N

NAC000 CAS: 25134-21-8 HR: 3
NADIC METHYL ANHYDRIDE
mf: $C_{10}H_{10}O_3$ mw: 178.20
PROP: Yellowish, liquid with light, pungent odor. Bp: 295°, flash pt: 150°. Sol in water: not miscible, hydrolized.
SYNS: EPICURE NMA □ KAYAHARD MCD □ MEA 610 □ 4,7-METHANOISOBENZOFURAN-1,3-DIONE, 3a,4,7,7a-TETRA-HYDROMETHYL- □ METHYLBICYCLO(2.2.1)HEPTENE-2,3-DICARBOXYLIC ANHYDRIDE ISOMERS □ METHYLENDIC ANHYDRIDE □ NMA □ XMNA
TOXICITY DATA with REFERENCE:
orl-rat LD50:914 mg/kg EPASR* 8EHQ-0282-0431
ihl-rat LCLo:750 mg/m^3/4H EPASR* 8EHQ-0282-0431
ipr-mus LD50:100 mg/kg NTIS** AD441-640
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and inhalation. An irritant. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ANHYDRIDES.

NAC500 CAS: 35991-93-6 HR: 3
NADOXOLOL HYDROCHLORIDE
mf: $C_{14}H_{16}N_2O_3$•ClH mw: 296.78
PROP: White, crystalline powder from ethyl ether-methanol. Mp: 188°. Sol in water, methanol, ethanol; insol in ethyl ether.
SYNS: BRADYL □ CHLORHYDRATE de (NAPHTHYLOXY-1)-4 HYDROXY-3 BUTYRAMIDOXIME (FRENCH) □ N,3-DIHYDR-OXY-4-(1-NAPHTHALENYLOXY)BUTANINIDAMIDE HYDRO-CHLORIDE □ 3-HYDROXY-4-(1-NAPHTHYLOXY BUTYR-AMIDOXIME HYDROCHLORIDE □ LL 1530 □ 4-α-NAPHTH-YLOXY-3-HYDROXY-BUTYRAMIDOXIM-HYDROCHLORID (GERMAN) □ 4-(α-NAPHTHYLOXY)-3-HYDROXYBUTYR-AMIDOXIME HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-hmn TDLo:80 mg/kg:CVS TOERD9 4,163,82
orl-chd TDLo:100 mg/kg:CVS TOERD9 4,163,82
orl-mus LD50:1 g/kg GWXXBX #2132113
ivn-mus LD50:180 mg/kg GWXXBX #2132113
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. Human systemic effects by ingestion: decreased pulse rate and cardiac changes. Used totreat cardiac arrhythmia. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

NAC600 CAS: 69408-81-7 HR: 3
NAFIDIMIDE
mf: $C_{16}H_{17}N_3O_2$ mw: 283.36
SYNS: 3-AMINO-N-(2-(DIMETHYLAMINO)ETHYL)NAPHTHALIMIDE □ 5-AMINO-MITONAFIDE □ AMONAFIDE □ BENZISOQUINOLINE-DIONE □ 1H-BENZ(DE)ISOQUINOLINE-1,3(2H)-DIONE, 5-AMINO-2-(DIMETHYLAMINO)ETHYL- □ FA 142 □ M-FA 142 □ NAPHTHALIMIDE, 3-AMINO-N-(2-(DIMETHYLAMINO)ETHYL)- □ NSC-308847
TOXICITY DATA with REFERENCE:
dnd-hmn-bmr 10 μmol/L CNREA8 47,1040,1987
cyt-hmn-lym 250 μg/ PAACA3 27,283,1986
dnd-mus-leu 50 μmol/L BCPCA6 34,3845,1985
ivn-rat LD :>35 mg/kg NTIS** PB85-100576
ivn-mus LD50:67 mg/kg NTIS** PB85-100576
ivn-dog LD :>18,400 μg/kg NTIS** PB85-100576
ivn-mus LD90:75.1 mg/kg USXXAM #5183821
SAFETY PROFILE: A poison by intravenous route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NAD000 CAS: 5051-16-1 HR: 3
NAFIVERINE DIHYDROCHLORIDE
mf: $C_{34}H_{38}N_2O_4$•2ClH mw: 611.66
PROP: Crystals. Mp: 220−221°.
SYN: N,N'-DI(α-(1-NAPHTHYL)PROPIONYLOXY-2-ETHYL)-PIPERAZINE DIHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:5550 mg/kg ARZNAD 16,386,66
ipr-mus LD50:331 mg/kg ARZNAD 16,386,66
ivn-mus LD50:82 mg/kg ARZNAD 16,386,66
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Mildly toxic by ingestion. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

NAD500 CAS: 1845-11-0 HR: 2
NAFOXIDINE
mf: $C_{29}H_{31}NO_2$ mw: 425.61
PROP: An antiestrogen for treatment of breast cancer.
SYNS: 1-(2-(4-(3,4-DIHYDRO-6-METHOXY-2-PHENYL-1-NAPHTHALENYL)PHENOXY)ETHYL)PYRROLIDENE □ 1-(2-(p-(3,4-DIHYDRO-6-METHOXY-2-PHENYL-1-NAPHTHYL) PHENOXY)ETHYL)PYRROLIDINE
TOXICITY DATA with REFERENCE:
dni-hmn:mmr 1 μmol/L CNREA8 45,1611,85
scu-rat TDLo:250 μg/kg (1D pre):REP JMCMAR 25,323,82
scu-rat TDLo:500 μg/kg:ETA JSTBBK 12,47,80
SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NAD750 CAS: 1847-63-8 HR: 3
NAFOXIDINE HYDROCHLORIDE
mf: $C_{29}H_{31}NO_2$•ClH mw: 462.07
PROP: A solid. Mp: 164−167°.
SYNS: 1-((2-(3,4-DIHYDRO-6-METHOXY-2-PHENYL-1-NAPHTHALENYL)PHENOXY)ETHYL)-PYRROLIDINE HCl □ 1-

((2-(p-3,4-DIHYDRO-6-METHOXY-2-PHENYL-1-NAPHTHYL) PHENOXY)ETHYL)PYRROLIDINE HYDROCHLORIDE □ U 11100 □ U 11100A

TOXICITY DATA with REFERENCE:
spm-rbt-scu 45 mg/kg JRPFA4 11,107,66
spm-rbt-unr 45 mg/kg/45D-I ADRPBI 4,65,69
orl-rbt TDLo:12,300 µg/kg (female 6-8D post):TER FESTAS 16,281,65
orl-rat LD50:302 mg/kg PSEBAA 112,439,63
ipr-mus LD50:143 mg/kg PSEBAA 112,439,63

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NAE000 CAS: 31329-57-4 HR: 3
NAFTIDROFURYL
mf: $C_{24}H_{33}NO_3$ mw: 383.58

PROP: Oil. Bp: 190° @ 0.5 mm.

SYNS: N-DIETHYLAMINOETHYL-β-(1-NAPHTHYL)-β-TETRA HYDROFURYL ISOBUTYRATE □ 2-(DIETHYLAMINO) ETHYL TETRAHYDRO-α-(1-NAPHTHYLMETHYL)-2-FURAN PROPIONATE □ DUBIMAX □ NAFRONYL □ 3-(1-NAPHTHYL)-2-TETRAHYDROFURFURYLPROPIONIC ACID 2-(DIETHYL AMINO)-ETHYL ESTER □ α-TETRAHYDROFURFURYL-1-NAPHTHALENEPROPIONIC ACID 2-(DIETHYLAMINO)ETHYL ESTER □ TETRAHYDRO-α-(1-NAPHTALENYLMETHYL)-2-FURANPROPANOIC ACID 2-(DIETHYLAMINO)ETHYL ESTER □ TETRAHYDRO-α-(1-NAPHTHYLMETHYL)-2-FURAN-PROPANOIC ACID 2-(DIETHYLAMINO)ETHYL ESTER

TOXICITY DATA with REFERENCE:
orl-rat LD50:1890 mg/kg GNRIDX 5,1,71
ipr-rat LD50:120 mg/kg GNRIDX 5,1,71
scu-rat LD50:2500 mg/kg GNRIDX 5,1,71
orl-mus LD50:365 mg/kg EJMCA5 10,291,75
ipr-mus LD50:129 mg/kg GNRIDX 5,1,71
scu-mus LD50:272 mg/kg GNRIDX 5,1,71
ivn-mus LD50:23 mg/kg JETOAS 8(3),188,75

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

NAE100 CAS: 3200-06-4 HR: 3
NAFTIDROFURYL OXALATE
mf: $C_{24}H_{33}NO_3 \bullet C_2H_2O_4$ mw: 473.62

PROP: A solid. Mp: 110−111°.

SYNS: 2-(DIETHYLAMINO)ETHYL TETRAHYDRO-α-(1-NAPHTHYLMETHYL)-2-FURANPROPIONATE OXALATE (1:1) □ EU-1806 □ 2-FURANPROPIONIC ACID, TETRAHYDRO-α-(1-NAPHTHYLMETHYL)-, 2-(DIETHYLAMINO)ETHYL ESTER, OXALATE (1:1) □ LS 121 □ NAFRONYL OXALATE □ PRAXILENE

TOXICITY DATA with REFERENCE:
orl-rat LD50:711 mg/kg YACHDS 14,1237,86
ipr-rat LD50:98 mg/kg YACHDS 14,1237,86
scu-rat LD50:896 mg/kg YACHDS 14,1237,86
ivn-rat LD50:16,500 µg/kg CHTPBA 3,463,68
orl-mus LD50:567 mg/kg YACHDS 14,1237,86
ipr-mus LD50:159 mg/kg YACHDS 14,1237,86
ivn-mus LD50:22 mg/kg YACHDS 14,1237,86
ivn-dog LDLo:71 mg/kg CHTPBA 3,463,68

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.

NAE505 HR: 3
NAGARMOTHA OIL

PROP: The oil is a mixture of at least 21 compounds, mostly sesquiterpenes (IJEBA6 10,41,72).

SYNS: CYPERUS SCARIOSUS OIL □ NAGARMUSTA OIL

TOXICITY DATA with REFERENCE:
mmo-sat 4830 µg/plate BECTA6 32,179,84
mma-sat 483 µg/plate BECTA6 32,179,84
orl-mus LD50:1400 mg/kg IJEBA6 10,41,72
ipr-mus LD50:240 mg/kg IJEBA6 10,41,72

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

NAE507 HR: 1
NAGASE (BACILLUS SUBTILIS)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:2 g/kg PSEBAA 144,450,73

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

NAE510 HR: 3
NAJA FLAVA VENOM

SYN: VENOM, SNAKE, NAJA FLAVA

TOXICITY DATA with REFERENCE:
scu-rat LDLo:400 µg/kg BIJOAK 70,293,58
ivn-mus LD50:371 µg/kg TOXIA6 2,5,64
scu-dog LDLo:100 µg/kg BIJOAK 70,293,58
ivn-rbt LD50:75 µg/kg SCIEAS 117,47,53

SAFETY PROFILE: A deadly poison by subcutaneous and intravenous routes.

NAE512 HR: 3
NAJA HAJE ANNULIFERA VENOM

SYN: VENOM, EGYPTIAN COBRA, NAJA HAJE ANNULIFERA

TOXICITY DATA with REFERENCE:
ipr-mus LD50:160 µg/kg AIMJA9 26,199,75
scu-mus LD50:1750 µg/kg TOXIA6 5,47,67
ivn-mus LD50:4500 µg/kg BBACAQ 746,18,83
ice-mus LD50:95 µg/kg TOXIA6 22,308,84
ipr-gpg LD50:500 µg/kg TOXIA6 18,374,80

SAFETY PROFILE: A deadly poison by subcutaneous, intravenous, intracerebral, and intraperitoneal routes.

NAE515 HR: 3
NAJA HAJE VENOM

SYN: VENOM, SNAKE, NAJA HAJE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:500 µg/kg HSZPAZ 297,92,54
ivn-mus LD50:287 µg/kg TOXIA6 8,51,70
ivn-rbt LDLo:600 µg/kg TOXIA6 2,5,64

SAFETY PROFILE: A deadly poison by intravenous and intraperitoneal routes.

NAE875 HR: 3
NAJA MELANOLEUCA VENOM
SYN: VENOM, SNAKE, NAJA MELANOLEUCA
TOXICITY DATA with REFERENCE:
ipr-mus LD50:324 μg/kg TOXIA6 9,131,71
scu-mus LD50:225 μg/kg TOXIA6 5,47,67
ivn-mus LD50:93 μg/kg CHDDAT 280,1757,75
SAFETY PROFILE: A deadly poison by subcutaneous, intravenous, and intraperitoneal routes.

NAE900 CAS: 115722-23-1 HR: 3
NAJA MOSSAMBICA MOSSAMBICA α-NEUROTOXIN I
mf: $C_{48}H_{70}N_{10}O_7$ mw: 899.28
SYNS: l-LEUCYL-l-ISOLEUCYL-l-PROLYL-l-PROLYL-l-PHENYL-ALANYL-l-TRYPTOPHYL-l-LYSINAMIDE ◻ l-LYSINAMIDE, l-LEUCYL-l-ISOLEUCYL-l-PROLYL-l-PROLYL-l-PHENYLALANYL-l-TRYPTOPHYL-
TOXICITY DATA with REFERENCE:
ivn-mus LD50:40 μg/kg TOXIA6 25,427,1987
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

NAF000 HR: 3
NAJA NAJA ATRA VENOM
SYN: VENOM, SEA SNAKE, NAJA NAJA ATRA
TOXICITY DATA with REFERENCE:
eye-rbt 5 μg SEV KTHYAC 1,200,51
ice-rbt LDLo:12,500 ng/kg KTHYAC 2,170,52
ipr-gpg LDLo:150 mg/kg 30FDAB 1,21,70
ivn-rat LDLo:200 μg/kg TOXIA6 24,233,86
par-rat LD50:38 μg/kg TOXIA6 19,61,81
ipr-mus LD50:370 μg/kg JBCHA3 240,1616,65
scu-mus LD50:280 μg/kg TOXIA6 5,47,67
ivn-mus LD50:290 μg/kg BCPCA6 20,1549,71
SAFETY PROFILE: A deadly poison by intracerebral, intraperitoneal, subcutaneous, parenteral, and intravenous routes. A severe eye irritant.

NAF200 HR: 3
NAJA NAJA KAOUTHIA VENOM
SYN: VENOM, SNAKE, NAJA NAJA KAOUTHIA
TOXICITY DATA with REFERENCE:
ipr-mus LD50:329 μg/kg TOXIA6 9,131,71
scu-mus LD50:240 μg/kg TOXIA6 5,47,67
ivn-mus LD50:250 μg/kg TOXIA6 7,239,69
SAFETY PROFILE: A deadly poison by subcutaneous, intravenous, and intraperitoneal routes.

NAF225 CAS: 84592-83-6 HR: 3
NAJA NAJA PHILIPPINENSIS NEUROTOXIN
mf: $C_{283}H_{447}N_{93}O_{91}S_8$ mw: 6865.71
SYN: NEUROTOXIN (NAJA NAJA PHILIPPINENSIS MAJOR)
TOXICITY DATA with REFERENCE:
ivn-mus LD50:50 μg/kg IJPPC3 6,201,1974
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NAF250 HR: 3
NAJA NAJA SIAMENSIS VENOM
SYN: VENOM, THAILAND COBRA, NAJA NAJA SIAMENSIS
TOXICITY DATA with REFERENCE:
ipr-mus LD50:360 μg/kg 19DDA6 1,283,67
scu-mus LDLo:250 μg/kg TOXIA6 5,207,68
ivn-mus LDLo:275 μg/kg EJBCAI 21,1,71
SAFETY PROFILE: A deadly poison by subcutaneous, intravenous, and intraperitoneal routes.

NAG000 HR: 3
NAJA NIGRICOLLIS VENOM
SYNS: N. NIGRICOLLIS VENOM ◻ VENOM, SNAKE, NAJA NIGRICOLLIS
TOXICITY DATA with REFERENCE:
scu-rat LDLo:1500 μg/kg 30FDAB 1,21,71
par-rat LD50:2250 ng/kg TOXIA6 19,61,81
ipr-mus LD50:352 μg/kg TOXIA6 18,384,80
scu-mus LD50:2 mg/kg HSZPAZ 297,104,54
ivn-mus LD50:30 μg/kg TOXIA6 20,111,82
ims-mus LD50:440 μg/kg TOXIA6 13,475,75
ivn-rbt LDLo:300 μg/kg TOXIA6 2,5,64
SAFETY PROFILE: A deadly poison by subcutaneous, intramuscular, parenteral, intravenous, and intraperitoneal routes. An experimental teratogen. Other experimental reproductive effects.

NAG200 HR: 3
NAJA NIVEA VENOM
SYN: VENOM, SOUTH AFRICAN CAPE COBRA, NAJA NIVEA
TOXICITY DATA with REFERENCE:
ipr-mus LD50:600 μg/kg 19DDA6 1,283,67
scu-mus LD50:400 μg/kg TOXIA6 5,47,67
ivn-rat LDLo:900 μg/kg TOXIA6 23,63,85
ivn-mus LD50:389 μg/kg 23EIAT 1,437,68
SAFETY PROFILE: A deadly poison by subcutaneous, intravenous, and intraperitoneal routes.

