4 3,734,78

orl-mus LD50:872 mg/kg DRFUD4 3,734,78

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

FLK100 CAS: 2062-84-2 HR: 3
1-(1-(4-(4-FLUOROPHENYL)-4-OXOBUTYL)-4-PIPERIDINYL)-1,3-DIHYDRO-2H-BENZIMIDAZOL-2-ONE

mf: C₂₂H₂₄FN₃O₂ mw: 381.49

PROP: Solid. Mp: 170–171.8°.

SYNS: ANQUIL □ BENPERIDOL □ BENZOPERIDOL □ BENZPERIDOL □ 8089 C.B. □ 1-(1-(3-(p-FLUOROBENZOYL)-PROPYL)-4-PIPERIDYL)-2-BENZIMIDAZOLINONE □ FRENACTIL □ FRENACTYL □ GLIANIMON □ GLIANIMON MITE □ MCM-JR-4584 □ R 4584

TOXICITY DATA with REFERENCE:

scu-rat LD50:220 mg/kg MDCHAG 4(2),199,67

ipr-mus LD50:250 mg/kg FRPSAX 35,605,80
ivn-mus LD50:20 mg/kg CSLNX* NX#11942

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

FLL000 CAS: 2354-61-2 HR: 3
4'-FLUORO-4-(1-(4-PHENYL)PIPERAZINO)-BUTYROPHENONE

mf: C₂₀H₂₃FN₂O mw: 326.45

SYNS: BPZ □ BUTROPIPAZON □ BUTROPIPAZONE □ 1-(4-FLUOROPHENYL)-4-(4-PHENYL-1-PIPERAZINYL)-1-BUTANONE □ GALVANISONE □ R 1892

TOXICITY DATA with REFERENCE:

orl-rat LD50:550 mg/kg PHMGBN 15,485,77
scu-rat LD50:550 mg/kg MDCHAG 4(2),199,67
ivn-rat LD50:32 mg/kg 27ZQAG -,186,72
orl-mus LD50:650 mg/kg PHMGBN 15,485,77
ipr-mus LD50:76 mg/kg 27ZQAG -,186,72
ivn-mus LD50:24 mg/kg 27ZQAG -,186,72

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

FLL100 CAS: 315706-75-3 HR: 3
3-(4-FLUOROPHENYL)-N-(4-PROPYLCYCLO-HEXYL)-2-PROPENAMIDE

mf: C₁₈H₂₄FNO mw: 289.39

TOXICITY DATA with REFERENCE:

orl-mus TDLo:21.7 mg/kg FRMCE8 55,439,2000
orl-rat TDLo:100 mg/kg FRMCE8 55,439,2000

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

FLL200 CAS: 124533-50-2 HR: 2
8-FLUORO-N-(2-(4-PHENYL-2-THIAZOLYL)ETHYL)-4-QUINOLINAMINE

mf: C₂₀H₁₆FN₃S mw: 349.45

SYN: 4-QUINOLINAMINE, 8-FLUORO-N-(2-(4-PHENYL-2-THIAZOLYL)ETHYL)-

TOXICITY DATA with REFERENCE:

orl-mus LDLo:500 mg/kg NTIS** OTS0544954

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

FLN000 CAS: 3781-28-0 HR: 3
4'-FLUORO-4-(4-PIPERIDINO-4-PROPIONYL-PIPERIDINO)BUTYROPHENONE

mf: C₂₃H₃₃FN₂O₂ mw: 388.58

SYNS: FLOROPIPETON □ PROPYPERONE

TOXICITY DATA with REFERENCE:

orl-rat LD50:780 mg/kg 27ZQAG -,192,72
scu-rat LD50:350 mg/kg 27ZQAG -,192,72
orl-mus LD50:275 mg/kg 27ZQAG -,192,72
scu-mus LD50:420 mg/kg 27ZQAG -,192,72

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

FLQ000 CAS: 5675-31-0 HR: 3
2-FLUORO-2-PROPEN-1-OL

mf: C₃H₅FO mw: 76.08

PROP: IDLH 750 ppm.

TOXICITY DATA with REFERENCE:

orl-rat LD50:130 mg/kg AIHAAP 23,95,62
ihl-rat LCLo:1000 ppm/1H AIHAAP 23,95,62
skn-rbt LD50:3 mg/kg AIHAAP 23,95,62

SAFETY PROFILE: Poison by ingestion and skin contact. Mildly toxic by inhalation. When heated to decomposition it emits toxic fumes of F⁻.

FLR000 CAS: 461-56-3 HR: 3
3-FLUOROPROPIONIC ACID

mf: C₃H₅FO₂ mw: 92.08

PROP: Oily liquid with sharp, characteristic odor. D: 1.2406 @ 20°/4°, bp: 97° @ 29 mm. Very sol in H₂O and org solvents.

SYN: ω-FLUOROPROPIONIC ACID

TOXICITY DATA with REFERENCE:

ipr-mus LD50:60 mg/kg JOCEAH 21,739,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FLR050 CAS: 315706-67-3 HR: 3
4-FLUORO-N-(4-PROPYLCYCLOHEXYL)-BENZAMIDE

mf: C₁₆H₂₂FNO mw: 263.36

TOXICITY DATA with REFERENCE:

orl-mus TDLo:39.5 mg/kg FRMCE8 55,439,2000
orl-rat TDLo:100 mg/kg FRMCE8 55,439,2000

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

FLR100 CAS: 407-99-8 HR: 3
3-FLUOROPROPYL ISOCYANATE

DOT: UN 2206/UN 2207/UN 2478/UN 3080

mf: C₄H₆FNO mw: 103.11

SYN: ISOCYANIC ACID, 3-FLUOROPROPYL ESTER

TOXICITY DATA with REFERENCE:

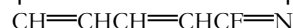
ipr-mus LD50:10 mg/kg JACSAT 79,1956,57

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD (UN2207); 6.1; Label: Poison (UN2206); 6.1; Label: Poison, Flammable Liquid (UN3080); 3; Label: Flammable Liquid, Poison (UN2478)

SAFETY PROFILE: A poison by intraperitoneal route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x and CN⁻.

FLT100 CAS: 372-48-5 HR: 3
2-FLUOROPYRIDINE

mf: C₅H₄FN mw: 97.09



PROP: A liquid. Bp: 125°.

TOXICITY DATA with REFERENCE:

mno-sat 5 mg/plate MUREAV 176,185,87

SAFETY PROFILE: Mutation data reported. Reaction with bromine trifluoride forms a spontaneously ignitable product. When heated to decomposition it emits toxic fumes of F⁻ and NO_x.

FLT200 CAS: 164150-85-0 HR: D
1-(5-FLUORO-2-PYRIDYL)-6-FLUORO-7-(4-METHYL-1-PIPERAZINYL)-1,4-DIHYDRO-4-OXOQUINOLONE-3-

mf: C₂₀H₁₈F₂N₄O₃•ClH mw: 436.85

SYNS: CARBOXYLIC ACID HYDROCHLORIDE □ DW-116 □ 3-QUINOLINECARBOXYLIC ACID, 6-FLUORO-1-(5-FLUORO-2-PYRIDINYL)-1,4-DIHYDRO-7-(4-METHYL-1-PIPERAZINYL)-4-OXO-, MONOHYDROCHLORIDE

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

FLU000 CAS: 1649-18-9 HR: 3
4'-FLUORO-4-(4-(2-PYRIDYL)-1-PIPERAZINYL)-BUTYROPHENONE

mf: C₁₉H₂₂FN₃O mw: 327.44

PROP: A solid. Mp: 73–75°.

SYNS: AZAPERONE (USDA) □ AZEPERONE □ EUCALMYL □ FLUOPERIDOL □ 1-(3-(4-FLUOROBENZOYL)PROPYL)-4-(2-PYRIDYL)PIPERAZINE □ 1-(4-FLUOROPHENYL)-4-(4-(2-PYRIDINYL)-1-PIPERAZINYL)-1-BUTANONE □ R 1929 □ STRESNIL □ SUICALM

TOXICITY DATA with REFERENCE:

orl-rat LD50:245 mg/kg ARZNAD 24,1798,74
 scu-rat LD50:450 mg/kg ARZNAD 24,1798,74
 ivn-rat LD50:25 mg/kg 27ZQAG -,185,72
 orl-mus LD50:385 mg/kg ARZNAD 24,1798,74
 ipr-mus LD50:63 mg/kg FRPSAX 35,605,80
 scu-mus LD50:179 mg/kg 27ZQAG -,185,72
 ivn-mus LD50:42 mg/kg ARZNAD 24,1798,74

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

FLV000 CAS: 2266-22-0 HR: 3
4'-FLUORO-4-(n-(4-PYRROLIDINAMIDO)-4-m-TOLYPIPERIDINO)BUTYROPHENONE

mf: C₂₇H₃₃FN₂O₂ mw: 436.62

SYNS: MEPERIDIDE □ METHYLPERIDIDE

TOXICITY DATA with REFERENCE:

scu-rat LD50:275 mg/kg 27ZQAG -,191,72
 ivn-rat LD50:9300 µg/kg 27ZQAG -,191,72
 scu-mus LD50:140 mg/kg 27ZQAG -,191,72
 ivn-mus LD50:14 mg/kg 27ZQAG -,191,72

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

FLV050 CAS: 91524-15-1 HR: 2
6-FLUORO-7-(1-PYRROLYL)-1-ETHYL-1,4-DIHYDRO-4-OXO-3-QUINOLINE-CARBOXYLIC ACID

mf: C₁₆H₁₃FN₂O₃ mw: 300.31

SYNS: 1,4-DIHYDRO-1-ETHYL-6-FLUORO-4-OXO-7-(1H-PYRROL-1-YL)-3-QUINOLINECARBOXYLIC ACID □ E 3432 □ 6-FLUORIN-7-(PYRROL-1-YL)-1-ETHYL-1,4-DIHYDRO-4-

OXOCHINOLON-3-CARBONSAEUE □ IRLOXACIN □ PIRFLOXACIN □ 3-QUINOLINECARBOXYLIC ACID, 1,4-DIHYDRO-1-ETHYL-6-FLUORO-4-OXO-7-(1H-PYRROL-1-YL)-

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg ARZNAD 49,448,1999
 ipr-rat LD50:>2 g/kg ARZNAD 49,448,1999
 orl-mus LDLo:5 g/kg ARZNAD 49,448,1999
 ipr-mus LDLo:2 g/kg ARZNAD 49,448,1999

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x and F⁻.

FLV060 CAS: 394-69-4 HR: D
5-FLUOROQUINOLINE

mf: C₉H₆FN mw: 147.16

SYN: QUINOLINE, 5-FLUORO-

TOXICITY DATA with REFERENCE:

mic-sat 2 µmol/plate CPBTAL 36,4630,1988
 mic-sat 500 nmol/plate MUREAV 439,149,1999
 dns-rat-lvr 100 µmol/L CRNGDP 12,217,1991
 msc-ipr-mus 200 mg/kg/4D-C MUREAV 414,165,1998

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

FLV070 CAS: 396-32-7 HR: D
7-FLUOROQUINOLINE

mf: C₉H₆FN mw: 147.16

SYN: QUINOLINE, 7-FLUORO-

TOXICITY DATA with REFERENCE:

mic-sat 20 µLg/plate CRNGDP 12,217,1991
 mic-sat 1 µmol/plate MUREAV 439,149,1999
 dns-rat-lvr 500 µmol/L CRNGDP 12,217,1991

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

FLV100 CAS: 2374-14-3 HR: 1
FLUROSILICONE TRIMER

mf: C₁₂H₂₁F₉O₃Si₃ mw: 468.60

SYNS: CYCLOTTRISILOXANE, 2,4,6-TRIMETHYL-2,4,6-TRIS(3,3,3-TRIFLUOROPROPYL)- □ 2,4,6-TRIMETHYL-2,4,6-TRIS(3,3,3-TRIFLUOROPROPYL)CYCLOTTRISILOXANE □ 1,3,5-TRIS(TRIFLUOROPROPYL)TRIMETHYLCYCLOTTRISILOXANE

TOXICITY DATA with REFERENCE:

skn-rbt TDLo:4200 mg/kg/21D-I DCTODJ 5,415,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by skin contact. When heated to decomposition it emits toxic vapors of F⁻.

FLY000 CAS: 10010-36-3 HR: 2
4'-FLUORO-4-STILBENAMINE

mf: C₁₄H₁₂FN mw: 213.27

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES.

FLY100**HR: 3****FLUOROSULFONATES**

SAFETY PROFILE: Probably highly toxic, as they are salts of a strong acid. Probably strong irritants to the eyes, skin, and mucous membranes. They react with water or steam to produce toxic and corrosive fumes. When heated to decomposition they emit toxic fumes of F^- and SO_x . See also specific compounds.

FLY200**CAS: 2489-52-3****HR: 3****m-FLUOROSULFONYLBENZENESULFONYL CHLORIDE**mf: $C_6H_4ClFO_4S_2$ mw: 258.67**SYNS:** BENZENE-1,3-DISULFONYL CHLORIDE FLUORIDE □ BENZENESULFONYL CHLORIDE, m-(FLUOROSULFONYL)-**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#04699

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FLZ000**CAS: 7789-21-1****HR: 3****FLUOROSULFURIC ACID****DOT:** UN 1777mf: FHO_3S mw: 100.07

PROP: Colorless, fumes in moist air; highly corrosive liquid. Mp: -89° , bp: 163° , d: 1.726 @ 20° . Sol in HOAc, $PhNO_2$, Et_2O ; insol in CCl_4 , CS_2 .

SYNS: FLUOROSULFONIC ACID (DOT) □ FLUOSULFONIC ACID (DOT)**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**OSHA PEL:** TWA 2.5 mg(F)/ m^3

ACGIH TLV: TWA 2.5 mg(F)/ m^3 ; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.

NIOSH REL: (Inorganic Fluorides) TWA 2.5 mg(F)/ m^3 **DOT CLASSIFICATION:** 8; Label: Corrosive

SAFETY PROFILE: Probably a poison by inhalation. A corrosive irritant to the skin, eyes, and mucous membranes. See also FLUORIDES, SULFURIC ACID, and FLUOROSULFONATES.

FLZ025**CAS: 22729-75-5****HR: 1****N-(2-FLUORO-1,1,2,2-TETRACHLOROETHYLTHIO)-METHANESULFOANILIDE**mf: $C_9H_8Cl_4FNO_2S_2$ mw: 387.10

SYNS: ARBOREN F 11 □ METHANESULFONANILIDE, N-((TETRACHLORO-2-FLUOROETHYL)THIO)- □ METHANESULFONAMIDE, N-PHENYL-N-((1,1,2,2-TETRACHLORO-2-FLUOROETHYL)THIO)- □ METHANESULFONAMIDE, N-((1,1,2,2-TETRACHLORO-2-FLUOROETHYL)THIO)- □ R-10044 □ STAUFFER R 10044 □ N-((TETRACHLORO-2-FLUOROETHYL)THIO)METHANESULFOANILIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 g/kg BESAAT 15,131,1969

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

FLZ050**CAS: 17902-23-7****HR: 3****5-FLUORO-1-(TETRAHYDROFURAN-2-YL)-URACIL**mf: $C_8H_9FN_2O_3$ mw: 200.19

SYNS: CARZONAL □ CITOFUR □ COPAROGIN □ EXONAL □ FENTAL □ F-5-FU □ FLUOROFUR □ 5-FLUORO-1-(TETRAHYDRO-2-FURANYL)-2,4-PYRIMIDINEDIONE □ 5-FLUORO-1-(TETRAHYDRO-2-FURANYL)-2,4(1H,3H)-PYRIMIDINEDIONE □ 5-FLUORO-1-(TETRAHYDRO-3-FURYL)URACIL □ FRANROZE □ FTORAFUR □ FULAUD □ FULFEEL □ FURAFUR □ FUFUFUTRAN □ FUTRAFUL □ LAMAR □ LIFRIL □ MJF-12264 □ NEBERK □ NITOBANIL □ NSC-148958 □ PYRIMIDINE-DEOXYRIBOSE N1-2'-FURANIDYL-5-FLUOROURACIL □ RIOL □ SINOFLUROL □ SUNFRAL □ TEFSIEL C □ TEGAFUR □ 1-(TETRAHYDROFURAN-2-YL)-5-FLUOROURACIL □ N¹-(2-TETRAHYDROFURYL)-5-FLUOROURACIL □ THFU

TOXICITY DATA with REFERENCE:

slt-dmg-mul 10 mg/L TAKHAA 44,96,85

dns-hmn:fbr 1 g/L STBIBN 78,165,80

orl-man TDLo:11,046 mg/kg/4.7Y-C:CAR,GIT ARSUAX 118,1454,83

ivn-hmn LDLo:640 mg/kg/8D CANCAR 36,103,75

ivn-hmn TDLo:23 mg/kg:CNS CANCAR 36,103,75

orl-rat LD50:930 mg/kg YACHDS 6,2911,78

ipr-rat LD50:700 mg/kg YACHDS 6,2911,78

scu-rat LD50:600 mg/kg YACHDS 6,2911,78

ivn-rat LD50:685 mg/kg GTKRDX 10,1987,83

orl-mus LD50:775 mg/kg YHTPAD 22,27,87

ipr-mus LD50:493 mg/kg NCISP* JAN86

scu-mus LD50:760 mg/kg OYYAA2 5,569,71

orl-dog LD50:34 mg/kg OYYAA2 20,1009,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. Moderately toxic to humans by intravenous route. Moderately toxic experimentally by intraperitoneal, intravenous, and subcutaneous routes. Experimental teratogenic data. Human systemic effects: nausea and vomiting. Experimental reproductive effects. Questionable human carcinogen producing gastrointestinal tumors. Human mutation data reported. Used as an anti-cancer agent. When heated to decomposition it emits very toxic fumes of F^- and NO_x .

FLZ065**CAS: 63901-83-7****HR: 2****5-FLUORO-3-(TETRAHYDRO-2-FURYL)URACIL**mf: $C_8H_9FN_2O_3$ mw: 200.19

SYNS: 3-FT □ 3-(2-TETRAHYDROFURYL)-5-FLUOROURACIL □ URACIL, 5-FLUORO-3-(TETRAHYDRO-2-FURYL)-

TOXICITY DATA with REFERENCE:

cyt-ham-fbr 10 nmol/L MUREAV 88,241,1981

orl-mus LD50:1021 mg/kg USXXAM #4650801

SAFETY PROFILE: Moderately toxic by ingestion.

Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and F^- .

FLZ075**CAS: 103361-09-7****HR: D****7-FLUORO-6-(3,4,5,6-TETRAHYDROPHthalimido)-4-(2-PROPYNYL)-1,4-BENZOXAZIN-3(2H)-ONE**mf: $C_{19}H_{15}FN_2O_4$ mw: 354.36

SYNS: FLUMIOXAZIN □ 1H-ISOINDOLE-1,3(2H)-DIONE, 4,5,6,7-TETRAHYDRO-2-(7-FLUORO-3,4-DIHYDRO-3-OXO-4-(2-PROPENYL)-2H-1,4-BENZOXAZIN-6-YL)- □ S 53482 □ SUMISOYA □ V 53482

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

FLZ080 CAS: 127697-56-7 HR: D
(Z)-p-(1-FLUORO-2-(5,6,7,8-TETRAHYDRO-5,5,8,8-TETRAMETHYL-2-NAPHTHYL)-1-PROPENYL)BENZOIC ACID

mf: C₂₄H₂₇FO₂ mw: 366.51

SYNS: BENZOIC ACID,4-(1-FLUORO-2-(5,6,7,8-TETRAHYDRO-5,5,8,8-TETRAMETHYL-2-NAPHTHALENYL)-1-PROPENYL)-, (Z)- □ SRI 5631-96

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

FLZ090 CAS: 124533-68-2 HR: 2
8-FLUORO-N-(2-(2-THIENYL)ETHYL)-4-QUINOLINAMINE

mf: C₁₅H₁₃FN₂S mw: 272.36

SYN: 4-QUINOLINAMINE, 8-FLUORO-N-(2-(2-THIENYL)-ETHYL)-

TOXICITY DATA with REFERENCE:

orl-mus LDLo:550 mg/kg NTIS** OTS0544044

SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Cl⁻.

FLZ100 CAS: 95-52-3 HR: 3
o-FLUOROTOLUENE

mf: C₇H₇F mw: 110.14

PROP: Colorless transparent liquid. Mp: -62°, bp: 113-114°, d: 1.001. Flash pt: 12° C.

SYNS: BENZENE, 1-FLUORO-2-METHYL-(9CI) □ 1-FLUORO-2-METHYLBENZENE □ 2-FLUOROTOLUENE □ TOLUENE, o-FLUORO-

TOXICITY DATA with REFERENCE:

orl-brd LD50:100 mg/kg AECTCV 12,355,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. A flammable liquid. When heated to decomposition it emits toxic vapors of F⁻.

FMC000 CAS: 352-32-9 HR: 3
p-FLUOROTOLUENE

mf: C₇H₇F mw: 110.14

PROP: Colorless liquid. D: 1.001, mp: -56°, bp: 116-117°, flash p: 50°F. Insol in water; sol in alc and ether.

TOXICITY DATA with REFERENCE:

par-mus LDLo:500 mg/kg 11FYAN 3,91,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by parenteral route. A very dangerous fire hazard when exposed to heat or flame; can react vigorously with oxidizing materials.

When heated to decomposition it emits toxic fumes of F⁻. See also FLUORIDES.

FME000 CAS: 1983-10-4 HR: 3
FLUOROTRIBUTYLSTANNANE

mf: C₁₂H₂₇FSn mw: 309.08

PROP: White solid. Mp: 250-257°.

SYNS: TRIBUTYLSTANNANE FLUORIDE □ TRIBUTYL TIN FLUORIDE

TOXICITY DATA with REFERENCE:

oth-ham:ovr 60 µg/L MUREAV 300,5,93

orl-mus LDLo:320 mg/kg AECTCV 14,111,85

orl-rbt LDLo:50 mg/kg SAIGBL 15,3,73

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

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

DFG MAK: 0.0021 ppm (0.05 mg/m³)

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

SAFETY PROFILE: Poison by ingestion. Many tributyl tin compounds are highly toxic to marine life. Mutation data reported. When heated to decomposition it emits toxic fumes of F⁻. See also TIN COMPOUNDS and FLUORIDES.

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

FMF000 CAS: 313-95-1 HR: 2
2-FLUOROTRICYCLOQUINAZOLINE

mf: C₂₁H₁₁FN₄ mw: 338.36

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and F⁻. See also FLUORIDES.

FMG000 CAS: 803-57-6 HR: 2
3-FLUOROTRICYCLOQUINAZOLINE

mf: C₂₁H₁₁FN₄ mw: 338.36

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES.

FMH000 CAS: 19982-87-7 HR: 3
4-FLUORO-4'-TRIFLUOROMETHYLBENZO-PHENONE GUAANYLHYDRAZONE HYDROCHLORIDE

mf: C₁₅H₁₂F₄N₄·ClH mw: 360.77

SYNS: FTBG □ WR 09792

TOXICITY DATA with REFERENCE:

orl-rat LD50:199 mg/kg TXAPA9 15,614,69

ipr-rat LD50:23 mg/kg TXAPA9 15,614,69

orl-mus LD50:114 mg/kg TXAPA9 15,614,69

ipr-mus LD50:12 mg/kg TXAPA9 15,614,69

orl-gpg LD50:132 mg/kg TXAPA9 15,614,69

ipr-gpg LD50:19 mg/kg TXAPA9 15,614,69

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

FMI000 CAS: 1840-42-2 HR: 3
FLUOROTRINITROMETHANE

mf: CFN₃O₆ mw: 169.04

PROP: D: 1.59 @ 20°, bp: 83–84°.

TOXICITY DATA with REFERENCE:

ipr-mus LD50:57,300 µg/kg KHFZAN 10(6),53,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Mixtures with nitrobenzene are liquid explosives. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES and NITRO COMPOUNDS.

FMJ000 CAS: 139-26-4 HR: 3
3-FLUOROTYROSINE

mf: C₉H₁₀FN₃O₃ mw: 199.20

SYNS: m-FLUOROTYROSINE □ 3-FLUOROTYROSINE □ FLUORTHYRIN □ 3-FLUORTYROSIN (GERMAN)

TOXICITY DATA with REFERENCE:

orl-man LDLo:143 mg/kg AEPPAE 183,427,36

scu-rat LDLo:12 mg/kg JPETAB 73,176,41

orl-mus LDLo:14 mg/kg AEPPAE 183,427,36

skn-mus LDLo:300 mg/kg AEPPAE 183,427,36

scu-mus LDLo:11 mg/kg AEPPAE 183,427,36

scu-gpg LDLo:8 mg/kg AEPPAE 183,427,36

SAFETY PROFILE: Human poison by ingestion. Experimental poison by ingestion, skin contact, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x. See also FLUORIDES.

FMM000 CAS: 51-21-8 HR: 3
FLUOROURACIL

mf: C₄H₃FN₂O₂ mw: 130.09

PROP: Crystals from H₂O. Mp: 282–283° (decomp).

SYNS: ADRUCIL □ ARUMEL □ CARZONAL □ EFFLUDERM (free base) □ EFUDEX □ EFUDIX □ 5-FLUORACIL (GERMAN) □ FLUOROBLASTIN □ FLUOROPLEX □ 5-FLUORO-2,4-PYRIMIDINEDIONE □ 5-FLUORO-2,4(1H,3H)-PYRIMIDINEDI-ONE □ 5-FLUOROURACIL □ 5-FLUOROPROPYRIMIDINE-2,4-DIONE □ 5-FLUOROURACIL (GERMAN) □ FLURACIL □ FLURI □ FLURIL □ 5-FU □ NSC-19893 □ RO 2-9757 □ TIMAZIN □ U-8953 □ ULUP

TOXICITY DATA with REFERENCE:

skn-hmn 84 mg/3W CTRRDO 63,619,79

dnr-bcs 300 µg/plate TAKHAA 44,96,85

dns-hmn:oth 1 mmol/L CNREA8 44,3414,84

orl-hmn TDLo:450 mg/kg/30D:GIT,BLD CANCAR 39,1936,77

ivn-hmn TDLo:6 mg/kg/3D:CVS,PUL BMJOAE 1,547,78

ivn-wmn TDLo:150 mg/kg/17W-I:BLD BJHEAL 65,357,87

ivn-man TDLo:39 mg/kg/1D-I:CVS AHJOA2 114,433,87

ivn-wmn TDLo:27 mg/kg/4D-C:CVS BMJOAE 294,125,87

orl-rat LD50:230 mg/kg IYKEDH 4,90,73

ipr-rat LD50:70 mg/kg OYYAA2 5,569,71

scu-rat LD50:217 mg/kg IYKEDH 4,90,73
 ivn-rat LD50:245 mg/kg OYYAA2 5,569,71
 par-rat LD50:500 mg/kg RRCRBU 52,76,75
 rec-rat LD50:884 mg/kg KSRNAM 12,1309,78
 orl-mus LD50:115 mg/kg JMCMA 21,738,78
 ipr-mus LD50:100 mg/kg EKEMA7 7,100,77
 scu-mus LD50:169 mg/kg IYKEDH 4,90,73
 ivn-mus LD50:81 mg/kg IYKEDH 4,90,73
 orl-dog LD50:30 mg/kg OYYAA2 16,303,78

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,210,87; Human Inadequate Evidence IMEMDT 26,217,81; Animal Inadequate Evidence IMEMDT 26,217,81. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. EPA Extremely Hazardous Substances List.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by parenteral and rectal routes. Experimental teratogenic and reproductive effects. Human systemic effects: EKG changes, bone marrow changes, cardiac, pulmonary, and gastrointestinal effects. Human mutation data reported. A human skin irritant. Questionable carcinogen. When heated to decomposition it emits very toxic fumes of F⁻ and NO_x.

FMN000 CAS: 316-46-1 HR: 3
5-FLUOROURIDINE

mf: C₉H₁₁FN₂O₆ mw: 262.22

SYNS: FUR □ 5-FUR

TOXICITY DATA with REFERENCE:

dns-hmn:hla 10 µmol/L BCPCA6 14,205,65

dni-mus-ipr 500 µmol/kg CNREA8 39,2406,79

ipr-rat LD50:400 mg/kg ADTEAS 3,181,68

ipr-mus LD50:160 mg/kg CNREA8 39,2406,79

scu-mus LD50:384 mg/kg CNCRA6 6,94,60

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

FMO000 CAS: 353-13-9 HR: 3
5-FLUOROVALERONITRILE

mf: C₅H₈FN mw: 101.14

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1 mg/kg JACSAT 78,3484,56

scu-mus LD50:1 mg/kg CLDND*

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

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. When heated to decomposition it emits very toxic fumes of F⁻, NO_x and CN⁻. See also FLUORIDES and NITRILES.