NAG400 CAS: 300-76-5 HR: 3
NALED
mf: $C_4H_7Br_2Cl_2O_4P$ mw: 380.80
PROP: Mp: 27.0°. Slightly sol in aliphatic hydrocarbons; very sol in aromatic hydrocarbons. IDLH 200 mg/m^3.
SYNS: ARTHODIBROM ◻ BROMCHLOPHOS ◻ BROMEX ◻ DIBROM ◻ O-(1,2-DIBROM-2,2-DICHLORAETHYL)-O,O-DIMETHYL-PHOSPHAT (GERMAN) ◻ 1,2-DIBROMO-2,2-DICHLOROETHYL DIMETHYL PHOSPHATE ◻ O-(1,2-DIBROMO-2,2-DICLORO-ETIL)-O,O-DIMETIL-FOSTATO (ITALIAN) ◻ O-(1,2-DIBROOM-2,2-DICHLOOR-ETHYL)-O,O-DIMETHYL-FOSFAAT (DUTCH) ◻ O,O-DIMETHYL-O-(1,2-DIBROMO-2,2-DICHLOROETHYL)PHOSPHATE ◻ DIMETHYL-1,2-DIBROMO-2,2-DICHLOROETHYL PHOSPHATE (OSHA) ◻ O,O-DIMETHYL-O-2,2-DICHLORO-1,2-DIBROMOETHYL PHOSPHATE ◻ ENT 24,988 ◻ HIBROM ◻ ORTHO 4355 ◻ ORTHODIBROM ◻ ORTHODIBROMO ◻ PHOSPHATE de O,O-DIMETHLE et de O-(1,2-DIBROMO-2,2-DICHLORETHYLE) (FRENCH) ◻ RE-4355
TOXICITY DATA with REFERENCE:

skn-man 42 mg/21D-I open TXAPA9 21,369,72
skn-rbt 500 mg/24H SEV TXAPA9 21,369,72
mma-sat 50 µg/plate JAFCAU 29,268,81
mmo-bcs 50 µg/plate JAFCAU 29,268,81
orl-rat LD50:250 mg/kg TXAPA9 14,515,69
skn-rat LD50:800 mg/kg WRPCA2 9,119,70
orl-mus LD50:330 mg/kg ARTODN 34,103,75
ihl-mus LD50:156 mg/kg BECTA6 19,113,78
skn-rbt LD50:1100 mg/kg 28ZEAL 5,161,76

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

ACGIH TLV: TWA 0.1 mg/m^3 (skin, sensitizer); Not Classifiable as a Human Carcinogen

DFG MAK: 3 mg/m^3

NIOSH REL: (Naled) TWA 3 mg/m^3 (skin)

SAFETY PROFILE: Poison by ingestion and inhalation. Moderately toxic by skin contact. A human skin irritant and a severe experimental skin irritant. Mutation data reported. A cholinesterase inhibitor. When heated to decomposition it emits very toxic fumes of Br^-, Cl^-, and PO_x. See also PARATHION.

NAG450 CAS: 3374-05-8 HR: D
NALIDIXIC ACID SODIUM SALT

mf: $C_{12}H_{12}N_2O_3$•Na mw: 255.25

SYNS: 1-ETHYL-1,4-DIHYDRO-7-METHYL-4-OXO-1,8-NAPHTHYRIDINE-3-CARBOXYLIC ACID SODIUM SALT ◻ NALIDIXATE SODIUM ◻ 1,8-NAPHTHYRIDINE-3-CARBOXYLIC ACID, 1-ETHYL-1,4-DIHYDRO-7-METHYL-4-OXO-, SODIUM SALT ◻ SODIUM NALIDIXATE ◻ SODIUM NILIXALATE ◻ WIN 18320-3

TOXICITY DATA with REFERENCE:
dns-rat-oth 900 mg/L ARTODN 60,287,1987

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

NAG500 CAS: 57-29-4 HR: 3
NALORPHINE HYDROCHLORIDE

mf: $C_{19}H_{21}NO_3$•ClH mw: 347.87

PROP: Crystals from alc. Mp: 260−263°. Sol in water; mod sol in alc.

SYNS: N-ALLYL-2,12-DIHYDROXY-1,11-EPOXYMORPHINENE-13 HYDROCHLORIDE ◻ ALLYLMORPHINE HYDROCHLORIDE ◻ N-ALLYLNORMORPHINE HYDROCHLORIDE ◻ MIROMORFALIL ◻ NALINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
ivn-hmn TDLo:143 µg/kg:CNS AJPSAO 113,887,57
orl-rat LD50:1150 mg/kg AIPTAK 123,48,59
scu-rat LD50:1460 mg/kg TXAPA9 18,185,71
ipr-mus LD50:447 mg/kg AIPTAK 103,489,55
scu-mus LD50:670 mg/kg CLDND*
ivn-dog LD50:120 mg/kg AIPTAK 149,571,64

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. Human systemic effects by intravenous route: euphoria, hallucinations and distorted perceptions, and toxic psychosis. Experimental reproductive effects. Caution: Violent withdrawal symptoms may occur in narcotic addicts. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also MORPHINE.

NAG550 CAS: 465-65-6 HR: 3
l-NALOXONE

mf: $C_{19}H_{21}NO_4$ mw: 327.41 P2U1

PROP: A solid. Mp: 177−178°. Sol in $CHCl_3$; insol in pet ether.

SYNS: l-N-ALLYL-7,8-DIHYDRO-14-HYDROXYNORMORPHINONE ◻ 17-ALLYL-4,5-α-EPOXY-3,14-DIHYDROXYMORPHINAN-6-ONE ◻ l-N-ALLYL-14-HYDROXYNORDIHYDROMORPHINONE ◻ 12-ALLYL-7,7a,8,9-TETRAHYDRO-3,7a-DIHYDROXY-4aH-8,9c-IMINOETHANOPHENANTHRO(4,5-bcd)FURANONE ◻ MORPHINAN-6-ONE, 4,5-α-EPOXY-3,14-DIHYDROXY-17-(2-PROPENYL)- ◻ NALOXONE ◻ NORMORPHINONE, N-ALLYL-7,8-DIHYDRO-14-HYDROXY-, (−)-

TOXICITY DATA with REFERENCE:
dni-hmn:oth 30 µmol/48H JJCREP 78,519,87
oth-hmn:oth 120 µmol/L/24H JJCREP 78,519,87
scu-mus LD50:260 mg/kg ANYAA9 281,321,76

SAFETY PROFILE: Poison by subcutaneous route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NAH000 CAS: 357-08-4 HR: 3
NALOXONE HYDROCHLORIDE

mf: $C_{19}H_{21}NO_4$•ClH mw: 363.87

PROP: Crystals from (ethanol + ether). Mp: 200−205°. Sol in water and alc; insol in ether.

SYNS: N-ALLYL-7,8-DIHYDRO-14-HYDROXYNORMORPHINONE, HYDROCHLORIDE ◻ 17-ALLYL-4,5-α-EPOXY-3,14-DIHYDROXYMORPHINAN-6-ONE HYDROCHLORIDE ◻ 1-N-ALLYL-14-HYDROXYNORDIHYDROMORPHINONE HYDROCHLORIDE ◻ EN-1530 ◻ EN-15304 ◻ NARCAN

TOXICITY DATA with REFERENCE:
ivn-wmn TDLo:32 µg/kg/3M-C:CVS,PUL,SKN AEMED3 16,1294,87
ipr-rat LD50:239 mg/kg IYKEDH 16,357,85
scu-rat LD50:500 mg/kg YKYUA6 36,655,85
ivn-rat LD50:107 mg/kg YKYUA6 36,655,85
ipr-mus LDLo:80 mg/kg RCOCB8 17,255,77
scu-mus LD50:286 mg/kg JMCMAR 20,844,77
ivn-mus LD50:90 mg/kg YKYUA6 36,655,85

SAFETY PROFILE: Poison by intraperitoneal, intravenous, and subcutaneous routes. Human systemic effects by intravenous route: pulse rate increase, acute pulmonary edema, sweating. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

NAH100 CAS: 16676-29-2 HR: 2
NALTREXONE HYDROCHLORIDE

mf: $C_{20}H_{23}NO_4$•ClH mw: 377.90

PROP: Clear, yellowish colored liquid. Bp: 100°, d: 1. SOl in water.

SYNS: 17-(CYCLOPROPYLMETHYL)-4,5-α-EPOXY-3,14-DIHYDROXY-MORPHINAN-6-ONEHYDROCHLORIDE ◻ N-CYCLOPROPYLMETHYL-NOROXYMORPHONE HYDROCHLORIDE ◻ EN 1639A ◻ MORPHINAN-6-ONE,17-(CYCLOPROPYLMETHYL)-4,5-α-OXY-3,14-DIHYDOXY-,HYDROCHLORIDE ◻ TREXAN

TOXICITY DATA with REFERENCE:
dnr-esc 100 mg/L DCTODJ 1,103,1978
dns-hmn-fbr 100 mg/L DCTODJ 1,103,1978
orl-rat LD50:1450 mg/kg MDACAP 21,264,1985
orl-mus LD50:1100 mg/kg MDACAP 21,264,1985

orl-mky LD50:3 g/kg MDACAP 21,264,1985
orl-gpg LD50:1490 mg/kg MDACAP 21,264,1985
SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and HCl.

NAH500 CAS: 835-31-4 HR: 3
NAPHAZOLINE
mf: $C_{14}H_{14}N_2$ mw: 210.30
PROP: Clear fluid for opthalmic application.
SYNS: ANTAN □ IMIDIN □ NAPHTHIZINE □ α-NAPHTHYL-METHYL IMIDAZOLINE □ 2-(α-NAPHTHYLMETHYL)IMID-AZOLINE □ 2-(1-NAPHTHYLMETHYL)-2-IMIDAZOLINE □ PRIVINE □ RHINAZINE □ SANORIN
TOXICITY DATA with REFERENCE:
scu-rat LD50:385 mg/kg FEPRA7 9,280,50
ipr-mus LD50:92 mg/kg JPETAB 160,22,68
scu-mus LD50:514 mg/kg RPTOAN 37,198,74
ivn-mus LD50:170 mg/kg FEPRA7 9,280,50
scu-rbt LD50:950 µg/kg FEPRA7 9,280,50
ivn-rbt LD50:800 µg/kg FEPRA7 9,280,50
SAFETY PROFILE: Poison by subcutaneous, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

NAH550 CAS: 5144-52-5 HR: 3
NAPHAZOLINE NITRATE
mf: $C_{14}H_{14}N_2 \bullet HNO_3$ mw: 273.32
SYNS: 4,5-DIHYDRO-2-(1-NAPHTHALENYLMETHYL)-1H-IMIDAZOLE MONONITRATE (9CI) □ NAFTIZIN □ NAPH-THISEN □ NAPHTHIZEN □ NAPHTYZIN □ PRIVINE □ PRIVINE NITRATE □ RINAZIN
TOXICITY DATA with REFERENCE:
orl-rat LD50:1260 mg/kg FRPPAO 21,204,66
scu-rat LD50:385 mg/kg NIIRDN 6,539,82
orl-mus LD50:265 mg/kg FRPPAO 21,204,66
ipr-mus LD50:66 mg/kg FRPPAO 21,204,66
scu-mus LD50:170 mg/kg NIIRDN 6,539,82
ivn-mus LD50:13,200 µg/kg FRPPAO 21,204,66
orl-rbt LD50:50 mg/kg NIIRDN 6,539,82
scu-rbt LD50:950 µg/kg NIIRDN 6,539,82
ivn-rbt LD50:800 µg/kg NIIRDN 6,539,82
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES.

NAH600 CAS: 8030-30-6 HR: 3
NAPHTHA
DOT: UN 1255/UN 1256/UN 1270/UN 2553
PROP: Dark straw-colored to colorless liquid. Bp: 149–216°, flash p: 107°F (CC), d: 0.862–0.892, autoign temp: 531°F. Sol in benzene, toluene, xylene, etc. Made from American coal oil and consists chiefly of pentane, hexane, and heptane (XPHPAW 255,43,40). IDLH 1000 ppm [10%LEL].
SYNS: AMSCO H-J □ AMSCO H-SB □ BENZIN B70 □ HI-FLASH NAPHTHA □ HYDROTREATED NAPHTHA □ NAPHTHA □ NAPHTHA COAL TAR (OSHA) □ NAPHTHA (UN2553) (DOT) □ NAPHTHA, hydrotreated □ NAPHTHA, petroleum (UN1255) (DOT) □ NAPHTHA, solvent (UN1256) (DOT) □ PETROLEUM BENZIN □ PETROLEUM-DERIVED NAPHTHA □ PETROLEUM DISTILLATES (NAPHTHA) □ PETROLEUM OIL (UN1270) (DOT) □ SUPER VMP
TOXICITY DATA with REFERENCE:
skn-mus TDLo:330 g/kg/88W-I:CAR FAATDF 9,297,87
ihl-hmn LCLo:3 pph/5M TABIA2 3,231,33
ivn-man LDLo:27 mg/kg:PUL CTOXAO 16,335,80
ihl-rat LCLo:1600 ppm/6H CHINAG (17),1078,39
ipr-mam LDLo:2500 mg/kg AJHYA2 7,276,27
ihl-rat TCLo:1000 ppm/6H/12D-I FAATDF 9,120,87
ihl-rat TCLo:1000 ppm/6H/13W-I FAATDF 9,120,87
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 100 ppm
ACGIH TLV: TWA 300 ppm
NIOSH REL: (Refined Petroleum Solvents) 10H TWA 350 mg/m^3; CL 1800 mg/m^3/15M
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: A human poison via intravenous route. Experimental carcinogenic effects reported by skin contact. Human systemic effects by intravenous route: dyspnea, respiratory stimulation, and other unspecified respiratory effects. Mildly toxic by inhalation. Can cause unconsciousness, which may be followed by coma, stentorious breathing, and bluish tint to the skin. Recovery follows removal from exposure. In mild form, intoxication resembles drunkenness. On a chronic basis, no true poisoning; sometimes headache, lack of appetite, dizziness, sleeplessness, indigestion, and nausea. A common air contaminant. Flammable liquid when exposed to heat or flame; can react with oxidizing materials. Keep containers tightly closed. Slight explosion hazard. To fight fire, use foam, CO_2, dry chemical. See also NAPHTHA, PENTANE, HEXANE, and HEPTANE.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Naphthas, 1550.

NAH800 CAS: 550-34-5 HR: 3
NAPHTHACAINE HYDROCHLORIDE
mf: $C_{17}H_{22}N_2O_2 \bullet ClH$ mw: 322.87
PROP: Pale-yellow crystals. Mp: 212–216°.
SYNS: 4-AMINO-1-NAPHTHOIC ACID 2-(DIETHYLAMINO)-ETHYL ESTER HYDROCHLORIDE □ NAPHTHOCAINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:118 mg/kg JPETAB 94,299,48
scu-mus LD50:107 mg/kg JPETAB 70,315,40
scu-rbt LD50:54 mg/kg JPETAB 70,315,40
SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also ESTERS.

NAH830 CAS: 84030-79-5 HR: D
NAPHTH(2,3-a)ACEANTHRYLENE
mf: $C_{24}H_{14}$ mw: 302.38
SYN: DIBENZO(a,k)FLUORANTHENE
TOXICITY DATA with REFERENCE:
msc-hmn-lym 16 µg/ MUREAV 371,123,1996

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

NAH900 CAS: 202-33-5 HR: D
NAPHTH(2,1-d)ACENAPHTHYLENE
mf: $C_{20}H_{12}$ mw: 252.32
SYNS: BENZ(j)ACEANTHRYLENE □ CHOLANTHRYLENE
TOXICITY DATA with REFERENCE:
mic-sat 10 µLg/plate CRNGDP 18,193,1997
add-rat-lng 30 mg/L CRNGDP 18,193,1997
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NAI000 CAS: 92-24-0 HR: 3
NAPHTHACENE
mf: $C_{18}H_{12}$ mw: 228.30
PROP: Orange-red crystals or leaflets from xylene. Subl *(in vacuo)*. Mp: 341°, d: 1.35.
SYNS: BENZ(b)ANTHRACENE □ 2,3-BENZANTHRACENE □ 2,3-BENZANTHRENE □ TETRACENE
TOXICITY DATA with REFERENCE:
mma-sat 5 µmol/L ENMUDM 3,11,81
dns-rat:lvr 500 µmol/L ENMUDM 3,11,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. Explosion hazard; shock will explode it. Can react on contact with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.

NAI100 CAS: 205-97-0 HR: D
NAPHTH(2,3-e)ACEPHENANTHRYLENE
mf: $C_{24}H_{14}$ mw: 302.38
SYN: DIBENZO(b,k)FLUORANTHENE
TOXICITY DATA with REFERENCE:
msc-hmn-lym 37 µg/ MUREAV 371,123,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NAJ000 CAS: 66-77-3 HR: 2
α-NAPHTHAL
PROP: Pale-yellow viscous oil. Bp: 292°.
SYNS: 1-FORMYLNAPHTHALENE □ α-NAPHTHALDEHYDE □ 1-NAPHTHALENECARBOXALDEHYDE □ α-NAPHTHYL-ALDEHYDE □ 1-NAPHTHYLALDEHYDE □ α-NAPHTHYL-CARBOXALDEHYDE
TOXICITY DATA with REFERENCE:
unr-mus LD50:1100 mg/kg FRPSAX 19,964,64
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by an unspecified route. When heated to decomposition it emits acrid smoke and irritating fumes.