FMO050 HR: 1
FLUOSOL-DA 20%

TOXICITY DATA with REFERENCE:

ivn-rat LD50:128 g/kg KSRNAM 16,3899,82

ivn-mus LD50:128 g/kg KSRNAM 16,3899,82

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

FMO100 CAS: 671-35-2 HR: 3
FLUOXYDINEmf: $C_4H_3FN_2O$ mw: 114.09**SYNS:** 5-FLUORO-4(1H)-PYRIMIDINONE □ FLUOXIDINE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:118 mg/kg YHTPAD 15(6),7,80

ipr-mus LD50:72 mg/kg YHTPAD 15(6),7,80

ivn-mus LD50:1435 mg/kg YHTPAD 15(6),7,80

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by intravenous route. When heated to decomposition it emits toxic fumes of F^- and NO_x .**FMO129 CAS: 2709-56-0 HR: 3**
cis-(Z)-FLUPENTHIXOLmf: $C_{23}H_{25}F_3N_2OS$ mw: 434.56**SYNS:** EMERGIL □ FLUANXOL □ FLUPENTHIXOL □ (α,β)-FLUPENTHIXOL □ FLUPENTHIXOLE □ FLUPENTIXOL □ FLURENTIXOL □ FLUXANXOL □ LC 44 □ N 7009 □ SIPLARIL □ SIPLAROL □ 2-TRIFLUOROMETHYL-9-(3-(4-(β -HYDROXY-ETHYL)-1-PIPERAZINYL)PROPYLIDENE)THIOXANTHENE □ 4-(3-(2-(TRIFLUOROMETHYL)THIOXANTHEN-9-YLIDENE)-PROPYL)-1-PIPERAZINEETHANOL □ 4-(3-(2-(TRIFLUOROMETHYL)-9H-THIOXANTHEN-9-YLIDENE)PROPYL)-1-PIPERAZINEETHANOL**TOXICITY DATA with REFERENCE:**orl-chd TDLo:900 $\mu g/kg$; CNS DICPBB 15,388,81orl-hmn TDLo:367 $\mu g/kg$; 12D-I: CNS ARZNAD 22,93,72

orl-mus LD50:300 mg/kg JMCAR 23,878,80

ipr-mus LD50:150 mg/kg ARZNAD 27,2121,77

ivn-mus LD50:87 mg/kg APTOA6 41,369,77

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. Human systemic effects by ingestion: central nervous system effects. When heated to decomposition it emits very toxic fumes of F^- , NO_x , and SO_x .**FMO150 CAS: 2413-38-9 HR: 3**
FLUPENTHIXOL HYDROCHLORIDEmf: $C_{23}H_{25}F_3N_2OS \cdot 2ClH$ mw: 507.48**PROP:** White to off-white crystalline powder. Antipsychotic drug.**SYNS:** FLUPENTHIXOL DIHYDROCHLORIDE □ FX 703 □ N 7009 □ 4-(3-(2-(TRIFLUOROMETHYL)THIOXANTHEN-9-YLIDENE)PROPYL)-1-PIPERAZINEETHANOL DIHYDROCHLORIDE □ 4-(3-(2-(TRIFLUOROMETHYL)-THIOXANTH-9-YLIDENE)PROPYL)-1-PIPERAZINEETHANOL DIHYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:791 mg/kg NIIRDN 6,704,82

scu-rat LD50:258 mg/kg IYKEDH 4,90,73

ivn-rat LD50:37 mg/kg IYKEDH 4,90,73

orl-mus LD50:423 mg/kg IYKEDH 4,90,73

scu-mus LD50:425 mg/kg IYKEDH 4,90,73

ivn-mus LD50:94 mg/kg APTOA6 19,87,62

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of F^- , SO_x , NO_x , and HCl.**FMP000 CAS: 146-56-5 HR: 3**
FLUPHENAZINE DIHYDROCHLORIDEmf: $C_{22}H_{26}F_3N_3OS \cdot 2ClH$ mw: 510.49**PROP:** Crystals from EtOH. Mp: 235–237°.**SYNS:** A 4077 □ FLUPHENAZINE HYDROCHLORIDE □ 10-(3-(4-(2-HYDROXYETHYL)PIPERAZINYL)PROPYL)-2-TRIFLUOROMETHYLPHENOTHIAZINE DIHYDROCHLORIDE □ MODITEN □ PERMITIL HYDROCHLORIDE □ PROLIXIN □ SQUIBB 4918 □ 4-(3-(2-(TRIFLUOROMETHYL)PHENOTHIAZIN-10-YL)-PROPYL)-1-PIPERAZINEETHANOL, DIHYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

mnt-mus-orl 55 mg/kg MUREAV 89,237,81

cyt-mus-ipr 21,250 $\mu g/kg$ IRLCDZ 9,701,81orl-hmn TDLo:2800 $\mu g/kg$; 2W-C:MSK BMJOAE 2,1071,66

orl-mus LD50:220 mg/kg 27ZQAG -,24,72

ipr-mus LD50:89 mg/kg 27ZQAG -,24,72

ivn-mus LD50:56 mg/kg CSLNX* NX#00179

ipr-gpg LD50:299 mg/kg PHARAT 38,749,83

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. Moderately toxic by subcutaneous route. Human systemic effects by ingestion: musculo-skeletal changes. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl, SO_x , NO_x , and F^- .**FMP100 HR: 2**
FLUPIRTINE MALEATEmf: $C_{15}H_{17}FN_4O_2 \cdot C_4H_4O_4$ mw: 420.44**SYNS:** (2-AMINO-6-((4-FLUOROPHENYL)METHYL)AMINO)-3-PYRIDINYL)CARBAMIC ACID ETHYL ESTER MALEATE □ D 9998 MALEATE □ ETHYL-N-(2-AMINO-6-(4-FLUOROPHENYL)METHYLAMINO)PYRIDIN-3-YL)CARBAMATE MALEATE □ ETHYL-N-(2-AMINO-6-(4-FLUOROPHENYL)METHYLAMINO)PYRIDIN-3-YL)CARBAMAT MALEAT (GERMAN) □ FLUPIRTIN-MALEAT (GERMAN)**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1660 mg/kg ARZNAD 35,30,85

orl-mus LD50:603 mg/kg ARZNAD 35,30,85

scu-mus LD50:432 mg/kg ARZNAD 35,30,85

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of F^- and NO_x . See also ESTERS and CARBAMATES.**FMQ000 CAS: 17617-23-1 HR: 3**
FLURAZEPAMmf: $C_{21}H_{23}ClFN_3O$ mw: 387.92**PROP:** White rods from ether-pet ether. Mp: 77–82°.**SYNS:** 7-CHLORO-1-(2-(DIETHYLAMINO)ETHYL)-5-(2-FLUOROPHENYL)-1H-1,4-BENZODIAZEPIN-2(3H)-ONE □ FELMANE □ NOCTOSOM □ Ro-5-6901/3 □ STAURODERM**TOXICITY DATA with REFERENCE:**

orl-rat LD50:980 mg/kg OYYAA2 14,637,77

ipr-rat LD50:600 mg/kg OYYAA2 14,637,77

ivn-rat LD50:38,700 $\mu g/kg$ IYKEDH 6,530,75

orl-mus LD50:500 mg/kg THERAP 26,439,71

ipr-mus LD50:540 mg/kg OYYAA2 14,637,77

scu-mus LD50:3844 mg/kg OYYAA2 14,637,77

ivn-mus LD50:59,100 $\mu g/kg$ IYKEDH 6,530,75**SAFETY PROFILE:** Poison by intravenous routes. Moderately toxic by ingestion and subcutaneous routes. Experimental reproductive effects. Caution: May be habit-forming. This is a controlled substance (depressant) listed in the U.S. Code of Federal Regulations, Title 21 Part

1308.14. When heated to decomposition it emits very toxic fumes of Cl^- , F^- and NO_x . See also DIAZEPAM.

FMQ100 CAS: 36105-20-1 HR: 3
FLURAZEPAM MONOHYDROCHLORIDE

mf: $\text{C}_{21}\text{H}_{23}\text{ClFN}_3\text{O}\cdot\text{ClH}$ mw: 424.38

PROP: White or almost white crystalline powder.

Extremely sol in water.

TOXICITY DATA with REFERENCE:

orl-rat LD50:978 mg/kg KSRNAM 7,2820,73
 ipr-rat LD50:179 mg/kg KSRNAM 7,2820,73
 scu-rat LD50:859 mg/kg KSRNAM 7,2820,73
 ivn-rat LD50:40 mg/kg KSRNAM 7,2820,73
 orl-mus LD50:684 mg/kg KSRNAM 7,2820,73
 ipr-mus LD50:205 mg/kg OYYAA2 7,381,73
 scu-mus LD50:598 mg/kg KSRNAM 7,2820,73
 ivn-mus LD50:58 mg/kg OYYAA2 7,381,73
 orl-rbt LD50:460 mg/kg KSRNAM 7,2820,73

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

FMQ200 CAS: 59756-60-4 HR: 1
FLURIDONE

mf: $\text{C}_{19}\text{H}_{14}\text{F}_3\text{NO}$ mw: 329.34

PROP: Pesticide.

SYNS: 1-METHYL-3-PHENYL-5-(3-(TRIFLUOROMETHYL)-PHENYL)-4(1H)-PYRIDINONE □ PRIDE □ 4(1H)-PYRIDINONE, 1-METHYL-3-PHENYL-5-(3-(TRIFLUOROMETHYL)PHENYL)- □ SONAR

TOXICITY DATA with REFERENCE:

orl-rat LD50:>10 g/kg PEMNDP 9,418,91
 orl-mus LD50:>10 g/kg PEMNDP 9,418,91
 orl-dog LD50:>500 mg/kg PEMNDP 9,418,91
 orl-cat LD50:>250 mg/kg PEMNDP 9,418,91
 skn-rbt LD50:>500 mg/kg PEMNDP 9,418,91
 orl-qal LD50:>2 g/kg PEMNDP 9,418,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x , F^- , and Cl^- .

FMR050 CAS: 13311-84-7 HR: 3
FLUTAMIDE

mf: $\text{C}_{11}\text{H}_{11}\text{F}_3\text{N}_2\text{O}_3$ mw: 276.24

PROP: Crystals from benzene. Mp: 111.5–112.5°.

SYNS: DROGENIL □ FLUGERIL □ FUGEREL □ 2-METHYL-N-(4-NITRO-3-(TRIFLUOROMETHYL)PHENYL)PROPANAMIDE (9CI) □ NIFTHOLIDE □ NIFTOLIDE □ 4'-NITRO-3'-TRIFLUOROMETHYLISOBUTYRANILIDE □ SCH □ SCH 13521 □ SEBATROL □ α,α,α -TRIFLUORO-2-METHYL-4'-NITRO-m-PROPIONOTOLUIDIDE

TOXICITY DATA with REFERENCE:

dni-rat:lv 50 $\mu\text{mol/L}$ CRNGDP 13,373,92
 orl-man TDLo:310 mg/kg/31D-I AJPSAO 143,1498,86
 orl-rat LD50:787 mg/kg OYYAA2 45,135,93
 ipr-rat LD50:289 mg/kg OYYAA2 45,135,93

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Questional carcinogen with tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F^- and NO_x .

FMR075 CAS: 27060-91-9 HR: 2
FLUTAZOLAM

mf: $\text{C}_{19}\text{H}_{18}\text{ClFN}_2\text{O}_3$ mw: 376.84

PROP: Crystals from CH_2Cl_2 /hexane: mp: 183–184°. White prisms from toluene: mp: 142–147°. Freely sol in chloroform, ethanol; moderately sol in acetone, benzene, methanol, practically insol in water.

SYN: MS-4101

TOXICITY DATA with REFERENCE:

ipr-rat LD50:4050 mg/kg YACHDS 6,1997,78
 orl-mus LD50:1910 mg/kg YACHDS 6,2335,78
 ipr-mus LD50:1680 mg/kg YACHDS 6,1997,78

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of F^- , Cl^- , and NO_x .

FMR080 CAS: 16822-88-1 HR: 3
FLUTONIDINE HYDROCHLORIDE

mf: $\text{C}_{10}\text{H}_{12}\text{FN}_3\cdot\text{ClH}$ mw: 229.71

SYNS: 2-(5-FLUORO-o-TOLUIDINO)-2-IMIDAZOLINE HYDROCHLORIDE □ 2-IMIDAZOLINE, 2-(5-FLUORO-o-TOLUIDINO)-, MONOHYDROCHLORIDE □ 1H-IMIDAZOL-2-AMINE, 4,5-DIHYDRO-N-(5-FLUORO-2-METHYLPHENYL)-, MONOHYDROCHLORIDE (9CI) □ 2-(2-METHYL-5-FLUOROPHENYLAMINO)-2-IMIDAZOLINE HYDROCHLORIDE □ ST 600-CL

TOXICITY DATA with REFERENCE:

ivn-rat LD50:47 mg/kg JTSCDR 11,67,1986
 ivn-mus LD50:31 mg/kg ARZNAD 25,786,1975

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

FMR100 CAS: 25967-29-7 HR: 2
FLUTOPRAZEPAM

mf: $\text{C}_{19}\text{H}_{16}\text{ClFN}_2\text{O}$ mw: 342.82

PROP: Crystals. Mp: 86–88°.

SYNS: 7-CHLORO-1-CYCLOPROPYLMETHYL-1,3-DIHYDRO-5-(2-FLUOROPHENYL)-2H-1,4-BENZODIAZEPIN-2-ONE □ KB-509 □ RESTAS

TOXICITY DATA with REFERENCE:

orl-rat LD50:10,060 mg/kg OYYAA2 20,1055,80
 ipr-rat LD50:2230 mg/kg OYYAA2 20,1055,80
 orl-mus LD50:2430 mg/kg OYYAA2 20,1055,80
 ipr-mus LD50:2110 mg/kg OYYAA2 20,1055,80
 orl-rbt LD50:1000 mg/kg OYYAA2 20,1055,80

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of F^- , Cl^- , and NO_x . See also DIAZEPAM.

FMR200 CAS: 76674-21-0 HR: 3

FLUTRIAFOLmf: C₁₆H₁₃F₂N₃O mw: 301.32**PROP:** Fungicide.**SYNS:** α-(2-FLUOROPHENYL)-α-(4-FLUOROPHENYL)-1H-1,2,4-TRIAZOLE-1-ETHANOL □ FLUTRIAFEN □ IMPACT □ PP 450 □ R 152450 □ 1H-1,2,4-TRIAZOLE-1-ETHANOL, α-(2-FLUOROPHENYL)-α-(4-FLUOROPHENYL)-**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1140 mg/kg PEMNDP 9,427,91

skn-rat LD50:>1 g/kg PEMNDP 9,427,91

orl-mus LD50:179 mg/kg DOVEAA 38,77,84

orl-rbt LD50:200 mg/kg DOVEAA 38,77,84

skn-rbt LD50:>2 g/kg PEMNDP 9,427,91

orl-gpg LD50:200 mg/kg DOVEAA 38,77,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** A poison by ingestion.Moderately toxic by skin contact. When heated to decomposition it emits toxic vapors of NO_x and F⁻.**FMR300 CAS: 63516-07-4 HR: 3
FLUTROPIUM BROMIDE HYDRATE**mf: C₂₄H₂₉FNO₃•Br•H₂O mw: 496.47**SYNS:** 8-AZONIABICYCLO(3.2.1)OCTANE, 8-(2-FLUOROETHYL)-3-((HYDROXYDIPHENYLACETYL)OXY)-8-METHYL-, BROMIDE, (endo,syn)-, MONOHYDRATE □ Ba 598 BROMIDE HYDRATE □ (8R)-8-(2-FLUOROETHYL)-3-α-HYDROXY-1-α-H,5-α-H-TROPANUM BROMIDE BENZILATE H₂O**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2900 mg/kg KSRNAM 20,8123,86

ipr-rat LD50:77 mg/kg KSRNAM 20,8123,86

scu-rat LD50:615 mg/kg KSRNAM 20,8123,86

ivn-rat LD50:12,500 µg/kg KSRNAM 20,8123,86

orl-mus LD50:930 mg/kg KSRNAM 20,8123,86

ipr-mus LD50:53 mg/kg KSRNAM 20,8123,86

scu-mus LD50:228 mg/kg KSRNAM 20,8123,86

ivn-mus LD50:12,500 µg/kg KSRNAM 20,8123,86

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x, Br⁻, and Cl⁻.**FMR500 CAS: 1391-62-4 HR: 2
FLUVOMYCIN****PROP:** Antibiotic.**SYNS:** EFSIOMYCIN □ RIOMYCIN □ VIVICIL**TOXICITY DATA with REFERENCE:**

scu-mus LD50:1250 mg/kg ANTCAO 3,765,53

ivn-mus LD50:1300 mg/kg ANTCAO 3,765,53

ims-mus LD50:750 mg/kg ANTCAO 3,765,53

SAFETY PROFILE: Moderately toxic by subcutaneous, intravenous, and intramuscular routes.**FMR550 CAS: 54739-18-3 HR: 3
FLUVOXAMINE**mf: C₁₅H₂₁F₃N₂O₂ mw: 318.34**SYN:** 1-PENTANONE, 5-METHOXY-1-(4-(TRIFLUOROMETHYL)PHENYL)-, o-(2-AMINOETHYL)OXIME, (E)-**TOXICITY DATA with REFERENCE:**

ipr-rat TDLo:60 mg/kg EJPHAZ 425,43,2001

SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and F⁻.**FMR575 CAS: 61718-82-9 HR: 3
FLUVOXAMINE MALEATE**mf: C₁₅H₂₁F₃N₂O₂•C₄H₄O₄ mw: 434.46**SYNS:** AVOKSIN □ AVOXIN □ DEPROMEL □ DU 23000 □

FAVERIN □ FEVARIN □ LUVOX □ 5-METHOXY-4'-TRIFLUOROMETHYLVALEROPHENONE (E)-o-2-

AMINOETHYLOXIME MONOMALEATE □ 1-PENTANONE, 5-METHOXY-1-(4-(TRIFLUOROMETHYL)PHENYL)-, o-(2-AMINOETHYL)OXIME,(E)-, (Z)-2-BUTENEDIOATE (1:1)

TOXICITY DATA with REFERENCE:

orl-hmn TDLo:64286 µg/kg:BAH JIMRBV 21,197,1993

orl-man TDLo:175 mg/kg/13W-I:BAH JAAPEE 38,942,1999

orl-wmn TDLo:10 mg/kg:GIT METOEV 1,411,1986

orl-rat LDLo:1500 mg/kg KSRNAM 28,419,1994

orl-mus LD50:1100 mg/kg JIMRBV 21,197,1993

orl-dog LD :>464 mg/kg YAKUD5 42,395,2000

ipr-mus TDLo:32 mg/kg EURNE* 11,145,2001

orl-mus TDLo:20 mg/kg EJPHAZ 420,33,2001

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. Human systemic effects. When heated to decomposition it emits toxic vapors of NO_x and F⁻.**FMR600 CAS: 88485-37-4 HR: 2
FLUXOFENIM**mf: C₁₂H₁₁ClF₃NO₃ mw: 309.69**PROP:** Herbicide.**SYNS:** BENZACETONITRILE □ CGA 133205 □ 1-(4-CHLOROPHENYL)-2,2,2-TRIFLUOROETHANONE o-(1,3-DIOXOLAN-2-YLMETHYL)OXIME □ CONCEP III □ o-(1,3-DIOXOLAN-2-YL METHYL)-2,2,2-TRIFLUORO-4'-CHLOROACETOPHENONEOXIME □ ETHANONE, 1-(4-CHLOROPHENYL)-2,2,2-TRIFLUORO-, o-(1,3-DIOXOLAN-2-YLMETHYL)OXIME**TOXICITY DATA with REFERENCE:**

orl-rat LD50:669 mg/kg FMCHA2 -,C79,91

ihl-rat LC50:1210 mg/m³/4H FMCHA2 -,C79,91

skn-rat LD50:1540 mg/kg PEMNDP 9,430,91

orl-rbt LD50:1544 mg/kg FMCHA2 -,C79,91

skn-rbt LD50:1544 mg/kg EPASR* 8EHQ-1190-1081

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion, inhalation, and skin contact routes. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Cl⁻.**FMR700 CAS: 76050-49-2 HR: 2
FOGARD****SYN:** FOGARD S**TOXICITY DATA with REFERENCE:**

ipr-mus TDLo:2600 µg/kg/39D-I:ETA PATHAB 73,707,81

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**FMS000 CAS: 8031-00-3 HR: 1
FOIN ABSOLUTE**

PROP: Found in several common fodder grasses, contains coumarin (FCTXAV 14,659,76).

SYNS: FOIN COUPE □ HAY ABSOLUTE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTXAV 14,777,76

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 COUMARIN.

FMS875 CAS: 370-14-9 HR: 3
FOLEDRIN

mf: C₁₀H₁₅NO mw: 165.26

PROP: Crystals from methanol; acrid, burning taste. Mp: 162–163°. Sltly sol in water. Sol in alc, ether; readily sol in dil acids.

SYNS: EPIFEN □ p-HYDROXY-N,α-DIMETHYLPHENETHYL-AMINE □ p-HYDROXYMETHAMPHETAMINE □ p-HYDROXY-N-METHYLBENZEDRINE □ β-(p-HYDROXYPHENYL)ISOPROP-
YLMETHYLAMINE □ α-(p-HYDROXYPHENYL)-β-METHYL-AMINOPROPANE □ 1-(p-HYDROXYPHENYL)-2-METHYL-AMINOPROPANE □ ISODRINE □ ISODRINUM □ KNOLL H75
□ p-(2-METHYLAMINOPROPYL)PHENOL □ N-METHYL-PAREDRI-
NE □ 1-(p-OXYPHENYL)-2-METHYLAMINOPROPAN (GERMAN) □ α-(p-OXYPHENYL)-β-METHYL AMINOPROPANE
□ PAREDRI-
NOL □ PHOLEDRINE □ PHOLETONE □ PRESSITAN □ PROMETHIN □ PROMETIN □ PULSOTYL □ STIMATONE □ SYMPROPAMIN □ SYNCORDAN □ TERAPINYL
□ VARITOL □ VERITAIN □ VERITOL

TOXICITY DATA with REFERENCE:

ipr-rat LD50:100 mg/kg AEPPAE 195,647,40

scu-rat LD50:400 mg/kg AIPTAK 159,442,66

ipr-mus LDLo:100 mg/kg AEPPAE 195,647,40

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

FMT000 CAS: 59-30-3 HR: 3
FOLIC ACID

mf: C₁₉H₁₉N₇O₆ mw: 441.45

PROP: A member of the vitamin B complex. Odorless orange-yellow needles or platelets from H₂O at pH 3. Sol in dilute alkali hydroxide and carbonate solns; sltly sol in water; insol in lipid solvents, acetone, alc, chloroform, ether.

SYNS: 1-N-(p-(((2-AMINO-4-HYDROXY-6-PTERIDINYL)-METHYL)AMINO)BENZOYL)GLUTAMIC ACID □ FOLACIN □ FOLATE □ FOLCYSTEINE □ NSC-3073 □ PTEGLU □ PTEROYLGLUTAMIC ACID □ PTEROYL-L-GLUTAMIC ACID □ PTEROYLMONOGLUTAMIC ACID □ PTEROYL-L-MONOGLUTAMIC ACID □ USAF CB-13 □ VITAMIN Bc □ VITAMIN M

TOXICITY DATA with REFERENCE:

dns-rat-ipr 150 mg/kg CNREA8 29,136,69

dns-mus-ipr 250 mg/kg CNREA8 29,136,69

par-rat TDLo:150 mg/kg (10D preg):TER FEPR7 23,292,64

orl-mus LD50:10 g/kg TXAPA9 23,537,72

ipr-mus LD50:85 mg/kg EXPEAM 41,72,85

scu-mus LDLo:200 mg/kg PSEBAA 71,544,49

ivn-mus LD50:282 mg/kg TXAPA9 23,537,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FMT100 CAS: 9002-68-0 HR: D
FOLLICLE-STIMULATING HORMONE
mw: 36,000

PROP: Solid. Soluble in water, 50% alc.

SYNS: ANTHROGON □ FERTINORM □ FOLLITROPIN □ FSH □ FSH-P □ HEBIN □ LUTEOANTINE □ MENOTROPHIN □ MENOTROPINS □ PROLAN B □ THYLAKENTRIN □ URINARY HEBIN

TOXICITY DATA with REFERENCE:

scu-rat TDLo:25 g/kg (female 1-10D post):REP

JPETAB 49,146,33

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

FMU000 CAS: 24600-36-0 HR: 3
FOMINOEN HYDROCHLORIDE

mf: C₂₁H₂₄ClN₃O₃•ClH mw: 438.39

PROP: A solid. Mp: 206–208° (decomp).

SYNS: 3'-CHLORO-α-(METHYL((MORPHOLINOCARBONYL)METHYL)AMINO)-o-BENZOTOLUIDIDE HYDROCHLORIDE □ 3'-CHLORO-α-(N-METHYL-N-((MORPHOLINOCARBONYL)METHYL)AMINO-METHYL)BENZANILIDE HYDROCHLORIDE □ 3'-CHLORO-2'-(N-METHYL-N-((MORPHOLINOCARBONYL)METHYL)-AMINOMETHYL)BENZANILIDE HYDROCHLORIDE □ NOLEPTAN □ OLEPTAN □ PB 89 CHLORIDE □ PB-89 HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:1000 mg/kg IYKEDH 14,297,83

scu-rat LD50:11 g/kg IYKEDH 14,297,83

ivn-rat LD50:57 mg/kg IYKEDH 14,297,83

orl-mus LD50:2200 mg/kg ARZNAD 23,296,73

ipr-mus LD50:630 mg/kg ARZNAD 23,296,73

scu-mus LD50:1770 mg/kg OYYAA2 8,1491,74

ivn-mus LD50:130 mg/kg IYKEDH 14,297,83

orl-dog LD50:3300 mg/kg IYKEDH 14,297,83

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. Experimental teratogenic and reproductive effects. An antitussive. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

FMU039 CAS: 13115-40-7 HR: 3
FONAZINE MESYLATE

mf: C₁₉H₂₃N₃O₂S₂•CH₄O₃S mw: 487.70

SYNS: DIMETHIOTAZINE □ DIMETHOTHIAZINE MESYLATE □ DIMETHOTHIAZINE METHANESULFONATE □ IL-6302 MESYLATE □ MIGRISTENE □ PROMAQUID □ RP 8599 □ RP 8599 MESYLATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:740 mg/kg YAKUD5 22,1953,80

ipr-mus LD50:190 mg/kg YAKUD5 22,1953,80

scu-mus LD50:473 mg/kg YAKUD5 22,1953,80

ivn-mus LD50:61,500 µg/kg KSRNAM 5,325,71

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

FMU045 CAS: 944-22-9 HR: 3
FONOFOS

mf: C₁₀H₁₅OPS₂ mw: 246.34

PROP: Insecticide.

SYNS: O-AETHYL-S-PHENYL-AETHYL-DITHIOPHOSPHONAT (GERMAN) □ DIFONATE □ DYFONATE □ DYPHONATE □ ENT 25,796 □ O-ETHYL-S-PHENYL ETHYLDITHIOPHOSPHONATE □ O-ETHYL-S-PHENYL ETHYLPHOSPHONODITHIOATE □ N 2790 □ STAUFFER N 2790

TOXICITY DATA with REFERENCE:

orl-rat LD50:3 mg/kg WRPCA2 9,119,70
 ihl-rat LC50:1900 mg/m³/1H 85JFAN A214,83
 skn-rat LD50:147 mg/kg WRPCA2 9,119,70
 skn-rbt LD50:25 mg/kg FMCHA2 -D121,80
 skn-gpg LD50:278 mg/kg 28ZEAL 5,118,76
 orl-pgn LD50:13,300 µg/kg ASTTA8 (680),157,79
 orl-qal LD50:12 mg/kg EESADV 8,551,84

CONSENSUS REPORTS: EPA Genetic Toxicology Program. EPA Extremely Hazardous Substances List.

OSHA PEL: TWA 0.1 mg/m³ (skin)

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

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

FMU059 CAS: 2650-18-2 HR: 3
FOOD BLUE 1

mf: C₃₇H₃₆N₂O₉S₃•2H₃N mw: 783.01

PROP: Dark blue crystals or powder. Sol in H₂O.

SYNS: ACID BLUE 9 □ ACILAN TURQUOISE BLUE AE □ A.F. BLUE No. 1 □ AIZEN BRILLIANT BLUE FCF □ ALPHAZURINE □ AMACID BLUE FG CONC □ BLEU BRILLIANT FCF □ 11388 BLUE □ BRILLIANT BLUE □ BUCACID AZURE BLUE □ CALCOCID BLUE EG □ C.I. 671 □ C.I. 42090 □ C.I. ACID BLUE 9, DIAMMONIUM SALT □ C.I. DIRECT BROWN 78, DIAMMONIUM SALT □ C.I. FOOD BLUE 2 □ D&C BLUE No. 4 □ DISULPHINE LAKE BLUE EG □ EDICOL SUPRA BLUE E6 □ ERIOLAUCINE □ ERIOSKY BLUE □ FENAZO BLUE XR □ HIDACID AZURE BLUE □ H.K. FORMULA No. K. 7117 □ KITON PURE BLUE L □ MAPLE BRILLIANT BLUE FCF □ NEPTUNE BLUE BRA CONCENTRATION □ PATENT BLUE AE □ PEACOCK BLUE X-1756 □ SCHULTZ No. 770 □ TRIANTINE LIGHT BROWN 3RN □ XYLENE BLUE VSG

TOXICITY DATA with REFERENCE:

dns-rat:lv 200 µmol/L ENMUDM 7,101,85
 dns-rat-orl 500 mg/kg ENMUDM 7,101,85
 cyt-ham:fbr 5 g/L FCTOD7 22,623,84
 scu-rat TDLo:10 g/kg/77W-I:NEO TXAPA9 8,29,66
 ivn-hmn LDLo:33 µg/kg:CNS,PUL 34Z1AG -,87,69

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Human poison by intravenous route. Human systemic effects by intravenous route: muscle contractions or spasticity and dyspnea.

Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NH₃, NO_x, and SO_x.

FMU070 CAS: 3761-53-3 HR: 2
FOOD RED No. 101

mf: C₁₈H₁₄N₂O₇S₂•2Na mw: 480.44

PROP: Dark red crystals or powder. Sol in H₂O; sltly sol in EtOH and Me₂CO; insol in Et₂O and C₆H₆.

SYNS: ACETACID RED J □ ACIDAL PONCEAU G □ ACID LEATHER RED KPR □ ACID PONCEAU R □ ACID RED 26 □ ACID SCARLET □ ACILAN PONCEAU RRL □ AHCOCID FAST SCARLET R □ AIZEN PONCEAU RH □ AMACID LAKE SCARLET 2R □ BRILLIANT PONCEAU G □ CALCOCID 2RIL □ CALCOLAKE SCARLET 2R □ CERTICOL PONCEAU MXS □ CERVEN KYSELA 26 □ C.I. 79 □ C.I. 16150 □ C.I. ACID RED 26 □ C.I. ACID RED 26, DISODIUM SALT □ C.I. FOOD RED 5 □ COLACID PONCEAU SPECIAL □ D&C RED No. 5 □ 4-((2,4-DIMETHYLPHENYL)AZO)-3-HYDROXY-2,7-NAPHTHALENE-DISULFONIC ACID, DISODIUM SALT □ 4-((2,4-DIMETHYLPHENYL)AZO)-3-HYDROXY-2,7-NAPHTHALENEDISULFONIC ACID, DISODIUM SALT □ DISODIUM (2,4-DIMETHYLPHENYL-AZO)-2-HYDROXYNAPHTHALENE-3,6-DISULFONATE □ DISODIUM (2,4-DIMETHYLPHENYL-AZO)-2-HYDROXY-NAPHTHALENE-3,6-DISULFONATE □ DISODIUM SALT of 1-(2,4-XYLYLAZO)-2-NAPHTHOL-3,6-DISULFONIC ACID □ DISODIUM SALT of 1-(2,4-XYLYLAZO)-2-NAPHTHOL-3,6-DISULFONIC ACID □ EDICOL PONCEAU RS □ FENAZO SCARLET 2R □ HEXACOL PONCEAU MX □ HIDACID SCARLET 2R □ 3-HYDROXY-4-(2,4-XYLYLAZO)-3,7-NAPHTHALENEDISULFONIC ACID, DISODIUM SALT □ 3-HYDROXY-4-(2,4-XYLYLAZO)-3,7-NAPHTHALENEDISULPHONIC ACID, DISODIUM SALT □ JAVA PONCEAU 2R □ KITON PONCEAU R □ LAKE PONCEAU □ NAPHTHALENE LAKE SCARLET R □ NEKLACID RED RR □ NEW PONCEAU 4R □ PAPER RED HRR □ PIGMENT PONCEAU R □ PONCEAU BNA □ PONCEAU R (BIOLOGICAL STAIN) □ PONCEAU XYLIDINE (BIOLOGICAL STAIN) □ 1695 RED □ RED R □ SCARLET R □ SCHULTZ No. 95 □ TERTRACID PONCEAU 2R □ XYLIDINE PONCEAU □ 1-XYLYLAZO-2-NAPHTHOL-3,6-DISULFONIC ACID, DISODIUM SALT □ 1-XYLYLAZO-2-NAPHTHOL-3,6-DISULPHONIC ACID, DISODIUM SALT □ 1-(2,4-XYLYLAZO)-2-NAPHTHOL-3,6-DISULFONIC ACID, DISODIUM SALT

TOXICITY DATA with REFERENCE:

mma-sat 100 µg/plate CANCAR 49,1970,82
 oth-esc 300 µmol/L SKEZAP 12,298,71
 orl-mus TDLo:136 g/kg/81W-C:CAR FCTXAV 6,591,68
 ipr-mus LD50:2000 mg/kg FCTXAV 4,375,66

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 8,189,75. Reported in EPA TSCA Inventory.

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

FMU080 CAS: 2611-82-7 HR: 2
FOOD RED No. 102

mf: C₂₀H₁₄N₂O₁₀S₃•3Na mw: 607.51

SYNS: ACIDAL BRIGHT PONCEAU 3R □ ACID BRILLIANT SCARLET 3R □ ACID PONCEAU 4R □ ACID RED 18 □ ACID SCARLET 3R □ ACILAN SCARLET V3R □ AIZEN BRILLIANT SCARLET 3RH □ ATUL ACID SCARLET 3R □ BRILLIANT PONCEAU 3R □ BRILLIANT SCARLET □ BUCACID BRILLIANT SCARLET 3R □ CALCOCID BRILLIANT SCARLET 3RN □ CERTICOL PONCEAU 4RS □ CERVEN KOSENILOVA A □ CILEFA PONCEAU 4R □ COCCINE □ COCHENILLEROT A □ COCHINEAL RED A □ COLACID PONCEAU 4R □ C.I. 185 □ C.I. 16255 □ C.I. ACID RED 18 □ C.I. FOOD RED 7 □ CRIMSON SX □ CUROL BRIGHT RED 4R □ DAISHIKI BRILLIANT SCARLET 3R □ EDICOL SUPRA PONCEAU 4R □ EUROCERT COCHINEAL RED A □ FENAZO SCARLET 3R □ FOOD RED 6 □ FOOD RED 7 □ HD PONCEAU 4R □ HEXACOL PONCEAU 4R □ HIDACID FAST SCARLET 3R □ HISPACID BRILLIANT SCARLET 3RF □ JAVA SCARLET 3R □ KAYAKU ACID BRILLIANT SCARLET 3R □ KITON SCARLET 4R □ KOCHINEAL RED A FOR FOOD □ 1,3-NAPHTHALENEDISULFONIC ACID, 7-HYDROXY-8-((4-SULFO-1-NAPHTHYL)AZO)-, TRISODIUM SALT □ NAPHTHALENE INK SCARLET 4R □ NEKLACID RED 3R □ NEUCOCCIN □ NEW COCCIN □ PONCEAU 4R □ PONCEAU 4R ALUMINUM LAKE □ PONTACYL SCARLET RR □ PURPLE RED □ ROUGE de COCHENILLE A □ SAN-EI BRILLIANT SCARLET 3R □ STRAWBERRY RED A GEIGY □ SYMULON ACID BRILLIANT SCARLET 3R □ TAKAOKA BRILLIANT SCARLET 3R □ VICTORIA SCARLET 3R

TOXICITY DATA with REFERENCE:

cyt-ham:fbr 1 g/L FCTOD7 22,623,84
ipr-rat LD50:600 mg/kg FCTXAV 5,187,67
ivn-rat LD50:1 g/kg SCPHA4 47,39,79
unr-rat LD50:2 g/kg NAIZAM 30,179,79
orl-mus LDLo:8 g/kg SCPHA4 47,39,79
ipr-mus LD50:1600 mg/kg FCTXAV 5,187,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FMU100

HR: D

FOOD STARCH, MODIFIED

PROP: White powders; tasteless and odorless. Insol in water, alc, ether, chloroform.

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

FMU200

HR: 1

FOOL'S PARSLEY

PROP: A carrot-like plant 8 to 24 inches tall with leaves like parsley but with a garlic smell. It is native to Europe but grows wild in the northern United States and Canada.

SYNS: AETHUSA CYNAPIUM □ DOG PARSLEY □ DOG POISON □ FALSE PARSLEY □ FOOL'S CICELY □ LESSER HEMLOCK

SAFETY PROFILE: The whole plant contains a toxic mixture of unsaturated aliphatic alcohols, similar to cicutoxin, and traces of coniine. Human systemic effects by ingestion: nausea, vomiting, sweating and headache. See also CICUTOXIN and 2-PROPYLPIPERIDINE.

FMU225

CAS: 22514-23-4

HR: 3

FOPIRTOLINE HYDROCHLORIDE

mf: C₁₁H₁₅ClN₂OS•ClH mw: 295.25

SYNS: 4-(2-((6-CHLORO-2-PYRIDYL)THIO)ETHYL)MORPHOLINE MONOHYDRO-CHLORIDE □ D-1126 □ FOPIRTOLINA (SPANISH)

TOXICITY DATA with REFERENCE:

orl-rat LD50:768 mg/kg DRFUD4 7,806,82
orl-mus LD50:1513 mg/kg DRFUD4 7,806,82
ivn-mus LD50:140 mg/kg DRFUD4 7,806,82
orl-dog LD50:100 mg/kg DRFUD4 7,806,82

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

FMU300

CAS: 79538-32-2

HR: 3

FORCE

mf: C₁₇H₁₄ClF₇O₂ mw: 418.76

PROP: Pesticide.

SYNS: CYCLOPROPANECARBOXYLIC ACID, 3-(2-CHLORO-3,3,3-TRIFLUORO-1-PROPENYL)-2,2-DIMETHYL-, (2,3,5,6-TETRAFLUORO-4-METHYLPHENYL)METHYL ESTER, (1-α-3-α(Z))-(-)- □ FORZA □ PP993 □ TEFLUTHRIN □ TEFLUTHRINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:22 mg/kg PEMNDP 9,791,91
skn-rat LD50:148 mg/kg PEMNDP 9,791,91
orl-mus LD50:45 mg/kg PEMNDP 9,791,91
orl-dck LD50:4190 mg/kg PEMNDP 9,791,91

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FMU409

CAS: 3614-69-5

HR: 3

FORHISTAL MALEATE

mf: C₂₀H₂₄N₂•C₄H₄O₄ mw: 408.54

PROP: A solid. Mp: 159–161°.

SYNS: DIMETHINDENE MALEATE □ DIMETHINDEN MALEATE □ DIMETHPYRINDENE MALEATE □ N,N-DIMETHYL-3-(1-(2-PYRIDINYL)ETHYL)-1H-INDENE-2-ETHANAMINE (Z)-2-BUTENEDIOATE (1:1) □ DIMETINDENE MALEATE □ FENISTIL □ FENISTIL-RETARD □ FENOSTIL

TOXICITY DATA with REFERENCE:

orl-rat LD50:618 mg/kg NIIRDN 6,344,82
ivn-rat LD50:27 mg/kg MEIEDD 10,468,83
orl-gpg LD50:880 mg/kg NIIRDN 6,344,82

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

FMV000

CAS: 50-00-0

HR: 3

FORMALDEHYDE

DOT: UN 1198/UN 2209

mf: CH₂O mw: 30.03

PROP: Clear, water-white, very sltly acid gas or liquid; pungent odor. Pure formaldehyde is not available commercially because of its tendency to polymerize. It is sold as aqueous solns containing from 37 to 50% formaldehyde by weight and varying amounts of methanol. Some alcoholic solns are used industrially, and

the physical properties and hazards may be greatly influenced by the solvent. *l*el: 7.0%, *u*el: 73.0%, autoign temp: 806°F, *m*p: -92°, *d*: 1.083, *b*p: -21°, flash *p*: (37%, methanol-free) 185°F, flash *p*: (15%, methanol-free) 122°F. Sol in H₂O and most org solvs except pet ether. IDLH 20 ppm.

SYNS: ALDEHYDE FORMIQUE (FRENCH) □ ALDEIDE FORMICA (ITALIAN) □ BFV □ FA □ FANNOFORM □ FORMALDEHYD (CZECH, POLISH) □ FORMALDEHYDE, solution (DOT) □ FORMALIN □ FORMALIN 40 □ FORMALIN (DOT) □ FORMALINA (ITALIAN) □ FORMALINE (GERMAN) □ FORMALIN-LOESUNGEN (GERMAN) □ FORMALITH □ FORMIC ALDEHYDE □ FORMOL □ FYDE □ HOCH □ IVALON □ KARSAN □ LYSOFORM □ METHANAL □ METHYL ALDEHYDE □ METHYLENE GLYCOL □ METHYLENE OXIDE □ MORBOCID □ NCI-C02799 □ OPLOSSINGEN (DUTCH) □ OXOMETHANE □ OXYMETHYLENE □ PARAFORM □ POLYOXYMETHYLENE GLYCOLS □ RCRA WASTE NUMBER U122 □ SUPERLYSOFORM

TOXICITY DATA with REFERENCE:

skn-hmn 150 µg/3D-I MLD 85DKA8 -,127,77
eye-hmn 4 ppm/5M IAPWAR 4,79,61
eye-hmn 1 ppm/6M nse MLD AIHAAP 44,463,83
skn-rbt 2 mg/24H SEV 85JCAE -,264,86
skn-rbt 540 mg open MLD UCDS** 4/21/67
skn-rbt 50 mg/24H MOD TXAPA9 21,369,72
eye-rbt 750 µg/24H SEV 85JCAE -,264,86
eye-rbt 10 mg SEV TXAPA9 55,501,80
mma-sat 5 µL/plate BIMADU 6,129,85
dni-esc 5 mmol/L MUREAV 156,153,85
dnd-hmn:fbr 100 µmol/L ENMUDM 7,267,85
ihl-rat TCLo:14,300 ppb/6H/2Y-I:CAR CNREA8 43,4382,83
orl-wmn LDLo:108 mg/kg 29ZWAE -,328,68
ihl-hmn TCLo:17 mg/m³/30M:EYE,PUL JAMAAP 165,1908,57
ihl-man TCLo:300 µg/m³:NOSE,CNS GTPZAB 12(7),20,68
unr-man LDLo:477 mg/kg 85DCAI 2,73,70
orl-rat LD50:100 mg/kg FCTOD7 26,447,88
ihl-rat LC50:590 mg/m³ GISAAA 41(6),103,76
scu-rat LD50:420 mg/kg APTOA6 6,299,50
ivn-rat LD50:87 mg/kg AEPPAE 221,166,54
orl-mus LD50:42 mg/kg NTIS** AD-A125-539
ihl-mus LC50:400 mg/m³/2H 85GMAT -,69,82
ipr-mus LDLo:16 mg/kg TXAPA9 23,288,72
scu-mus LD50:300 mg/kg APTOA6 6,299,50
scu-dog LDLo:350 mg/kg IPSTB3 3,93,76
ihl-cat LCLo:400 mg/m³/2H 85GMAT -,69,82
skn-rbt LD50:270 mg/kg UCDS** 4/21/67
scu-rbt LDLo:240 mg/kg JAMAAP 62,984,14
orl-gpg LD50:260 mg/kg JIHTAB 23,259,41

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2A IMEMDT 7,211,87; Human Inadequate Evidence IMEMDT 29,345,82; Animal Sufficient Evidence IMEMDT 29,345,82. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory. EPA Extremely Hazardous Substances List.

OSHA PEL: TWA 0.75 ppm; STEL 2 ppm

ACGIH TLV: CL 0.3 ppm (sensitizer); Suspected Human Carcinogen

DFG MAK: 0.5 ppm (0.6 mg/m³); Confirmed Animal Carcinogen with Unknown Relevance to Humans
NIOSH REL: (Formaldehyde) Limit to lowest feasible level

DOT CLASSIFICATION: 9; Label: None (UN 2209); DOT Class: 3; Label: Flammable Liquid (UN 1198)

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Human poison by ingestion. Experimental poison by ingestion, skin contact, inhalation, intravenous, intraperitoneal, and subcutaneous routes. Human systemic effects by inhalation: lachrymation, olfactory changes, aggression, and pulmonary changes. Experimental reproductive effects. Human mutation data reported. A human skin and eye irritant. If swallowed it causes violent vomiting and diarrhea that can lead to collapse. Frequent or prolonged exposure can cause hypersensitivity leading to contact dermatitis, possibly of an eczematoid nature. An air concentration of 20 ppm is quickly irritating to eyes. A common air contaminant.

Flammable liquid when exposed to heat or flame; can react vigorously with oxidizers. A moderate explosion hazard when exposed to heat or flame. The gas is a more dangerous fire hazard than the vapor. Should formaldehyde be involved in a fire, irritating gaseous formaldehyde may be evolved. When aqueous formaldehyde solutions are heated above their flash points, a potential for an explosion hazard exists. High formaldehyde concentration or methanol content lowers the flash point. Reacts with sodium hydroxide to yield formic acid and hydrogen. Reacts with NO_x at about 180°; the reaction becomes explosive. Also reacts violently with perchloric acid + aniline, performic acid, nitromethane, magnesium carbonate, H₂O₂. Moderately dangerous because of irritating vapor that may exist in toxic concentrations locally if storage tank is ruptured. To fight fire, stop flow of gas (for pure form); alcohol foam for 37% methanol-free form. When heated to decomposition it emits acrid smoke and fumes. See also ALDEHYDES.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-102 or NIOSH: Formaldehyde (Oxazolidine), 2502; (Chromotropic Acid), 3500.

FMV050 CAS: 17003-79-1 HR: 2 FORMALDEHYDE BIS(2-FLUORO-2,2-DINITRO-ETHYL) ACETAL

mf: C₅H₆F₂N₄O₁₀ *mw*: 320.15

SYNS: BIS(2-FLUORO-2,2-DINITROETHOXY)METHANE □ BIS(2-FLUORO-2,2-DINITROETHYL) FORMAL □ ETHANE, 1,1'-(METHYLENEBIS(OXY))BIS(2-FLUORO-2,2-DINITRO- □ FEFO □ METHANE, BIS(2-FLUORO-2,2-DINITROETHOXY)- □ 1,1'-(METHYLENEBIS(OXY))BIS(2-FLUORO-2,2-DINITROETHANE)

TOXICITY DATA with REFERENCE:

orl-rat LD50:2400 mg/kg STGNBT-,31,1999
orl-mus LD50:600 mg/kg STGNBT-,31,1999

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

FMV100 CAS: 58567-11-6 HR: 1 FORMALDEHYDE CYCLODODECYL ETHYL ACETAL

mf: $C_{15}H_{30}O_2$ mw: 242.45

PROP: Fragrance ingredient.

SYNS: BOISAMBRENE FORTE □ CYCLODODECANE, (ETHOXYMETHOXY)- □ (ETHOXYMETHOXY)CYCLODODECANE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTOD7 26,325,88

skn-rbt LD50:>5 g/kg FCTOD7 26,325,88

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.

**FMV200 CAS: 42604-12-6 HR: 1
FORMALDEHYDE CYCLODODECYL METHYL ACETAL**

mf: $C_{14}H_{28}O_2$ mw: 228.42

SYNS: BOISAMBRENE □ CYCLODODECANE, (METHOXY-METHOXY)- □ (METHOXYMETHOXY)CYCLODODECANE

TOXICITY DATA with REFERENCE:

orl-rat LD50:>5 g/kg FCTOD7 26,327,88

skn-rbt LD50:>5 g/kg FCTOD7 26,327,88

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.

**FMV300 CAS: 2035-89-4 HR: 3
FORMALDEHYDE 2,2-DIMETHYLHYDRAZONE**

mf: $C_3H_8N_2$ mw: 72.13

SYNS: DIMETHYLMETHYLENEHYDRAZINE □ FORMALDEHYDE, DIMETHYLHYDRAZONE

TOXICITY DATA with REFERENCE:

ivn-rat LDLo:100 mg/kg TOXID9 3,157,83

ipr-mus LD50:239 mg/kg TOXID9 3,157,83

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

**FMW000 CAS: 149-44-0 HR: 2
FORMALDEHYDE HYDROSULFITE**

mf: $CH_4O_3S \cdot Na$ mw: 119.10

PROP: Crystals.

SYNS: ALDANIL □ DISCOLITE □ FORMALDEHYDE SODIUM BISULFITE ADDUCT □ FORMALDEHYDE SODIUM SULFOXYLATE □ FORMALDEHYDESULFOXYLIC ACID SODIUM SALT □ FORMOPAN □ HYDROLIT □ HYDROSULFITE AWC □ HYDROXYMETHANESULFINIC ACID SODIUM SALT □ RONGALIT □ RONGALITE C □ SODIUM FORMALDEHYDE SULFOXYLATE □ SODIUM HYDROXYMETHANESULFINATE □ SODIUM METHANALSULFOXYLATE □ SODIUM SULFOXYLATE FORMALDEHYDE

TOXICITY DATA with REFERENCE:

orl-mus LD50:4 g/kg YKYUA6 31,959,80

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

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

SO_x and Na_2O . See also FORMALDEHYDE and SULFITES.

**FMW300 HR: 3
FORMALDEHYDE OXIDE POLYMER**

mf: $(CH_2O_2)_n$

SAFETY PROFILE: A shock-sensitive explosive. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES.

**FMW330 CAS: 25214-70-4 HR: 1
FORMALDEHYDE, POLYMER with BENZENAMINE**

mf: $(C_6H_7N \cdot CH_2O)_x$

SYNS: AF 10 □ ANILINE-FORMALDEHYDE CONDENSATE □ ANILINE-FORMALDEHYDE POLYMER □ ANILINE, POLYMER with FORMALDEHYDE (8CI) □ FORMALDEHYDE-ANILINE COPOLYMER □ JEFFAMINE AP22 □ JEFFAMINE AP27 □ MDA 150 □ MDA 220 □ POLYAMINE T

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg open MLD UCDS** 7/16/65

orl-rat LD50:7460 mg/kg UCDS** 7/16/65

skn-rbt LD50:20 mg/kg UCDS** 7/16/65

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 toxic vapors of NO_x .

**FMW333 CAS: 9003-36-5 HR: 2
FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL**

mf: $(C_6H_6O \cdot C_3H_5ClO \cdot CH_2O)_x$

SYNS: 18EN □ EPIKOTE 155 □ ERRE 0100 □ PHENOL CONDENSATION PRODUCTS, WITH 1-CHLORO-2,3-EPOXYPROPANE AND FORMALDEHYDE □ XD 7230 □ XD 7855

TOXICITY DATA with REFERENCE:

skn-rbt 500 μ L/24H MLD NTIS** OTS0526023

orl-rat LD50:>2 g/kg NTIS** OTS0526023

skn-rat LD50:>400 mg/kg NTIS** OTS0526023

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

**FMW343 CAS: 30846-35-6 HR: 1
FORMALDEHYDE, POLYMER WITH 4-NONYLPHENOL AND OXIRANE**

mf: $(C_{15}H_{24}O \cdot C_2H_4O \cdot CH_2O)_x$

SYNS: ENERADE EB-7104 □ 4-NONYLPHENOL POLYMER WITH FORMALDEHYDE AND OXIRANE □ OXYALKYLATED NONYL PHENOLIC RESIN □ PHENOL, 4-NONYL-, POLYMER WITH FORMALDEHYDE AND OXIRANE

TOXICITY DATA with REFERENCE:

eye-rbt 100 μ L/24H MLD NTIS** OTS0534778

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

**FMW400 CAS: 75-17-2 HR: D
FORMALDOXIME**

mf: CH₃NO mw: 45.05**SYNS:** FORMALDEHYDE, OXIME □ FORMOXIME □ METHYLENEAMINE N-OXIDE**TOXICITY DATA with REFERENCE:**

mma-esc 10 μmol/plate MUREAV 164,263,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**FMX000 CAS: 541-66-2 HR: 3**
FORMAL-γ-TRIMETHYLAMMONIUM PROPANEDIOLmf: C₇H₁₆NO₂•I mw: 273.14**PROP:** Crystals. Mp: 158–160°.**SYNS:** DILVASENE □ ((1,3-DIOXOLAN-4-YL)METHYL)-TRIMETHYLAMMONIUM IODIDE □ 2249F □ OXAPROPANUM IODIDE □ N,N,N-TRIMETHYL-1,3-DIOXOLANE-4-METHAN-AMINIUM IODIDE □ VASODILATEUR 2249F**TOXICITY DATA with REFERENCE:**

scu-rat LDLo:25 mg/kg BSCIA3 26,516,44

orl-mus LDLo:300 mg/kg BSCIA3 26,516,44

scu-mus LDLo:35 mg/kg BSCIA3 26,516,44

ivn-mus LDLo:2500 μg/kg BSCIA3 26,516,44

scu-gpg LDLo:5 mg/kg BSCIA3 26,516,44

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x, NH₃, and I⁻.**FMY000 CAS: 75-12-7 HR: 3**
FORMAMIDEmf: CH₃NO mw: 45.05**PROP:** Colorless, odorless, hygroscopic, sltly viscous, oily liquid. Mp: 2.5°, fp: 2.6°, vap press: 29.7 mm @ 129.4°, flash p: 310°F (COC), bp: 70.5° @ 1 mm, d: 1.134 @ 20°/40°, 1.1292 @ 25°/4°. Misc in H₂O, MeOH; very sltly sol in Et₂O, C₆H₆; insol in CHCl₃, hexane.**SYNS:** CARBAMALDEHYDE □ METHANAMIDE**TOXICITY DATA with REFERENCE:**

eye-rbt 23 mg AJOPAA 29,1363,46

oms-nml:oth 500 mmol/L CAANAT 56,712,72

cyt-nml:oth 500 mmol/L CAANAT 56,712,72

orl-rat LD50:5570 mg/kg 85GMAT -,70,82

ipr-rat LD50:5700 mg/kg TXAPAA 26,596,73

orl-mus LD50:3150 mg/kg 85GMAT -,70,82

ipr-mus LD50:2450 mg/kg AEPPAE 230,559,57

ivn-dog LDLo:1500 mg/kg HBAMAK 4,1289,35

skn-rbt LDLo:6 mg/kg PJPPAA 32,223,80

ipr-gpg LD50:1250 mg/kg 85GMAT -,70,82

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**OSHA PEL:** TWA 20 ppm; STEL 30 ppm**ACGIH TLV:** TWA 10 ppm (skin)**SAFETY PROFILE:** Poison by skin contact and subcutaneous routes. Moderately toxic by ingestion, intraperitoneal, and intramuscular routes. An irritant to skin, eyes, and mucous membranes. Experimental teratogenic and reproductive effects. An eye irritant. Mutation data reported. Combustible when exposed to heat or flame; can react vigorously with oxidizingmaterials. Incompatible with I₂, pyridine, SO₃. When heated to decomposition it emits toxic fumes of NO_x. Has exploded while in storage.**FMY050 CAS: 51954-76-8 HR: D**
FORMAMIDE, 1-(((4-CHLOROPHENYL)-METHYL)SULFINYL)-N,N-DIETHYL-mf: C₁₂H₁₆ClNO₂S mw: 273.80**SYNS:** BENTHIOCARB SULFOXIDE □ 1-(((4-CHLORO-PHENYL)METHYL)SULFINYL)-N,N-DIETHYLFORMAMIDE □ THIOBENCARB SULFOXIDE**TOXICITY DATA with REFERENCE:**

mic-sat 300 μLg/plate JAFCAU 45,990,1997

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x, SO_x, and Cl⁻.**FMY100 CAS: 60029-23-4 HR: 2**
N-(1-FORMAMIDO-2,2,2-TRICHLOROETHYL)-MORFOLINmf: C₇H₁₁Cl₃N₂O₂ mw: 261.55**SYNS:** FORMAMIDE, N-(2,2,2-TRICHLORO-1-(MORPHO-LINYL)ETHYL)- □ TRIMORFAMID □ TRIMORFAMIDE □ TRIMORPHAMID □ TRIMORPHAMIDE □ VUAGT 866 □ VUAGT 866/72**TOXICITY DATA with REFERENCE:**

orl-rat LD50:990 mg/kg IAPUDO 31,677,80

skn-rat LD50:1455 mg/kg CEHYAN 25,179,80

ipr-rat LD50:1050 mg/kg CEHYAN 25,179,80

orl-mus LD50:1450 mg/kg CEHYAN 25,179,80

ipr-mus LD50:880 mg/kg CEHYAN 25,179,80

SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.**FMZ000 CAS: 4312-87-2 HR: 2**
FORMHYDROXAMIC ACIDmf: CH₃NO₂ mw: 61.05**PROP:** Waxy leaflets. Sol in H₂O, EtOH; sltly sol in Et₂O; insol in CHCl₃, ligroin, and C₆H₆.**SYNS:** FORMHYDROXAMSAEURE (GERMAN) □ N-FORMYLHYDROXYLAMINE**TOXICITY DATA with REFERENCE:**

scu-rat LD50:570 mg/kg APEPA2 257,296,67

SAFETY PROFILE: Moderately toxic by subcutaneous route. Experimental teratogenic effects. When heated to decomposition it emits toxic fumes of NO_x.**FNA000 CAS: 64-18-6 HR: 3**
FORMIC ACID**DOT:** UN 1779mf: CH₂O₂ mw: 46.03**PROP:** Colorless, fuming liquid; pungent, penetrating odor. Bp: 100.8°, fp: 8.2°, flash p: 156°F (OC), d: 1.220 @ 20°/4°, 1.220 @ 20°/4°, mp: 8.4°, autoign temp: 1114°F, vap press: 40 mm @ 24.0°, vap d: 1.59, flash p: (90% soln) 122°F, autoign temp: (90% soln) 813°F, lel: (90% soln) 18%, uel: (90% soln) 57%. Misc in H₂O, EtOH, Et₂O; mod sol in C₆H₆. IDLH 30 ppm.**SYNS:** ACIDE FORMIQUE (FRENCH) □ ACIDO FORMICO (ITALIAN) □ AMEISENSAEURE (GERMAN) □ AMINIC ACID □ FORMYLIC ACID □ HYDROGEN CARBOXYLIC ACID □ KWAS