NAJ500 CAS: 91-20-3 HR: 3
NAPHTHALENE
DOT: UN 1334/UN 2304
mf: $C_{10}H_8$ mw: 128.18
PROP: Aromatic odor; white, crystalline, volatile flakes. Plates from EtOH with characteristic odor. Mp: 80.1°, bp: 217.9°, flash p: 174°F (OC), d: 1.162, lel: 0.9%, uel: 5.9%, vap press: 1 mm @ 52.6°, vap d: 4.42, autoign temp: 1053°F (567°C). Sol in alc, benzene; insol in water; very sol in ether, CCl_4, CS_2, hydronaphthalenes, and in fixed and volatile oils. IDLH 250 ppm.
SYNS: CAMPHOR TAR □ MIGHTY 150 □ MOTH BALLS (DOT) □ MOTH FLAKES □ NAFTALEN (POLISH) □ NAPHTHALENE, crude or refined (DOT) □ NAPHTHALENE, molten (DOT) □ NAPHTHALIN (DOT) □ NAPHTHALINE □ NAPHTHENE □ NCI-C52904 □ RCRA WASTE NUMBER U165 □ TAR CAMPHOR □ WHITE TAR
TOXICITY DATA with REFERENCE:
skn-rbt 495 mg open MLD UCDS** 1/11/68
eye-rbt 100 mg MLD BIOFX* 16-4/70
orl-chd LDLo:100 mg/kg 28ZRAQ -,228,60
unr-hmn LDLo:29 mg/kg YKYUA6 31,1499,80
unr-man LDLo:74 mg/kg 85DCAI 2,73,70
orl-rat LD50:490 mg/kg 85GMAT -,89,82
orl-mus LD50:533 mg/kg FAATDF 4(3, Pt 1),406,84
ipr-mus LD50:150 mg/kg NTIS** AD691-490
scu-mus LD50:969 mg/kg TOIZAG 20,772,73
ivn-mus LD50:100 mg/kg CSLNX* NX#00203
orl-dog LDLo:400 mg/kg HBAMAK 4,1289,35
orl-cat LDLo:1000 mg/kg HBAMAK 4,1289,35
orl-rbt LDLo:3 g/kg HBAMAK 4,1289,35
orl-gpg LD50:1200 mg/kg GISAAA 47(11),78,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. Community Right-To-Know List.
OSHA PEL: TWA 10 ppm; STEL 15 ppm
ACGIH TLV: TWA 10 ppm; STEL 15 ppm; Not Classifiable as a Human Carcinogen
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
DOT CLASSIFICATION: 4.1; Label: Flammable Solid
SAFETY PROFILE: Human poison by ingestion. Experimental poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by subcutaneous route. An experimental teratogen. Experimental reproductive effects. An eye and skin irritant. Can cause nausea, headache, diaphoresis, hematuria, fever, anemia, liver damage, vomiting, convulsions, and coma. Poisoning may occur by ingestion of large doses, inhalation, or skin absorption. Questionable carcinogen with experimental tumorigenic data. Flammable when exposed to heat or flame; reacts with oxidizing materials. Explosive reaction with dinitrogen pentaoxide. Reacts violently with CrO_3, aluminum chloride + benzoyl chloride. Fires in the benzene scrubbers of coke oven gas plants have been attributed to oxidation of naphthalene. Explosive in the form of vapor or dust when exposed to heat or flame. To fight fire, use water, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #35 or NIOSH: Hydrocarbons, Aromatic, 1501.

NAK000 CAS: 86-86-2 HR: 2
1-NAPHTHALENEACETAMIDE
mf: $C_{12}H_{11}NO$ mw: 185.24

PROP: Needles. Subl at 181°.
SYNS: N-ACETYL-1-NAPHTHYLAMINE □ AMID-THIN □ FRUITONE □ NAAM □ NAD □ NAPHTHALENE ACETAMIDE □ α-NAPHTHALENEACETAMIDE □ α-NAPHTHYLACETAMIDE □ 1-NAPHTHYLACETAMIDE □ ROOTONE □ ROSETONE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1690 mg/kg FMCHA2 -,C214,91
skn-rbt LD50:>2 g/kg PEMNDP 9,606,91
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. When heated to decomposition it emits toxic fumes of NO_x.

NAK500 CAS: 86-87-3 HR: 3
1-NAPHTHALENEACETIC ACID
mf: $C_{12}H_{10}O_2$ mw: 186.22
PROP: Needles from water; white, odorless crystals. Mp: 134.5−135.5°. Only sltly water-sol; sol in approx 30 parts alc; very sol in acetone, ether, chloroform.
SYNS: AGRONAA □ ALPHASPRA □ ANA □ APPL-SET □ CELMONE □ FRUITONE □ KLINGTITE □ LIQUI-STIK □ NAA 800 □ NAFUSAKU □ α-NAPHTHALENEACETIC ACID □ NAPHTHALENE-1-ACETIC ACID □ α-NAPHTHYLACETIC □ NAPHTHYLACETIC ACID □ α-NAPHTHYLACETIC ACID □ 1-NAPHTHYLACETIC ACID □ α-NAPHTHYLENEACETIC ACID □ α-NAPHTHYLESSIGSAEURE (GERMAN) □ NAPHYL-1-ESSIGSAEURE (GERMAN) □ NIAGARA-STIK □ NU-TONE □ PARMONE □ PHYMONE □ PIMACOL-SOL □ PLANOFIX □ PLUCKER □ PRIMACOL □ ROOTONE □ STAFAST □ STIK □ STOP-DROP □ TEKKAM □ TIP-OFF □ TRANSPLANTONE □ TRE-HOLD □ VARDHAK
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg SEV PESTC* 9,10,80
mmo-smc 500 mg/L IDZAAW 48,185,73
orl-rat LD50:1000 mg/kg 85DPAN -,-,71/76
ipr-rat LD50:100 mg/kg PESTC* 9,10,80
orl-mus LD50:743 mg/kg TOIZAG 14,132,67
ipr-mus LD50:609 mg/kg TOIZAG 15,443,68
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. A skin, mucous membrane, and severe eye irritant. Can cause depression. A pesticide. When heated to decomposition it emits acrid smoke and irritating fumes.

NAK525 CAS: 2876-78-0 HR: 2
1-NAPHTHALENEACETIC ACID, METHYL ESTER
mf: $C_{13}H_{12}O_2$ mw: 200.25
SYNS: HORMONIT □ KARTOFIN □ LATKA M-1 □ METHYL-ESTER KYSELINY 1-NAFTYLOCTOVE □ METHYL 1-NAPHTHALENEACETATE □ METHYL 1-NAPHTHALENEACETIC ACID □ METHYL α-NAPHTHYLACETATE □ METHYL 1-NAPHTHYLACETATE □ M 1 (GROWTH REGULATOR) □ NAPHTHALENEACETIC ACID METHYL ESTER □ α-NAPHTHYLACETIC ACID METHYL ESTER
TOXICITY DATA with REFERENCE:
orl-rat LD50:1900 mg/kg BZARAZ 39,429,86
orl-mus LD50:1 g/kg BZARAZ 39,429,86
ipr-mus LDLo:512 mg/kg CBCCT* 2,57,50
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating vapors.

NAK550 CAS: 61-31-4 HR: 2
1-NAPHTHALENEACETIC ACID, SODIUM SALT
mf: $C_{12}H_9O_2$•Na mw: 208.20
TOXICITY DATA with REFERENCE:
orl-mus LD50:670 mg/kg PEMNDP 9,607,91
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

NAK700 CAS: 20620-82-0 HR: 2
1,8-NAPHTHALENE-1,2-BENZIMIDAZOLE
mf: $C_{17}H_{10}N_2$ mw: 242.29
SYN: BENZ(3,4)INDOLO(1,2-a)BENZIMIDAZOLE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:3500 mg/kg GISAAA 49(4),90,84
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

NAM000 CAS: 2243-62-1 HR: 3
1,5-NAPHTHALENEDIAMINE
mf: $C_{10}H_{10}N_2$ mw: 158.22
PROP: Prisms from H_2O, EtOH, or Et_2O. Mp: 190° (subl). Sol in hot H_2O.
SYNS: 1,5-DIAMINONAPHTHALENE □ 1,5-NAPHTHYLENEDIAMINE □ NCI-C03021
TOXICITY DATA with REFERENCE:
mma-sat 33,300 ng/plate ENMUDM 7(Suppl 5),1,85
mma-sat 33,300 ng/plate ENMUDM 7(Suppl 5),1,85
orl-rat TDLo:721 g/kg/1Y-C:CAR IARC** 27,127,82
orl-rat TD:18 g/kg/88W-C:ETA,REP NCITR* NCI-CG-TR-143,78
orl-rat TDLo:54 g/kg/2Y-C:NEO NCITR* NCI-CG-TR-143,78
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 27,127,82. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-143,78. EPA Genetic Toxicology Program.
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic data. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

NAM500 CAS: 3173-72-6 HR: 2
1,5-NAPHTHALENE DIISOCYANATE
mf: $C_{12}H_6N_2O_2$ mw: 210.20
PROP: White to light-yellow crystals.
SYNS: 1,5-DIISOCYANATONAPHTHALENE □ ISOCYANIC ACID-1,5-NAPHTHYLENE ESTER
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87. Reported in EPA TSCA Inventory.

DFG MAK: 0.01 ppm (0.087 mg/m^3)
SAFETY PROFILE: A powerful allergen. An irritant. Questionable carcinogen. When heated to decomposition it emits toxic fumes of NO_x. See also ISOCYANATES.

NAN000 CAS: 132-86-5 HR: 3
1,3-NAPHTHALENEDIOL
mf: $C_{10}H_8O_2$ mw: 160.18
PROP: White, crystalline leaves from water. Mp: 125°. Sol in water.
SYN: NAPHTHORESORCINOL
TOXICITY DATA with REFERENCE:
mmo-sat 250 µmol/L ENMUDM 3,11,81
ipr-mus LD50:200 mg/kg NTIS** AD691-490
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

NAN500 CAS: 571-60-8 HR: 3
1,4-NAPHTHALENEDIOL
mf: $C_{10}H_8O_2$ mw: 160.18
PROP: Needles from EtOH. Mp: 176°. Sol in hot H_2O.
TOXICITY DATA with REFERENCE:
orl-rat LDLo:100 mg/kg NCNSA6 5,35,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

NAN505 CAS: 83-56-7 HR: D
1,5-NAPHTHALENEDIOL
mf: $C_{10}H_8O_2$ mw: 160.18
PROP: Yellowish, brown powder.
SYNS: C.I. 76625 □ 1,5-DIHYDROXYNAPHTHALENE □ 1,5-DIHYDROXYNAPTHALENE □ DURAFUR DEVELOPER E □ OXIDATION BASE
TOXICITY DATA with REFERENCE:
dlt-oin-oin-par 10 ppm EVETBX 2,1029,73
dlt-oin-oin-skn 10 ppm EVETBX 2,1029,73
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NAN507 CAS: 575-44-0 HR: D
1,6-NAPHTHALENEDIOL
mf: $C_{10}H_8O_2$ mw: 160.18
SYNS: C.I. 76630 □ 1,6-DIHYDROXYNAPHTHALENE □ 2,5-DIHYDROXYNAPHTHALENE □ 2,5-NAPHTHALENEDIOL
TOXICITY DATA with REFERENCE:
mic-sat 10 µmol/plate MUREAV 371,293,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NAN508 CAS: 575-38-2 HR: D
1,7-NAPHTHALENEDIOL
mf: $C_{10}H_8O_2$ mw: 160.18
SYNS: C.I. 76635 □ 1,7-DIHYDROXYNAPHTHALENE
TOXICITY DATA with REFERENCE:
mic-sat 1600 nmol/plate MUREAV 371,293,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NAN510 CAS: 92-44-4 HR: 3
2,3-NAPHTHALENEDIOL
mf: $C_{10}H_8O_2$ mw: 160.18
PROP: Slight grayish-white powder.
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#03884
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

NAO500 CAS: 582-17-2 HR: 3
2,7-NAPHTHALENEDIOL
mf: $C_{10}H_8O_2$ mw: 160.18
PROP: Needles from H_2O. Mp: 190°. Sol in hot H_2O.
SYNS: C.I. 76645 □ 2,7-DIHYDROXYNAPHTHALENE □ NAPHTHALENE-2,7-DIOL □ NAPHTHALENEDIOL-2,7 (FRENCH)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:102 mg/kg EJMCA5 13,381,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating fumes.

NAO525 CAS: 39699-08-6 HR: 1
1,5-NAPHTHALENEDISULFONIC ACID, 3,4-DIAMINO-
mf: $C_{10}H_{10}N_2O_6S_2$ mw: 318.34
SYNS: AMINO-C ACID □ 3,4-DIAMINO-1,5-NAPHTHALENEDISULFONIC ACID
TOXICITY DATA with REFERENCE:
orl-rat LD50:29 g/kg GISAAA 45(3),73,80
orl-mus LD50:29 g/kg GISAAA 45(3),73,80
orl-rbt LD50:18 g/kg GISAAA 45(3),73,80
orl-gpg LD50:42 g/kg GISAAA 45(3),73,80
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NAO600 CAS: 3701-40-4 HR: D
NAPHTHALENE LEATHER RED R
mf: $C_{34}H_{26}N_4O_8S_2$•2Na mw: 728.74
SYNS: ACIDINE RED RD □ ACID LEATHER RED 2BG □ ACID RED 99 □ AIREDALE RED RM □ BENZYL FAST RED 2BG □ BRILLIANT MILLING RED □ CALCOCID MILLING RED RC □ C.I. 23285 □ C.I. ACID RED 99 □ C.I. ACID RED 99, DISODIUM SALT □ COOMASSIE RED R □ ELITE FAST RED BG □ ELITE FAST RED R □ ELITE FAST RED RS □ KAYANOL RED RS □ MILLING FAST RED R □ MILLING FAST RED RS □ MILLING

RED PRX □ 2,7-NAPHTHALENEDISULFONIC ACID, 4-HYDROXY-3-((4'-((2-HYDROXY-1-NAPHTHALENYL)AZO)-2,2'-DIMETHYL(1,1'-BIPHENYL)-4-YL)AZO)-, DISODIUM SALT □ OPTANOL RED R □ PHARMANIL RED RB □ POLAR RED GBD □ POLAR RED R □ SHIKISO ACID RED RS □ SULFONINE RED RS □ SUMINOL MILLING RED GRS □ SUMINOL RED RS □ SUPRANOL FAST RED RX □ TAKAOKA ACID RED RS

TOXICITY DATA with REFERENCE:
mma-sat 125 µg/plate VHTODE 22,413,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NAP000 CAS: 120-18-3 HR: 3
2-NAPHTHALENESULFONIC ACID
mf: $C_{10}H_8O_3S$ mw: 208.24

PROP: Very hygroscopic crystals. Mp: 91°. Very sol in org solvs.

SYNS: β-NAPHTHALENESULFONIC ACID □ NAPHTHALENE-2-SULFONIC ACID □ β-NAPHTHYLSULFONIC ACID

TOXICITY DATA with REFERENCE:
orl-rat LD50:400 mg/kg 14CYAT 2,1842,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic fumes of SO_x. See also SULFONATES.

NAP100 CAS: 1248-18-6 HR: D
1-NAPHTHALENESULFONIC ACID, 2-((2-HYDROXY-1-NAPHTHALENYL)AZO)-, MONOSODIUM SALT
mf: $C_{20}H_{13}N_2O_4S{\bullet}Na$ mw: 400.40

PROP: Red pigment.

SYNS: ATUL PIGMENT RED RS SODIUM SALT □ BRASILACA RED R □ BRITONE RED Y □ CARNELIO PALE LITHOL RED □ CERTIQUAL LITHOL RED □ C.I. 15630 □ C.I. PIGMENT RED 49 □ C.I. PIGMENT RED 49, MONOSODIUM SALT □ D and C RED No. 10 □ ELJON LITHOL RED No. 10 □ GRAPHIC RED Y □ IRGALITE RED RL □ KROMON SODIUM LITHOL □ LAKE RED R □ LAKE RED RL □ LIGHT RED RS □ LITHOL RED □ LITHOL RED 3580 □ LITHOL RED 17676 □ LITHOL RED B □ LITHOL RED 3GS □ LITHOL RED LAKE □ LITHOL RED R □ LITHOL RED RB EXTRA □ LITHOL RED RL 151 □ LITHOL RED RS □ LITHOL RED SODIUM SALT □ LITHOL RED TONER □ LITHOL TONER □ LITHOL TONER EXTRA LIGHT 5000 □ LITHOL TONER SODIUM SALT RT 314 □ LITHOL TONER YA 8003 □ LUTETIA RED R □ MONOLITE RED R □ NEW YORK RED □ OHIO RED □ ORALITH RED SR WATER SOLUBLE □ PLASTORESIN RED SR □ RECOLITE RED LYS □ 11935 RED □ RED No. 205 □ RESAMINE RED RB □ RESAMINE RED RC □ SEGNALE RED R □ SIGNAL RED □ SILOTON RED R □ SODIUM LITHOL □ SODIUM LITHOL RED □ SODIUM LITHOL RED 20-4018 □ SUNBURST RED □ TERTROPIGMENT RED LR □ UNDEVELOPED LITHOL TONER □ VULCAFIX RED R □ ULCOL SCARLET 2G

TOXICITY DATA with REFERENCE:
mmo-sat 500 µg/plate AEMIDF 42,641,81
mma-sat 1 mg/plate AEMIDF 42,641,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NAP250 CAS: 128-97-2 HR: 2
1,4,5,8-NAPHTHALENETETRACARBOXYLIC ACID
mf: $C_{14}H_8O_8$ mw: 304.22

PROP: Pale, yellow powder or particle.

TOXICITY DATA with REFERENCE:
orl-rat LD50:7500 mg/kg 85GMAT -,90,82
orl-mus LD50:3800 mg/kg 85GMAT -,90,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NAP300 CAS: 81-30-1 HR: 3
1,4,5,8-NAPHTHALENETETRACARBOXYLIC ACID-1,8:4,5-DIANHYDRIDE
mf: $C_{14}H_4O_6$ mw: 268.18

PROP: Needles from AcOH. Bp: 320° @ 3 mm (subl).

SYNS: 2,7-DIOXAPYRENE-1,3,6,8-TETRONE □ NSC-84241

TOXICITY DATA with REFERENCE:
orl-rat LD50:7400 mg/kg 85GMAT -,90,82
itr-rat LDLo:50 mg/kg 85GMAT -,90,82
orl-mus LD50:7100 mg/kg 85GMAT -,90,82

SAFETY PROFILE: Poison by intratracheal route. Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also ANHYDRIDES.

NAP500 CAS: 91-60-1 HR: 3
2-NAPHTHALENETHIOL
mf: $C_{10}H_8S$ mw: 160.24

PROP: Crystals from ethanol; disagreeable odor. Mp: 81°, bp: 286°. Very sol in ethanol, ether, pet ether; sltly sol in water; sltly volatile with steam.

SYNS: β-MERCAPTONAPHTHALENE □ 2-MERCAPTONAPHTHALENE □ β-NAPHTHALENETHIOL □ NAPHTHALENE-2-THIOL □ β-NAPHTHYL MERCAPTAN □ 2-NAPHTHYL MERCAPTAN □ 2-NAPHTHYL THIOL □ RENACIT 1 □ RPA 2 □ RPA NO. 2 □ THIONAPHTHOL □ THIO-β-NAPHTHOL □ β-THIONAPHTHOL □ 2-THIONAPHTHOL □ USAF CY-4 □ VULCAMEL TBN

TOXICITY DATA with REFERENCE:
orl-mus LD50:385 mg/kg DCTODJ 3,249,80
ipr-mus LD50:200 mg/kg NTIS** AD277-689

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. A mosquito larvicide. When heated to decomposition it emits highly toxic fumes of SO_x. See also MERCAPTANS.

NAP525 CAS: 77267-52-8 HR: 2

1-NAPHTHALENYL ((HEXYLOXY)SULFINYL)-METHYLCARBAMATE

mf: $C_{18}H_{23}NO_4S$ mw: 349.48

SYNS: CARBAMIC ACID, ((HEXYLOXY)SULFINYL)METHYL-, 1-NAPHTHALENYL ESTER ◻ 1-NAPHTHYL (METHYL)(HEXOXY-SULFINYL)CARBAMATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:>1 g/kg USXXAM #4263318

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

NAP545 CAS: 131543-22-1 HR: 3
(NAPHTHALENYL)METHANONE

mf: $C_{27}H_{26}N_2O_3$ mw: 426.52

SYNS: WIN 55212 ◻ R-(+)-(2,3-DIHYDRO-5-METHYL-3-((4-MORPHOLINYL)METHYL)PYRROLO(1,2,3-DE)-1 ,4-BENZOX-AZINYL)(1- ◻ METHANONE, (2,3-DIHYDRO-5-METHYL-3-(4-MORPHOLINOMETHYL)PYRROLO(1,2,3-DE)-1,4-BENZOXAZ IN-6-YL)-1-NAPHTHALENYL-, (3R)-

TOXICITY DATA with REFERENCE:

ipr-mus TDLo:3.125 mg/kg JPETAB 293,136,2000

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

NAP600 CAS: 63421-91-0 HR: 2
1-(2-NAPHTHALENYL)-3-(5-NITRO-2-FURANYL)-2-PROPEN-1-ONE

mf: $C_{17}H_{11}NO_4$ mw: 293.29

SYN: 2-PROPEN-1-ONE, 1-(2-NAPHTHALENYL)-3-(5-NITRO-2-FURANYL)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:>1500 mg/kg BSPBAD 117,101,78

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

NAQ000 CAS: 81-84-5 HR: 1
1,8-NAPHTHALIC ANHYDRIDE

mf: $C_{12}H_6O_3$ mw: 198.18

PROP: Needles in alcohol. Mp: 273−274°. Sltly sol in acetic acid; very sol in alc and ether.

SYNS: AI3-09071 ◻ PROTECT

TOXICITY DATA with REFERENCE:

orl-rat LD50:12,340 mg/kg FMCHA2 -,C199,83
skn-rbt LD50:>2025 mg/kg PEMNDP 8,590,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NAQ500 CAS: 2668-92-0 HR: 3
NAPHTHALOXIMIDODIETHYL THIOPHOSPHATE

mf: $C_{16}H_{16}NO_5PS$ mw: 365.36

SYNS: O,O-DIETHYL-o-NAPHTHALIMIDE PHOSPHOROTHIO-ATE ◻ O,O-DIETHYL-o-NAPHTHALOXIMIDO PHOSPHORO-THIOATE ◻ O,O-DIETHYL-o-NAPHTHALOXIMIDOPHOS-PHOROTHIONATE ◻ O,O-DIETHYL-o-NAPHTHYLAMIDO-PHOSPHOROTHIOATE ◻ ENT 24,970 ◻ N-HYDROXYNAPHTH-ALIMIDE-O,O-DIETHYL PHOSPHOROTHIOATE ◻ NAPHT-HALOXIMIDE-O,O-DIETHYL PHOSPHOROTHIOATE ◻ PHOSPHOROTHIOIC ACID-O,O-DIETHYL ESTER, -o-NAPHTH-ALIMIDO DERIVATIVE ◻ PHOSPHOROTHIOIC ACID-O,O-DIETHYL-o-NAPHTHYLAMIDOESTER

TOXICITY DATA with REFERENCE:

orl-rat LDLo:500 mg/kg TXAPA9 21,315,72
orl-ckn LD50:3169 mg/kg TXAPA9 3,521,61
orl-bwd LD50:24 mg/kg TXAPA9 21,315,72

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic SO_x, PO_x, and NO_x. See also ESTERS.

NAQ510 CAS: 68955-35-1 HR: 1
NAPHTHA (PETROLEUM), CATALYTIC REFORMED

SYN: FULL RANGE CATALYTIC REFORMED NAPHTHA

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MOD JACTDZ 1,122,90
orl-rat LD50:5400 mg/kg JACTDZ 1,122,90
ihl-rat LC:>5 g/m^3/4H JACTDZ 1,122,90
skn-rbt LD:>2 g/kg JACTDZ 1,122,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NAQ520 CAS: 64741-54-4 HR: 1
NAPHTHA (PETROLEUM), HEAVY CATALYTIC CRACKED

SYN: HEAVY CATALYTIC CRACKED NAPHTHA

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg SEV JACTDZ 1,120,90
orl-rat LD:>5 g/kg JACTDZ 1,120,90
ihl-rat LC:>5700 mg/m^3/4H JACTDZ 1,120,90
skn-rbt LD:>2 g/kg JACTDZ 1,120,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NAQ530 CAS: 64741-68-0 HR: 3
NAPHTHA (PETROLEUM), HEAVY CATALYTIC REFORMED

PROP: Clear aromatic liquid. Bp: 104−116°, d: 0.85−0.88 @ 16°/16°. Flash pt: <40° F.

SYN: HEAVY CATALYTIC REFORMED NAPHTHA

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg SEV JACTDZ 1,123,90
orl-rat LD50:4800 mg/kg JACTDZ 1,123,90
ihl-rat LC:>5 g/m^3/4H JACTDZ 1,123,90
skn-rbt LDLo:2 g/kg JACTDZ 1,123,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. A severe skin irritant. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating vapors.

NAQ540 CAS: 64741-55-5 HR: 3
NAPHTHA (PETROLEUM), LIGHT CATALYTIC CRACKED
SYN: LIGHT CATALYTICALLY CRACKED NAPHTHA
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD JACTDZ 1,119,90
orl-rat LD:>5 g/kg JACTDZ 1,119,90
ihl-rat LC:>5 g/m^3/4H JACTDZ 1,119,90
skn-rbt LDLo:3 g/kg JACTDZ 1,119,90
CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 45,39,89. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. A suspected carcinogen. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

NAQ550 CAS: 64741-63-5 HR: 1
NAPHTHA (PETROLEUM), LIGHT CATALYTIC REFORMED
SYN: LIGHT CATALYTIC REFORMED NAPHTHA
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD JACTDZ 1,121,90
orl-rat LD:>5 g/kg JACTDZ 1,121,90
ihl-rat LC:>5 g/m^3/4H JACTDZ 1,121,90
skn-rbt LD:>2 g/kg JACTDZ 1,121,90
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

NAQ560 CAS: 64741-46-4 HR: 3
NAPHTHA (PETROLEUM), LIGHT STRAIGHT-RUN
SYN: LIGHT STRAIGHT-RUN NAPHTHA
CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 45,39,89. Reported in EPA TSCA Inventory.
SAFETY PROFILE: A suspected carcinogen. When heated to decomposition it emits acrid smoke and irritating vapors.

NAQ570 CAS: 64741-87-3 HR: 1
NAPHTHA (PETROLEUM), SWEETENED
SYN: SWEETENED NAPHTHA (PETROLEUM)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD JACTDZ 1,1116,90
orl-rat LD:>5 g/kg JACTDZ 1,116,90
ihl-rat LC:>5 g/m^3/4H JACTDZ 1,116,90
skn-rbt LD:>2 g/kg JACTDZ 1,116,90
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

NAQ580 CAS: 64741-83-9 HR: 1
NAPHTHA (PETROLEUM), THERMAL CRACKED
SYN: HEAVY THERMAL CRACKED NAPHTHA
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg JACTDZ 1,125,90
orl-rat LD:>5 g/kg JACTDZ 1,125,90
ihl-rat LC:>5 g/m^3/4H JACTDZ 1,125,90
skn-rbt LD:>2 g/kg JACTDZ 1,125,90
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

NAQ600 CAS: 131-13-5 HR: 3
1:4-NAPHTHAQUINOL-BISDISODIUM PHOSPHATE
mf: $C_{11}H_{12}O_8P_2$•4Na mw: 426.13
SYNS: KAPPADIONE ◻ KIPCA WATER SOLUBLE ◻ MENADIOL DIPHOSPHATE TETRASODIUM SALT ◻ MENADIOL SODIUM DIPHOSPHATE ◻ MENADIOL TETRA-SODIUM DIPHOSPHATE ◻ MENADIONE DIPHOSPHATE TETRASODIUM SALT ◻ MENADIONE SODIUM PHOSPHATE ◻ 2-METHYL-1,4-NAPHTHALENEDIOL BIS(DIHYDROGEN PHOSPHATE) TETRASODIUM SALT ◻ 2-METHYL-1,4-NAPH-THAQUINOL BIS(DISODIUM PHOSPHATE) ◻ 2-METHYL-1,4-NAPHTHOHYDROQUINONE DIPHOSPHORIC ACID ESTER TETRASODIUM SALT ◻ 2-METHYL-1,4-NAPHTHOQUINOL BIS(DISODIUM PHOSPHATE) ◻ 1,4-NAPHTHALENEDIOL, 2-METHYL-, BIS(DI-H-PHOSPHATE), TETRASODIUM SALT ◻ 1,4-NAPHTHALENEDIOL, 2-METHYL-, BIS(DIHYDROGEN PHOS-PHATE), TETRASODIUM ◻ PHOSPHORIC ACID, DIESTER WITH 2-METHYL-1,4-NAPHTHALENEDIOL, TETRASODIUM SALT ◻ PROCOAGULO ◻ SYNKAVITE ◻ SYNKAYVITE ◻ THYLOKAY ◻ TETRASODIUM 2-METHYL-1,4-NAPHTHALENE-DIOL BIS(DIHYDROGEN PHOSPHATE) ◻ TETRASODIUM 2-METHYL-1,4-NAPHTHAHYDROQUINONE DIPHOSPHORIC ACID ESTER
TOXICITY DATA with REFERENCE:
ipr-rat LD50:231 mg/kg TXAPA9 18,185,1971
scu-mus LD50:350 mg/kg ARZNAD 8,25,1958
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 76,417,2000; Human Inadequate Evidence IMEMDT 76,417,2000; Animal Inadequate Evidence IMEMDT 76,417,2000.
SAFETY PROFILE: A poison by intraperitoneal and subcutaneous route. Questionable carcinogen. When heated to decomposition it emits toxic vapors of PO_x.

NAR000 CAS: 1338-24-5 HR: 2
NAPHTHENIC ACID
PROP: Odorless crystals. D: 1.034, mp: 31°, bp: 233°. Sltly water-sol.
SYNS: AGENAP ◻ NAPHID ◻ SUNAPTIC ACID B ◻ SUNAPTIC ACID C
TOXICITY DATA with REFERENCE:
orl-rat LD50:3000 mg/kg AMIHAB 12,477,55
ipr-rat LD50:640 mg/kg AMIHAB 12,477,55
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating fumes.

NAR100 CAS: 61789-64-8 HR: 2
NAPHTHENIC ACID ALUMINUM SALT
SYN: NAPHTHENIC ACIDS, ALUMINUM SALT
TOXICITY DATA with REFERENCE:
ipr-rat LD50:2525 mg/kg GTPZAB 26(7),51,82
ipr-mus LD50:2350 mg/kg GTPZAB 26(7),51,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

NAR200 CAS: 61789-36-4 HR: 1
NAPHTHENIC ACID, CALCIUM SALT
SYN: CALCIUM NAPHTHENATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:>6 g/kg AMIHAB 12,477,55
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

NAR500 CAS: 61789-51-3 HR: 3
NAPHTHENIC ACID, COBALT SALT
DOT: UN 2001
PROP: Brown, amorph powder or bluish-red solid. Flash p: 120°F, d: 0.9, autoign temp: 529°F. Water-insol; sol in oil, alc, ether. Contains 6% cobalt (AMIHAB 12,477,55).
SYNS: COBALT NAPHTHENATE, POWDER (DOT) □ NAPHTHENATE de COBALT (FRENCH)
TOXICITY DATA with REFERENCE:
orl-rat LD50:3900 mg/kg AMIHAB 12,477,55
CONSENSUS REPORTS: Cobalt and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 4.1; Label: Flammable Solid
SAFETY PROFILE: Moderately toxic by ingestion. Flammable when exposed to heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes. See also COBALT COMPOUNDS.

NAS000 CAS: 1338-02-9 HR: 3
NAPHTHENIC ACID, COPPER SALT
PROP: A solid. Flash p: 100°F, d: 1.055. Contains 8% copper (AMIHAB 12,477,55).
SYNS: CHAPCO Cu-NAP □ CNC □ COPPER NAPHTHENATE □ COPPER UVERSOL □ CUNAPSOL □ CUPRINOL □ TROYSAN COPPER 8% □ WILTZ-65 □ WITTOX C
TOXICITY DATA with REFERENCE:
orl-rat LD50:2 g/kg FMCHA2 -,C81,91
orl-mus LDLo:110 mg/kg SCCUR* -,3,61
CONSENSUS REPORTS: Copper and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by ingestion. A pesticide. A dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO_2, dry chemical. See also COPPER COMPOUNDS.

NAS500 CAS: 61790-14-5 HR: 3
NAPHTHENIC ACID, LEAD SALT
mf: $C_7H_{12}O_2$•xPb mw: 1578.52
PROP: Contains 24% lead (AMIHAB 12,477,55).
SYNS: CYCLOHEXANECARBOXYLIC ACID, LEAD SALT □ LEAD NAPHTHENATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:5100 mg/kg AMIHAB 12,477,55
ipr-rat LD50:520 mg/kg AMIHAB 12,477,55
CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 23,325,80. Lead and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison. Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of lead. See also LEAD COMPOUNDS.

NAT000 CAS: 12001-85-3 HR: 2
NAPHTHENIC ACID, ZINC SALT
PROP: A solid. Contains 8% zinc (AMIHAB 12,477,55).
SYNS: ZINC NAPHTHENATE □ ZINC UVERSOL
TOXICITY DATA with REFERENCE:
orl-rat LD50:4920 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Zinc and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. Combustible when exposed to heat or flame. When heated to decomposition it emits toxic fumes of ZnO. A fungicide and mildew preventive. See also ZINC COMPOUNDS.

NAT100 CAS: 67254-74-4 HR: 2
NAPHTHENIC OILS
SYN: LV1N 32, BASE OIL
SAFETY PROFILE: Questionable carcinogen with experimental data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NAT500 CAS: 192-65-4 HR: 3
NAPHTHO(1,2,3,4-def)CHRYSENE
mf: $C_{24}H_{14}$ mw: 302.38
PROP: Pale-yellow crystals from xylene. Mp: 225° (*in vacuo*).
SYNS: DB(a,e)P □ DIBENZO(a,e)PYRENE □ 1,2,4,5-DIBENZOPYRENE
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 32,327,83; IMEMDT 3,201,73.
SAFETY PROFILE: Confirmed carcinogen with experimental neoplastigenic and tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

NAU000 CAS: 16566-64-6 HR: 2
NAPHTHO(1,8-gh:4,5-g′h′)DIQUINOLINE
mf: $C_{22}H_{12}N_2$ mw: 304.36

SYNS: 1,12-DIAZADIBENZO(a,i)PYRENE □ DIPYRIDO(2,3-d,2,3-1)PYRENE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NAU500 CAS: 16566-62-4 HR: 2
NAPHTHO(1,8-gh:5,4-g′h′)DIQUINOLINE
mf: $C_{22}H_{12}N_2$ mw: 304.36
SYNS: 4,11-DIAZADIBENZO(a,h)PYRENE □ DIPYRIDO(2,3-D,2,3-K)PYRENE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NAU510 CAS: 193-09-9 HR: D
NAPHTHO(2,3-E)PYRENE
mf: $C_{24}H_{14}$ mw: 302.38
SYN: DIBENZO(de,qr)NAPHTHACENE
TOXICITY DATA with REFERENCE:
msc-hmn-lym 10 µg/ MUREAV 446,1,1999
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NAU525 CAS: 6051-87-2 HR: 3
β-NAPHTHOFLAVONE
mf: $C_{19}H_{12}O_2$ mw: 272.31
PROP: Needles from EtOH. Mp: 164−165°.
SYNS: 1H-NAPHTHO(2,1-b)PYRAN-1-ONE, 3-PHENYL- □ β-NF □ 3-PHENYL-1H-NAPHTHO(2,1-b)PYRAN-1-ONE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#03239
SAFETY PROFILE: Poison by intraperitoneal route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