METANIOWY (POLISH) □ METHANOIC ACID □ MIERENZUUR (DUTCH) □ RCRA WASTE NUMBER U123

TOXICITY DATA with REFERENCE:

skn-rbt 610 mg open MLD UCDS** 5/8/68
eye-rbt 122 mg SEV UCDS** 5/8/68
mmo-esc 70 ppm/3H AMNTA4 85,119,51
pic-esc 100 mmol/L MDMIAZ 31,11,79
sln-dmg-ihl 1000 ppm/24H THAGA6 39,330,69
oms-nml:oth 100 mmol/L CAANAT 56,712,72
ihl-man TCLO:7300 µg/m³/8H ARTODN 66,522,92
orl-wmn LDLo:2440 µg/kg AJEMEN 7,286,89
orl-rat LD50:1100 mg/kg GTPZAB 23(12),49,79
ihl-rat LC50:15 g/m³/15M GTPZAB 23(12),49,79
orl-mus LD50:700 mg/kg GTPZAB 23(12),49,79
ihl-mus LC50:6200 mg/m³/15M GTPZAB 23(12),49,79
ipr-mus LD50:940 mg/kg IGIBA5 11,507,62
ivn-mus LD50:145 mg/kg ZERNAL 9,332,69
orl-dog LD50:4000 mg/kg AMIHAB 20,517,59
ivn-dog LDLo:3000 mg/kg HBTXAC 1,146,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 5 ppm

ACGIH TLV: 5 ppm; STEL 10 ppm

DFG MAK: 5 ppm (9.5 mg/m³)

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by inhalation, intravenous, and intraperitoneal routes. Moderately toxic by ingestion. Mutation data reported. Corrosive. A skin and severe eye irritant. A substance migrating to food from packaging materials. Combustible liquid when exposed to heat or flame; can react vigorously with oxidizing materials. Explosive reaction with furfuryl alcohol, H₂O₂, Ti(NO₃)₃•3H₂O, nitromethane, P₂O₅. To fight fire, use CO₂, dry chemical, alcohol foam. When heated to decomposition it emits acrid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-112 or NIOSH: Formic Acid S173.

FNB000 CAS: 32852-21-4 HR: 2
FORMIC ACID (2-(4-METHYL-2-THIAZOLYL))-HYDRAZIDE

mf: C₅H₇N₃OS mw: 157.21

TOXICITY DATA with REFERENCE:

pic-esc 10 mg/L MUREAV 26,3,74

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

FNC000 CAS: 2142-94-1 HR: 1
FORMIC ACID, NERYL ESTER

mf: C₁₁H₁₈O₂ mw: 182.29

PROP: Cosmetic fragrance.

SYNS: 3,7-DIMETHYL-2,6-OCTADIEN-1-OL, FORMATE (cis) □ NERYL FORMATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD FCTXAV 14,627,76
orl-rat LD50:>5 g/kg FCTXAV 14,627,76

skn-rbt LD50:>5 g/kg FCTXAV 14,627,76

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 and FORMIC ACID.

FND100 CAS: 10176-39-3 HR: 3
FORMILOXINE

mf: C₄₆H₆₄O₁₉ mw: 921.10

SYNS: AC 2770 □ FORMILOXIN □ GITOFORMATE □ PENTAFORMYLGITOXIN

TOXICITY DATA with REFERENCE:

orl-mus LD50:2390 µg/kg AIPTAK 153,436,65
scu-mus LD50:2270 µg/kg AIPTAK 153,436,65
orl-gpg LDLo:1835 µg/kg AIPTAK 153,436,65
ivn-gpg LDLo:734 µg/kg AIPTAK 153,436,65

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

FNE000 CAS: 37032-15-8 HR: 2
FORMOCARBAM

mf: C₆H₁₄NO₄PS₂ mw: 259.30

PROP: Fungicide.

SYNS: O,O-DIMETHYL-S-((METHOXYMETHYL)CARBAMOYL)METHYL PHOSPHORODITHIOATE □ S-((METHOXYMETHYL-CARBAMOYL)METHYL) O,O-DIMETHYLPHOSPHORODITHIOATE □ S-(N-METHOXYMETHYL-CARBAMOYL-METHYL) DIMETHYL PHOSPHOROTHIOLATHIONONATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:600 mg/kg 28ZEAL 4,274,69
orl-mus LD50:450 mg/kg 28ZEAL 4,274,69

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

FNE100 CAS: 43229-80-7 HR: 3
FORMOTEROL FUMARATE DIHYDRATE

mf: C₁₉H₂₄N₂O₄•½C₄H₄O₄•2H₂O mw: 422.48

PROP: Crystals from 2-propanol (aq). Mp: 140°.

SYN: BD 40A

TOXICITY DATA with REFERENCE:

orl-rat LD50:3130 mg/kg OYYAA2 26,811,83
ipr-rat LD50:170 mg/kg OYYAA2 26,811,83
scu-rat LD50:1000 mg/kg OYYAA2 26,811,83
ivn-rat LD50:98 mg/kg OYYAA2 26,811,83
orl-mus LD50:6700 mg/kg OYYAA2 26,811,83
ipr-mus LD50:210 mg/kg OYYAA2 26,811,83
scu-mus LD50:640 mg/kg OYYAA2 26,811,83
ivn-mus LD50:71 mg/kg OYYAA2 26,811,83

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. Experimental teratogenic and reproductive effects. Used as a bronchodilator. When heated to decomposition it emits toxic fumes of NO_x.

FNE500 CAS: 17702-57-7 HR: 3
FORMPARANATE

mf: C₁₂H₁₇N₃O₂ mw: 235.32

PROP: Acaricide.

SYNS: N,N-DIMETHYL-N'-(2-METHYL-4-((METHYLAMINO)-CARBONYLOXY)PHENYL)METHANIMIDAMIDE □ ENT 27,305
□ SCHERING 36103 □ UC-25074

TOXICITY DATA with REFERENCE:

orl-mus LD50:16,600 µg/kg EJTXAZ 7,152,74

orl-rat LD50:7200 µg/kg ARSIM* 20,26,66

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.

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

FNF000 CAS: 104-06-3 HR: 2
4'-FORMYLACETANILIDE THIOSEMI-CARBAZONE

mf: C₁₀H₁₂N₄OS mw: 236.32

SYNS: p-ACETAMIDOBENZALDEHYDE THIOSEMICARBAZONE □ p-ACETAMINOBENZYLIDENE-THIOSEMICARBAZONE □ p-ACETYLAMINO BENZALDEHYDE THIOSEMICARBAZONE □ AKTIVAN □ AMBATHIZON □ N-(4-(((AMINOTHIOXOMETHYL)HYDRAZONO)METHYL)PHENYL)A CETAMIDE □ AMITHIOZONE □ AMITIOZON □ ANTIB □ BENTHIOZONE □ BENZOTHIOZANE □ BENZOTHIOZON □ BERCLON A □ BERKAZON □ CONTEBEN □ DIASAN □ DIAZAN □ DOMAGK'S T.B.1 CONTEBEN □ DOMAKOL □ ILBION □ LIVAZONE □ MAGK'S T.B.1 CONTEBEN □ MIVIZON □ MYVIZONE □ NEOTIBIL □ NEUSTAB □ NOVAKOL □ NUCLON ARGENTINIAN □ PANRONE □ PARAZONE □ RP 4207 □ SDT 1041 □ SERODEN □ SIOCARBAZONE □ SQ 2321 □ TB 1 (BAYER) □ TEBALON □ TEBECURE □ TEBEMAR □ TEBESONE I □ TEBETHIONE □ TEBEZON □ THIA CETAZONE □ THIBONE □ THIOACETAZ-ONE □ THIOCARBAZIL □ THIOICID □ THIONICID □ THIOPARAMIZONE □ THIOSEMICARBARZONE □ THIOSEMICARBAZONE (PHARMACEUTICAL) □ THIOTEBE-SIN □ THIZONE □ TIACETAZON □ TIBICUR □ TIBIONE □ TIBIZAN □ TIOACETAZON □ TIOCARONE □ TUBIGAL □ TUBIN

TOXICITY DATA with REFERENCE:

cyt-mus-orl 3300 µg/kg NULSAK 22,96,79

orl-mus LD50:950 mg/kg CRSBAW 144,1310,50

scu-mus LD50:1 g/kg JPPMAB 2,764,50

SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Mutation data reported. A tuberculostatic antibacterial agent. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

FNG000 CAS: 53757-30-5 HR: D
2-FORMYLAMINO-4-((2,5-NITRO-2-FURYL)-VINYL)-1,3-THIAZOLE

mf: C₁₀H₇N₃O₄S mw: 265.26

SYN: N-(4-(2-(5-NITRO-2-FURYL)VINYL)2-THIAZOLYL)-FORMAMIDE

TOXICITY DATA with REFERENCE:

mma-sat 100 ng/plate MUREAV 40,9,75

dnr-sat 500 nmol/well CNREA8 34,2266,74

mmo-esc 300 nmol/well CNREA8 34,2266,74

mrc-esc 500 nmol/well CNREA8 34,2266,74

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

FNJ000 CAS: 103-70-8 HR: 3
FORMYLANILINE

mf: C₇H₇NO mw: 121.15

PROP: Crystals. Mp: 50°, bp: 216° @ 120 mm.

SYNS: CARBANILALDEHYDE □ FORMAMIDOBENZENE □ FORMANILIDE □ N-FORMYLANILINE □ PHENYL FORMAMIDE □ N-PHENYLFORMAMIDE

TOXICITY DATA with REFERENCE:

orl-dog LDLo:400 mg/kg XPHBAO 271,19,41

ivn-dog LDLo:400 mg/kg XPHBAO 271,19,41

orl-frg LDLo:800 µg/kg XPHBAO 271,19,41

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FNK000 CAS: 63040-55-1 HR: 2
6-FORMYLANTHANTHRENE

mf: C₂₅H₁₄O mw: 330.39

SYN: DIBENZO(def,mno)CHRYSENE-12-CARBOXALDEHYDE

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

FNK010 CAS: 119-67-5 HR: 2
2-FORMYLBENZOIC ACID

mf: C₈H₆O₃ mw: 150.14

SYNS: BENZOIC ACID, 2-FORMYL-(9CI) □ o-CARBOXYBENZ-ALDEHYDE □ 2-CARBOXYBENZALDEHYDE □ o-FORMYLBENZOIC ACID □ PHTHALALDEHYDIC ACID

TOXICITY DATA with REFERENCE:

orl-rat LD50:7500 mg/kg JANTAJ 27,665,74

scu-rat LD50:2430 mg/kg JANTAJ 27,665,74

orl-mus LD50:4480 mg/kg JANTAJ 27,665,74

scu-mus LD50:1860 mg/kg JANTAJ 27,665,74

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FNK025 CAS: 100-50-5 HR: 3
4-FORMYLCYCLOHEXENE

DOT: UN 2498

mf: C₇H₁₀O mw: 110.17

PROP: Oil. Mp: -96.1°, bp: 163.5–164.5°.

SYNS: 3-CYCLOHEXENE-1-CARBOXALDEHYDE □ 1,2,3,6-TETRAHYDROBENZALDEHYDE (DOT) □ 1,2,5,6-TETRAHYDROBENZALDEHYDE

TOXICITY DATA with REFERENCE:

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

orl-rat LD50:2460 mg/kg AIHAAP 23,95,62

skn-rbt LD50:1770 mg/kg AIHAAP 23,95,62

ihl-rat LC50:2000 ppm/4H 85JCAE -,276,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and skin contact. Corrosive. An eye, skin, and mucous membrane irritant. Flammable liquid. When

heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

FNK033 CAS: 4494-26-2 HR: D
5-FORMYL-2'-DEOXYURIDINE

mf: $C_{10}H_{12}N_2O_6$ mw: 256.24

SYNS: 5-PYRIMIDINECARBOXALDEHYDE, 1,2,3,4-TETRAHYDRO-1-(2-DEOXY- β -D-RIBOFURANOSYL)-2,4-DIOXO-
 □ 5-FODURD □ 1,2,3,4-TETRAHYDRO-1-(2-DEOXY- β -D-RIBOFURANOSYL)-2,4-DIOXO-5-PYRIMIDINECARBOX-
 ALDEHYDE □ URIDINE, 2'-DEOXY-5-FORMYL-

TOXICITY DATA with REFERENCE:

mic-sat 1 μ mol/plate MUREAV 283,145,1992
 sce-hmn-lng 500 μ g/ MUREAV 117,317,1983
 dnd-esc 0.05 mmol/L/22H MUREAV 476,99,2001
 sce-esc 0.05 mmol/L/22H MUREAV 476,99,2001
 dnd-ham-fbr 0.03 mmol/L/3D TOLED5 119,71,2001

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

FNK040 CAS: 2454-11-7 HR: 3
FORMYLDIENOLONE

mf: $C_{21}H_{28}O_4$ mw: 344.49

PROP: Crystals from ethyl acetate. Mp: 209–212°. Sol in H_2O ; insol in pet ether and C_6H_6 .

SYNS: 11- α ,17- β -DIHYDROXY-17-METHYL-3-OXOANDROSTA-1,4-DIENE-2-CARBOXALDEHYDE □ ESICLENE □ FORMEBOL-
 ONE □ 2-FORMYL-11- α -HYDROXY- Δ^1 -METHYLTESTOST-
 ERONE □ 2-FORMYL-17- α -METHYLANDROSTA-1,4-DIENE-11-
 α ,17- β -DIOL-3-ONE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:104 mg/kg MEIEDD 10,606,83
 scu-rat LD50:270 mg/kg MEIEDD 10,606,83
 ipr-mus LD50:187 mg/kg MEIEDD 10,606,83
 scu-mus LD50:293 mg/kg MEIEDD 10,606,83

SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Used as an anabolic steroid. When heated to decomposition it emits acrid smoke and irritating fumes.

FNK050 HR: 3
3-FORMYL-DIGITOXIGENIN

mf: $C_{24}H_{34}O_5$ mw: 402.58

SYN: 3- β ,14-DIHYDROXY-5- β -CARD-20(22)-ENOLIDE-3-FORMATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:33,630 μ g/kg AIPTAK 153,436,65
 scu-mus LD50:16,600 μ g/kg AIPTAK 153,436,65
 ivn-gpg LDLo:7711 μ g/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.

FNK075 HR: 3
3-12-FORMYL-DIGOXIGENIN

mf: $C_{25}H_{34}O_7$ mw: 446.59

SYN: 3- β ,12- β ,14-TRIHYDROXY-5- β -CARD-20(22)-ENOLIDE-3,12-DIFORMATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:33,680 μ g/kg AIPTAK 153,436,65
 scu-mus LD50:19,420 μ g/kg AIPTAK 153,436,65
 ivn-gpg LDLo:4750 μ g/kg AIPTAK 153,436,65

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

FNK100 CAS: 69321-17-1 HR: D
3'-FORMYL-N,N-DIMETHYL-4-AMINOAZO-BENZENE

mf: $C_{15}H_{15}N_3O$ mw: 253.33

SYNS: 3-((4-(DIMETHYLAMINO)PHENYL)AZO)BENZ-
 ALDEHYDE □ 3-((p-DIMETHYLAMINO)PHENYL)AZO)-
 BENZALDEHYDE

TOXICITY DATA with REFERENCE:

mno-sat 1 μ mol/plate CRNGDP 4,1487,83
 mma-sat 1 μ mol/plate CRNGDP 1,121,80
 dns-rat:ivr 1 μ mol/L CNREA8 46,1654,86

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

FNK150 CAS: 564-94-3 HR: 3
2-FORMYL-6,6-DIMETHYLBICYCLO(3.1.1)HEPT-2-ENE

mf: $C_{10}H_{14}O$ mw: 150.24

PROP: Fragrance.

SYNS: BENIHINAL □ BICYCLO(3.1.1)HEPT-2-ENE-2-CARBOXALDEHYDE, 6,6-DIMETHYL- □ 6,6-DIMETHYL-BICYCLO(3.1.1)HEPT-2-ENE-2-CARBOXALDEHYDE □
 MYRTENAL □ 2-NORPINENE-2-CARBOXALDEHYDE, 6,6-DIMETHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:2300 mg/kg FCTOD7 26,329,88
 ivn-mus LD50:170 mg/kg FCTOD7 26,329,88
 skn-rbt LD50:>5 g/kg FCTOD7 26,329,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FNK200 CAS: 58243-85-9 HR: 2
FORMYLETHYLTETRAMETHYLTETRALIN

mf: $C_{17}H_{24}O$ mw: 244.41

PROP: Fragrance.

SYNS: 6-ETHYL-7-FORMYL-1,1,4,4-TETRAMETHYL-1,2,3,4-TETRAHYDRONAPHTHALENE □ FETT □ 5,6,7,8-TETRAHYDRO-3-ETHYL-5,5,8,8-TETRAMETHYL-2-NAPHTH-
 ALENECARBOXALDEHYDE □ TETRAMETHYLETHYL-FORMYLTETRALIN

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD FCTOD7 21,853,83
 eye-rbt 100 mg MLD FCTOD7 21,853,83
 orl-rat LD50:3200 mg/kg FCTOD7 21,853,83

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

FNL000 CAS: 18197-22-3 HR: D
N-FORMYLFORMAMIDE

mf: $C_2H_3NO_2$ mw: 73.06

PROP: Crystals from Et_2O . Mp: 41.5°, bp: 119° @ 12 mm.

SYNS: IMINOALDEHYDE □ IMINOBISFORMALDEHYDE

TOXICITY DATA with REFERENCE:

dnd-esc 250 µmol/L MUREAV 39,317,77

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.**FNM000 CAS: 621-59-0 HR: 2
5-FORMYLGUIACOL**mf: C₈H₈O₃ mw: 152.16**PROP:** Yellowish crystal powder. Mp: 113–115°.**SYNS:** 3-HYDROXY-p-ANISALDEHYDE □ 3-HYDROXY-4-METHOXYBENZALDEHYDE □ ISOVANILLIN □ ISOVANILLINE □ OXY-3-METHOXY-4 BENZALDEHYDE (FRENCH)**TOXICITY DATA with REFERENCE:**

sce-hmn:lyms 1500 µmol/L MUREAV 206,17,88

ipr-rat LD50:1276 mg/kg COREAF 243,609,56

ivn-dog LDLo:1470 mg/kg APFRAD 14,456,56

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by intraperitoneal and intravenous routes. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**FNN000 CAS: 624-84-0 HR: 3
FORMYLHYDRAZINE**mf: CH₄N₂O mw: 60.07**PROP:** Crystals from EtOH. Mp: 54°. Very sol in alc and ether; sol in benzene.**SYNS:** CARBAZALDEHYDE □ FORMAL HYDRAZINE □ FORMHYDRAZID (GERMAN) □ FORMHYDRAZIDE □ FORMIC ACID, HYDRAZIDE □ FORMIC HYDRAZIDE □ FORMOXYDRAZIDE □ FORMYLHYDRAZIDE □ N-FORMYLHYDRAZINE □ HYDRAZINECARBOXYALDEHYDE**TOXICITY DATA with REFERENCE:**

scu-rat LD50:120 mg/kg ARZNAD 18,645,68

ipr-mus LD50:65 mg/kg JPCAS 4,259,61

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal and subcutaneous routes. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also HYDRAZINE.**FNO000 CAS: 689-13-4 HR: 1
N-FORMYL-N-HYDROXYGLYCINE**mf: C₃H₅NO₄ mw: 119.09**PROP:** Unstable crystals from Me₂CO/pet ether. Mp: 119–120°.**SYNS:** ASYMMETRIN □ N-FORMYL HYDROXYAMINO-ACETIC ACID □ HADACIDIN □ HADACIDINE □ HADACIN □ NFHAA □ NSC-521778**TOXICITY DATA with REFERENCE:**

ipr-rat LDLo:5000 mg/kg ADTEAS 3,181,68

SAFETY PROFILE: Mildly toxic by intraperitoneal route. Experimental teratogenic effects. When heated to decomposition it emits toxic fumes of NO_x.**FNO100 CAS: 487-89-8 HR: 2
3-FORMYLINDOLE**mf: C₉H₇NO mw: 145.17**SYNS:** INDOLE-3-ALDEHYDE □ INDOLE-3-CARBALDEHYDE □ INDOLE-3-CARBOXYALDEHYDE □ 1H-INDOLE-3-CARBOXYALDEHYDE (9CI) □ β-INDOLYLALDEHYDE**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:600 mg/kg PCJOAU 6,33,72

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.**FNP000 CAS: 66409-98-1 HR: 3
N-FORMYLJERVINE**mf: C₂₈H₃₉NO₄ mw: 453.68**TOXICITY DATA with REFERENCE:**

orl-ham LDLo:85 mg/kg JAFCAU 26,564,78

SAFETY PROFILE: Poison by ingestion. Experimental teratogenic and reproductive effects.**FNQ000 CAS: 63040-58-4 HR: 2
6-FORMYL-12-METHYLANTHANTHRENE**mf: C₂₆H₁₆O mw: 344.42**SYN:** 6-METHYLDIBENZO(def,mno)CHRYSENE-12-CARBOXYALDEHYDE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.**FNR000 CAS: 2732-09-4 HR: 2
7-FORMYL-9-METHYLBENZ(c)ACRIDINE**mf: C₁₉H₁₃NO mw: 271.33**SYN:** 9-METHYLBENZ(c)ACRIDINE-7-CARBOXYALDEHYDE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**FNS000 CAS: 18936-78-2 HR: 2
7-FORMYL-11-METHYLBENZ(c)ACRIDINE**mf: C₁₉H₁₃NO mw: 271.33**SYN:** 11-METHYLBENZ(c)ACRIDINE-7-CARBOXYALDEHYDE**SAFETY PROFILE:** Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.**FNT000 CAS: 13345-61-4 HR: 2
7-FORMYL-12-METHYLBENZ(a)ANTHRACENE**mf: C₂₀H₁₄O mw: 270.34**SYN:** 12-METHYLBENZ(a)ANTHRACENE-7-CARBOXYALDEHYDE**TOXICITY DATA with REFERENCE:**

dni-omi 200 µg/L PNASA6 74,1378,77

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**FNU000 CAS: 63040-56-2 HR: 2
5-FORMYL-8-METHYL-3,4,9,10-DIBENZO-PYRENE**mf: C₂₆H₁₆O mw: 344.42

SYN: 8-METHYLBENZO(rst)PENTAPHENE-5-CARBOX-ALDEHYDE

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

FNV000 CAS: 63040-57-3 HR: 2
5-FORMYL-10-METHYL-3,4,8,9-DIBENZOPYRENE

mf: C₂₆H₁₆O mw: 344.42

SYN: 14-METHYLDIBENZO(b,def)CHRYSENE-7-CARBOX-ALDEHYDE

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

FNW000 CAS: 758-17-8 HR: 3
N-FORMYL-N-METHYLHYDRAZINE

mf: C₂H₆N₂O mw: 74.10

SYNS: FORMIC ACID, METHYLHYDRAZIDE □ 1-FORMYL-1-METHYLHYDRAZINE □ N-METHYL-N-FORMYLHYDRAZINE □ MFH

TOXICITY DATA with REFERENCE:

mmo-sat 100 μ mol/plate TXCYAC 26,155,83

mma-sat 100 μ mol/plate TXCYAC 26,155,83

orl-mus LD50:118 mg/kg TXAPA9 45,429,78

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

FNW100 CAS: 70441-84-8 HR: 3
2-FORMYL-2'-METHYL-1,1'-(OXYDIMETHYLENE)DIPYRIDINIUM, DICHLORIDE OXIME

mf: C₁₄H₁₇N₃O₂•2Cl mw: 330.24

SYNS: 2,2-MEDP □ PYRIDINIUM, 2-FORMYL-2'-METHYL-1,1'-(OXYDIMETHYLENE)DI-, DICHLORIDE, OXIME

TOXICITY DATA with REFERENCE:

ivn-rat LD50:54 mg/kg ARTODN 41,301,1979

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

FNX000 CAS: 4845-14-1 HR: 2
N-FORMYL-N-METHYL-p-(PHENYLAZO)-ANILINE

mf: C₁₄H₁₃N₃O mw: 239.30

SYN: 4-FORMYLMONOMETHYLAMINOAZOBENZENE

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

FNZ000 CAS: 51-15-0 HR: 3
2-FORMYL-1-METHYLPYRIDINIUM CHLORIDE OXIME

mf: C₇H₉N₂O•Cl mw: 172.63

PROP: Crystals from EtOH/Et₂O. Mp: 235–238° (decomp). Sol in H₂O.

SYNS: 2-FORMYL-N-METHYLPYRIDINIUM OXIME CHLORIDE □ 2-(HYDROXYIMINOMETHYL)-1-METHYLPYRIDINIUM CHLORIDE □ 1-METHYL-2-ALDOXIMINO-PYRIDINIUM CHLORIDE □ 1-METHYL-2-FORMYLPYRIDINIUM

CHLORIDE OXIME □ 1-METHYL-2-PYRIDINIUM ALDOXIME CHLORIDE □ N-METHYLPYRIDINIUM CHLORIDE-2-ALDOXIME □ 2-PAM CHLORIDE □ PRALDOXIME CHLORIDE □ PROTOPAM CHLORIDE □ 2-PYRIDINEALDOXIME CHLORIDE □ PYRIDINE-2-ALDOXIME METHOCHLORIDE □ 2-PYRIDINE ALDOXIME METHYL CHLORIDE □ PYRIDINIUM ALDOXIME METHOCHLORIDE

TOXICITY DATA with REFERENCE:

ivn-man TDLo:14 mg/kg;CNS,PUL 34ZIAG -,449,69

ivn-hmn TDLo:15 mg/kg;CVS AEHLAU 15,599,67

ivn-rat LD50:96 mg/kg TXAPA9 16,40,70

ims-rat LD50:150 mg/kg TXAPA9 16,40,70

orl-mus LD50:4100 mg/kg JPMSAE 53,1143,64

ipr-mus LD50:155 mg/kg ARZNAD 14,5,64

ivn-mus LD50:90 mg/kg ARZNAD 14,5,64

ims-mus LD50:100 mg/kg DCTODJ 8,431,85

ims-dog LD50:75 mg/kg FAATDF 4(2, Pt 2),S106,84

ivn-rbt LD50:95 mg/kg JPETAB 132,50,61

ims-gpg LD50:168 mg/kg TXAPA9 16,40,70

SAFETY PROFILE: Poison by intravenous, intramuscular, and intraperitoneal routes. Moderately toxic by ingestion. Human systemic effects by intravenous route: coma, blood pressure increase, bronchiolar constriction and cyanosis. Used as a cholinesterase reactivator. When heated to decomposition it emits very toxic fumes of Cl⁻ and NO_x.