NAU530 CAS: 238-04-0 HR: D
NAPHTHO(1,2-k)FLUORANTHENE
mf: $C_{24}H_{14}$ mw: 302.38
SYN: ACENAPHTHO(1,2-b)PHENANTHRENE
TOXICITY DATA with REFERENCE:
msc-hmn-lym 100 µg/ MUREAV 371,123,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NAU535 CAS: 206-06-4 HR: D
NAPHTHO(2,3-B)FLUORANTHENE
mf: $C_{24}H_{14}$ mw: 302.38
SYNS: DIBENZO(E,K)ACEPHENANTHRYLENE □ NAPHTHO(2',3':2,3)FLUORANTHENE
TOXICITY DATA with REFERENCE:
msc-hmn-lym 590 µg/ MUREAV 371,123,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NAU600 CAS: 238-84-6 HR: D
α-NAPHTHOFLUORENE
mf: $C_{17}H_{12}$ mw: 216.29
PROP: White or off white powder. Mp: 184°.
SYNS: BENZO(a)FLUORENE □ 11H-BENZO(a)FLUORENE □ 1,2-BENZOFLUORENE □ CHRYSOFLUORENE
TOXICITY DATA with REFERENCE:
mma-sat 50 µg/plate MUREAV 174,247,86
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 32,177,83; Human No Adequate Data IMEMDT 32,177,83
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NAU700 CAS: 218-19-9 HR: D
NAPHTHO(1,2-H)QUINOLINE
mf: $C_{17}H_{11}N$ mw: 229.29
SYN: 4-AZACHRYSENE
TOXICITY DATA with REFERENCE:
mic-sat 10 µLg/plate MUREAV 158,125,1985
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NAV000 CAS: 10335-79-2 HR: D
2-NAPHTHOHYDROXAMIC ACID
mf: $C_{11}H_9NO_2$ mw: 187.21
PROP: Plates from EtOH. Mp: 168°. Sol in EtOH; sparingly sol in H_2O, Et_2O, and C_6H_6.
SYNS: N-HYDROXY-2-NAPHTHALENECARBOXAMIDE □ 2-NAPHTHOHYDROXIMIC ACID □ 2-NAPHTHOYLHYDROXAMIC ACID □ 2-NAPHTHYLHYDROXAMIC ACID
TOXICITY DATA with REFERENCE:
mmo-sat 250 nmol/plate MUREAV 135,139,84
sce-ham:ovr 20 µmol/L PAACA3 21,126,80
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NAV490 CAS: 86-55-5 HR: 2
1-NAPHTHOIC ACID
mf: $C_{11}H_8O_2$ mw: 172.19
PROP: White crystalline powder. Mp: 160−162°.
SYNS: 1-CARBOXYNAPHTHALENE □ NAPHTHALENE-α-CARBOXYLIC ACID □ 1-NAPHTHALENECARBOXYLIC ACID (9CI) □ α-NAPHTHOIC ACID □ α-NAPHTHYLCARBOXYLIC ACID
TOXICITY DATA with REFERENCE:
orl-mus LD50:2370 mg/kg NTIS** PB85-143766
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

NAV500 CAS: 93-09-4 HR: 2
2-NAPHTHOIC ACID
mf: $C_{11}H_8O_2$ mw: 172.19
PROP: Two forms: α and β. α: Needles, sltly sol in hot water; sol in hot alc and ether. β: Plates or needles, sltly sol

in hot water; sol in alc and ether. Mp (α): 160−161°, mp (β): 184−185°, bp (α): 300°, bp (β): >300°.
SYNS: ISONAPHTHOIC ACID □ 2-MAYTHIC ACID □ 2-NAPHTHALENECARBOXYLIC ACID □ NAPHTHALENE-β-CARBOXYLIC ACID □ β-NAPHTHOIC ACID
TOXICITY DATA with REFERENCE:
orl-rat LD50:4500 mg/kg 85GMAT -,90,82
orl-mus LD50:4700 mg/kg 85GMAT -,90,82
ipr-mus LDLo:500 mg/kg CBCCT* 4,379,52
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion. A skin and mucous membrane irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NAW000 CAS: 1321-67-1 HR: 3
NAPHTHOL
mf: $C_{10}H_8O$ mw: 144.18
PROP: Monoclinic. D: 1.217 @ 4°, mp: 122−123°, bp: 285−286°. Sol in cold and hot water and in chloroform; very sol in alc and benzene.
TOXICITY DATA with REFERENCE:
scu-dog LDLo:333 mg/kg ZMWIAJ 19,545,1881
scu-rbt LDLo:1000 mg/kg ZMWIAJ 19,545,1881
SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits acrid smoke and irritating fumes.

NAW500 CAS: 90-15-3 HR: 3
1-NAPHTHOL
mf: $C_{10}H_8O$ mw: 144.18
PROP: Colorless crystals or prisms; odor of phenol, disagreeable taste. Mp: 96°, bp: 282.5°, d: 1.0954 @ 98.7°/4°, vap press: 1 mm @ 94.0°. Very sltly sol in water; sol in alc and ether.
SYNS: BASF URSOL ERN □ C.I. 76605 □ C.I. OXIDATION BASE 33 □ DURAFUR DEVELOPER D □ FOURAMINE ERN □ FOURRINE 99 □ FOURRINE ERN □ FURRO ER □ α-HYDROXYNAPHTHALENE □ 1-HYDROXYNAPHTHALENE □ NAKO TRB □ 1-NAPHTHALENOL □ α-NAPHTHOL □ TERTRAL ERN □ URSOL ERN □ ZOBA ERN
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV BIOFX* 25-4/73
skn-rbt 550 mg open MOD UCDS** 11/10/64
eye-rbt 1 mg SEV UCDS** 11/10/64
mma-sat 500 µg/plate BJCAAI 37,873,78
dnr-esc 20 µL/disc MUREAV 97,1,82
orl-rat LD50:1870 mg/kg TSCAT* FYI-OTS-0885-0443
ipr-rat LD50:250 mg/kg TSCAT* FYI-OTS-0885-0443
orl-mus LD50:275 mg/kg GISAAA 30(9),22,65
orl-cat LD50:134 mg/kg GISAAA 30(9),22,65
orl-rbt LD50:9 g/kg GISAAA 30(9),22,65
skn-rbt LD50:880 mg/kg AIHAAP 23,95,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. An experimental teratogen. Experimental reproductive effects. A severe eye and skin irritant. Mutation data reported. Ingestion of large amounts can cause nephritis, vomiting, diarrhea, circulatory collapse, anemia, convulsions, and death. Can cause kidney irritation and injury to cornea and lens of the eye. Combustible when exposed to heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes.

NAX000 CAS: 135-19-3 HR: 3
2-NAPHTHOL
mf: $C_{10}H_8O$ mw: 144.18
PROP: White to yellowish-white crystals; slt phenolic odor. Plates by subl. Mp: 121−123°, bp: 285−286°, d: 1.22, flash p: 307°F, vap press: 10 mm @ 145.5°, vap d: 4.97. Darkens with age or exposure to light. Subl when heated; distills in vacuum. Sltly sol in water; more sol in boiling water, glycerol, olive oil, solns of alkali hydroxides. Very sol in alc, ether; sol in chloroform.
SYNS: AZOGEN DEVELOPER A □ C.I. 37500 □ C.I. AZOIC COUPLING COMPONENT 1 □ C.I. DEVELOPER 5 □ DEVELOPER A □ DEVELOPER AMS □ DEVELOPER BN □ DEVELOPER SODIUM □ β-HYDROXYNAPHTHALENE □ 2-HYDROXYNAPHTHALENE □ ISONAPHTHOL □ β-MONOXYNAPHTHALENE □ β-NAFTOL (DUTCH) □ 2-NAFTOL (DUTCH) □ β-NAFTOLO (ITALIAN) □ 2-NAFTOLO (ITALIAN) □ 2-NAPHTHALENOL □ NAPHTHOL B □ β-NAPHTHOL □ β-NAPHTHYL ALCOHOL □ β-NAPHTHYL HYDROXIDE □ β-NAPHTOL (GERMAN) □ 2-NAPHTOL (FRENCH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD BIOFX* 26-4/73
eye-rbt 100 mg MOD BIOFX* 26-4/73
dnr-esc 2 mg/disc MUREAV 97,1,82
dnr-bcs 5 g/L MUREAV 42,19,77
orl-rat LD50:1960 mg/kg GTPPAF 8,145,72
ihl-rat LC50:>20 mg/m^3 GISAAA 38(10),15,73
scu-rat LDLo:2940 mg/kg AEPPAE 186,195,37
orl-mus LDLo:100 mg/kg HBAMAK 4,1289,35
ipr-mus LD50:97,500 mg/kg EJMCA5 13,381,78
scu-mus LDLo:100 mg/kg ZHINAV 64,113,1909
orl-cat LDLo:100 mg/kg HBAMAK 4,1289,35
scu-rbt LDLo:3 g/kg HBAMAK 4,1289,35
scu-gpg LDLo:2670 mg/kg AEPPAE 186,195,37
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion, inhalation, and subcutaneous routes. Mutation data reported. A skin and eye irritant. Combustible when exposed to heat or flame. To fight fire, use CO_2, dry chemical. Incompatible with antipyrine, camphor, phenol, ferric salts, menthol, potassium permanganate and other oxidizing materials, urethane.

NAX100 CAS: 130-00-7 HR: 2
1,8-NAPHTHOLACTAM
mf: $C_{11}H_7NO$ mw: 169.19
SYNS: BENZ(cd)INDOL-2(1H)-ONE □ NAPHTHOLACTAM □ NAPHTHOSTYRIL □ 2(1H)-PERINAPHTHAZOLONE
TOXICITY DATA with REFERENCE:
orl-mus LD50:1 g/kg CCCCAK 50,1888,85
orl-uns LD50:2700 mg/kg GISAAA 51(1),82,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NAX500 CAS: 19381-50-1 HR: 2
NAPHTHOL GREEN B
mf: $C_{30}H_{15}FeN_3O_{15}S_3$•3Na mw: 878.48
PROP: Green dye.
SYNS: C.I. 10020 □ C.I. ACID GREEN 1 □ C.I. PIGMENT GREEN 12 □ D and C GREEN 1 □ EXT D and C GREEN NO. 1 □ IRON, TRIS(5,6-DIHYDRO-5,6-DIOXO-2-NAPHTHALENE-SULFONIC ACID-5-OXIMATO)-, TRISODIUM SALT □ NAPHTHOL GREEN
TOXICITY DATA with REFERENCE:
ivn-mus LD50:460 mg/kg TXAPA9 44,225,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

NAY000 CAS: 6471-49-4 HR: 2
NAPHTHOL RED B
mf: $C_{24}H_{17}N_5O_7$ mw: 487.46
PROP: Red powder. D: 1.45, mp: 330−340° (exothermic). Sol in water.
SYNS: ALKALI RESISTANT RED DARK □ CALCOTONE RED 3B □ CARNATION RED TONER B □ C.I. 12355 □ C.I. PIGMENT RED 23 □ CONGO RED R-138 □ FENALAC RED FKB EXTRA □ MALTA RED X 2284 □ NAPHTHOL RED B 20-7575 □ NAPHTHOL RED DEEP 10459 □ NAPHTHOL RED D TONER 35-6001 □ NCI-C60377 □ PIGMENT RED 23 □ PIGMENT RED BH □ RUBESCENCE RED MT-21 □ SANYO FAST RED 10B □ SAPONA RED LAKE RL-6280 □ SEGNALE LIGHT RUBINE RG □ TEXTILE RED WD-263
TOXICITY DATA with REFERENCE:
mmo-sat 33 µg/plate ENMUDM 8(Suppl 7),1,86
mma-sat 33 µg/plate ENMUDM 8(Suppl 7),1,86
CONSENSUS REPORTS: Reported in NTP Carcinogenesis Studies (Feed); Equivocal: Rat, No Evidence: Mouse NTPTR* NTP-TR-411,92. Reported in EPA TSCA Inventory.
SAFETY PROFILE: A questionable carcinogen. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NAY090 CAS: 86-53-3 HR: D
1-NAPHTHONITRILE
mf: $C_{11}H_7N$ mw: 153.19
SYNS: α-CYANONAPHTHALENE □ 1-CYANONAPHTHALENE □ 1-NAPHTHALENECARBONITRILE □ 1-NAPHTHALENENITRILE □ α-NAPHTHONITRILE □ α-NAPHTHYLNITRILE □ 1-NAPHTHYLNITRILE
TOXICITY DATA with REFERENCE:
mmo-sat 10 mg/L 50NNAZ -,827,85
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NAY100 CAS: 613-46-7 HR: D
2-NAPHTHONITRILE
mf: $C_{11}H_7N$ mw: 153.19
SYNS: β-CYANONAPHTHALENE □ 2-CYANONAPHTHALENE □ 2-NAPHTHALENECARBONITRILE (9CI) □ 2-NAPHTHALENENITRILE □ β-NAPHTHONITRILE
TOXICITY DATA with REFERENCE:
mmo-sat 10 mg/L 50NNAZ -,827,85
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NAY200 CAS: 86541-62-0 HR: D
NAPHTHO(2′,1′:6,7)PHENANTHRO(3,4-B)-OXIRENE-2,3-DIOL, 1A,2,3,13C-TETRAHYDRO-
mf: $C_{22}H_{16}O_3$ mw: 328.38
SYN: C-3,T-4-DIHYDROXY-R-1,2-EPOXY-1,2,3,4-TETRAHYDRO-DIBENZ(A,H)ANTHRACENE
TOXICITY DATA with REFERENCE:
mor-mus-emb 100 µg/L CRNGDP 15,2225,94
add-mus-emb 1 mg/L CRNGDP 15,2225,94
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NAY500 CAS: 72017-28-8 HR: 2
NAPHTHOPYRIN
mf: $C_{21}H_{18}N_3$ mw: 312.42
TOXICITY DATA with REFERENCE:
scu-rat LDLo:3600 mg/kg AEPPAE 186,195,37
scu-gpg LDLo:4100 mg/kg AEPPAE 186,195,37
SAFETY PROFILE: Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x.

NAZ000 CAS: 224-98-6 HR: 2
NAPHTHO(2,3-f)QUINOLINE
mf: $C_{17}H_{11}N$ mw: 229.29
PROP: Colorless leaflets. Mp: 170°, bp: 446°. Insol in water; sol in alc and ether.
SYN: β-ANTHRAQUINOLINE
TOXICITY DATA with REFERENCE:
mma-sat 500 µg/plate CRNGDP 3,947,82
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NBA000 CAS: 524-42-5 HR: 3
1,2-NAPHTHOQUINONE
mf: $C_{10}H_6O_2$ mw: 158.16
PROP: Red needles from ether. Mp: decomp @ 115−120°. Sol in water, H_2SO_4, benzene, and ether. Golden yellow needles or orange leaflets from C_6H_6; decomp @ 145−147°. Sol in alc, benzene, ether; insol in water.
SYNS: 1,2-NAPHTHALENEDIONE □ 1,2 NAPHTHAQUINONE □ β-NAPHTHOQUINONE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:250 mg/kg NCNSA6 5,39,53
orl-mus LDLo:1070 mg/kg AECTCV 14,111,85

orl-bwd 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 fumes.

NBA500 CAS: 130-15-4 HR: 3
1,4-NAPHTHOQUINONE
mf: $C_{10}H_6O_2$ mw: 158.16
PROP: Yellow triclinic; odor of benzoquinone; needles from EtOH or pet ether. Mp: 125−126°, d: 1.422. Very sltly sol in cold water; very sol in hot alc; sol in ether, benzene, chloroform, carbon bisulfide, acetic acid, alkali hydroxide solns. Volatile with steam.
SYNS: 1,4-DIHYDRO-1,4-DIKETONAPHTHALENE □ 1,4-NAPHTHALENEDIONE □ α-NAPHTHOQUINONE □ RCRA WASTE NUMBER U166 □ USAF CY-10
TOXICITY DATA with REFERENCE:
orl-rat LD50:190 mg/kg VKMGA7 6,37,66
ipr-rat LDLo:50 mg/kg 85GMAT -,91,82
scu-rat LD50:202 mg/kg GTPZAB 16(5),52,72
orl-mus LDLo:80 mg/kg JPETAB 71,210,41
ipr-mus LD50:5500 µg/kg JMCMAR 26,570,83
scu-mus LDLo:40 mg/kg JPETAB 71,210,41
ivn-mus LDLo:10 mg/kg JPETAB 71,210,41
orl-gpg LD50:400 mg/kg VKMGA7 6,37,66
orl-bwd LD50:133 mg/kg AECTCV 12,355,83
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion, intravenous, subcutaneous, and intraperitoneal routes. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

NBA600 CAS: 52570-16-8 HR: 1
α-(2-NAPHTHOXY)PROPIONANILIDE
mf: $C_{19}H_{17}NO_2$ mw: 291.37
SYNS: MT 101 □ 2-(2-NAPHTHALENYLOXY)-N-PHENYL-PROPANAMIDE □ α-(β-NAPHTHOXY)PROPIONANILIDE □ 2-(2-NAPHTHYLOXY)PROPIONANILIDE □ NAPROANILIDE □ PROPANAMIDE, 2-(2-NAPHTHALENYLOXY)-N-PHENYL- □ URIBEST
TOXICITY DATA with REFERENCE:
orl-rat LD50:15 g/kg FMCHA2 -,C318,91
ihl-rat LC50:>1670 mg/m^3/4H NNGADV 12,563,87
skn-rat LD50:5 g/kg JPIFAN (40),32,82
orl-mus LD50:20 g/kg JPIFAN (40),32,82
skn-mus LD50:3 g/kg JPIFAN (40),32,82
orl-rbt LD50:>12 g/kg NNGADV 12,563,87
SAFETY PROFILE: Low toxicity by ingestion, inhalation, and skin contact. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

NBC000 CAS: 63021-45-4 HR: 3
1-(2-NAPHTHOYL)-AZIRIDINE
mf: $C_{13}H_{11}NO$ mw: 197.25
SYN: β-NAPHTHOYLETHYLENEIMINE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:122 mg/kg NCISA* PH-43-63-1132
SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NBC500 CAS: 76790-18-6 HR: D
N-(2-NAPHTHOYL)-o-PROPIONYLHYDROXYLAMINE
mf: $C_{14}H_{13}NO_3$ mw: 243.28
SYN: 2-NAPHTHOHYDROXAMIC ACID-o-PROPIONATE ESTER
TOXICITY DATA with REFERENCE:
mmo-sat 1 µmol/plate PAACA3 21,126,80
mma-sat 1 µmol/plate CBINA8 34,267,81
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

NAU600 CAS: 830-81-9 HR: D
1-NAPHTHYL ACETATE
mf: $C_{12}H_{10}O_2$ mw: 186.22
SYNS: ACETIC ACID 1-NAPHTHYL ESTER □ α-ACETOXY-NAPHTHALENE □ 1-ACETOXYNAPHTHALENE □ 1-NAPHT-HALENOL, ACETATE (9CI) □ α-NAPHTHOL ACETATE □ 1-NAPHTHOL, ACETATE □ α-NAPHTHYL ACETATE
TOXICITY DATA with REFERENCE:
sce-hmn:lym 10 mg/L MUREAV 241,109,90
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NBD000 CAS: 2508-23-8 HR: 2
N-2-NAPHTHYLACETOHYDROXAMIC ACID
mf: $C_{12}H_{11}NO_2$ mw: 201.24
SYNS: N-ACETYL-2-NAPHTHYLHYDROXYLAMINE □ 2-(N-HYDROXYACETAMIDO)NAPHTHALENE □ N-HYDROXY-2-ACETYLAMINONAPHTHALENE □ N-HYDROXY-N-2-NAPHTHALENYLACETAMIDE
TOXICITY DATA with REFERENCE:
dns-hmn:oth 10 µmo1/L JJIND8 72,847,84
SAFETY PROFILE: Human mutation data reported. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NBD500 CAS: 132-75-2 HR: 3
α-(1-NAPHTHYL)ACETONITRILE
mf: $C_{12}H_9N$ mw: 167.22
PROP: Waxy solid. Mp: 32−33°, bp: 162−164°.
SYN: α-NAPHTHYL ACETONITRILE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#03835
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and CN^-. See also NITRILES.

NBE500 CAS: 91-59-8 HR: 3
β-NAPHTHYLAMINE
DOT: UN 1650
mf: $C_{10}H_9N$ mw: 143.20
PROP: White to faint pink, lustrous leaflets from water; faint aromatic odor. Mp: 113°, d: 1.061 @ 98°/4°, vap press: 1 mm @ 108.0°, bp: 294°. Sol in hot water, alc, and ether.
SYNS: 2-AMINONAFTALEN (CZECH) □ 2-AMINONAPHTHALENE □ BETA-NAFTYLOAMINA (POLISH) □ C.I. 37270 □ FAST SCARLET BASE B □ NA □ β-NAFTILAMINA (ITALIAN) □ β-NAFTYLAMIN (CZECH) □ 2-NAFTYLAMINE (DUTCH) □ β-NAFTYLOAMINA (POLISH) □ 2-NAPHTHALAMINE □ 2-NAPHTHALENAMINE □ β-NAPHTHYLAMIN (GERMAN) □ 2-NAPHTHYLAMIN (GERMAN) □ 2-NAPHTHYLAMINE □ 6-NAPHTHYLAMINE □ 2-NAPHTHYLAMINE MUSTARD □ RCRA WASTE NUMBER U168 □ USAF CB-22
TOXICITY DATA with REFERENCE:
mmo-sat 2500 ng/plate PMRSDJ 1,261,81
dnd-hmn:fbr 50 μmol/L MUREAV 127,107,84
mul-dog TDLo:3077 mg/kg/78W-C:EPA AJPAA4 13,656,37
orl-rat TD:13 g/kg/1Y-I:ETA,REP JNCIAM 41,985,68
orl-rat LD50:727 mg/kg 85JCAE -,466,86
ipr-mus LD50:200 mg/kg NTIS** AD277-689
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 7,261,87; Animal Sufficient Evidence IMEMDT 4,97,74; Human Sufficient Evidence IMEMDT 4,97,74. Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
OSHA PEL: Cancer Suspect Agent
ACGIH TLV: Confirmed Human Carcinogen
DFG MAK: Human Carcinogen
NIOSH REL: (β-Naphthylamine) TWA use 29 CFR 1910.1009
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Confirmed human carcinogen with experimental neoplastigenic and tumorigenic data. Long and continued exposure to even small amounts may produce tumors and cancers of the bladder. Poison by intraperitoneal route. Moderately toxic by ingestion. Experimental reproductive effects. Human mutation data reported. A very toxic chemical in any of its physical forms, such as flake, lump, dust, liquid, or vapor. It can be absorbed into the body through the lungs, the gastrointestinal tract, or the skin. Combustible when exposed to heat or flame. At elevated temperatures it evolves a vapor that is flammable and explosive. Incompatible with nitrous acid. When heated to decomposition it emits toxic fumes of NO_x. See also AROMATIC AMINES and 1-NAPHTHYLAMINE.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Naphthylamines, 5518.

NBE700 CAS: 134-32-7 HR: 3
1-NAPHTHYLAMINE
DOT: UN 2077
mf: $C_{10}H_9N$ mw: 143.20
PROP: White crystals, reddening on exposure to air; unpleasant odor. Needles from EtOH (aq) or Et_2O. Mp: 50°, bp: 300.8°, flash p: 315°F, d: 1.131, vap press: 1 mm @ 104.3°, vap d: 4.93. Sublimes, volatile with steam. Sol in 590 parts water; very sol in alc, ether. Keep well closed and away from light.
SYNS: ALFANAFTILAMINA (ITALIAN) □ ALFA-NAFTYLOAMINA (POLISH) □ 1-AMINONAFTALEN (CZECH) □ 1-AMINONAPHTHALENE □ C.I. AZOIC DIAZO COMPONENT 114 □ 1-NAFTILAMINA (SPANISH) □ α-NAFTYLAMIN (CZECH) □ 1-NAFTYLAMINE (DUTCH) □ NAPHTHALIDINE □ 1-NAPHTHYLAMIN (GERMAN) □ α-NAPHTHYLAMINE □ RCRA WASTE NUMBER U167
TOXICITY DATA with REFERENCE:
mma-sat 10 μg/plate ENMUDM 6,497,84
dns-ham:lvr 10 μmol/L ENMUDM 6,1,84
orl-rat LD50:779 mg/kg 28ZPAK -,67,72
ipr-mus LD50:96 mg/kg PMRSDJ 1,682,81
scu-rbt LDLo:300 mg/kg XPHBAO 271,174,41
orl-mam LDLo:4000 mg/kg JIDHAN 13,87,31
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,260,87; Animal Inadequate Evidence IMEMDT 4,87,74; Human Limited Evidence IMEMDT 4,87,74. EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: Cancer Suspect Agent
NIOSH REL: (α-Naphthylamine) TWA use 29 CFR 1910.1004
DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD
SAFETY PROFILE: Confirmed carcinogen with experimental tumorigenic data. Along with β-naphthylamine and benzidine, it has been incriminated as a cause of urinary bladder cancer. Poison by subcutaneous and intraperitoneal routes. Moderately toxic by ingestion. Mutation data reported. Combustible when exposed to heat or flame. Incompatible with nitrous acid. To fight fire, use dry chemical, CO_2, mist, spray. When heated to decomposition it emits toxic fumes of NO_x. See also 2-NAPHTHYLAMINE and AROMATIC AMINES.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Naphthylamines, 5518.

NBE850 CAS: 86-65-7 HR: 2
2-NAPHTHYLAMINE-6,8-DISULFONIC ACID
mf: $C_{10}H_9NO_6S_2$ mw: 303.32
PROP: Needles from H_2O. Sol in H_2O.
SYNS: AMIDO-G-ACID □ 7-AMINO-1,3-NAPHTHALENE-DISULFONIC ACID
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

NBF000 CAS: 552-46-5 HR: 2
1-NAPHTHYLAMINE HYDROCHLORIDE
mf: $C_{10}H_9N{\bullet}ClH$ mw: 179.66
PROP: Needles. Bp: subl. Sol in water, alc, and ether.
SYN: α-NAPHTHYLAMINE HYDROCHLORIDE
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also 1-NAPHTHYLAMINE.

NBF500 CAS: 93-45-8 HR: 2
p-(2-NAPHTHYLAMINO)PHENOL
mf: $C_{16}H_{13}NO$ mw: 235.30
SYNS: p-HYDROXYNEOZONE □ N-p-HYDROXYPHENYL-β-NAPHTHYLAMINE □ N-p-HYDROXYPHENYL-2-NAPHTHYL-AMINE □ p-HYDROXYPHENYL-β-NAPHTHYLAMINE □ p-HYDROXYPHENYL-2-NAPHTHYLAMINE □ 4-(2-NAFTYL-AMINO)FENOL □ 4-(2-NAPHTHYLAMINO)PHENOL □ p-OXINOZON
TOXICITY DATA with REFERENCE:
orl-rat LD50:5200 mg/kg HYSAAV 31,183,66
orl-mus LD50:2200 mg/kg HYSAAV 31,183,66
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also AROMATIC AMINES.

NBF600 CAS: 4800-34-4 HR: 3
N-2-NAPHTHYLANTHRANILIC ACID
mf: $C_{17}H_{13}NO_2$ mw: 263.31
SYNS: ANTHRANILIC ACID, N-2-NAPHTHYL- □ BENZOIC ACID, 2-(2-NAPHTHALENYLAMINO)-(9CI) □ 2-(2-NAPHTHYL-AMINO)BENZOIC ACID
TOXICITY DATA with REFERENCE:
ivn-mus LD50:99 mg/kg YKKZAJ 89,1392,1969
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

NBG000 CAS: 63978-93-8 HR: 2
4-(1-NAPHTHYLAZO)-2-NAPHTHYLAMINE
mf: $C_{20}H_{15}N_3$ mw: 297.38
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NBG500 CAS: 6416-57-5 HR: 2
4-(1-NAPHTHYLAZO)-m-PHENYLENEDIAMINE
mf: $C_{16}H_{14}N_4$ mw: 262.34
PROP: D: 1.40. mpP: 155°. Insol in water. Extender free colorants with high tinctorial strength.
SYNS: C.I. 11285 □ C.I. SOLVENT BROWN PR □ C.I. SOLVENT BROWN 1 □ FAT BROWN 2G □ FAT BROWN 2R □ FAT BROWN RR □ GRASAN BROWN DT NEW □ HEXATYPE BROWN N □ HNED ROZPOUSTEDLOVA 1 □ HNED SUDAN RR □ LITHO-FOR BROWN A □ 1-NAPHTHALENAZO-2',4'-DIAMINOBENZ-ENE □ 4-(1-NAPHTHALENYLAZO)-1,3-PHENYLENEDIAMINE □ ORGANOL BROWN 2R □ ORGANOL 2R □ RESINOL BROWN RRN □ RESINOL RRN □ SILOTRAS BROWN TRN □ SUDAN BROWN RR □ SUDAN BROWN YR □ TYPOGEN BROWN N
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 8,249,75. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also AROMATIC AMINES.

NBH200 CAS: 3759-61-3 HR: 3
1-NAPHTHYL CHLOROFORMATE
mf: $C_{11}H_7ClO_2$ mw: 206.63
SYNS: CARBANOCHLORIDIC ACID, NAPHTHYL ESTER □ CARBONOCHLORIDIC ACID, 1-NAPHTHALENYL ESTER □ CHLOROFORMIC ACID, ESTER with 1-NAPHTHOL □ CHLOROFORMIC ACID 1-NAPHTHYL ESTER □ CHLORO-MROWCZAN 1-NAFTYLU (CZECH) □ 1-NAPHTHYL CHLOROCARBONATE □ α-NAPHTHYL CHLOROFORMATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg SEV MEPAAX 29,293,78
eye-rbt 100 mg SEV MEPAAX 29,293,78
orl-rat LD50:2550 mg/kg MEPAAX 29,293,78
ipr-rat LD50:300 mg/kg MEPAAX 29,293,78
ivn-mus LD50:56 mg/kg CSLNX* NX#07351
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 6.1; Label: Poison, Corrosive
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. A severe eye and skin irritant. When heated to decomposition it emits toxic fumes of Cl^-. See also ESTERS.

NBH300 CAS: 81862-21-7 HR: 2
1-NAPHTHYL-N-(2,3,4,5-DI-o-ISOPROPYLI-DENE-1-α-o-FRUCTOPYRANOSYLSULFIN-YL)-N-METHYLCARBAMATE
mf: $C_{24}H_{29}NO_9S$ mw: 507.60
SYN: β-d-FRUCTOPYRANOSE, 2,3:4,5-BIS-o-(1-METHYLETHYL-IDENE)-, METHYL((1-NAPHTHALENYLOXY) CARBONYL)-AMIDOSULFITE
TOXICITY DATA with REFERENCE:
orl-mus LD50:>1 g/kg USXXAM #4315026
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NBH500 CAS: 1465-25-4 HR: 3
N-(1-NAPHTHYL)ETHYLENEDIAMINE DIHYDROCHLORIDE
mf: $C_{12}H_{14}N_2$•2ClH mw: 259.20
PROP: Long, hexagonal prisms. Mp: 188−190°. Very sol in 95% alc, dil HCl, hot water; sltly sol in cold water, acetone, abs alc.
SYNS: N-1-NAPHTHALENYL-1,2-ETHANEDIAMINE DIHYDROCHLORIDE □ NCI-C03281
TOXICITY DATA with REFERENCE:
mmo-sat 800 μg/plate ENMUDM 8(Suppl 7),1,86
ipr-mus LD50:150 mg/kg NTIS** AD691-490
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-168,79. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also AMINES.

NBI000 CAS: 76206-36-5 HR: D
1-NAPHTHYL-N-ETHYL-N-NITROSO-CARBAMATE
mf: $C_{13}H_{12}N_2O_3$ mw: 244.27
SYN: N-ETHYL-N-NITROSOCARBAMIC ACID 1-NAPHTHYL ESTER
TOXICITY DATA with REFERENCE:
mmo-sat 10 nmol/plate ENMUDM 2,395,80
mrc-smc 5 nmol/plate ENMUDM 2,395,80
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.

NBI100 CAS: 604-59-1 HR: D
α-NAPHTHYLFLAVONE
mf: $C_{19}H_{12}O_2$ mw: 272.31
SYNS: BENZO(h)FLAVONE □ 7,8-BENZOFLAVONE (7CI) □ α-NAPHTHOFLAVONE □ 4H-NAPHTHO(1,2-b)PYRAN-4-ONE, 2-PHENYL- □ 2-PHENYL-4H-NAPHTHO(1,2-b)PYRAN-4-ONE
TOXICITY DATA with REFERENCE:
cyt-ham:ovr 20 μmol/L CNREA8 47,3662,87
sce-ham:ovr 40 μmol/L CNREA8 47,3662,87
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NBI500 CAS: 613-47-8 HR: 2
2-NAPHTHYLHYDROXYLAMINE
mf: $C_{10}H_9NO$ mw: 159.20
PROP: Plates from $CHCl_3$. Mp: 135−137° (decomp).
SYNS: N-HYDROXY-2-AMINONAPHTHALENE □ N-HYDROXY-2-NAPHTHYLAMINE □ NHA
TOXICITY DATA with REFERENCE:
dnd-hmn:fbr 10 μmol/L GANNA2 75,349,84
dns-hmn:oth 10 μmol/L JJIND8 72,847,84
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

NBJ000 CAS: 2173-57-1 HR: 1
β-NAPHTHYL ISOBUTYL ETHER
mf: $C_{14}H_{16}O$ mw: 200.30
SYNS: FRAGAROL □ 2-ISOBUTOXYNAPHTHALENE □ ISOBUTYL β-NAPHTHYL ETHER □ ISOBUTYL 2-NAPHTHYL ETHER □ NAPHTHALENE, 2-ISOBUTOXY-(7CI,8CI) □ NAPHTHALENE, 2-(2-METHYLPROPOXY)- □ β-NAPHTHOL ISOBUTYL ETHER □ NEROLIN FRAGAROL
TOXICITY DATA with REFERENCE:
sln-oin-dmg 25 mmol FCTOD7 30,95S,92
orl-rat LD50:5930 mg/kg FCTXAV 2,327,64
skn-rbt LD50:>5 g/kg FCTOD7 30,95S,92
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ETHERS.

NBJ200 CAS: 66931-57-5 HR: D
1-NAPHTHYLMETHYL GLYCIDYL ETHER
mf: $C_{14}H_{14}O_2$ mw: 214.28
SYNS: 1-(1-NAPHTHYLMETHOXY)-2,3-EPOXYPROPANE □ OXIRANE, ((1-NAPHTHALENYLMETHOXY)METHYL)-(9CI) □ PROPANE, 1-(1-NAPHTHYLMETHOXY)-2,3-EPOXY-
TOXICITY DATA with REFERENCE:
mic-sat 100 nmol/plate MUREAV 206,115,1988
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NBJ500 CAS: 7090-25-7 HR: 3
1-NAPHTHYL METHYLNITROSOCARBAMATE
mf: $C_{12}H_{10}N_2O_3$ mw: 230.24
SYNS: DENAPON, NITROSATED (JAPANESE) □ METHYL-NITROSOCARBAMIC ACID-1-NAPHTHYL ESTER □ 1-NAPHTHYL-N-METHYL-N-NITROSOCARBAMATE □ N-NITROSOCARBARYL □ NITROSO-NAC
TOXICITY DATA with REFERENCE:
mmo-asn 1 μg/plate MUREAV 97,293,82
dnr-hmn:fbr 10 μmol/L MUREAV 44,1,77
CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 12,37,76. EPA Genetic Toxicology Program.
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.