FOA000 CAS: 7293-34-7 HR: 3
2-FORMYL-1-METHYL-PYRIDINIUM PERCHLORATE OXIME

mf: C₆H₆N₂O•ClO₄ mw: 221.59

SYN: PAM-PERCHLORAT (GERMAN)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg ARZNAD 14(1),5,64

ivn-mus LD50:165 mg/kg ARZNAD 14(1),5,64

ims-mus LD50:245 mg/kg ARZNAD 14(1),5,64

SAFETY PROFILE: Poison by intraperitoneal, intravenous and intramuscular routes. Many perchlorates are unstable. When heated to decomposition it emits very toxic fumes of NO_x and Cl⁻. See also PERCHLORATES.

FOA100 CAS: 4394-85-8 HR: 1
4-FORMYLMORPHOLINE

mf: C₅H₉NO₂ mw: 115.15

PROP: White crystals. Mp: 52–54°.

SYNS: N-FORMYLMORFOLIN □ N-FORMYLMORPHOLINE □ 4-MORPHOLINECARBOXALDEHYDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 85JCAE -,888,86

eye-rbt 500 mg/24H MLD 85JCAE -,888,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FOD000 CAS: 42540-40-9 HR: 2
(6R-(6- α ,7- β (R))) -7-(((FORMYLOXY)PHENYL-ACETYL)AMINO)-3-(((1-METHYL-1H-TETRAZOL-5-YL)THIO)METHYL)-8-EXO-5-THIA-1-AZABICYCLO(4.2.0)OCT-2-ENE-2-CARBOXYLIC ACID MONOSODIUM SALT

mf: C₁₉H₁₈N₆O₆S₂•Na mw: 513.54

PROP: Needles. Mp: 190° (decomp).

SYNS: CEFAMANDOLE NAFATE □ CEFAMANDOL NAFATO
□ CEPHAMANDOLE NAFATE □ O-FORMYLCEFAMANDOLE
SODIUM □ MANDOL

TOXICITY DATA with REFERENCE:

ivn-wmn TDLo:240 mg/kg/2D-I SMJOAV 78,1268,85
ivn-man TDLo:400 µg/kg/1W-I:SYS DICPBB 19,553,85
unr-wmn TDLo:408 mg/kg/4D-I:BLD AIMDAP
146,1125,86
unr-man TDLo:771 mg/kg/9D-I:BLD AIMDAP
146,1125,86
ivn-rat LD50:2562 mg/kg JIDIAQ 137,551,78
scu-mus LD50:7 g/kg JIDIAQ 137,551,78
ivn-mus LD50:3915 mg/kg JIDIAQ 137,551,78

SAFETY PROFILE: Moderately toxic by intravenous route. Human systemic effects: clotting factor change, jaundice, joints. When heated to decomposition it emits very toxic fumes of NO_x, Na₂O and SO_x.

FOE000 CAS: 17977-68-3 HR: 3
FORMYLOXYTRIBENZYLSTANNANE

mf: C₂₃H₂₄O₂Sn mw: 451.16

SYNS: (FORMYLOXY)TRIS(PHENYLMETHYL)STANNANE □
MRAVENCAN TRIBENZYLICINICITY (CZECH) □
TRIBENZYL TIN FORMATE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,232,72
eye-rbt 100 mg/24H MOD 28ZPAK -,232,72
orl-rat LD50:312 mg/kg 28ZPAK -,232,72

OSHA PEL: TWA 0.1 mg(Sn)/m³ (skin)

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

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

SAFETY PROFILE: Poison by ingestion. A skin and eye irritant. 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.

FOE100 CAS: 100-83-4 HR: D
m-FORMYLPHENOL

mf: C₇H₆O₂ mw: 122.13

PROP: Colorless powder.

SYNS: BENZALDEHYDE, m-HYDROXY- □ BENZALDEHYDE,
3-HYDROXY-(9CI) □ 3-FORMYLPHENOL □ m-HYDROXY-
BENZALDEHYDE □ meta-HYDROXYBENZALDEHYDE □ 3-
HYDROXYBENZALDEHYDE

TOXICITY DATA with REFERENCE:

sce-hmn:lyms 1 mmol/L MUREAV 206,17,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FOF000 CAS: 123-08-0 HR: 2
p-FORMYLPHENOL

mf: C₇H₆O₂ mw: 122.13

PROP: Needles from water. D: 1.129, mp: 115–116°, bp: sublimes.

SYNS: 4-FORMYLPHENOL □ p-HYDROXYBENZALDEHYDE
□ 4-HYDROXYBENZALDEHYDE □ p-OXYBENZALDEHYDE □
PARAHYDROXYBENZALDEHYDE □ USAF M-6

TOXICITY DATA with REFERENCE:

sce-hmn:lym 1 mmol/L MUREAV 206,17,88
ipr-mus LD50:500 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FOH000 CAS: 2591-86-8 HR: 3
1-FORMYLPIPERIDINE

mf: C₆H₁₁NO mw: 113.18

PROP: A liquid. Bp: 222°.

SYN: N-FORMYLPIPERIDIN (GERMAN)

TOXICITY DATA with REFERENCE:

scu-rbt LDLo:300 mg/kg BDCGAS 34,2408,01

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FOI000 CAS: 6804-07-5 HR: 2
**2-FORMYLQUINOXALINE-1,4-DIOXIDE CARBO-
METHOXYHYDRAZONE**

mf: C₁₁H₁₀N₄O₄ mw: 262.25

PROP: Minute yellow crystals. Mp: 239.5–240°. Insol in H₂O.

SYNS: CARBADOX (USDA) □ FORTIGRO □ GS 6244 □
MECADOX □ (2-QUINOXALINYLMETHYLENE)-
HYDRAZINECARBOXYLIC ACID METHYL ESTER-N,N'-
DIOXIDE

TOXICITY DATA with REFERENCE:

dns-hmn:oth 50 mg/L JTEHD6 10,143,82
mnt-mus-orl 100 mg/kg MUREAV 144,81,85
orl-rat LD50:850 mg/kg CKFRAY 30,26,81
orl-mus LD50:2810 mg/kg CKFRAY 30,26,81

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

FOI100 CAS: 79710-86-4 HR: 1
3-FORMYLTETRAHYDROFURAN

mf: C₅H₈O₂ mw: 100.13

SYNS: 3-FURALDEHYDE, TETRAHYDRO- □ 3-FURAN-
CARBOXALDEHYDE, TETRAHYDRO- □ TETRAHYDRO-3-
FURANCARBOXALDEHYDE

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL/24H MOD NTIS** OTS0559233

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

FOJ000 CAS: 2302-84-3 HR: 2
1-FORMYL-3-THIOSEMICARBAZIDE

mf: C₂H₅N₃OS mw: 119.16

PROP: Colorless free flowing powder.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FOJ025 CAS: 104-87-0 HR: 3
p-FORMYLTOLUENE

mf: C₈H₈O mw: 120.16

PROP: Clear colorless liquid.. Flash Pt: 80° C.

SYNS: BENZALDEHYDE, 4-METHYL- □ p-METHYL-BENZALDEHYDE □ 4-METHYLBENZALDEHYDE □ p-TOLUALDEHYDE (8CI) □ 4-TOLUALDEHYDE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD NTIS** OTS0533443

eye-rbt 100 mg MOD NTIS** OTS0533443

orl-rat LD50:1600 mg/kg NTIS** OTS0533443

ihl-rat LC :>2200 mg/m³ NTIS** OTS0533443

ipr-rat LD50:800 mg/kg NTIS** OTS0533443

orl-mus LD50:3200 mg/kg NTIS** OTS0533443

ipr-mus LD50:400 mg/kg NTIS** OTS0533443

SAFETY PROFILE: A poison by intraperitoneal. Moderately toxic by ingestion and inhalation. A skin irritant. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

FOJ033 CAS: 117823-31-1 HR: D
(Z)-3-FORMYL-2,4,4-TRICHLORO-2-BUTENOIC ACID

mf: C₅H₃Cl₃O₃ mw: 217.43

SYNS: 2-BUTENOIC ACID, 3-FORMYL-2,4,4-TRICHLORO-, (Z)- □ (Z)-2-CHLORO-3-(DICHLOROMETHYL)-4-OXOBUTENOIC ACID

TOXICITY DATA with REFERENCE:

mic-sat 10 ng/plate MUREAV 240,109,1990

mic-sat 50 ng/plate MUREAV 417,31,1998

uns-esc 0.0025 ng/tube MUREAV 240,109,1990

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

FOJ050 CAS: 3779-45-1 HR: 3
4-FORMYL-1-(3-(TRIETHYLAMMONIO)PROPYL)PYRIDINIUM DIBROMIDE OXIME

mf: C₁₅H₂₇N₃O•2Br mw: 425.27

SYN: PYRIDINIUM, 4-FORMYL-1-(3-(TRIETHYLAMMONIO)PROPYL)-, DIBROMIDE, OXIME

TOXICITY DATA with REFERENCE:

scu-mus LD :>20 mg/kg BJPCAL 14,186,59

SAFETY PROFILE: A poison by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x and Br⁻.

FOJ060 CAS: 1195-08-0 HR: D
5-FORMYLURACIL

mf: C₅H₄N₂O₃ mw: 140.10

SYNS: 5-FOU □ 5-PYRIMIDINECARBOXALDEHYDE, 1,2,3,4-TETRAHYDRO-2,4-DIOXO-

TOXICITY DATA with REFERENCE:

dnd-ham-fbr 5 mmol/L/3D TOLED5 119,71,2001

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

FOJ100 CAS: 71522-58-2 HR: 1
FORPHENICINOL

mf: C₉H₁₁NO₄ mw: 197.21

SYNS: BENZENEACETIC ACID, α-AMINO-3-HYDROXY-4-(HYDROXYMETHYL)-, (S)- □ BF 121

TOXICITY DATA with REFERENCE:

ipr-rat LD50:5500 mg/kg JANTAJ 35,1049,82

ipr-mus LD50:5000 mg/kg JANTAJ 35,1049,82

SAFETY PROFILE: Mildly toxic by intraperitoneal route. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.

FOK000 CAS: 55779-06-1 HR: 3
FORTIMICIN A

mf: C₁₇H₃₅N₅O₆ mw: 405.57

PROP: Amorphous powder. Produced by *Micromonospora olivoasterospora* MK-70 (JANTAJ 30,77-7,77).

SYNS: ANTIBIOTIC KW-1070 □ KW-1070 □ XK-70-1

TOXICITY DATA with REFERENCE:

ipr-rat LD50:913 mg/kg NKRZAZ 29(Suppl 2),167,81

ivn-rat LD50:209 mg/kg NKRZAZ 29(Suppl 2),167,81

orl-mus LD50:13,600 mg/kg NKRZAZ 29(Suppl 2),167,81

ipr-mus LD50:533 mg/kg NKRZAZ 29(Suppl 2),167,81

scu-mus LD50:400 mg/kg JANTAJ 30,77-7,77

ims-mus LD50:427 mg/kg NKRZAZ 29(Suppl 2),167,81

ivn-dog LD50:214 mg/kg NKRZAZ 29(Suppl 2),167,81

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by intraperitoneal and intramuscular routes. Mildly toxic by ingestion. Experimental teratogenic and reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

FOL000 CAS: 72275-67-3 HR: 3
FORTIMICIN A SULFATE

mf: C₁₇H₃₅N₅O₆•2H₂O₄S mw: 601.73

SYN: ABBOTT-44747

TOXICITY DATA with REFERENCE:

scu-rat LD50:1365 mg/kg IYKEDH 16,866,65

ivn-rat LD50:86 mg/kg TXAPA9 53,399,80

orl-mus LD50:13,600 mg/kg JJANAX 35,1402,82

ipr-mus LD50:533 mg/kg IYKEDH 16,866,85

scu-mus LD50:653 mg/kg IYKEDH 16,866,85

ivn-mus LD50:94 mg/kg TXAPA9 53,399,80

ims-mus LD50:436 mg/kg TXAPA9 53,399,80

ivn-dog LD50:214 mg/kg IYKEDH 16,866,85

ims-dog LD50:750 mg/kg IYKEDH 16,866,85

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

FOL025 CAS: 149845-06-7 HR: 2
FORTOVASE

mf: C₃₈H₅₀N₆O₅•CH₄O₃S mw: 767.05

SYNS: BUTANEDIAMIDE, N'-(3-(3-(((1,1-DIMETHYLETHYL)-AMINO)CARBONYL)OCTAHYDRO-2(1H)-ISOQUINOLINYL)-2-HYDROXY-1-(PHENYLMETHYL)PROPYL)-2-((2-QUINOLINYL-CARBONYL)AMINO)-, (3S-(2(1R*(R*),2S*),3α, 4Aβ,8Aβ))-,

MONOMETHANESULFONATE (SALT) □ INVIRASE □ RO 31-8959/003 □ SAQUINAVIR MESYLATE

TOXICITY DATA with REFERENCE:

orl-rat LD :>5 g/kg YAKUD5 40,2183,1998
orl-mus LD :>5 g/kg YAKUD5 40,2183,1998
ivn-mus LD :>20 mg/kg YAKUD5 40,2183,1998
orl-mky LD :>1680 mg/kg YAKUD5 40,2183,1998

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

FOL050 CAS: 54593-83-8 HR: 3
FORTRESS

mf: C₆H₁₁Cl₄O₃PS mw: 336.00

PROP: Liquid. Bp: 110–115°.

SYNS: O,O-DIETHYL O-(1,2,2,2-TETRACHLOROETHYL) PHOSPHOROTHIOATE □ DPX 43898 □ PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-(1,2,2,2-TETRACHLOROETHYL) ESTER □ SD 208304

TOXICITY DATA with REFERENCE:

ihl-rat LC50:400 ppb FMCHA2 -,C146,91
unr-rat LD50:1800 µg/kg FMCHA2 -,C146,91
skn-rbt LD50:12,500 µg/kg FMCHA2 -,C146,91

SAFETY PROFILE: A poison by inhalation, skin contact, and possibly other routes. When heated to decomposition it emits toxic vapors of PO_x, SO_x, and Cl⁻.

FOL100 CAS: 35322-07-7 HR: 3
FOSAZEPAM

mf: C₁₈H₁₈ClN₂O₂P mw: 360.80

PROP: Crystals from cyclohexane. Mp: 174–175°.

SYNS: 7-CHLORO-1-((DIMETHYLPHOSPHINYLMETHYL)-1,3-DIHYDRO-5-PHENYL-2H-1,4-BENZODIAZEPINE-2-ONE □ HR 930

TOXICITY DATA with REFERENCE:

orl-rat LD50:3110 mg/kg OYYAA2 10,265,75
ipr-rat LD50:300 mg/kg OYYAA2 10,265,75
scu-rat LD50:1740 mg/kg OYYAA2 10,265,75
ivn-rat LD50:160 mg/kg OYYAA2 10,265,75
orl-mus LD50:2 g/kg OYYAA2 10,265,75
ipr-mus LD50:350 mg/kg OYYAA2 10,265,75
scu-mus LD50:550 mg/kg OYYAA2 10,265,75
ivn-mus LD50:285 mg/kg OYYAA2 10,265,75

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

FOL200 HR: 2
FOSFOMYCIN DISODIUM HYDRATE

mf: C₃H₅O₄P·2Na·H₂O mw: 200.05

PROP: Antibiotic.

SYNS: DISODIUM (-)-(1R,2S)-(1,2-EPOXYPROPYL)PHOSPHONATE HYDRATE □ DISODIUM FOSFOMYCIN HYDRATE □ DISODIUM PHOSPHONOMYCIN HYDRATE □ FOSFOMYCIN SODIUM HYDRATE □ SODIUM FOSFOMYCIN HYDRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:4700 mg/kg IYKEDH 12,668,81
ipr-rat LD50:2060 mg/kg IYKEDH 12,668,81
scu-rat LD50:5100 mg/kg IYKEDH 12,668,81
ivn-rat LD50:1650 mg/kg IYKEDH 12,668,81

ims-rat LD50:2630 mg/kg IYKEDH 12,668,81
orl-mus LD50:8020 mg/kg IYKEDH 12,668,81
ipr-mus LD50:2175 mg/kg IYKEDH 12,668,81

SAFETY PROFILE: Moderately toxic by intraperitoneal, intravenous and intramuscular routes. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of PO_x and Na₂O.

FOM000 CAS: 37132-72-2 HR: D
FOTRIN

mf: C₁₄H₂₈N₉OP₃ mw: 431.42

PROP: Crystals from EtOH/Et₂O/EtOAc. Mp: 120.5–121.5°.

SYNS: 2,2,4,4,6-PENTAETHYLENIMINO-6-MORPHOLINO-CYCLOTRIPHOSPHAZATRIEN □ PHOTRIN □ PHOTRINE

TOXICITY DATA with REFERENCE:

mma-sat 1 g/plate PCJOAU 12,35,78
cyt-hmn:lym 20 mg/L/1H SOGEBZ 12,1552,76
sce-hmn:lym 5 mg/L TGANAK 16(2),34,82
sce-ham:oth 125 µg/L CYGEDX 16(4),23,82
sce-ham:oth 125 mg/L GNKAA5 19,1152,83

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Experimental teratogenic effects. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and PO_x.

FOM100 HR: 3
FOXGLOVE

PROP: These hardy plants grow wild throughout the northern United States, Canada, and Alaska. They are cultivated for the production of digitalis. The flowers are purple or pink and hang down from a central stalk.

SYNS: DIGITALIS □ DIGITALIS PURPUREA □ FAIRY BELLS □ FAIRY CAP □ FAIRY GLOVE □ FAIRY THIMBLES □ FOLKS GLOVE □ LADIE'S THIMBLES □ LION'S MOUTH □ POP-DOCK □ RABBIT FLOWER □ THIMBLES □ THROATWORT □ WITCHES' THIMBLES

SAFETY PROFILE: The whole plant contains poisonous digitalis glycosides and irritant saponins. Human systemic effects by ingestion include: mouth pain, nausea, vomiting, abdominal pain, cramps, and diarrhea. Cardiac glycosides may cause death by their effect on heart function. See also DIGITALIS and SAPONIN.

FOM200 CAS: 28808-62-0 HR: 3
FRAXINELLONE

mf: C₁₄H₁₆O₃ mw: 232.30

PROP: Crystals from EtOH/Et₂O. Mp: 116°.

SYNS: 1(3H)-ISOBENZOFURANONE, 3-(3-FURANYL)-3a,4,5,6-TETRAHYDRO-3a,7-DIMETHYL-, (3R-cis)-(9CI) □ PHTHALIDE, 3-(3-FURYL)-3a,4,5,6-TETRAHYDRO-3a,7-DIMETHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:274 mg/kg PLMEAA 53,399,87
ipr-rat LD50:116 mg/kg PLMEAA 53,399,87
orl-mus LD50:430 mg/kg PLMEAA 53,399,87
ipr-mus LD50:355 mg/kg PLMEAA 53,399,87

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

FON100 **HR: 2**
FRAXINUS JAPONICA Blume, bark extract
TOXICITY DATA with REFERENCE:

orl-rat LDLo:20 g/kg KSRNAM 4,253,70
 scu-rat LD50:5400 mg/kg KSRNAM 4,253,70
 ivn-rat LD50:1620 mg/kg KSRNAM 4,253,70
 orl-mus LD50:16,300 mg/kg KSRNAM 4,253,70
 scu-mus LD50:6300 mg/kg KSRNAM 4,253,70
 ivn-mus LD50:3280 mg/kg KSRNAM 4,253,70
SAFETY PROFILE: Moderately toxic by intravenous route. Mildly toxic by ingestion and subcutaneous routes.

FON200 **CAS: 13254-34-7** **HR: 2**
FREESIOL

mf: C₉H₂₀O mw: 144.29
PROP: Colorless to pale yellow liquid with a lavender, citrus, fresh, floral, woody powerful odor. Flash pt: 63° C.
SYNS: DIMETOL □ 2,6-DIMETHYL-2-HEPTANOL □ 2-HEPTANOL, 2,6-DIMETHYL- □ LOLITOL
TOXICITY DATA with REFERENCE:
 skn-rbt 500 mg SEV FCTOD7 30,23S,92
 eye-rbt 100 mg SEV FCTOD7 30,23S,92
 orl-rat LD50:6800 mg/kg FCTOD7 30,23S,92
 skn-rbt LD50:>5 g/kg FCTOD7 30,23S,92
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A severe skin and eye irritant. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

FOO000 **CAS: 76-13-1** **HR: 2**
FREON 113

mf: C₂Cl₃F₃ mw: 187.37
PROP: Colorless gas. Mp: -36.4°, bp: 45.8°, d: 1.5702, autoign temp: 1256°F. IDLH 2000 ppm.
SYNS: ARCTON 63 □ ARKLONE P □ DAIFLON S 3 □ FLUOROCARBON 113 □ FREON 113TR-T □ FRIGEN 113a □ GENETRON 113 □ HALOCARBON 113 □ ISCEON 113 □ KAISER CHEMICALS 11 □ KHLADON 113 □ R 113 □ REFRIGERANT 113 □ TRICHLOROTRIFLUOROETHANE □ 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (OSHA, ACGIH, MAK) □ UCON 113 □ UCON FLUOROCARBON 113 □ UCON 113/HALOCARBON 113
TOXICITY DATA with REFERENCE:
 skn-rbt 500 mg open MLD UCDS** 7/10/70
 orl-rat LD50:43 g/kg JMCMA7 7,378,64
 ihl-rat LCLo:87,000 ppm/6H JOCMA7 4,262,62
 ihl-mus LCLo:25 pph/90S ANASAB 16,3,61
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 1000 ppm; STEL 1250 ppm
ACGIH TLV: TWA 1000 ppm; STEL 1250 ppm; Not Classifiable as a Human Carcinogen
DFG MAK: 500 ppm (3900 mg/m³)
SAFETY PROFILE: Mildly toxic by ingestion and inhalation. Affects the central nervous system in humans. A skin irritant. Combustible when exposed to heat or flame. Incompatible with Al, Ba, Li, Sm, NaK alloy, Ti. See also CHLORINATED HYDROCARBONS, ALIPHATIC; and FLUORIDES.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: 1,1,2-Trichloro-1,2,2-trifluoroethane, 1020.

FOO509 **CAS: 76-14-2** **HR: 1**
FREON 114

mf: C₂Cl₂F₄ mw: 170.92
PROP: Colorless, practically odorless, noncorrosive, nonirritating, nonflammable gas. Faint, ether-like odor in high concentrations. D: 1.5312, mp: -94°, bp: 4.1°, n: (0/D) 1.3092. Insol in water; sol in alc and ether. IDLH 15,000 ppm.
SYNS: ARCTON 33 □ ARCTON 114 □ CRYOFLUORAN □ CRYOFLUORANE □ sym-DICHLOROTETRAFLUOROETHANE □ 1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE (MAK) □ DICHLOROTETRAFLUOROETHANE (OSHA, ACGIH) □ F 114 □ FC 114 □ FLUORANE 114 □ FLUOROCARBON 114 □ FRIGEN 114 □ FRIGIDERM □ GENETRON 114 □ GENETRON 316 □ HALOCARBON 114 □ LEDON 114 □ PROPELLANT 114 □ R 114 □ 1,1,2,2-TETRAFLUORO-1,2-DICHLOROETHANE □ UCON 114
TOXICITY DATA with REFERENCE:
 ihl-rat LC50:72 pph/30M EJTXAZ 9,385,76
 ihl-mus LC50:70 pph/30M EJTXAZ 9,385,76
 ihl-rbt LC50:75 pph/30M EJTXAZ 9,385,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 1000 ppm
ACGIH TLV: TWA 1000 ppm; Not Classifiable as a Human Carcinogen
DFG MAK: 1000 ppm (7100 mg/m³)
SAFETY PROFILE: An asphyxiant. See also DICHLOROTETRAFLUOROETHANE.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Dichlorodifluoromethane and 1,2-Dichlorotetrafluoroethane, 1018.

FOO525 **CAS: 124-73-2** **HR: 1**
FREON 114B2

mf: C₂Br₂F₄ mw: 259.84
SYNS: 1,2-DIBROMOPERFLUOROETHANE □ sym-DIBROMOTETRAFLUOROETHANE □ 1,2-DIBROMO-TETRAFLUOROETHANE □ 1,2-DIBROMO-1,1,2,2-TETRAFLUOROETHANE □ ETHANE, 1,2-DIBROMOTETRAFLUORO- □ ETHANE, 1,2-DIBROMO-1,1,2,2-TETRAFLUORO-(9CI) □ F-114B2 □ FC 114B2 □ FLUOBRENE □ HALON 2402 □ KHLADON 114B2 □ R 114B2
TOXICITY DATA with REFERENCE:
 ihl-rat LC50:869 g/m³/2H GISAAA 55(2),17,90
 ihl-mus LC50:300 g/m³/2H 85JCAE -,136,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Slightly toxic by inhalation. When heated to decomposition it emits toxic vapors of Br⁻ and F⁻.

FOO550 **CAS: 1717-00-6** **HR: 1**
FREON 141

mf: C₂H₃Cl₂F mw: 116.95
SYNS: 1,1-DICHLORO-1-FLUOROETHANE □ ETHANE, 1,1-DICHLORO-1-FLUORO-
TOXICITY DATA with REFERENCE:

ihl-rat LD50:240 g/m³/2H 85GMAT -,46,82ihl-mus LC50:151 g/m³/2H 85JCAE -,134,86

SAFETY PROFILE: Slightly toxic by inhalation. When heated to decomposition it emits toxic vapors of F⁻ and Cl⁻.

F00553 CAS: 1615-75-4 HR: 1
FREON 151

mf: C₂H₄ClF mw: 82.51

SYNS: 1-CHLOROFLUOROETHANE □ ETHANE, 1-CHLORO-1-FLUORO- □ MONOCHLOROMONOFLUOROETHANE

TOXICITY DATA with REFERENCE:

ihl-mus LC50:125 g/m³/2H 85GMAT -,89,82

SAFETY PROFILE: Low toxicity by inhalation. When heated to decomposition it emits toxic vapors of F⁻ and Cl⁻.

F00560 CAS: 39432-81-0 HR: 1
FREON 502

DOT: UN 1973

mf: C₂ClF₅•CHClF₂ mw: 240.94

SYNS: CHLORODIFLUOROMETHANE and CHLOROPENTA-FLUOROETHANE MIXTURE (DOT) □ ETHANE, CHLORO-PENTAFLUORO-, mixt. with CHLORODIFLUOROMETHANE □ R502 (DOT) □ REFRIGERANT 502

DOT CLASSIFICATION: 2.2; Label: Nonflammable Gas

SAFETY PROFILE: A simple asphyxiant. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

F00562 CAS: 50815-73-1 HR: 1
FREON 503

DOT: UN 2599

SYNS: CHLOROTRIFLUOROMETHANE mixed with TRIFLUOROMETHANE □ CHLOROTRIFLUOROMETHANE and TRIFLUOROMETHANE AZEOTROPIC MIXTURE (DOT) □ METHANE, CHLOROTRIFLUORO-, mixt. with TRIFLUORO-METHANE (9CI) □ METHANE, TRIFLUORO-, mixt. with CHLOROTRIFLUOROMETHANE □ R503 (DOT)

DOT CLASSIFICATION: 2.2; Label: Nonflammable Gas

SAFETY PROFILE: A simple asphyxiant. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

F00600 CAS: 9007-81-2 HR: D
FREUND'S ADJUVANT

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

F00700 CAS: 60476-17-7 HR: 2
FS 19N

TOXICITY DATA with REFERENCE:

orl-rat LD50:2200 mg/kg GTPZAB 20(7),58,76

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

F00875 CAS: 23191-75-5 HR: 3
FTORIN

mf: C₂₀H₂₂F₃NO₄ mw: 397.43

SYNS: 1,4-DIHYDRO-2,6-DIMETHYL-4-(α,α,α-TRIFLUORO-*o*-TOLYL)-3,5-PYRIDINEDICARBOXYLIC ACID DIETHYL ESTER □ FTORIN (PHARMACEUTICAL) □ SKF 24260 □ 4-(2-TRIFLUOROMETHYLPHENYL)-3,5-DICARBETHOXY-2,6-DIMETHYL-1,4-DIHYDROPYRIDINE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1225 mg/kg JMCMAR 17,956,74

ivn-rat LDLo:5 mg/kg JMCMAR 17,956,74

orl-mus LD50:1480 mg/kg JMCMAR 17,956,74

ipr-mus LD50:38 mg/kg PCJOAU 16,817,82

ivn-dog LDLo:700 µg/kg JMCMAR 17,956,74

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

FOP000 CAS: 23191-75-5 HR: 3
FUEL OIL

DOT: NA 1993

PROP: A petroleum fraction consisting of a complex mixture of aromatic, paraffinic, olefinic, and naphthenic hydrocarbons. Brown, sltly viscous liquid. Flash p: 100°F, d: <1, autoign temp: 494°F.