NBJ700 CAS: 120-23-0 HR: 2
(2-NAPHTHYLOXY)ACETIC ACID
SYNS: ACETIC ACID, (2-NAPHTHYLOXY)- □ ACIDE NAPHTHYLOXYACETIQUE □ BETAPAL □ BETOXON □ GERLACH 1396 □ 2-NAPHTHALENOXYACETIC ACID □ (β-NAPHTHALENYLOXY)ACETIC ACID □ β-NAPHTHOXY-ACETIC ACID □ 2-NAPHTHOXYACETIC ACID □ O-(2-NAPHTHYL)GLYCOLIC ACID □ NOXA □ 2-NOXA
TOXICITY DATA with REFERENCE:
orl-rat LD50:600 mg/kg PEMNDP 9,609,91
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

NBK000 CAS: 69782-11-2 HR: 3
(2-(α-NAPHTHYLOXY)ETHYL)HYDRAZINE MALEATE
mf: $C_{12}H_{14}N_2O{\bullet}C_4H_4O_4$ mw: 318.36
TOXICITY DATA with REFERENCE:
orl-mus LD50:625 mg/kg JMCMAR 6,63,63
ipr-mus LD50:375 mg/kg JMCMAR 6,63,63

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

NBL000 CAS: 93-46-9 HR: 2
2-NAPHTHYL-p-PHENYLENEDIAMINE
mf: $C_{26}H_{20}N_2$ mw: 360.48
SYNS: ACETO DIPP ◻ AGERITE WHITE ◻ DI-β-NAPHTHYL-p-PHENYLDIAMINE ◻ DI-β-NAPHTHYL-p-PHENYLENEDIAMINE ◻ N,N'-DI-β-NAPHTHYL-p-PHENYLENEDIAMINE ◻ sym-DI-β-NAPHTHYL-p-PHENYLENEDIAMINE ◻ DNPD ◻ DWU-β-NAFTYLO-p-FENYLODWUAMINA (POLISH) ◻ NONOX CL ◻ TISPERSE MB-2X
TOXICITY DATA with REFERENCE:
skn-hmn 500 mg/48H MLD AMIHBC 5,311,52
skn-rbt 500 mg/24H MLD 28ZPAK -,74,72
eye-rbt 500 mg/24H MLD 28ZPAK -,74,72
pic-esc 100 mmol/L MDMIAZ 31,11,79
ipr-mam LD50:4500 mg/kg AMIHBC 5,311,52
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A human skin irritant. An experimental skin and eye irritant. Mutation data reported. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

NBL200 CAS: 132-66-1 HR: 2
N-1-NAPHTHYLPHTHALAMIC ACID
mf: $C_{18}H_{13}NO_3$ mw: 291.32
PROP: Purple solid. Mp:185°.
SYNS: ALANAP ◻ ALANAP 1 ◻ ALANAPE ◻ ALANAP 10G AT ◻ ANCRACK ◻ DYANAP ◻ GRELUTIN ◻ KYSELINA N-1-NAFTYLFTALAMOVA ◻ MOR-CRAN ◻ NAFTALAM ◻ 2-((1-NAPHTHALENYLAMINO)CARBONYL)BENZOIC ACID ◻ N-1-NAPHTHYLPHTHALAMATE ◻ α-NAPHTHYLPHTHALAMIC ACID ◻ N-1-NAPHTHYL-PHTHALAMIDSAEURE ◻ NAPTALAM ◻ NAPTALAME ◻ NAPTRO ◻ NIP-A-THIN ◻ NPA ◻ PEACH-THIN ◻ PHTHALAMIC ACID, N-1-NAPHTHYL- ◻ 6Q8 ◻ SOLO
TOXICITY DATA with REFERENCE:
orl-rat LD50:8200 mg/kg FMCHA2 -,C215,91
ihl-rat LC50:>2070 mg/m^3 PEMNDP 9,613,91
skn-rbt LD50:>2 g/kg PEMNDP 9,613,91
CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.
SAFETY PROFILE: Moderately toxic by skin contact. Low toxicity by ingestion and inhalation. When heated to decomposition it emits toxic vapors of NO_x.

NBM500 CAS: 76206-37-6 HR: D
1-NAPHTHYL-N-PROPYL-N-NITROSO-CARBAMATE
mf: $C_{14}H_{14}N_2O_3$ mw: 258.30
SYN: N-NITROSO-N-PROPYLCARBAMIC ACID-1-NAPHTHYL ESTER
TOXICITY DATA with REFERENCE:
mmo-sat 10 nmol/plate ENMUDM 2,395,80
mrc-smc 5 nmol/plate ENMUDM 2,395,80
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.

NBN000 CAS: 17518-47-7 HR: 3
1-NAPHTHYL THIOACETAMIDE
mf: $C_{12}H_{11}NOS$ mw: 217.30
TOXICITY DATA with REFERENCE:
orl-rat LD50:60 mg/kg JPETAB 90,260,47
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

NBO500 CAS: 32524-44-0 HR: 2
5-β-NAPHTHYL-2:4:6-TRIAMINOAZO-PYRIMIDINE
mf: $C_{14}H_{13}N_7$ mw: 279.34
SYN: 5-(β-NAPHTHYLAZO)-2,4,6-TRIAMINOPYRIMIDINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NBO515 HR: 3
N-1-NAPHTHYL-N,N′,N′-TRIETHYLETHYLENE-DIAMINE
mf: $C_{18}H_{26}N_2$ mw: 270.46
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:45 mg/kg BJPCAL 11,1,56
ipr-mus LD50:65 mg/kg BJPCAL 11,1,56
scu-mus LD50:306 mg/kg BJPCAL 11,1,56
SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

NBO525 CAS: 25796-01-4 HR: 3
4-(1-NAPHTHYLVINYL)-PYRIDINE HYDRO-CHLORIDE
mf: $C_{17}H_{13}N{\bullet}ClH$ mw: 267.77
SYNS: 4-(2-(1-NAPHTHALENYL)ETHENYL)-PYRIDINE HYDROCHLORIDE (9CI) ◻ 4-(2-(1-NAPHTHYL)VINYL)-PYRIDINE HYDROCHLORIDE ◻ NVP ◻ YuB-25
TOXICITY DATA with REFERENCE:
ipr-mus LD50:300 mg/kg EJPHAZ 11,187,70
scu-mus LD50:150 mg/kg EJPHAZ 11,187,70
ivn-mus LD50:75 mg/kg EJPHAZ 11,187,70
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NBO550 CAS: 26159-34-2 HR: D
NAPROXEN SODIUM
mf: $C_{14}H_{14}O_3{\bullet}Na$ mw: 253.27
PROP: White to slightly yellow crystalline powder. Mp: 250−251°. Sol in water.
SYNS: l-(−)-6-METHOXY-α-METHYL-2-NAPHTHALENE-ACETIC ACID SODIUM SALT ◻ 2-NAPHTHALENEACETIC ACID, 6-METHOXY-α-METHYL-, SODIUM SALT, l-(−)- ◻ 2-NAPHTHALENEACETIC ACID, 6-METHOXY-α-METHYL-, SODIUM SALT, (R)- (9CI)
TOXICITY DATA with REFERENCE:

orl-cld TDLo:600 mg/kg/30D-I:KID AJDCAI 142,524,88
SAFETY PROFILE: Experimental reproductive effects. Human systemic effects: acute tubular necrosis, changes in tubules, interstitial nephritis. When heated to decomposition it emits acrid smoke and irritating fumes.

NBO600 CAS: 55134-13-9 HR: D
NARASIN
mf: $C_{43}H_{72}O_{11}$ mw: 765.05
PROP: Crystals from Me_2CO (aq). Mp: 98−100°. Sol in alcs, acetone, chloroform, ethyl acetate. Insol in water.
SYNS: 4-METHYLSALINOMYCIN □ MONTEBAN
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

NBP000 CAS: 8023-75-4 HR: 1
NARCISSUS ABSOLUTE
PROP: The components include linalool, benzyl acetate, benzyl alcohol, terpineol, cineol, phenylpropyl alcohol and its acetate, phenylethyl alcohol and its acetate, n-heptanol, n-nonanol, indole and traces of undecalactone (FCTXAV 16,637,78).
TOXICITY DATA with REFERENCE:
skn-gpg 100% MLD FCTXAV 16,827,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin irritant. See also individual components.

NBP275 CAS: 6035-40-1 HR: 3
NARCOTINE
mf: $C_{22}H_{23}NO_7$ mw: 413.46
PROP: Crystals from EtOH. Long needles from methanol. Mp: 232° (decomp). Freely sol in carbon disulfide, hot chloroform. Sol in about 1500 parts alc; sparingly sol in benzene, water.
SYNS: COSCOPIN □ GNOSCOPINE □ NOSCAPINE □ NSC-5366 □ OPIAN
TOXICITY DATA with REFERENCE:
ipr-rat LD50:750 mg/kg APTOA6 6,235,50
orl-mus LD50:2784 mg/kg APFRAD 15,640,57
scu-mus LD50:491 mg/kg APFRAD 15,640,57
ivn-mus LD50:83 mg/kg 85GDA2 8(1),206,82
ivn-dog LDLo:73 mg/kg CPBTAL 7,372,59
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x.

NBP300 HR: 2
NARCOTINE N-OXIDE HYDROCHLORIDE
mf: $C_{22}H_{23}NO_8$•ClH mw: 465.92
SYN: (s-(4*,S*))-6,7-DIMETHOXY-3-(5,6,7,8-TETRAHYDRO-4-METHOXY-6-METHYL-1,3-DIOXOLO(4,5-g)ISOQUINOLIN-5-YL)-1(3H)-ISOBENZOFURANONE, N-OXIDE, HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:1740 mg/kg YKKZAJ 81,266,61
scu-mus LD50:1450 mg/kg YKKZAJ 81,266,61
ivn-mus LD50:647 mg/kg YKKZAJ 81,266,61
SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NBP350 CAS: 480-41-1 HR: D
(−)-NARINGENIN
mf: $C_{15}H_{12}O_5$ mw: 272.27
SYNS: 4H-1-BENZOPYRAN-4-ONE, 2,3-DIHYDRO-5,7-DIHYDROXY-2-(4-HYDROXYPHENYL)-, (S)- □ NARINGENIN □ (S)-NARINGENIN □ NARINGENINE □ NARINGETOL □ (S)-2,3-DIHYDRO-5,7-DIHYDROXY-2-(4-HYDROXYPHENYL)-4H-1-BENZOPYRAN-4-ONE □ FLAVANONE, 4',5,7-TRIHYDROXY- □ SALIPUROL □ SALIPURPOL
TOXICITY DATA with REFERENCE:
dnd-rat-lvr 20 µmol/L FCTOD7 35,443,1997
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NBP400 CAS: 160903-32-2 HR: 3
NATURAL SWEEPER
TOXICITY DATA with REFERENCE:
orl-rat LD50:20 mL/kg JZKEDZ 19,195,94
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

NBP500 CAS: 5591-45-7 HR: 3
NAVARON
mf: $C_{23}H_{29}N_3O_2S_2$ mw: 443.67
PROP: A solid. Mp: 114−118°.
SYNS: CP-12,252-1 □ N,N-DIMETHYL-9-(3-(4-METHYL-1-PIPERANIZYL)PROPYLIDENE)-9H-THIOXANTHENE-2-SULFONAMIDE, (Z)- □ N,N-DIMETHYL-9-(3-(4-METHYL-1-PIPERAZINYL)PROPYLIDENE)THIAXANTHENE-2-SULFONAMIDE □ N,N-DIMETHYL-9-(3-(4-METHYL-1-PIPERAZINYL)PROPYLIDENE)THIOXANTHENE-2-SULFONAMIDE □ 2-(DIMETHYLSULFAMOYL)-(9-(4-METHYL-1-PIPERAZINYL)PROPYLIDENE)THIOXANTHENE □ NAVANE □ ORBINAMON □ P-4657-B □ THIOTHIXENE □ THIOTHIXINE □ TIOTIXENE
TOXICITY DATA with REFERENCE:
orl-man TDLo:3 mg/kg (male 1W pre):REP JCLPDE 48,216,87
orl-mus TDLo:180 mg/kg (female 7-12D post):TER OYYAA2 3,315,69
orl-wmn TDLo:300 µg/kg/2D-I:BAH JCLPDE 44,77,83
orl-rat LD50:720 mg/kg NIIRDN 6,455,82
scu-rat LD50:2 g/kg KSRNAM 3,709,69
orl-mus LD50:400 mg/kg NIIRDN 6,455,82
scu-mus LD50:4 g/kg KSRNAM 3,709,69
SAFETY PROFILE: Poison by ingestion. Moderately toxic by subcutaneous route. An experimental teratogen. Experimental reproductive effects. Human systemic effects hallucinations, distorted perceptions. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

NBR000 CAS: 500-38-9 HR: 2
NDGA
mf: $C_{18}H_{22}O_4$ mw: 302.40

PROP: Crystals from acetic acid. Mp: 184–185°. Sol in methanol, ethanol, and ether; sltly sol in hot water and chloroform; nearly insol in benzene and petroleum ether.
SYNS: 1,4-BIS(3,4-DIHYDROXYPHENYL)-2,3-DIMETHYLBUTANE □ DIHYDRONORGUAIARETIC ACID □ β,γ-DIMETHYL-α,Δ-BIS(3,4-DIHYDROXYPHENYL)BUTANE □ 4,4'-(2,3-DIMETHYLTETRAMETHYLENE)DIPYROCATECHOL □ NORDIHYDROGUAIARETIC ACID □ NORDIHYDROGUAIRARETIC ACID

TOXICITY DATA with REFERENCE:
orl-rat LD50:2 g/kg JAOCA7 54,239,77
orl-mus LD50:2 g/kg JAOCA7 54,239,77
ipr-mus LD50:550 mg/kg AFREAW 3,197,51
orl-gpg LD50:830 mg/kg AFREAW 3,197,51

SAFETY PROFILE: Moderately toxic by intraperitoneal route. An antioxidant food additive. When heated to decomposition it emits acrid smoke and irritating fumes.

NBR100 CAS: 89911-78-4 HR: 2
NDPEA
mf: $C_5H_{12}N_2O_4$ mw: 164.19
SYNS: 3-((2-HYDROXYETHYL)NITROSAMINO)-1,2-PROPANEDIOL □ N-NITRISO-N-(2,3-DIHYDROXYPROPYL)-N-(2-HYDROXYETHYL)AMINE □ N-NITROSODIHYDROXYPROPYLETHANOLAMINE □ N-NITROSO-2,3-DIHYDROXYPROPYL-2-HYDROXYETHYLAMINE

TOXICITY DATA with REFERENCE:
mmo-sat 1 mg/plate MUREAV 111,135,83
orl-rat TDLo:2750 mg/kg/2Y-C:ETA CRNGDP 5,167,84

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NBR500 CAS: 11048-13-8 HR: 3
NEBRAMYCIN
PROP: Produced by *Streptomyces tenebrarius* ATCC 17920 (85ERAY 1,725,78).
SYNS: TENEBRIMYCIN □ TENEMYCIN

TOXICITY DATA with REFERENCE:
ipr-mus LD50:1250 mg/kg 85ERAY 1,725,78
scu-mus LD50:1500 mg/kg 85ERAY 1,725,78
ivn-mus LD50:300 mg/kg 85ERAY 1,725,78

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

NBR800 HR: 3
NECKLACEPOD SOPHORA
PROP: Shrubs or small trees with compound leaves. *S. secundiflora* produces clusters of purple flowers and seed pods containing bright red seeds. It grows wild in Texas, New Mexico, Mexico and on the coastal dunes of Baja California, Hawaii, and Guam. *S. tomentosa* produces clusters of bright yellow flowers and seed pods containing yellow seeds. It grows wild in Florida, Bermuda, and the West Indies.
SYNS: BURN BEAN □ COLORINES (MEXICO) □ CORAL BEAN □ FRIJOLILLO (MEXICO) □ MESCAL BEAN □ PAGODA TREE □ RED BEAN □ RED HOTS □ SILVER BUSH □ SOPHORA SECUNDIFLORA □ SOPHORA TOMENTOSA □ TAMBALISA (CUBA) □ TEXAS MOUNTAIN LAUREL

SAFETY PROFILE: The seeds contain poisonous cytisine and related alkaloids whose action is similar to nicotine. Ingestion of the seeds may cause nausea, vomiting, headache, dizziness, diarrhea, convulsions and respiratory paralysis. See also CYTISINE and NICOTINE.

NBR900 CAS: 116580-64-4 HR: 2
NEEM EXTRACT
SYNS: MARGOSAN-O □ MARGOSAN O

TOXICITY DATA with REFERENCE:
orl-rat LD50:>10 g/kg FMCHA2-,C190,1991
skn-rbt LC50:>2 mg/kg HBPTO* 1,133,2001
ihl-rbt LC50:>43.9 g/m^3 HBPTO* 1,133,2001

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

NBS300 CAS: 8002-65-1 HR: 3
NEEM OIL
PROP: Brown liquid with garlic smell. Bp: 154°, mp: 13°, d: 0.914 g/ml. Flash pt: 39° C. Sol in water: dispersible.
SYNS: MARGOSA OIL □ NIM OIL □ OILS, NIM

TOXICITY DATA with REFERENCE:
orl-rat LD50:14 g/kg JOETD7 23,39,88
orl-rbt LD50:24 g/kg JOETD7 23,39,88

SAFETY PROFILE: Slightly toxic by ingestion. An experimental teratogen. Experimental reproductive effects. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

NBS500 CAS: 23327-57-3 HR: 3
NEFOPAM HYDROCHLORIDE
mf: $C_{17}H_{19}NO{\bullet}ClH$ mw: 289.83
PROP: A solid. Mp: 238–242°.
SYNS: ACUPAN □ AJAN □ FENAZOXINE HYDROCHLORIDE □ 5-METHYL-1-PHENYL-3,4,5,6-TETRAHYDRO-1H-2,5-BENZOXAZOCINE HYDROCHLORIDE □ SINALGICO

TOXICITY DATA with REFERENCE:
orl-rat LD50:80 mg/kg TXAPA9 33,46,75
ivn-rat LD50:28 mg/kg 27ZQAG -,269,72
orl-mus LD50:119 mg/kg 27ZQAG -,269,72
ipr-mus LD50:70 mg/kg 27ZQAG -,269,72
ivn-mus LD50:45 mg/kg 27ZQAG -,269,72
ivn-dog LDLo:20 mg/kg TXAPA9 33,46,75
ims-dog LDLo:30 mg/kg TXAPA9 33,46,75

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

NBS700 CAS: 25417-20-3 HR: 2
NEKAL
mf: $C_{18}H_{24}O_3S{\bullet}Na$ mw: 343.47
SYNS: DIBUTYL-NAPHTHALENE SULFATE, SODIUM SALT □ NAFTALIN-BUTIL-SOLFONATO (ITALIAN) □ SODIUM DIBUTYLNAPHTHALENE SULFATE □ SODIUM DIBUTYLNAPHTHALENESULFONATE □ SODIUM DIBUTYLNAPHTHYLSULFONATE

TOXICITY DATA with REFERENCE:
orl-rat LD50:1250 mg/kg GISAAA 45(4),39,80
orl-mus LD50:1134 mg/kg GISAAA 45(4),39,80
orl-gpg LD50:1500 mg/kg GISAAA 45(4),39,80
scu-gpg LDLo:800 mg/kg MELAAD 37,140,46
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. When heated to decomposition it emits toxic fumes of SO_x and Na_2O. See also SULFONATES.