SYNS: AUTOMOTIVE DIESEL OIL □ DIESEL FUEL (DOT) □ DIESEL OIL (PETROLEUM) □ DIESEL OILS □ DIESEL TEST FUEL □ FUELS, DIESEL □ OLEJ NAPEDOWY III

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD NTIS** AD-A172-198

orl-rat LD50:9 g/kg 52MLA2 1,1,83

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 45,219,89; Human Inadequate Evidence IMEMDT 45,219,89.

DOT CLASSIFICATION: 3; Label: None

SAFETY PROFILE: Mildly toxic by ingestion. A moderate skin irritant. Questionable carcinogen. Flammable when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also DIESEL EXHAUST, DIESEL EXHAUST EXTRACT, DIESEL EXHAUST PARTICLES, DIESEL FUEL MARINE.

FOP100 CAS: 23191-75-5 HR: 2
FUEL OIL, pyrolyzate

SYN: WATER QUENCH PYROLYSIS FUEL OIL

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

FOP200 CAS: 68476-33-5 HR: 3
FUEL OIL, RESIDUAL

SYN: RESIDUAL(HEAVY) FUEL OIL

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 45,239,89; Animal Sufficient Evidence IMEMDT 45,239,89. Reported in EPA TSCA Inventory.

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

FOQ000 CAS: 4368-28-9 HR: 3**FUGU POISON**mf: $C_{11}H_{17}N_3O_8$ mw: 319.31**PROP:** Crystals.**SYNS:** MACULOTOXIN □ SPHEROIDINE □ TARICHATOXIN □ TETRODONTOXIN □ TETRODOTOXIN □ TETRODOXIN □ TTX**TOXICITY DATA with REFERENCE:**

orl-mus LD50:435 µg/kg JJPAAZ 17,267,67

ipr-mus LD50:8 µg/kg SCIEAS 144,1100,64

scu-mus LD50:8 µg/kg CTOXAO 4,331,71

ivn-mus LD50:9 µg/kg JJPAAZ 17,267,67

SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x .**FOR000 CAS: 3309-87-3 HR: 3****FUJITHION**mf: $C_8H_{10}ClO_3PS$ mw: 252.66**SYNS:** S-(p-CHLOROPHENYL)-O,O-DIMETHYL PHOSPHOTHIOATE □ O,O-DIMETHYL-S-p-CHLOROPHENYL PHOSPHOROTHIOATE**TOXICITY DATA with REFERENCE:**

orl-mus LD50:94 mg/kg BESAAT 15,118,69

skn-mus LD50:920 mg/kg BESAAT 15,118,69

SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. When heated to decomposition it emits very toxic fumes of Cl^- , PO_x , and SO_x .**FOS000 HR: 3****FULMINATES****SAFETY PROFILE:** Variable toxicity. A very dangerous fire hazard when exposed to heat or flame. Severe explosion hazard when shocked or exposed to heat or flame. See also various fulminates and EXPLOSIVES, HIGH.

The fulminates are a group of explosives that are very sensitive to heat, impact, and friction when dry. They should be kept moist until ready for use. If compressed beyond 25,000 psi they become what is known as "deadpressed," i.e., not capable of being exploded by flame. Fulminates are subject to deterioration when stored in hot climates. They decompose completely and violently when detonated. They can be ignited with a flame or "spit," with a fuse, or with an electrically heated wire. They are widely used as initiators or primers for detonation of high explosives or the ignition of powder. They are commonly used in combination with substances that provide a more prolonged blow and a bigger flame than fulminates alone. In the reinforced type of detonator, fulminates are made more effective by the addition of a more sensitive and powerful high explosive such as tetryl. This material is generally used in the manufacture of caps and detonators for initiating explosions for military, industrial, and sporting purposes.

All precautions required for protection of magazines apply to storage of these materials. They should not be handled when frozen. Wet fulminate of mercury or wet floor coverings containing small quantities of fulminates may be burned on windrows of flammable material. Nonexplosive products are formed by neutralizing

fulminates with cold sodium thiosulfate. All floors, tables, and walls where the dry fulminates have been used should be washed with this solution. In the manufacture of mercury fulminate, the fumes given off are toxic and flammable. Care is required to prevent fulminate dust from being carried off in the exhaust system: deposits thus made have caused explosions. Careful attention should be given to cleanliness as foreign or gritty materials in the product may cause an unexpected explosion. The floors on which fulminates are used should be covered with 1/16-inch cloth-inserted rubber packing or its equal. All cracks and crevices should be covered. The walls of these rooms should be covered with glazed, waterproof material. Frequent washing with neutralizing solution is necessary. In manufacture, the fulminate is dried on muslin squares on a drying table. Drying tables may be heated with hot water or the dry house may be heated with an air blower system to between 50 and 60°. Primer caps and detonators loaded with fulminate of mercury are less sensitive than the dry bulk material but must be handled with great care. Fires involving these assemblies should be treated the same as for the bulk material. They will explode as soon as fire reaches them. Stocks in an assembly or loading room should be kept as small as possible. Examples of fulminates commonly used in the explosive industry are mercury fulminate, copper fulminate, and silver fulminate.

FOS050 CAS: 506-85-4 HR: 3**FULMINIC ACID**mf: $CHNO$ mw: 43.02**PROP:** Oily liquid with prussic acid odor.**CONSENSUS REPORTS:** Cyanide and its compounds are on the Community Right-To-Know List.**DOT CLASSIFICATION:** Forbidden**SAFETY PROFILE:** An unstable explosive sensitive to heat, shock, or friction. When heated to decomposition it emits toxic fumes of NO_x .**FOS100 CAS: 14976-57-9 HR: 3****FULMINOL**mf: $C_{21}H_{26}ClNO \cdot C_4H_4O_4$ mw: 460.01**PROP:** Crystals from MeOH. Mp: 177–178° (decomp).**SYNS:** AGASTEN □ ALOGINAN □ ALPHAMIN □ ANHISTAN □ (+)-2-(2-(p-CHLORO- α -METHYL- α -PHENYLBENZYL)OXY)-ETHYL)-1-METHYL PYRROLIDINE FUMARATE □ CLEMANIL □ CLEMASTINE FUMARATE □ CLEMASTINE HYDROGEN FUMARATE □ HS 592 □ INBESTAN □ KINOTOMIN □ LACRETIN □ LECASOL □ MAIKOHIS □ MALLERMIN-F □ MARSTHINE □ MASLETINE □ MECLASTINE HYDROGEN FUMARATE □ PILORAL □ RECONIN □ TAVEGIL □ TAVEGYL □ TELGIN-G □ TIVIST □ TRABEST □ XOLAMIN**TOXICITY DATA with REFERENCE:**

orl-rat LD50:3550 mg/kg BCFAAI 106,467,67

ivn-rat LD50:82 mg/kg BCFAAI 106,467,67

orl-mus LD50:730 mg/kg BCFAAI 106,467,67

ivn-mus LD50:43 mg/kg BCFAAI 106,467,67

orl-dog LD50:175 mg/kg BCFAAI 106,467,67

orl-rbt LD50:1 g/kg NIIRDN 6,230,82

ivn-rbt LD50:19 mg/kg BCFAAI 106,467,67

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

FOS300 CAS: 72443-10-8 HR: 3
6-FULVENOSELONE

mf: $\text{C}_6\text{H}_4\text{Se}$ mw: 155.06

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

OSHA PEL: TWA 0.2 mg(Se)/ m^3

ACGIH TLV: TWA 0.2 mg(Se)/ m^3

DFG MAK: 0.1 mg(Se)/ m^3

SAFETY PROFILE: Polymerizes explosively at -196°C . When heated to decomposition it emits toxic fumes of Se. See also SELENIUM COMPOUNDS.

FOT000 CAS: 6029-87-4 HR: 3
FULVINE

mf: $\text{C}_{16}\text{H}_{23}\text{NO}_5$ mw: 309.40

PROP: Prisms from Me_2CO . Mp: $212-213^\circ$.

SYN: CRISPATINE

TOXICITY DATA with REFERENCE:

sln-dmg-par 10 mmol/L JOGNAU 59,273,66

trn-dmg-par 10 mmol/L JOGNAU 59,273,66

ipr-rat LD50:40 mg/kg PAREAQ 22,429,70

SAFETY PROFILE: Poison by intraperitoneal route.

Experimental teratogenic and reproductive effects.

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

FOU000 CAS: 110-17-8 HR: 3
FUMARIC ACID

mf: $\text{C}_4\text{H}_4\text{O}_4$ mw: 116.08

PROP: White, monoclinic, prismatic, crystals, needles, or leaflets; odorless. Mp: $300-302^\circ$ (sealed tube), d: 1.635 @ $20^\circ/4^\circ$, bp: 290° . Sol in EtOH; sltly sol in H_2O , Et_2O , and Me_2CO ; prac insol in C_6H_6 .

SYNS: ALLOMALEIC ACID \square BOLETIC ACID \square trans-BUTENEDIOIC ACID \square (E)-BUTENEDIOIC ACID \square trans-1,2-ETHYLENEDICARBOXYLIC ACID \square (E)-1,2-ETHYLENEDICARBOXYLIC ACID \square KYSELINA FUMAROVA (CZECH) \square LICHENIC ACID \square NSC-2752 \square U-1149 \square USAF EK-P-583

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,51,72

eye-rbt 100 mg/24H MOD 28ZPAK -,51,72

dni-rat-ivn 40 mg/kg JJCREP 77,750,86

orl-rat LD50:9300 mg/kg TXAPA9 42,417,77

ipr-rat LDLo:587 mg/kg JAPMA8 35,298,46

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

orl-rbt LDLo:5000 mg/kg IECHAD 15,628,23

skn-rbt LD50:20 g/kg TXAPA9 42,417,77

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. Mildly toxic by ingestion and skin contact. A skin and eye irritant. Mutation data reported. Combustible when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.

FOV000 CAS: 25876-47-5 HR: 3

FUMARIC ACID ETHYL-2,3-EPOXYPROPYL ESTER

mf: $\text{C}_9\text{H}_{12}\text{O}_5$ mw: 200.21

TOXICITY DATA with REFERENCE:

orl-rat LD50:1620 mg/kg AIHAAP 30,470,69

skn-rbt LD50:350 mg/kg AIHAAP 30,470,69

SAFETY PROFILE: Poison by skin contact.

Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

FOW000 CAS: 130-86-9 HR: 3
FUMARINE

mf: $\text{C}_{20}\text{H}_{19}\text{NO}_5$ mw: 353.40

PROP: Crystals from $\text{CHCl}_3/\text{EtOH}$. Mp: 207° .

SYNS: BIFLORINE \square CORYDININE \square MACLEYINE \square 7-METHYL-2,3:9,10-BIS(METHYLENEDIOXY)-7,13a-SECOBERBIN-13a-ONE \square PROTOPINE \square 4,6,7,14-TETRAHYDRO-5-METHYL-BIS(1,3)BENZODIOXOLO(4,5-c:5',6'-g)AZECIN-13(5H)-ONE

TOXICITY DATA with REFERENCE:

ipr-rat LDLo:100 mg/kg NCNSA6 5,24,53

ipr-mus LD50:482 mg/kg YHTPAD 16(6),7,81

orl-gpg LD50:237 mg/kg THERAP 28,767,73

ipr-gpg LD50:116 mg/kg THERAP 28,767,73

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

FOX000 CAS: 764-42-1 HR: 3
FUMARONITRILE

mf: $\text{C}_4\text{H}_2\text{N}_2$ mw: 78.08

PROP: Needles. Mp: 96° , bp: 186° . Sol in EtOH, Et_2O , and C_6H_6 .

SYNS: 2-BUTENEDINITRILE, (E)- \square trans-1,2-DICYANO-ETHENE \square (E)-1,2-DICYANOETHYLENE \square FUMARIC ACID DINITRILE \square FUMARONITRILE \square FUMARSAEUREDINITRIL

TOXICITY DATA with REFERENCE:

sln-smc 17 mg/L MUREAV 241,255,90

orl-rat LD50:132 mg/kg TOLED5 12,157,82

ivn-mus LD50:56 mg/kg CSLNX* NX#05718

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

SAFETY PROFILE: Poison by ingestion and intravenous routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and CN^- . See also NITRILES.

FOY000 CAS: 627-63-4 HR: 2
FUMARYL CHLORIDE

DOT: UN 1780

mf: $\text{C}_4\text{H}_2\text{Cl}_2\text{O}_2$ mw: 152.96

PROP: Clear, straw-colored liquid. Mp: $158-160^\circ$, d: 1.408 @ $20^\circ/4^\circ$.

SYNS: CHLORURE de FUMARYLE (FRENCH) \square DICHLORID KYSELINY FUMAROVE (CZECH) \square FUMAROYL CHLORIDE \square FUMARYLCHLORID (CZECH) \square TL 189

TOXICITY DATA with REFERENCE:

skn-rbt 750 $\mu\text{g}/24\text{H}$ SEV 85JCAE -,327,86

eye-rbt 5 mg/24H SEV 85JCAE -,327,86

orl-rat LD50:810 mg/kg AIHAAP 30,470,69

ihl-rat LCLo:500 ppm/4H AIHAAP 30,470,69
ihl-mus LCLo:1000 mg/m³/10M NDRC** NDCrc-132,May,42

skn-rbt LD50:1410 mg/kg AIHAAP 30,470,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and skin contact. A skin, eye, and mucous membrane irritant. A corrosive agent. Will react with water or steam to produce toxic and corrosive fumes. When heated to decomposition it emits highly toxic fumes of phosgene and HCl.

FOZ000 CAS: 23110-15-8 HR: 2

FUMIDIL

mf: C₂₆H₃₄O₇ mw: 458.60

PROP: Yellow needles (MeOH aq). Mp: 189–194°. Sol in dil alkalies; insol in hydrocarbons and H₂O. Isolated from *A. fumigatus* (ANTCAO 1,54,51).

SYNS: AMEBACILIN □ FUGILIN □ FUMADIL B □ FUMAGILLIN

TOXICITY DATA with REFERENCE:

orl-mus LD50:2000 mg/kg 85ERAY 3,1834,78

scu-mus LD50:800 mg/kg ANTCAO 1,54,51

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

FPA000 CAS: 11085-39-5 HR: 3

FUMIGACHLORIN

mf: C₁₆H₂₅Cl₂NO₄ mw: 366.2

PROP: Antibiotic and antifungal.

TOXICITY DATA with REFERENCE:

orl-mus LD50:18,500 µg/kg 85ERAY 3,1858,78

ipr-mus LD50:4600 µg/kg 85ERAY 3,1858,78

scu-mus LD50:9300 µg/kg 85ERAY 3,1858,78

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

FPA500 CAS: 116355-84-1 HR: 2

FUMONISIN B2

mf: C₃₄H₅₉NO₁₄ mw: 705.94

SYN: 1,2,3-PROPANETRICARBOXYLIC ACID, 1,1'-(1-(2-AMINO-9,11-DIHYDROXY-2-METHYLTRIDECYL)-2-(1-METHYLPENTYL)-1,2-ETHANEDIYL) ESTER

CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 56,445,93.

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

FPB875 CAS: 35554-44-0 HR: 3

FUNGAFLOR

mf: C₁₄H₁₄Cl₂N₂O mw: 297.20

PROP: Solidified oil. Sltly sol in org solvs; poorly sol in water.

SYNS: (±)-1-(β-(ALLYLOXY)-2,4-DICHLOROPHENETHYL)-IMIDAZOLE □ 1-(2-(2,4-DICHLOROPHENYL)-2-(2-PROPENYLOXY)ETHYL)-1H-IMIDAZOLE □ 1-(2-(2,4-DICHLOROPHENYL)-2-

(PROPENYLOXY)AETHYL)-1H-IMIDAZOLE □

ENILOCONAZOL (SP) □ IMAVEROL □ IMAZALIL □ R 23979

TOXICITY DATA with REFERENCE:

eye-rbt 49 mg MOD ARZNAD 31,309,81

orl-rat TDL_o:2240 mg/kg (16-22D preg/21D post):REP ARZNAD 31,309,81

orl-rat LD50:227 mg/kg ARZNAD 31,309,81

ihl-rat LC50:16 g/m³/4H PEMNDP 9,482,91

skn-rat LD50:4200 mg/kg PEMNDP 8,471,87

ipr-rat LD50:155 mg/kg ARZNAD 31,309,81

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Experimental reproductive effects. A skin and eye irritant. When heated to decomposition it emits toxic fumes of Cl⁻ and NO_x.

FPC000 CAS: 6834-98-6 HR: 3

FUNGICHRMIN

mf: C₃₅H₅₈O₁₂•H₂O mw: 688.95

PROP: Needles from MeOH; hydrate pale-yellow crystals. Mp: 235° (decomp).

SYNS: ANTIBIOTIC A-246 □ COGOMYCIN □ FUNGICHRMIN, HYDRATE □ 14-HYDROXYFILIPIN □ LAGOSIN □ MOLDCIDIN B □ NSC-105388 □ PENTAMYCIN

TOXICITY DATA with REFERENCE:

orl-mus LD50:1624 mg/kg 85GDA2 2,212,80

ipr-mus LDLo:16,400 µg/kg ABANAE 2,716,54/55

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

FPC100 CAS: 144-14-1 HR: 3

FUNGINON

mf: C₆H₈O₄ mw: 144.14

TOXICITY DATA with REFERENCE:

orl-mus LD50:109 mg/kg 85GDA2 5,371,81

ipr-mus LD50:20 mg/kg 85GDA2 5,371,81

ivn-mus LD50:24 mg/kg 85GDA2 5,371,81

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

FPC200 CAS: 58501-21-6 HR: 3

FUNGIZONE INTRAVENOUS

mf: C₄₇H₇₃NO₁₇•C₂₄H₄₀O₄•Na mw: 1339.84

SYNS: AMPHOTERICIN B DEOXYCHOLATE □

AMPHOTERICIN B SODIUM DESOXYCHOLATE □

AMPHOTERICIN B, MIXT. WITH (3-α,5-β,12-α)-3,12-

DIHYDROXYCHOLAN-24-OIC ACIDMONOSODIUM SALT □

DESOXYCHOLATE AMPHOTERICIN B

TOXICITY DATA with REFERENCE:

ivn-hmn TDL_o:20 mg/kg/20D-I:CVS,SYS TRSTAZ 93,319,1999

ivn-rat LDLo:1500 µg/kg AMACCQ 38,713,1994

ipr-mus LD50:5400 µg/kg ANTBAL 25,669,1980

ivn-mus LD50:3 mg/kg AMACCQ 35,615,1991

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

FPD000 CAS: 11055-06-4 HR: 3

FUNICOLOSIN

mf: C₂₇H₄₁NO mw: 395.69

PROP: Fine needles. Mp: 165–166°.

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 mg/kg JANTAJ 31,533,78

ipr-rat LD50:5 mg/kg JANTAJ 31,533,78

orl-mus LD50:5 mg/kg JANTAJ 31,533,78

ipr-mus LD50:4 mg/kg 85ERAY 3,1803,78

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

**FPD050 CAS: 476-56-2 HR: 3
FUNICULOSIN (PIGMENT)**

mf: C₁₅H₁₀O₅ mw: 270.25

SYNS: 9,10-ANTHRACENEDIONE, 1,4,5-TRIHYDROXY-2-METHYL-(9CI) □ ANTHRAQUINONE, 1,4,5-TRIHYDROXY-2-METHYL- □ ISLANDICIN □ RHODOMYCIN □ 1,4,5-TRIHYDROXY-2-METHYL-9,10-ANTHRACENEDIONE

TOXICITY DATA with REFERENCE:

mic-sat 2 µLg/plate AEMIDF 40,476,1980

dni-mus-oth 13 µg/L JANTAJ 39,1148,1986

ipr-mus LDLo:25 mg/kg 85FZAT -,829,1967

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

**FPD100 HR: 2
FUQUA**

PROP: Creeping vines with tendrils, deeply cut leaves and tubular yellow flowers. The yellow-orange fruit is pear-shaped or oval, has warts and a bright red pulp. The fruit splits open when ripe. They are common weeds in the Gulf coast states, Hawaii, Guam, and the West Indies.

SYNS: BALSAM APPLE □ BALSAM PEAR □ BITTER CUCUMBER □ BITTER GOURD □ CUNDEAMOR (CUBA, PUERTO RICO) □ MOMORDICA BALSAMINA □ MOMORDICA CHARANTIA □ MOMORDIQUE A FUEILLES de VIGNE □ SORCI □ SORROSIE (HAITI) □ WILD BALSAM APPLE □ YESQUIN (HAITI)

SAFETY PROFILE: The seeds and skin of the fruit contain the poisonous momordin, a toxalbumin which inhibits protein synthesis in the intestinal wall. The red pulp surrounding the seeds and the boiled leaves are edible. Ingestion of the seeds or skin of the fruit causes after a delay period: nausea, vomiting, diarrhea, and low blood sugar. See also ABRIN as an example toxalbumin.

**FPE100 CAS: 405-22-1 HR: 3
FURADROXYL**

mf: C₈H₁₀N₄O₅ mw: 242.22

PROP: Bright orange plates from alc. Mp: 214–216° (decomp). Solubility in water 1:2000.

SYNS: NIDROXYZONE □ 5-NITRO-2-FURALDEHYDE-2-(2-HYDROXYETHYL)SEMICARBAZONE □ USAF EA-3

TOXICITY DATA with REFERENCE:

orl-mus LD50:600 mg/kg JAPMA8 39,313,50

ipr-mus LD50:200 mg/kg NTIS** AD277-689

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

**FPF000 CAS: 556-12-7 HR: 3
FURALAZIN**

mf: C₉H₇N₃O₃ mw: 233.2

PROP: Red powder from Me₂CO. Mp: 270° (decomp).

SYNS: 3-AMINO-6-(2-(5-NITRO-2-FURYL)VINYL)-as-TRIAZINE □ 3-AMINO-6-(2-(5-NITRO-2-FURYL)VINYL)-1,2,4-TRIAZINE □ NFT □ PANFURAN □ 1,2,4-TRIAZIN-3-AMINE, 6-(2-(5-NITRO-2-FURANYL)ETHENYL)-(9CI)

TOXICITY DATA with REFERENCE:

plc-esc 100 µg/L MUREAV 26,3,74

mno-esc 300 µg/L CJMAZ 11,185,65

mno-eug 2 mg/L JPROAR 17,129,70

orl-rat LD50:250 mg/kg YKKZAJ 83,778,63

orl-mus LD50:500 mg/kg AACHAX -,275,62

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

**FPH000 CAS: 5428-37-5 HR: 3
2-FURALDEHYDE AZINE**

mf: C₁₀H₈N₂O₂ mw: 188.20

TOXICITY DATA with REFERENCE:

SYNS: 2-FURANCARBOXALDEHYDE, (2-FURANYLMETHYLENE)HYDRAZONE (9CI) □ FURFURALDAZINE □ FURFURALDEHYDE AZINE □ FURFURYL AZINE

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:125 mg/kg CBCCT* 6,220,54

ivn-mus LD50:180 mg/kg CSLNX* NX#00398

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

**FPI000 CAS: 139-91-3 HR: 3
FURALTADONE**

mf: C₁₃H₁₆N₄O₆ mw: 324.33

PROP: Yellow crystals from 95% ethanol. Decomp 206°. Sparingly sol in water: about 75 mg/100 mL at 25°.

SYNS: ALTABACTINA □ ALTAFUR □ F-150 □ FURAZOLIN □ FURAZOLINE □ FURMETHANOL □ FURMETHONOL □ FURMETONOL □ IBIFUR □ MEDIFURAN □ 5-MORPHOLINO-METHYL-3-(5-NITRO-2-FURFURYLIDINE-AMINO)-2-OXAZ-OLIDINONE □ NF 260 □ NITRALDONE □ NITROFUR-METHONE □ NITROFURMETON □ OTIFURIL □ SEPSINOL □ ULTRAFUR □ UNIFUR □ VALSYN

TOXICITY DATA with REFERENCE:

mno-sat 2500 ng/plate MUREAV 136,1,84

mno-esc 10 µg/plate MUREAV 26,3,74

pic-esc 5 mg/L CJMAZ 10,932,64

mno-omi 5 mg/L CUMIDD 10,19,84

orl-mus LD50:600 mg/kg FRPSAX 19,269,64

ipr-mus LD50:1000 mg/kg JPPMAB 16,663,64

ivn-mus LD50:400 mg/kg FRPSAX 19,269,64

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

FP1100 CAS: 3759-92-0 HR: 3**FURALTADONE HYDROCHLORIDE**mf: $C_{13}H_{16}N_4O_6 \cdot ClH$ mw: 360.79**PROP:** Powder. Sol in water.**SYNS:** 5-MORPHOLINOMETHYL-3-(5-NITROFURFURYL-IDINE)AMINO-2-OXAZOLIDINONE HYDROCHLORIDE □ NF-269 □ NF-902 HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**mmo-esc 100 μ mol/L RAREAE 75,424,78
orl-mus LD50:1000 mg/kg JPPMAB 16,663,64
ipr-mus LD50:190 mg/kg JPPMAB 16,663,64**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 and HCl.**FP1150 CAS: 3031-51-4 HR: 3****I-FURALTADONE HYDROCHLORIDE**mf: $C_{13}H_{16}N_4O_6 \cdot ClH$ mw: 360.79**PROP:** Yellow crystals. Decomposes @ 206°.**SYNS:** FURMETHONOL □ 1-5-(MORPHOLINOMETHYL)-3-((5-NITROFURFURYLIDENE)AMINO)-2-OXAZOLIDINONE-HYDROCHLORIDE □ NF-260**TOXICITY DATA with REFERENCE:**mmo-eug 10 mg/L JPROAR 17,129,70
orl-rat TDLo:25 g/kg/46W-C:CAR JNCIAM 51,403,73
orl-mus LD50:600 mg/kg FRPSAX 19,269,64
ivn-mus LD50:400 mg/kg FRPSAX 19,269,64**CONSENSUS REPORTS:** IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 7,161,74.**SAFETY PROFILE:** Suspected carcinogen with experimental carcinogenic data. Poison by intravenous route. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x .**FP1200 CAS: 17505-25-8 HR: D****FURAMIZOLE**mf: $C_{12}H_8N_4O_5$ mw: 288.24**SYNS:** 2-AMINO-5-(2-(5-NITRO-2-FURYL)-1-(2-FURYL)-VINYL)-1,3,4-OXADIAZOLE □ NF 161 □ 1,3,4-OXADIAZOLE, 2-AMINO-5-(α -(5-NITROFURFURYLIDENE)FURFURYL)- □ 1,3,4-OXADIAZOL-2-AMINE, 5-(1-(2-FURANYL)-2-(5-NITRO-2-FURANYL)ETHENYL)-**TOXICITY DATA with REFERENCE:**dns-hmn-fbr 3 μ mol/L IDZAAW 48,291,1973
cyt-hmn-lym 2 μ mol/L IDZAAW 48,291,1973**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .**FPK000 CAS: 110-00-9 HR: 3****FURAN****DOT:** UN 2389mf: C_4H_4O mw: 68.08**PROP:** Water white volatile liquid. Mp: -85.65° , bp: 32° , lel: 2.3%, uel: 14.3%, flash p: $-32^\circ F$, d: 0.964 @ 0° , vap d: 2.35. Sol in EtOH, Et₂O; insol in H₂O.**SYNS:** AXOLE □ DIVINYLENE OXIDE □ 1,4-EPOXY-1,3-BUTADIENE □ FURAN (DOT) □ FURFURAN □ NCI-C56202 □

OXACYCLOPENTADIENE □ OXOLE □ RCRA WASTE NUMBER U124 □ TETROLE

TOXICITY DATA with REFERENCE:cyt-ham:ovr 184 mmol/L CALEDQ 13,89,81
orl-rat TDLo:1040 mg/kg/2Y-I:CAR NTPTR* NTP-TR-402,1993
ihl-rat LC50:3398 ppm/1H HAZL** HLA468-102,1987
ipr-rat LD50:5200 μ g/kg AIHAAP 40,310,1979
ihl-mus LC50:120 mg/m³/1H AIHAAP 40,310,1979
ipr-mus LD50:7 mg/kg AIHAAP 40,310,1979
orl-dog LDLo:234 mg/kg JPETAB 26,281,1926
ivn-dog LDLo:140 mg/kg JPETAB 26,281,1926
orl-rbt LDLo:234 mg/kg JPETAB 26,281,1926**CONSENSUS REPORTS:** NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Sufficient Evidence IMEMDT NTP-TR-402,93. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid**SAFETY PROFILE:** Confirmed carcinogen. Poison by inhalation and intraperitoneal routes. Moderately toxic by ingestion and skin contact. Experimental reproductive effects. A narcotic. Mutation data reported. The exposure concentration limit of 10 ppm together with its low boiling point requires that adequate ventilation be provided in areas where this chemical is handled. Contact with liquid must be avoided since this chemical can be absorbed through the skin. Washing thoroughly with soap and water followed by prolonged rinsing should be done immediately after accidental contact.A very dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. Unstabilized, it may form unstable peroxides on exposure to air and should always be tested before distillation. Washing with an aqueous solution of ferrous sulfate slightly acidified with sodium bisulfate will remove these peroxides. Confirm by test. Contact with acids can initiate a violent exothermic reaction. Moderate explosion hazard when exposed to flame. Furan's low boiling point makes it easy to obtain explosive concentrations of the vapor in inadequately ventilated areas. To fight fire, use CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also PEROXIDES.**FPK025 CAS: 623-30-3 HR: 2****2-FURANACROLEIN**mf: $C_7H_6O_2$ mw: 122.13**SYNS:** β -2-FURYLACROLEIN □ 3-(2-FURYL)ACROLEIN □ 3-(α -FURYL)PROPENAL □ 2-PROPENAL, 3-(2-FURANYL)-**TOXICITY DATA with REFERENCE:**

orl-rat LD50:>860 mg/kg JACTDZ 1,97,90

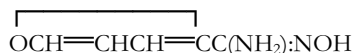
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.**FPK050 CAS: 539-47-9 HR: 3****2-FURANACRYLIC ACID**mf: $C_7H_6O_3$ mw: 138.13**PROP:** Colorless needles. pP: 141°.**TOXICITY DATA with REFERENCE:**

mmo-sat 10 µg/plate JOPHDQ 1,15,78

ipr-mus LD50:276 mg/kg YKKZAJ 104,793,84

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

FPK100 CAS: 50892-99-4 HR: 3
FURAN-2-AMIDOXIME
 mf: C₅H₆N₂O₂ mw: 126.11

**SAFETY PROFILE:** Explodes when heated above 100°C. Exothermic reaction if heated to 65°C. When heated to decomposition it emits toxic fumes of NO_x.

FPM000 CAS: 98-02-2 HR: 3
2-FURANMETHANETHIOL

DOT: UN 1228/UN 3071

mf: C₅H₆OS mw: 114.17**PROP:** A liquid with very disagreeable odor. Bp: 160°.**SYNS:** FURFURYL MERCAPTAN □ USAF B-58**TOXICITY DATA with REFERENCE:**

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

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 3; Label: Flammable Liquid, Poison (UN 1228); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3071)**SAFETY PROFILE:** Poison by intraperitoneal route. Experimental reproductive effects. Used as a flavoring in chocolate, fruit, nuts, and coffee. When heated to decomposition it emits toxic fumes of SO_x. See also MERCAPTANS.

FPM100 CAS: 623-17-6 HR: D
2-FURANMETHYL ACETATE
 mf: C₇H₈O₃ mw: 140.15

SYNS: ACETIC ACID FURFURYL ESTER □ 2-ACETOXY-METHYLFURAN □ 2-FURANMETHANOL, ACETATE (9CI) □ FURFURYL ACETATE □ FURFURYL ALCOHOL, ACETATE**TOXICITY DATA with REFERENCE:**

mmo-sat 1 mg/plate ENMUDM 8(Suppl 7),1,86

mma-sat 2500 µg/plate ENMUDM 8(Suppl 7),1,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

FPM150 CAS: 57566-47-9 HR: 3
FURANODIENE
 mf: C₁₅H₂₀O mw: 216.32

SYN: CYCLODECA(B)FURAN, 4,7,8,11-TETRAHYDRO-3,6,10-TRIMETHYL-, (5E,9E)-**TOXICITY DATA with REFERENCE:**

orl-mus TDLo:12.5 mg/kg BIPBU* 25,627,2002

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

FPM200 CAS: 123533-90-4 HR: D
2(5H)-FURANONE, 5-((1-METHYL-5-NITRO-1H-IMIDAZOL-2-YL)METHYLENE)-

mf: C₉H₇N₃O₄ mw: 221.19**SYN:** 5-((1-METHYL-5-NITRO-1H-IMIDAZOL-2-YL)METHYLENE)-2(5H)-FURANONE**TOXICITY DATA with REFERENCE:**

mic-bac-sat 1400 pmol/plate EMMUEG 19,167,92

uns-bac-esc pmol/tube (+S9) EMMUEG 19,167,92

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

FPM300 CAS: 6270-33-3 HR: 2
3-((2-FURANYLMETHYLENE)AMINO)-2-OXAZOLIDONE

mf: C₈H₈N₂O₃ mw: 180.18**SYNS:** FURAZOLIDONE, DENITRO- □ 2-OXAZOLIDINONE, 3-(FURFURYLIDENEAMINO)- □ 2-OXAZOLIDONE, 3-((2-FURANYLMETHYLENE)AMINO)-**TOXICITY DATA with REFERENCE:**

orl-mus LD50:801 mg/kg YHHPAL 24,737,1989

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

FPO000 CAS: 1951-56-0 HR: D
FURAPROMIDIUM

mf: C₁₀H₁₂N₂O₄ mw: 224.24**SYNS:** F30066 □ N-ISOPROPYL-5-NITRO-2-FURANACRYLAMIDE □ N-(ISOPROPYL)-3-(5-NITRO-2-FURANYL)-2-PROPENAMIDE □ N-ISOPROPYL-3-(5-NITRO-2-FURYL)ACRYLAMIDE □ N-(1-METHYLETHYL)-3-(5-NITRO-2-FURANYL)-2-PROPENAMIDE □ 2-PROPENAMIDE, N-(1-METHYLETHYL)-3-(5-NITRO-2-FURANYL)-(9CI) □ S30066**TOXICITY DATA with REFERENCE:**

mmo-sat 14 µmol/L MUREAV 48,37,77

mmo-nsc 200 µg/plate MUREAV 53,297,78

msc-ham:lng 120 µmol/L MUREAV 48,37,77

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

FPO100 CAS: 75888-03-8 HR: 3
FURAPYRIMIDONE

mf: C₉H₁₀N₄O₄ mw: 238.23**PROP:** Antifilarial agent.**SYNS:** 1-((5-NITROFURANYL-2)METHYLENEAMINO)TETRAHYDROPYRIMIDONE-2-ONE □ TETRAHYDRO-1-((5-NITROFURFURYLIDENE)AMINO)-2(1H)-PYRIMIDINONE □ TETRAHYDRO-1-(5-NITROFURFURYLIDENEAMINO)-2-PYRIMIDONE**TOXICITY DATA with REFERENCE:**

mmo-sat 100 ng/plate CYLPDN 4,201,83

mma-sat 100 ng/plate CYLPDN 4,201,83

orl-rat TDLo:1050 mg/kg (7-11D preg):TER CYLPDN 4,201,83

orl-mus LD50:243 mg/kg CYLPDN 1,56,80

ipr-mus LD50:720 mg/kg JPPMAB 16,663,64

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

FPO200 CAS: 65907-30-4 HR: 3**FURATHIOCARB**mf: C₁₈H₂₆N₂O₅S mw: 382.52**PROP:** Insecticide.

SYNS: BENZOFURAN, 2,3-DIHYDRO-2,2-DIMETHYL-7-(N-(N-METHYL-N-BUTOXYCARBONYLAMINOTHIO)-N-METHYL-CARBAMOYLOXY)- □ BUTYL 2,3-DIHYDRO-2,2-DIMETHYL-BENZOFURAN-7-YL N,N-DIMETHYL-N,N-THIODICARBAMATE □ CGA 73102 □ DELTANET □ PROMET □ PROMET 660SCO

TOXICITY DATA with REFERENCE:

orl-rat LD50:53 mg/kg 85JFAN A816,86
ihl-rat LC50:214 mg/m³/4H PEMNDP 9,448,91
skn-rat LD50:>2 g/kg FMCHA2 -,C250,91
orl-mus LD50:130 mg/kg JAFCAU 26,550,78

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

FPP100 CAS: 19237-84-4 HR: 3**FURAZOSIN HYDROCHLORIDE**mf: C₁₉H₂₁N₃O₄•ClH mw: 419.91

SYNS: ABBOTT-45975 □ 1-(4-AMINO-6,7-DIMETHOXY-2-QUINAZOLINYL)-4-(2-FURANYLCARBONYL)PIPERAZINE HYDROCHLORIDE □ 1-(4-AMINO-6,7-DIMETHOXY-2-QUINAZOLINYL)-4-(2-FUROYL)PIPERAZINE MONO-HYDROCHLORIDE □ 2-(4-(2-FUROYL)PIPERAZIN-1-YL)-4-AMINO-6,7-DIMETHOXYQUINAZOLINE HYDROCHLORIDE □ PRAZOSIN HYDROCHLORIDE □ TERAZOSIN

TOXICITY DATA with REFERENCE:

orl-man TDLo:1714 µg/kg HUTODJ 4,53,85
orl-hmn TDLo:285 µg/kg:CVS JAMAAP 238,157,77
orl-wmn TDLo:13 mg/kg/6W-I:CNS,PSY BMJOAE 293,1347,86
orl-wmn TDLo:10 µg/kg DICPBB 21,723,87
orl-rat LD50:1950 mg/kg IYKEDH 12,933,81
ipr-rat LD50:102 mg/kg NIIRDN 6,688,82
ivn-rat LD50:277 mg/kg NIIRDN 6,688,82
ipr-mus LD50:60 mg/kg NIIRDN 6,688,82
scu-mus LD50:3100 mg/kg NIIRDN 6,688,82

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

FPQ000 CAS: 9000-21-9 HR: 2**FURCELLERAN GUM**

PROP: Vegetable gum from *Furcellaria fastigiata* (Fam. *Rhodophyceae*) available as an odorless white powder. Sol in warm water.

SYN: BURTONITE 44**TOXICITY DATA with REFERENCE:**

orl-rat LD50:5000 mg/kg FDRLI* 124,-,76
orl-mus LD50:6000 mg/kg FDRLI* 124,-,76
orl-rbt LD50:3400 mg/kg FDRLI* 124,-,76
orl-ham LD50:4800 mg/kg FDRLI* 124,-,76

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FPQ050 CAS: 112839-32-4 HR: 2**cis-FURCONAZOLE**mf: C₁₅H₁₄Cl₂F₃N₃O₂ mw: 396.22**PROP:** Fungicide.

SYNS: LS 840606 □ 1H-1,2,4-TRIAZOLE, 1-((2-(2,4-DICHLOROPHENYL)TETRAHYDRO-5-(2,2,2-TRIFLUOROETHOXY)-2-FURANYL) METHYL)-, CIS-

TOXICITY DATA with REFERENCE:

orl-rat LD50:450 mg/kg PEMNDP 9,450,91
skn-rat LD50:>2 g/kg PEMNDP 9,450,91

SAFETY PROFILE: Moderately toxic by ingestion and skin contact routes. When heated to decomposition it emits toxic vapors of NO_x, F⁻, and Cl⁻.

FPQ100 CAS: 2385-81-1 HR: 3**FURETHIDINE**mf: C₂₁H₃₁NO₄ mw: 361.47

PROP: Bp: 175–183° @ 0.3 mm, mp: 28°, n: (20/D) 1.5219.

SYN: ETHYL 4-PHENYL-1-(2-TETRAHYDROFURFURYLOXY-ETHYL)PIPERIDINE-4-CARBOXYLATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:135 mg/kg BJPCAL 15,254,60
scu-rat LD50:26 mg/kg BJPCAL 15,254,60
ivn-mus LD50:15,500 µg/kg BJPCAL 15,254,60

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. Can be habit forming. This is a controlled substance (opiate) listed in the U.S. Code of Federal Regulations, Title 21 Part 1308.11 (1985). When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS.

FPQ875 CAS: 98-01-1 HR: 3**FURFURAL****DOT:** UN 1199mf: C₅H₄O₂ mw: 96.09

PROP: Colorless–yellowish liquid; almond-like odor. Bp: 161.7° @ 764 mm, lel: 2.1%, uel: 19.3%, flash p: 140°F (CC), d: 1.154–1.158, refr index: 1.522–1.528, autoign temp: 600°F, vap d: 3.31. Sol in water; misc with alc. IDLH 100 ppm.

SYNS: ARTIFICIAL ANT OIL □ FEMA No. 2489 □ FURAL □ 2-FURALDEHYDE □ FURALE □ 2-FURANALDEHYDE □ 2-FURANCARBONAL □ 2-FURANCARBOXALDEHYDE □ 2-FURFURAL □ FURFURALDEHYDE □ FURFURALE (ITALIAN) □ FURFUROL □ FURFUROLE □ 2-FURIL-METANALE (ITALIAN) □ FUROLE □ α-FUROLE □ 2-FURYL-METHANAL □ NCI-C56177 □ PYROMUCIC ALDEHYDE □ RCRA WASTE NUMBER U125

TOXICITY DATA with REFERENCE:

skn-rbt 20 mg/24H MOD 85JCAE -,788,86
eye-rbt 100 mg/24H MOD 85JCAE -,788,86
skn-rbt 500 mg/24H MLD FCTXAV 16,759,78
eye-rbt 20 mg/24H MOD 28ZPAK -,139,72
eye-rbt 50 mg MLD 34ZIAG -,279,69
sln-dmg-par 100 ppm ENMUDM 7,677,85
sce-hmn:lym 70 µmol/L MUREAV 156,233,85
ihl-hmn TClO:310 µg/m³ GISAAA 26(6),3,61
orl-rat LD50:65 mg/kg BCTKAG 13,371,80

ihl-rat LCLo:153 ppm/4H 28ZPAK -,139,72
 ipr-rat LD50:20 mg/kg FCTXAV 16,759,78
 scu-rat LD50:148 mg/kg 34ZIAG -,279,69
 orl-mus LD50:400 mg/kg BIJOAK 34,1196,40
 ihl-mus LCLo:370 ppm/6H 34ZIAG -,279,69
 ipr-mus LD50:102 mg/kg FCTXAV 16,759,78
 scu-mus LD50:119 mg/kg FCTXAV 16,759,78
 ivn-mus LD50:152 mg/kg FCTXAV 16,759,78
 orl-dog LD50:950 mg/kg 34ZIAG -,279,69
 ihl-dog LC50:370 ppm/6H 34ZIAG -,279,69
 skn-rbt LDLo:620 mg/kg FCTXAV 16,759,78

CONSENSUS REPORTS: NTP Carcinogenesis

Studies (gavage); Clear Evidence: mouse NCITR* NTP-TR-382,90, Some Evidence: rat NCITR* NTP-TR-382,90. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2 ppm (skin)

ACGIH TLV: TWA 2 ppm (skin); Animal Carcinogen: BEI: 200 mg/g creatinine of total furoic acid in urine at end of shift

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Confirmed carcinogen. Poison by ingestion, intraperitoneal, subcutaneous, intravenous, and intramuscular routes. Moderately toxic by inhalation and skin contact. Human mutation data reported. A skin and eye irritant. Mutation data reported. The liquid is dangerous to the eyes. The vapor is irritating to mucous membranes and is a central nervous system poison. However, its low volatility reduces its toxicity effect. Ingestion of furfural has produced cirrhosis of the liver in rats. In industry there is a tendency to minimize the danger of acute effects resulting from exposure to it. This is particularly true because of its low volatility.

Flammable liquid when exposed to heat or flame; can react with oxidizing materials. Moderate explosion hazard when exposed to heat or flame or by chemical reaction. An exothermic polymerization of almost explosive violence can occur upon contact with strong mineral acids or alkalis. Keep away from heat and open flames. Mixture with sodium hydrogen carbonate ignites spontaneously. To fight fire, use alcohol foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-72 or NIOSH: Furfural, 2529.

FPQ900 CAS: 28438-99-5 HR: 3
FURFURAL ACETONE MONOMER FA

SYNS: FA □ FA MONOMER □ FURFURAL-ACETONE ADDUCT □ FURFURAL-ACETONE MONOMER □ 1:1 FURFURAL-ACETONE MONOMER □ FURFUROLATSET-ONOVYI MONOMER FA □ MONOMER FA

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MLD 28ZPAK -,275,72
 eye-rbt 500 mg/24H MLD 28ZPAK -,275,72
 orl-rat LD50:592 mg/kg 28ZPAK -,275,72
 skn-rat LD50:2600 mg/kg GTPZAB 18(5),53,74
 orl-mus LD50:980 mg/kg GTPZAB 18(5),53,74
 orl-rbt LD50:285 mg/kg GTPZAB 18(5),53,74
 skn-rbt LD50:900 mg/kg GTPZAB 18(5),53,74

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

FPR000 CAS: 1121-47-7 HR: 3
FURFURAL OXIME

mf: C₅H₅NO₂ mw: 111.11

TOXICITY DATA with REFERENCE:

ipr-mus LD50:500 mg/kg JPETAB 119,522,57
 ivn-mus LD50:180 mg/kg CSLNX* NX#03758

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes such as NO_x.

FPS000 CAS: 494-47-3 HR: 3
FURFURAMIDE

mf: C₁₅H₁₂N₂O₃ mw: 268.29

PROP: Needles from alc. Mp: 117–21°, bp: 250° decomp. Insol in water; decomp in acid; sol in alc and ether.

SYNS: 2-(BIS(FURFURYLIDENAMINO))METHYLFURAN □ HYDROFURAMIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:400 mg/kg HYSAAV 29,37,64
 orl-mus LD50:1200 mg/kg BIJOAK 34,1196,40
 orl-rbt LDLo:50 mg/kg HYSAAV 29,37,64

SAFETY PROFILE: Poison by ingestion. A skin, eye, and mucous membrane irritant. Causes intense pulmonary irritation and reported to cause liver and kidney damage. When heated to decomposition it emits toxic fumes of NO_x. A component of fungicides. See also AMINES and AMIDES.

FPT000 CAS: 699-17-2 HR: 3
FURFURYLACETONE

mf: C₈H₁₀O₂ mw: 138.18

PROP: Oil with fruity odor. D: 1.036 @ 19°/4°, bp: 203°.

SYN: 4-(2-FURYL)-2-BUTANONE

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:62,500 µg/kg CBCCT* 6,217,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FPT100 CAS: 525-79-1 HR: 2
N-FURFURYLADENINE

mf: C₁₀H₉N₅O mw: 215.24

PROP: White crystalline powder, odorless. Mp: 269–271°. Sltly sol in water.

SYNS: ADENINE, N-FURFURYL- □ FAP □ N⁶-FURFURYL-ADENINE □ 6-FURFURYLADENINE □ N⁶-(FURFURYLAMINO)-PURINE □ 6-(FURFURYLAMINO)PURINE □ KINETIN □ KINETIN (PLANT HORMONE)

TOXICITY DATA with REFERENCE:

dns-hmn:leu 1 µmol/L EXPEAM 32,29,76

oth-hmn:leu 1 $\mu\text{mol/L}$ EXPEAM 32,29,76
 dni-hmn:leu 100 $\mu\text{mol/L}$ EXPEAM 32,29,76
 ipr-mus LD50:450 mg/kg NYKZAU 61(2),43S,65

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

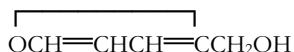
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Human mutation data reported. When heated to decomposition it emits toxic vapors of NO_x .

FPU000 CAS: 98-00-0 HR: 3

FURFURYL ALCOHOL

DOT: UN 2874

mf: $\text{C}_5\text{H}_6\text{O}_2$ mw: 98.11



PROP: Clear, colorless, mobile liquid. Mp: -31° , lel: 1.8%, uel: 16.3% (between 72 and 122°), bp: 171° @ 750 mm, flash p: 167°F (OC), d: 1.129 @ $20^\circ/4^\circ$, autoign temp: 915°F , vap press: 1 mm @ 31.8° , vap d: 3.37. Misc in H_2O ; very sol in EtOH and Et_2O . IDLH 75 ppm.

SYNS: 2-FURANCARBINOL \square 2-FURANMETHANOL \square FURFURAL ALCOHOL \square 2-FURFURYLALKOHOL (CZECH) \square FURYL ALCOHOL \square α -FURYL CARBINOL \square 2-FURYL CARBINOL \square (2-FURYL)METHANOL \square 2-HYDROXYMETHYLFURAN \square NCI-C56224

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H MOD 85JCAE -,787,86
 cyt-ham:ovr 2500 $\mu\text{mol/L}$ CALEDQ 13,89,81
 orl-rat LD50:177 mg/kg GTPZAB 25(9),52,81
 orl-rat LD50:88,300 $\mu\text{g/kg}$ 28ZPAK -,139,72
 ihl-rat LC50:233 ppm/4H AIHAAP 19,91,58
 ipr-rat LD50:650 mg/kg NPRI* 1,64,74
 scu-rat LD50:85 mg/kg 34ZIAG -,280,69
 orl-mus LD50:160 mg/kg BIJOAK 34,1196,40
 ihl-mus LCLo:597 ppm/6H 34ZIAG -,280,69
 skn-rbt LD50:400 mg/kg 34ZIAG -,280,69
 ivn-rbt LD50:650 mg/kg FEPA7 8,294,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 10 ppm; STEL 15 ppm (skin)

ACGIH TLV: TWA 10 ppm; STEL 15 ppm (skin)

DFG MAK: 10 ppm (41 mg/ m^3)

NIOSH REL: (Furfuryl Alcohol) TWA 200 mg/ m^3

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Poison by ingestion, skin contact, and subcutaneous routes. Moderately toxic by inhalation and intraperitoneal routes. Mutation data reported. An eye irritant. Flammable when exposed to heat or flame; can react with oxidizing materials. Moderate explosion hazard when exposed to heat or flame. Reacts violently with acids (e.g., formic acid, cyanoacetic acid + heat). Ignites on contact with 85% hydrogen peroxide. To fight fire, use alcohol foam, CO_2 , dry chemical. When heated to decomposition it emits acrid smoke and fumes.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Furfuryl Alcohol 2505.

FPU000 CAS: 10427-00-6 HR: 3
FURFURYL ALCOHOL PHOSPHATE (3:1)

mf: $\text{C}_{15}\text{H}_{27}\text{O}_7\text{P}$ mw: 350.39

TOXICITY DATA with REFERENCE:

ivn-mus LD50:320 mg/kg CSLNX* NX#03980

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FPW000 CAS: 617-89-0 HR: 3

FURFURYLAMINE

DOT: UN 2526

mf: $\text{C}_5\text{H}_7\text{NO}$ mw: 97.13

PROP: Light straw-colored liquid or oil. Bp: 146° , flash p: 99°F (OC), fp: -70° , d: 1.0502 @ 25° , vap d: 3.35. Misc in water.

SYNS: 2-FURANMETHYLAMINE \square 1-(2-FURYL)METHYLAMINE \square USAF Q-1

TOXICITY DATA with REFERENCE:

ipr-mus LD50:200 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intraperitoneal route. A skin, eye, and mucous membrane irritant. A dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO_2 , dry chemical. When heated to decomposition it emits toxic fumes of NO_x . See also AMINES.

FPW100 CAS: 63956-95-6 HR: 2
FURFURYLAMINE, TETRAHYDRO-N,N-BIS(2-CHLOROETHYL)-

mf: $\text{C}_9\text{H}_{17}\text{Cl}_2\text{NO}$ mw: 226.17

SYNS: DIETHYLAMINE, 2,2'-DICHLORO-N-TETRAHYDRO-FURFURYL- \square TL 995

TOXICITY DATA with REFERENCE:

ihl-mus LCLo:850 mg/ $\text{m}^3/5\text{M}$ NDRC** No.9-4-1-19,43

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

FPX000 CAS: 67227-30-9 HR: 3
FURFURYL-BIS(2-CHLOROETHYL)AMINE HYDROCHLORIDE

mf: $\text{C}_9\text{H}_{13}\text{Cl}_2\text{NO}\cdot\text{ClH}$ mw: 258.59

SYNS: N,N-BIS(2-CHLOROETHYL)FURFURYLAMINE HYDROCHLORIDE \square 2,2'-DICHLORO-N-FURFURYLDIETHYLAMINE HYDROCHLORIDE \square FURFURYL-BIS(β -CHLOROETHYL)AMINE HYDROCHLORIDE \square TL 1055

TOXICITY DATA with REFERENCE:

ihl-mus LCLo:500 mg/ $\text{m}^3/10\text{M}$ NDRC** 30101,5,45

ipr-mus LD50:12 mg/kg CANCAR 2,1055,49

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

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

FPX025 CAS: 4437-22-3 HR: 3
FURFURYL ETHER

mf: C₁₀H₁₀O₃ mw: 178.20

SYNS: DIFURFURYL ETHER (7CI) □ 2,2'-DIFURFURYL ETHER □ FURAN, 2,2'-(OXYBIS(METHYLENE))BIS- □ FURAN, 2,2'-(OXYDIMETHYLENE)DI-(6CI,8CI) □ 2,2'-(OXYBIS(METHYLENE))BISFURAN

TOXICITY DATA with REFERENCE:

orl-rat LD50:210 mg/kg JACTDZ 1,93,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FPX028 CAS: 1197-40-6 HR: 3
2-(2-FURFURYL)FURAN

mf: C₉H₈O₂ mw: 148.17

SYNS: DIFURYLMETHANE □ DI-α-FURYLMETHANE □ DI-2-FURYLMETHANE □ 2,2'-DIFURYLMETHANE □ FURAN, 2,2'-METHYLENEDI- □ FURAN, 2,2'-METHYLENEBIS- □ 2,2'-METHYLENEBISFURAN

TOXICITY DATA with REFERENCE:

eye-rbt 100 µL/24H MOD NTIS** OTS0544684

ihl-rat LCLo:2610 mg/m³/4H NTIS** OTS0544691

skn-rbt LD50:35,257 µg/kg NTIS** OTS0544684

SAFETY PROFILE: A poison by skin contact. Low toxicity by inhalation. A moderate eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

FPX030 CAS: 623-15-4 HR: 3
2-FURFURYLIDENEACETONE

mf: C₈H₈O₂ mw: 136.16**PROP:** Fresh odor fragrance.

SYNS: 3-BUTEN-2-ONE, 4-(2-FURANYL)- □ 3-BUTEN-2-ONE, 4-(2-FURYL)-(6CI,8CI) □ 4-(2-FURANYL)-3-BUTEN-2-ONE □ FURFURALACETONE □ FURFURYLIDENEACETONE □ MONOFURFURYLIDENEACETONE

TOXICITY DATA with REFERENCE:

unr-rat LD50:321 mg/kg GISAAA 52(8),87,87

unr-mus LD50:216 mg/kg GISAAA 52(8),87,87

unr-rbt LD50:158 mg/kg GISAAA 52(8),87,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FPX050 CAS: 874-66-8 HR: 2
FURFURYLIDINE-2-PROPANAL

mf: C₈H₈O₂ mw: 136.16**PROP:** Japanese food flavoring.

SYNS: 3-FURANACROLEIN, 2-METHYL- □ α-METHYLFURYLACROLEIN □ α-METHYL-β-FURYLACROLEIN □ 2-METHYL-3-FURYLACROLEIN □ 2-METHYL-3-(2-FURYL)ACROLEIN □ 2-METHYL-3-(2-FURYL)PROPENAL □ 2-PROPENAL, 3-(2-FURANYL)-2-METHYL-

TOXICITY DATA with REFERENCE:

orl-rat LD50:1400 mg/kg JACTDZ 1,3,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FPX100 CAS: 1438-94-4 HR: 3
N-FURFURYL PYRROLE

mf: C₉H₉NO mw: 147.19**PROP:** Scent of coffee.

SYNS: 1-FURFURYLPIRROLE □ N-(2-FURFURYL)PYRROLE □ PYRROLE, 1-FURFURYL-

TOXICITY DATA with REFERENCE:

orl-mus LD50:380 mg/kg DCTODJ 3,249,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FPY000 CAS: 541-64-0 HR: 3
FURFURYLTRIMETHYLAMMONIUM IODIDE

mf: C₈H₁₄NO•I mw: 267.13**PROP:** A solid. Mp: 116–117°.

SYNS: FT □ FURAMON □ FURAMON IODIDE □ FURANOL □ FURMETHIDE □ FURMITHIDE IODIDE □ FURTHRETHONIUM IODIDE □ FURTRIETHONIUM IODIDE □ FURTRIETHONIUM IODIDE □ N,N,N-TRIMETHYL-2-FURANMETHANAMINIUM IODIDE □ TRIMETHYLFURFURYLAMMONIUM IODIDE

TOXICITY DATA with REFERENCE:

scu-rat LD50:90 mg/kg JPETAB 68,231,40

ipr-mus LD50:50 mg/kg PCJOAU 6,501,72

ivn-mus LD50:9750 µg/kg TXAPA9 37,184,76

scu-dog LDLo:5 mg/kg JPETAB 68,231,40

SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x, NH₃, and I₂. See also IODIDES.

FPZ000 CAS: 492-94-4 HR: 3
FURIL

mf: C₁₀H₆O₄ mw: 190.16

PROP: Yellow needles from C₆H₆ or EtOH. Mp: 165–166°. IDLH 500 mg/m³.

SYNS: BIPYROMUCYL □ DI-2-FURANYLETHANEDIONE □ DI-2-FURYLGLYOXAL □ α-FURIL □ 2,2'-FURIL

TOXICITY DATA with REFERENCE:

ivn-mus LD50:56 mg/kg CSLNX* NX#03858

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

FPZ200 CAS: 121776-33-8 HR: 2
FURILAZOLE

mf: C₁₁H₁₃Cl₂NO₃ mw: 278.14

SYN: OXAZOLIDINE, 3-(DICHLOROACETYL)-5-(2-FURANYL)-2,2-DIMETHYL-

TOXICITY DATA with REFERENCE:

skn-unr LD50: 5000 mg/kg FEREAC 65,8861,2000

ihl-unr LC50: 2.3 g/m³ FEREAC 65,8861,2000

orl-unr LD50: 521 mg/kg FEREAC 65,8861,2000

SAFETY PROFILE: Moderately toxic by ingestion, inhalation, and skin contact. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and Cl⁻.

FQB000 CAS: 4339-69-9 HR: 3
α-FURILMONOXIME

mf: C₁₀H₇NO₄ mw: 205.18

PROP: Yellow crystals. Mp: 97–98°.

SYNS: DI-2-FURYLGLYOXAL MONOXIME □ 2,2'-OXALYDIFURAN OXIME

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg/24H MOD 28ZPAK -,141,72

orl-rat LD50:2580 mg/kg 28ZPAK -,141,72

ivn-mus LD50:56 mg/kg CSLNX* NX#04786

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

FQB100 CAS: 72239-53-3 HR: 3
FURISYL

mf: C₁₆H₂₀N₆O₄ mw: 360.42

SYNS: 5-(4,6-DIAZIRIDINYL-2-s-TRIAZINYLAMINO)-2-FURYL-m-DIOXANE-5-METHANOL □ 1,3-DIOXANE-5-METHANOL_s-5-((4,6-BIS(1-AZIRIDINYL)-1,3,5-TRIAZIN-2-YL)AMINO)-2-(2-FURANYL)- □ m-DIOXANE-5-METHANOL, 2-FURYL-5-(4,6-DIAZIRIDINYL-2-s-TRIAZINYLAMINO)- □ s-TRIAZINE-4,6-DIAZIRIDINYL-2-(2-FURYL-5-HYDROXYMETHYL-m-DIOXAN-5-YLAMINO)-

TOXICITY DATA with REFERENCE:

ipr-rat LD50:6992 µg/kg JSNDX 1,239,1978

ipr-mus LD50:2992 µg/kg KHZAN 12(4),67,1978

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

FQC000 CAS: 523-50-2 HR: 3
2H-FURO(2,3-h)(1)BENZOPYRAN-2-ONE

mf: C₁₁H₆O₃ mw: 186.17

PROP: A solid. Mp: 138–139.5°.

SYNS: ANGECIN □ ANGELICIN (coumarin derivative) □ FURO(5',4',7,8)COUMARIN □ ISOPSORALIN

TOXICITY DATA with REFERENCE:

mno-esc 40 mg/L MUREAV 58,23,78

mno-smc 50 µmol/L BUCABS 67,245,80

orl-rat LD50:322 mg/kg IJMRAQ 63,833,75

ipr-rat LD50:165 mg/kg IJMRAQ 63,833,75

ipr-mus LD50:254 mg/kg IJMRAQ 63,833,75

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 40,291,86. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Questionable carcinogen. Mutation data reported. A tranquilizer, sedative, and anticonvulsant. When heated to decomposition it emits acrid smoke and irritating fumes.

FQD000 CAS: 66-97-7 HR: D
7H-FURO(3,2-g)(1)BENZOPYRAN-7-ONE

mf: C₁₁H₆O₃ mw: 186.17

PROP: Needles from H₂O or MeOH or EtOH. Mp: 171°.

SYNS: FICUSIN □ FUROCUMARIN □

FURO(2',3',7,6)COUMARIN □ FURO(4',5',6,7)COUMARIN □ PSORALEN

TOXICITY DATA with REFERENCE:

mno-esc 20 mg/L MUREAV 58,23,78

mno-smc 50 µmol/L BUCABS 67,245,80

mrc-smc 50 µmol/L BUCABS 56,245,80

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

FQD100 CAS: 85878-63-3 HR: 2
5H-FURO(3',2':6,7)(1)BENZOPYRANO(3,4-C)PYRIDIN-5-ONE, 7-METHYL plus ULTRAVIOLET A RADIATION

mf: C₁₅H₉NO₃ mw: 251.25

SYN: 7-METHYLPYRIDO(3,4-C)PSORALEN plus ULTRAVIOLET A RADIATION

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Human No Adequate Data IMEMDT 40,349,86; Animal Inadequate Evidence IMEMDT 40,349,86.

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

FQD130 CAS: 22975-76-4 HR: 2
2H-FURO(2,3-H)(1)BENZOPYRAN-2-ONE, 4,9-DIMETHYL-, plus ULTRAVIOLET A RADIATION

mf: C₁₃H₁₀O₃ mw: 214.23

SYNS: 4,4'-DIMETHYLANGELICIN plus ULTRAVIOLET A RADIATION □ 4,9-DIMETHYL-2H-FURO(2,3-H)-1-

BENZOPYRAN-2-ONE plus ULTRAVIOLET A RADIATION □ 4,4'-DIMETHYLISOPSORALEN plus ULTRAVIOLET A RADIATION

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal No Adequate Data IMEMDT 40,291,86; Human No Adequate Data IMEMDT 40,291,86.

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

FQD140 CAS: 90370-29-9 HR: 2
2H-FURO(2,3-H)(1)BENZOPYRAN-2-ONE, 4,6,9-TRIMETHYL-, plus ULTRAVIOLET A RADIATION

mf: C₁₄H₁₂O₃ mw: 228.26

SYNS: 4,4',6-TRIMETHYLANGELICIN plus ULTRAVIOLET A RADIATION □ 4,6,9-TRIMETHYL-2H-FURO(2,3-H)(1)BENZOPYRAN-2-ONE plus ULTRAVIOLET A RADIATION

CONSENSUS REPORTS: IARC Cancer Review:

Group 3 IMEMDT 7,56,87; Animal No Adequate Data IMEMDT 40,291,86; Human No Adequate Data IMEMDT 40,291,86.

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

FQD142 CAS: 85878-62-2 HR: 2
5H-FURO(3',2':6,7)(1)BENZOPYRANO(3,4-C)PYRIDIN-5-ONE plus ULTRAVIOLET A

RADIATIONmf: C₁₄H₇NO₃ mw: 237.22**SYN:** PYRIDO(3,4-C)PSORALEN plus ULTRAVIOLET A RADIATION**CONSENSUS REPORTS:** IARC Cancer Review: Group 3 IMEMDT 7,56,87; Human No Adequate Data IMEMDT 40,349,86; Animal Inadequate Evidence IMEMDT 40,349,86.**SAFETY PROFILE:** Questionable carcinogen. When heated to decomposition it emits toxic vapors of NO_x.**FQE000 CAS: 26447-28-9 HR: 2
FUROIC ACID**mf: C₅H₄O₃ mw: 112.09**PROP:** White solid. Mp: 133°, bp: 230–232°.**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1000 mg/kg BIJOAK 34,1196,40

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. A bactericide. When heated to decomposition it emits acrid smoke and irritating fumes.**FQF000 CAS: 88-14-2 HR: 3
2-FUROIC ACID**mf: C₅H₄O₃ mw: 112.09**PROP:** Monoclinic prisms or leaflets. Mp: 133–134°; bp: 230–232°. Mod sol in cold water, alc and ether; very sol in hot water.**SYNS:** 2-CARBOXYFURAN □ α-FURANCARBOXYLIC ACID □ α-FUROIC ACID □ PYROMUCIC ACID**TOXICITY DATA with REFERENCE:**

mmo-sat 10 µg/plate JOPHDQ 1,15,78

ipr-mus LD50:100 mg/kg PHREEB 2,233,85

CONSENSUS REPORTS: A poison by intraperitoneal route. Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.**FQI000 CAS: 552-86-3 HR: 3
FUROIN**mf: C₁₀H₈O₄ mw: 192.18**PROP:** Pale-brown needles of methyl alcohol. Mp: 138–139°, bp: decomp. Very stlty sol in hot water; stlty sol in hot alc and in hot toluene; stlty sol in ether.**SYN:** 2-FURYL α-HYDROXYFURFURYL KETONE**TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:64 mg/kg CBCCT* 2,301,50

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating fumes.**FQJ000 CAS: 2578-75-8 HR: 2
FUROTHIAZOLE**mf: C₈H₆N₄O₄S mw: 254.24**SYN:** N-(5-(5-NITRO-2-FURYL)-1,3,4-THIADIAZOL-2-YL)ACETAMIDE**TOXICITY DATA with REFERENCE:**

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

mmo-esc 300 nmol/L CNREA8 34,2266,74

orl-mus TDLo:80 g/kg/46W-C:NEO CNREA8 33,1593,73

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.**FQJ025 CAS: 20762-98-5 HR: 3
2-FUROYL AZIDE**mf: C₅H₃N₃O₂ mw: 137.10**PROP:** Pesticide.**SAFETY PROFILE:** Explodes violently when heated. When heated to decomposition it emits toxic fumes of NO_x. See also AZIDES.**FQJ050 CAS: 1300-32-9 HR: 3
FUROYL CHLORIDE**mf: C₅H₃ClO₂ mw: 130.53**SAFETY PROFILE:** Can explode spontaneously in storage. When heated to decomposition it emits toxic fumes of Cl⁻. See also CHLORIDES.**FQJ100 CAS: 804-30-8 HR: 2
FURSULTIAMIN**mf: C₁₇H₂₆N₄O₃S₂ mw: 398.59**PROP:** Crystalline powder with coffee flavor. Mp: 148–150°. Decomp @ 132°. Sparingly sol in water; sol in org solvs, dil mineral acids.**SYNS:** ADVENTAN □ ALINAMIN F □ DITEFTIN □ FURSULTIAMINE □ JUDOLOR □ LINAMIN □ RETAR-B₁ □ THIAMINE TETRAHYDROFURFURYL DISULFIDE □ TTFD**TOXICITY DATA with REFERENCE:**

orl-mus LD50:2200 mg/kg NIIRDN 6,699,82

ipr-mus LD50:540 mg/kg TAKHAA 30,242,71

ivn-mus LD50:430 mg/kg NIIRDN 6,699,82

SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic fumes of SO_x and NO_x.**FQK000 CAS: 3878-19-1 HR: 3
2-(2-FURYL)BENZIMIDAZOLE**mf: C₁₁H₈N₂O mw: 184.21**PROP:** Crystals or powder. Mp: 286° (decomp). Very stlty sol in H₂O; stlty sol in org solvs.**SYNS:** BAYER 33172 □ FUBERIDATOL □ FUBERIDAZOLE □ FUBERISAZOL □ FUBRIDAZOLE □ 2-(2-FURANYL)-1H-BENZIMIDAZOLE □ FURIDAZOL □ FURIDAZOLE □ 2-(2'-FURYL)-BENZIMIDAZOLE □ VORONITE □ W VII/117**TOXICITY DATA with REFERENCE:**

mmo-sat 100 µg/plate MUREAV 15,273,72

orl-rat LD50:500 mg/kg FMCHA2 -,C148,91

ihl-rat LC50:330 mg/m³/4H 85DPAN -,71/76

skn-rat LD50:500 mg/kg 85DPAN -,71/76

ipr-rat LD50:100 mg/kg GUCHAZ 6,290,73

orl-mus LD50:825 mg/kg 85DPAN -,71/76

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.

SAFETY PROFILE: Poison by inhalation and intraperitoneal routes. Moderately toxic by ingestion and skin contact. Mutation data reported. A fungicide. When heated to decomposition it emits toxic fumes of NO_x.

FQL100 CAS: 32954-58-8 HR: 3

1-(3-FURYL)-4-HYDROXYPENTANONE

mf: C₉H₁₂O₃ mw: 168.21

SYNS: 1-(β-FURYL)-4-HYDROXYPENTANONE □ IPOMEANOL □ 4-IPOMEANOL

TOXICITY DATA with REFERENCE:

ipr-rat LD50:17 mg/kg TXCYAC 19,85,81

orl-mus LD50:38 mg/kg BBACAQ 337,184,74

ipr-mus LD50:11 mg/kg TXAPA9 66,193,82

ivn-mus LD50:21 mg/kg BBACAQ 337,184,74

ipr-rbt LD50:30 mg/kg TXCYAC 19,85,81

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

FQL200 CAS: 4682-94-4 HR: 3

2-FURYL p-HYDROXYPHENYL KETONE

mf: C₁₁H₈O₃ mw: 188.19

SYNS: DB 133 □ HYDROXY-4 BENZOYL-2-FURANNE □ KETONE, 2-FURYL p-HYDROXYPHENYL

TOXICITY DATA with REFERENCE:

ipr-mus LD50:300 mg/kg AIPTAK 147,497,64

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

FQM000 CAS: 63905-60-2 HR: 3

2-FURYLISOPROPYLAMINE SULFATE

mf: C₇H₁₁NO•H₂O₄S mw: 223.27

SYN: β-(2-FURYL)ISOPROPYLAMINE SULFATE

TOXICITY DATA with REFERENCE:

orl-man TDLo:290 µg/kg;CNS;CVS JPETAB 72,265,41

ipr-mus LD50:348 mg/kg JPETAB 72,265,41

SAFETY PROFILE: Poison by intraperitoneal route. Human systemic effects by ingestion of very small amounts: changes in EEG, excitement, and unspecified vascular effects. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also SULFATES and AMINES.

FQM100 CAS: 699-18-3 HR: 3

2-FURYL-1-NITROETHENE

mf: C₆H₅NO₃ mw: 139.12

SYNS: FURAN, 2-(2-NITROVINYL)- □ G-0 □ β-NITRO-VINYLFURAN

TOXICITY DATA with REFERENCE:

sce-hmn-lym 10 mg/L/48H MUREAV 497,177,2001

sce-hmn-lym 15 mg/L/3H MUREAV 497,177,2001

orl-rat LDLo:250 mg/kg NCNSA6 5,33,1953

ihl-mus LCLo:305 mg/m³/10M NDRC** NDCrc-132,NOV1942

SAFETY PROFILE: A poison by ingestion.

Moderately toxic by inhalation. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

FQN000 CAS: 3688-53-7 HR: 3
2-(2-FURYL)-3-(5-NITRO-2-FURYL)ACRYLAMIDE

mf: C₁₁H₈N₂O₅ mw: 248.21

SYNS: AF-2 (preservative) □ FF □ FURYLAMIDE □ FURYLURAMIDE □ α-2-FURYL-5-NITRO-2-FURAN-ACRYLAMIDE □ 2-(2-FURYL)-3-(5-NITRO-2-FURYL)ACRYLIC ACID AMIDE □ α-(FURYL)-β-(5-NITRO-2-FURYL)ACRYLIC AMIDE □ TOFURON

TOXICITY DATA with REFERENCE:

mno-sat 4 µg/L MUREAV 147,219,85

sce-hmn:lym 500 µg/L CNREA8 40,4775,80

scu-mus TDLo:150 mg/kg (13-17D preg):NEO,TER NATUAS 258,610,75

orl-rat LD50:1554 mg/kg TJEMAO 103,331,71

orl-mus LD50:221 mg/kg NEZAAQ 28,463,73

CONSENSUS REPORTS: IARC Cancer Review:

Group 2B IMEMDT 7,56,87; Human Inadequate Evidence IMEMDT 31,47,83; Animal Sufficient Evidence IMEMDT 31,47,83. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and teratogenic data. Poison by ingestion. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

FQO000 HR: D
trans-2-(2-FURYL)-3-(5-NITRO-2-FURYL)-ACRYLAMIDE

mf: C₁₁H₈N₂O₅ mw: 248.21

PROP: Antimicrobial food additive.

SYNS: AF2 □ FF □ FURYLURAMIDE □ (E)-2-(2-FURYL)-3-(5-NITRO-2-FURYL)ACRYLAMIDE

TOXICITY DATA with REFERENCE:

mno-sat 1 ng/plate ENMUDM 5(Suppl 1),3,83

dnr-hmn:fbr 10 mg/L CBINA8 21,89,78

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

FQO050 CAS: 6453-98-1 HR: 3

3-FURYL PHENYL KETONE

mf: C₁₁H₈O₂ mw: 172.19

SYNS: 3-BENZOYLFURAN □ 3-FURANYLPHENYLMETHANONE □ KETONE, 3-FURYL PHENYL □ METHANONE, 3-FURFANYLPHENYL-(9CI)

TOXICITY DATA with REFERENCE:

ipr-mus LD50:29,788 µg/kg JANSAG 68,1072,90

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

FQQ100 CAS: 75884-37-6 HR: 2
N-(4-(2-FURYL)-2-THIAZOLYL)ACETAMIDE

mf: C₉H₈N₂O₂S mw: 208.25

SYN: FTA

TOXICITY DATA with REFERENCE:

orl-mus TDLo:1008 mg/kg/12W-C:ETA CNREA8 41,1397,81

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

FQQ400 CAS: 77503-17-4 HR: 2 N-(4-(2-FURYL)-2-THIAZOLYL)FORMAMIDE

mf: C₈H₆N₂O₂S mw: 194.22

SYN: FAFT

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

FQQ500 CAS: 4685-18-1 HR: 2 FURYLTRIAZINE

mf: C₇H₇N₃O mw: 177.19

SYNS: AI 3-22641 □ 2,4-DIAMINO-6-(2-FURYL)-s-TRIAZINE □ ENT 22641 □ ENT 60229 □ s-TRIAZINE, 2,4-DIAMINO-6-(2-FURYL)- □ 1,3,5-TRIAZINE-2,4-DIAMINE, 6-(2-FURYL)-

TOXICITY DATA with REFERENCE:

uns-skn-uns 4200 ppm ABABAC 17,661,1977

ipr-mus LDLo:500 mg/kg CBCCT* 9,136,1957

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

FQR000 CAS: 23255-69-8 HR: 3 FUSARENONE X

mf: C₁₇H₂₂O₈ mw: 354.39

PROP: Crystals. Mp: 181–184°. Isolated from the culture filtrate of *Fusarium nivale* (34ZHAD -,163,71).

SYNS: 4-ACETILOXY-12,13-EPOXY-3,7,15-TRIHIDROXY-(3-α,4-β,7-β)-TRICHOTHEC-9-EN-8-ONE □ NIVALENOL-4-O-ACETATE □ 3,7,15-TRIHIDROXY-4-ACETOXY-8-EXO-12,13-EPOXY-Δ⁹-TRICHOTHECENE □ 3,7,15-TRIHIDROXYSCIRP-4-ACETOXY-9-EN-8-ONE

TOXICITY DATA with REFERENCE:

dnd-hmn:hla 32 mg/L/1H JJEMAG 42,527,72

orl-mus TDLo:22,750 μg/kg/1Y-I:ETA,REP MAIKD3 (21),38,85

orl-rat LD50:4 mg/kg JJEMAG 41,521,71

orl-mus LD50:4500 μg/kg JJEMAG 41,521,71

ipr-mus LD50:3300 μg/kg PACHAS 49,1737,77

scu-mus LD50:4200 μg/kg JJEMAG 41,521,71

ivn-mus LD50:3400 μg/kg JJEMAG 41,521,71

scu-cat LDLo:5 mg/kg JJEMAG 41,521,71

ipr-gpg LDLo:500 μg/kg 34ZHAD -,163,71

orl-dck LDLo:5 mg/kg JJEMAG 41,521,71

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 11,169,76; Animal Inadequate Evidence IMEMDT 31,153,83.

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

FQR100 CAS: 21813-99-0 HR: 3 FUSARIC ACID CALCIUM SALT

mf: C₂₀H₂₄N₂O₄•Ca•H₂O mw: 414.56

SYNS: 5-BUTYLPICOLINIC ACID CALCIUM SALT HYDRATE □ 5-BUTYL-2-PYRIDINECARBOXYLIC ACID CALCIUM SALT HYDRATE □ CALCIUM 5-BUTYLPICOLINATE HYDRATE □ CALCIUM FUSARATE □ FA-Ca □ FUSARIC ACID-Ca □ PICOLINIC ACID, 5-BUTYL-, CALCIUM SALT, HYDRATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:930 mg/kg JJANAX 29,439,76

orl-mus LD50:235 mg/kg JJANAX 29,439,76

ipr-mus LD50:125 mg/kg JANTAJ 22,228,69

scu-mus LD50:1440 mg/kg JJANAX 29,439,76

ims-mus LD50:125 mg/kg JANTAJ 22,228,69

orl-dog LD50:570 mg/kg JJANAX 29,439,76

SAFETY PROFILE: Poison by ingestion, intramuscular, and intraperitoneal routes. Moderately toxic by subcutaneous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

FQS000 CAS: 21259-20-1 HR: 3 FUSARIOTOXIN T 2

mf: C₂₄H₃₄O₉ mw: 466.58

PROP: Needles. Mp: 151–152°. A strain of *F. tricinatum* isolated from infected corn (AJVRAH 32,1843,71).

SYNS: 4,15-DIACETOXY-8-(3-METHYLBUTYRYLOXY)-12,13-EPOXY-Δ-9-TRICHOTHECEN-3-OL □ 4-β,15-DIACETOXY-8-α-(3-METHYLBUTYRYLOXY)-3-α-HYDROXY-12,13-EPOXYTRICHOTHEC-9-ENE □ 3-HYDROXY-4,15-DIACETOXY-8-(3-METHYLBUTYRYLOXY)-12,13-EPOXY-Δ⁹-TRICHOTHEC-ENE □ INSARIOTOXIN □ 8-ISOVALERATE □ 8-(3-METHYLBUTYRYLOXY)-DIACETOXYSCIRPENOL □ NSC-138780 □ T-2 MYCOTOXIN □ TOXIN T2 □ T²-TRICHOTHECENE

TOXICITY DATA with REFERENCE:

skn-rat 20 ng/24H MLD JANCA2 57,1121,74

skn-rbt 20 ng/24H MOD JANCA2 57,1121,74

skn-gpg 4667 pg MLD FAATDF 4(2, Pt 2),S124,84

dnd-mus-ipr 3 mg/kg MUREAV 88,115,81

dnd-mus:lym 5 μg/L MUREAV 88,115,81

orl-rat LD50:2700 μg/kg DFSCDX 4,135,83

skn-rat LD50:2560 μg/kg NTIS** AD-A158-874

ipr-rat LD50:900 μg/kg TOXIA6 24,933,86

scu-rat LD50:560 μg/kg FEPRA7 41,924,82

ivn-rat LD50:740 μg/kg JPETAB 232,786,85

ims-rat LD50:470 μg/kg FEPRA7 41,924,82

ice-rat LD50:60 μg/kg ARTODN 58,40,85

orl-mus LD50:3800 μg/kg BIBIAU 10,445,68

ihl-mus LCLo:140 ppb/30M FAATDF 4,S124,84

ims-mky LD20: 650 μg/kg TXAPA9 82,532,86

iat-pig LDLo:1200 μg/kg TOXIA6 24,13,86

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 31,265,83. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion, intramuscular, subcutaneous, intraperitoneal, intracerebral, and intravenous routes. Moderately toxic by inhalation. Experimental teratogenic and reproductive effects. A skin irritant. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

FQT000 **CAS: 8013-75-0** **HR: 3**
FUSEL OIL
DOT: UN 1201

PROP: Colorless to pale-yellow liquid; odorless. D: 0.807–0.813, refr index: 1.405–1.410. Composition of grain fusel oil is methanol, ethanol, acetaldehyde, and other alcohols (ARGEAR 33,49,69).

SYNS: FEMA No. 2497 □ FUSELOEL (GERMAN) □ FUSEL OIL, REFINED (FCC) □ HUILE de FUSEL (FRENCH)

TOXICITY DATA with REFERENCE:

mno-esc 7000 ppm ARGEAR 33,49,69

dlt-mus-scu 12,500 mg/kg/5D-C ARGEAR 33,49,69

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: May contain carcinogens.

Experimental reproductive effects. Mutation data reported. Flammable liquid when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and fumes. See also individual components.

FQU000 **CAS: 6990-06-3** **HR: 3**
FUSIDINE
mf: C₃₁H₄₈O₆ mw: 516.79

PROP: Crystals from Et₂O. Mp: 192–193°.

SYNS: FUSIDIC ACID □ FUZIDIN □ RAMYCIN □ SQ 16603

TOXICITY DATA with REFERENCE:

cyt-dmg;oth 100 mg/L CLDFAT 2,97,73

orl-mus LD50:1500 mg/kg LANCAO 1,928,62

ipr-mus LD50:165 mg/kg 85GDA2 6,157,81

scu-mus LD50:1200 mg/kg 85ERAY 3,1959,78

ivn-mus LD50:180 mg/kg 85GDA2 6,156,81

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. Experimental teratogenic and reproductive effects. Mutation data reported. When

heated to decomposition it emits acrid smoke and irritating fumes.

FQU200 **CAS: 59766-31-3** **HR: D**
FYBEX

mf: K⁺½O₁₇Ti₈ mw: 366.70

SYN: TITANATE (Ti8O17(2-)), DIPOTASSIUM

TOXICITY DATA with REFERENCE:

mor-mus-fbr 12500 µg/ BJEPAS 67,289,1986

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported.

FQU875 **CAS: 13674-87-8** **HR: 2**
FYROL FR 2

mf: C₉H₁₅Cl₆O₄P mw: 430.91

PROP: Viscous liquid. Bp: (5) 236–237°, n: (20/D) 1.5022. Solubility in water: 100 ppm.

SYNS: 1,3-DICHLORO-2-PROPANOL PHOSPHATE (3:1) □ EMULSION 212 □ FOSFORAN TROJ-(1,3-DWUCHLOROIZO-PROPYLOWY) (POLISH) □ PF 38 □ PHOSPHORIC ACID TRIS(1,3-DICHLORO-2-PROPYL)ESTER □ TCPP □ TDCPP □ TRIS(1-CHLOROMETHYL-2-CHLOROETHYL)PHOSPHATE □ TRIS(1,3-DICHLOROISOPROPYL)PHOSPHATE □ TRIS-(1,3-DICHLORO-2-PROPYL)-PHOSPHATE

TOXICITY DATA with REFERENCE:

mno-sat 100 µmol/plate MUREAV 66,373,79

mma-sat 100 µg/plate SCIEAS 200,785,78

otr-ham:emb 20 µmol/L APTOA6 56,20,85

orl-rat LD50:1850 mg/kg BCTKAG 9,141,76

orl-mus LD50:2250 mg/kg ESKHA5 (107),36,89

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

SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl⁻ and PO_x.