NBT000 CAS: 1317-43-7 HR: 2
NEMALITE
mf: H_2MgO_2 mw: 58.33
PROP: Dust used was fibrous (NATWAY 59,318,72).
SYNS: BRUCITE ◻ NEMALITH (GERMAN)
TOXICITY DATA with REFERENCE:
ipr-rat TDLo:450 mg/kg/3W-I:CAR ZHPMAT 162,467,76
ipl-rat TDLo:200 mg/kg:NEO BJCAAI 28,173,73
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data.

NBT500 CAS: 76-74-4 HR: 3
NEMBUTAL
mf: $C_{11}H_{18}N_2O_3$ mw: 226.31
PROP: Barbituate.
SYNS: DORSITAL ◻ ETHAMINAL ◻ 5-ETHYL-5-(1-METHYLBUTYL)BARBITURIC ACID ◻ 5-ETHYL-5-(1-METHYLBUTYL)-MALONYLUREA ◻ 5-ETHYL-5-(1-METHYLBUTYL)-2,4,6(1H,3H,-5H)-PYRIMIDINETRIONE (9CI) ◻ MEBUBARBITAL ◻ NEODORM (NEW) ◻ PENTABARBITONE ◻ PENTOBARBITAL ◻ PENTOBARBITURATE ◻ PENTOBARBITURIC ACID ◻ RIVADORM
TOXICITY DATA with REFERENCE:
orl-hmn LDLo:36 mg/kg CTOXAO 10,327,77
orl-rat LD50:125 mg/kg FEPRA7 7,262,48
ipr-rat LD50:108 mg/kg PHMGBN 19,182,79
scu-rat LD50:144 mg/kg JPETAB 118,139,56
orl-mus LD50:170 mg/kg JPETAB 118,139,56
ipr-mus LD50:123 mg/kg RCOCB8 50,209,85
ivn-mus LD50:65 mg/kg AIPTAK 141,83,63
ims-mus LD50:124 mg/kg NIIRDN 6,779,82
ivn-dog LD50:50 mg/kg AIPTAK 141,83,63
orl-rbt LDLo:175 mg/kg JPETAB 44,325,32
ipr-rbt LDLo:65 mg/kg JPETAB 44,325,32
ivn-rbt LD50:33 mg/kg JPETAB 96,209,49
SAFETY PROFILE: Human poison by ingestion. Experimental poison by ingestion, intraperitoneal, intravenous, intramuscular, and subcutaneous routes. Experimental reproductive effects. A sedative, hypnotic, and anticonvulsant. When heated to decomposition it emits toxic fumes of NO_x. See also BARBITURATES.

NBU000 CAS: 57-33-0 HR: 3
NEMBUTAL SODIUM
mf: $C_{11}H_{18}N_2O_3$•Na mw: 249.30
PROP: White, crystalline powder. Sol in water and alc; insol in ether.
SYNS: AUROPAN ◻ BARPENTAL ◻ BIOSEDAN ◻ BUTYL-ONE ◻ CARBRITAL ◻ CONTINAL ◻ DIABUTAL ◻ EMBUTAL ◻ ETAMINAL SODIUM ◻ ETHAMINAL SODIUM ◻ 5-ETHYL-5-(1-METHYLBUTYL)BARBITURIC ACID SODIUM SALT ◻ 5-ETHYL-5-(1-METHYLBUTYL)-2,4,6(1H,3H,5H)-PYRIMIDINETRI-ONE MONOSODIUM SALT (9CI) ◻ EUTHATAL ◻ IPRAL SODIUM ◻ ISOBARB ◻ MEBUBARBITAL SODIUM ◻ MEBUMAL NATRIUM ◻ MEBUMAL SODIUM ◻ MINTAL ◻ NAPENTAL ◻ PACIFAN ◻ PALAPENT ◻ PENBAR ◻ PENTABARBITAL SODIUM ◻ PENTAL ◻ PENTOBARBITONE SODIUM ◻ PENTONAL ◻ PENTYL ◻ PROPYLMETHYL-CARBINYLETHYL BARBITURIC ACID SODIUM SALT ◻ RIVADORN ◻ SAGATAL ◻ SODITAL ◻ SODIUM ETHAMINAL ◻ SODIUM-5-ETHYL-5-(1-METHYLBUTYL)BARBITURATE ◻ SODIUM NEMBUTAL ◻ SODIUM-PENT ◻ SODIUM PENTABARBITAL ◻ SODIUM PENTABARBITONE ◻ SODIUM PENTOBARBITAL ◻ SODIUM PENTOBARBITONE ◻ SODIUM PENTOBARBITURATE ◻ SOLUBLE PENTOBARBITAL ◻ SOMNOPENTYL ◻ SONISTAN ◻ SONTOBARBITAL NABITONE ◻ SOPENTAL ◻ SOTYL ◻ VETBUTAL
TOXICITY DATA with REFERENCE:
cyt-ham-scu 100 mg/kg AEHLAU 36,316,81
dlt-ham-scu 100 mg/kg AEHLAU 36.316.81
orl-wmn TDLo:60 mg/kg:CNS JLCMAK 29,265,44
orl-man TDLo:6430 µg/kg:CNS JPETAB 197,488,76
orl-rat LD50:118 mg/kg TXAPA9 21,315,72
ipr-rat LD50:36 mg/kg FCTXAV 3,597,65
scu-rat LD50:47 mg/kg AIPTAK 180,155,69
ivn-rat LD50:65 mg/kg JPETAB 135,213,62
idu-rat LD50:39 mg/kg AIPTAK 180,155,69
orl-mus LD50:239 mg/kg ARZNAD 31,2180,81
ipr-mus LD50:126 mg/kg JMCMAR 12,989,69
scu-mus LD50:122 mg/kg TXAPA9 18,185,71
ims-mus LD50:124 mg/kg JPETAB 102,138,51
ice-mus LD50:6500 µg/kg JPETAB 197,479,76
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, intravenous, intraduodenal, intramuscular, intracerebral, parenteral, and rectal routes. An experimental teratogen. Other experimental reproductive effects. Human systemic effects by ingestion: wakefulness, change in motor activity, ataxia, and antipsychotic effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and Na_2O. See also BARBITURATES.

NBU800 CAS: 471-77-2 HR: D
NEOABIETIC ACID
mf: $C_{20}H_{30}O_2$ mw: 302.50
PROP: Crystals from EtOH (aq). Mp: 173−173.5° (sealed tube under N_2).
SYN: 13-ISOPROPYLIDENEPODOCARP-8(14)-EN-15-OIC ACID
TOXICITY DATA with REFERENCE:
mmo-sat 500 µg/plate ENMUDM 1,361,79
mmo-smc 750 mg/L MUREAV 119,273,83
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and fumes.

NBV000 CAS: 63681-05-0 HR: 3
NEOANTERGAN PHOSPHATE
mf: $C_{17}H_{23}N_3O$•H_3O_4P mw: 383.43
SYN: N-α-PYRIDYL-N-p-METHOXYBENZYL-N',N'-DIMETHYL-ETHYLENEDIAMINE PHOSPHATE

TOXICITY DATA with REFERENCE:
ipr-mus LD50:90 mg/kg JPETAB 89,247,47
scu-mus LD50:150 mg/kg PHREA7 27,542,47
ivn-mus LD50:30 mg/kg PHREA7 27,542,47
scu-gpg LD50:70 mg/kg PHREA7 27,542,47
SAFETY PROFILE: Poison by intravenous, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of PO_x and NO_x.

NBV100 CAS: 16986-24-6 HR: 2
NEOCARBORANE
mf: $C_2H_{12}B_{10}$ mw: 144.24
SYNS: m-BARENE □ m-CARBORANE □ m-DECARBOROCARBORANE □ 1,7-DICARBADODECABORANE (12) □ m-DICARBADODECABORANE (12) □ NEOBARENE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1410 mg/kg GTPZAB 22(1),42,78
scu-mus LD50:980 mg/kg GTPZAB 22(1),42,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of boron.

NBV200 CAS: 13312-52-2 HR: D
NEO-β-CAROTENE
mf: $C_{40}H_{56}$ mw: 536.96
SYN: SYNTHETIC β-CAROTENE CRYSTAL
TOXICITY DATA with REFERENCE:
mnt-hmn-lym 1 mg/L MUREAV 418,73,1998
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating vapors.

NBV500 CAS: 9014-02-2 HR: 3
NEOCARZINOSTATIN
PROP: An acidic, single-chain polypeptide with a molecular weight of approximately 10,700 isolated from the culture filtrate of *Streptomyces carzinostaticus* Var F41 (MUREAV 56,91,77).
SYNS: NCS □ NEOCARCINOSTATIN □ NEOCARZINOSTATIN K □ NSC-69856 □ ZINOSTATIN
TOXICITY DATA with REFERENCE:
mmo-esc 5 µg/plate TAKHAA 44,96,85
dni-hmn:fbr 200 µg/L CRNGDP 4,917,83
dns-ham:ovr 300 µg/L CNREA8 44,1748,84
orl-rat LDLo:300 mg/kg OYYAA2 11,309,76
ipr-rat LD50:940 µg/kg OYYAA2 11,309,76
scu-rat LD50:4980 µg/kg OYYAA2 11,309,76
ivn-rat LD50:830 µg/kg JANTAJ 28,64,75
orl-mus LD50:1050 mg/kg JANTAJ 28,64,75
ipr-mus LD50:1720 µg/kg JANTAJ 31,468,78
scu-mus LD50:7200 µg/kg OYYAA2 11,309,76
ivn-mus LD50:960 µg/kg JANTAJ 28,64,75
ivn-rbt LD50:900 µg/kg JANTAJ 28,64,75
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: A deadly poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

NBW000 CAS: 64093-79-4 HR: 2
NEOCHROMIUM
mf: $CrHO_5S$ mw: 165.07
SYNS: BASIC CHROMIC SULFATE □ BASIC CHROMIC SULPHATE □ BASIC CHROMIUM SULFATE □ BASIC CHROMIUM SULPHATE □ CHROMIUM HYDROXIDE SULFATE □ CHROMIUM SULFATE □ CHROMIUM SULFATE, BASIC □ CHROMIUM SULPHATE □ KOREON □ MONOBASIC CHROMIUM SULFATE □ MONOBASIC CHROMIUM SULPHATE □ SULFURIC ACID, CHROMIUM SALT, BASIC
TOXICITY DATA with REFERENCE:
sce-ham:ovr 10 mg/L CRNGDP 6,1327,85
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 49,49,90; Animal Inadequate Evidence IMEMDT 49,49,90; Human Inadequate Evidence IMEMDT 49,49,90. Chromium and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.5 mg(Cr)/m^3
ACGIH TLV: TWA 0.5 mg(Cr)/m^3; Not Classifiable as a Carcinogen
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x. See also CHROMIUM COMPOUNDS.

NBW100 CAS: 108944-67-8 HR: 3
NEOCURDIONE
mf: $C_{15}H_{24}O_2$ mw: 236.35
SYN: 6-CYCLODECENE-1,4-DIONE, 6,10-DIMETHYL-3-(1-METHYLETHYL)-, (3R,6E,10S)-
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.

NBW500 CAS: 26896-20-8 HR: 2
NEODECANOIC ACID
mf: $C_{10}H_{20}O_2$ mw: 172.30
PROP: A mixture of isomeric 10-carbon, saturated monocarboxylic acids (FMCHA2 -,D334,80).
SYN: WILTZ-65
TOXICITY DATA with REFERENCE:
orl-mam LD50:3400 mg/kg FMCHA2 -,C256,83
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

NBW600 CAS: 55576-67-5 HR: 3
NEODIGOXIN
mf: $C_{41}H_{64}O_{14}$ mw: 781.05
SYN: NEO-DIGOXIN
TOXICITY DATA with REFERENCE:
ivn-cat LDLo:290 µg/kg JMPCAS 5,988,1962

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

NBX000 CAS: 7440-00-8 HR: 3
NEODYMIUM
af: Nd aw: 144.24
PROP: It is a bright, silvery, lustrous, very reactive rare-earth metal that tarnishes quickly in air. Bp: 3074°, d: 7.003, mp: approx 1024°. Dissolves in dil acid. Reacts slowly with cold water, faster with hot water.
TOXICITY DATA with REFERENCE:
ice-hmn TDLo:17 µg/kg:BLD JCINAO 21,447,42
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Human systemic effects by intracerebral route: blood changes. It may be an anticoagulant lanthanoid. Care in handling is advised. Flammable in the form of dust when exposed to heat or flame. Slight explosion hazard in the form of dust when exposed to flame. Can react violently with air, halogens, N_2. Violent reaction with phosphorus above 400°C. Many of its compounds are poisons. See also RARE EARTHS and various neodymium compounds.

NBX500 CAS: 6192-13-8 HR: 3
NEODYMIUM ACETATE
mf: $C_6H_9O_6$•Nd mw: 321.39
PROP: A red solid.
SYNS: NEODYMACETAT (GERMAN) □ NEODYMIUM TRIACETATE
TOXICITY DATA with REFERENCE:
ivn-cat LDLo:50 mg/kg ZGEMAZ 113,536,44
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes. See also NEODYMIUM and RARE EARTHS.

NBY000 CAS: 10024-93-8 HR: 3
NEODYMIUM CHLORIDE
mf: Cl_3Nd mw: 250.59
PROP: A gas. Mp: 7°, bp: 16°. Sol in water, alc.
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD TXAPA9 6,614,64
eye-rbt 50 mg TXAPA9 6,614,64
ipr-rat LD50:150 mg/kg AIPTAK 37,305,30
scu-rat LDLo:150 mg/kg AIPTAK 37,305,30
ivn-rat LD50:3500 µg/kg AMIHAB 16,475,57
orl-mus LD50:3692 mg/kg EQSSDX 1,1,75
ipr-mus LD50:347 mg/kg AEHLAU 5,437,62
scu-mus LD50:278 mg/kg EQSSDX 1,1,75
ivn-rbt LD50:139 mg/kg EQSSDX 1,1,75
ipr-gpg LD50:140 mg/kg AMIHAB 15,9,57
scu-gpg LD50:243 mg/kg EQSSDX 1,1,75
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous, intraperitoneal, and subcutaneous routes. Moderately toxic by ingestion. A skin and eye irritant. When heated to decomposition it emits very toxic fumes of Cl^-. See also NEODYMIUM, CHLORIDES, and RARE EARTHS.

NCB000 CAS: 10045-95-1 HR: 3
NEODYMIUM(III) NITRATE (1:3)
mf: N_3O_9•Nd mw: 330.27
PROP: Triclinic hygroscopic violet crystals. Sol in H_2O and EtOH.
SYN: NITRIC ACID, NEODYMIUM SALT
TOXICITY DATA with REFERENCE:
orl-rat LD50:2072 mg/kg EQSSDX 1,1,75
ipr-rat LD50:204 mg/kg EQSSDX 1,1,75
ivn-rat LD50:4800 µg/kg EQSSDX 1,1,75
ipr-mus LD50:183 mg/kg EQSSDX 1,1,75
ivn-rbt LDLo:50 mg/kg JCINAO 21,447,42
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x. See also NITRATES and NEODYMIUM.

NCB500 CAS: 16454-60-7 HR: 3
NEODYMIUM(III) NITRATE, HEXAHYDRATE (1:3:6)
mf: N_3O_9•Nd•$6H_2O$ mw: 438.39
SYN: NITRIC ACID, NEODYMIUM (3+) SALT, HEXAHYDRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:2750 mg/kg TXAPA9 5,750,63
ipr-rat LD50:270 mg/kg TXAPA9 5,750,63
ivn-rat LD50:6 mg/kg TXAPA9 5,750,63
ipr-mus LD50:270 mg/kg TXAPA9 5,750,63
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also NEODYMIUM(III) NITRATE.

NCC000 CAS: 1313-97-9 HR: 1
NEODYMIUM OXIDE
mf: Nd_2O_3 mw: 336.48
PROP: Light blue solid (red fluorescence) or powder with hexagonal structure. Mp: 2233°, bp: 3760°. Very stable; sol in dil acids; insol in water.
SYNS: DINEODYMIUM TRIOXIDE □ NEODYMIA □ NEODYMIUM(III) OXIDE □ NEODYMIUM(3+) OXIDE □ NEODYMIUM SESQUIOXIDE □ NEODYMIUM TRIOXIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5 g/kg JACTDZ 12,625,93
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion. See also NEODYMIUM and RARE EARTHS.

NCC100 CAS: 33113-10-9 HR: D
NEOHEPTANOIC ACID
mf: $C_7H_{14}O_2$ mw: 130.21
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

NCD500 CAS: 91-85-0 HR: 3

NEOHETRAMINE
mf: $C_{16}H_{22}N_4O$ mw: 286.42
PROP: Bp: 202−204° @ 6 mm.
SYNS: 2-((2-DIMETHYLAMINO)(ETHYL)(p-METHOXYBENZYL)AMINO)PYRIMIDINE □ N,N-DIMETHYL-N'-(p-METHOXYBENZYL)-N'-(2-PYRIMIDYL)ETHYLENEDIAMINE □ NCI-C60708
TOXICITY DATA with REFERENCE:
orl-wmn TDLo:2 mg/kg JOALAS 19,313,48
orl-mus LD50:245 mg/kg PSEBAA 66,512,47
ipr-mus LD50:119 mg/kg PSEBAA 66,512,47
orl-gpg LD50:493 mg/kg PSEBAA 66,512,47
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

NCD550 CAS: 28002-70-2 HR: 3
NEOMIX
mf: $C_{23}H_{46}N_6O_{13}$•xH_2O_4S mw: 1301.31
PROP: Powder. Soluble in water.
SYNS: BYKOMYCIN □ o-2,6-DIAMINO-2,6-DIDEOXY-β-l-IDOPYRANOSYL-(1-3)-o-(β-d-RIBOFURANOSYL-(1-5)-o-(2,6)-DIAMINO-2,6-DIDEOXY-α-d-GLUCOPYRANOSYL-(1-4))-2-DEOXYD-STREPTAMINE SULFATE (SALT) □ FRAMYCETIN SULFATE □ FRAMYCIN SULFATE □ FRAQUINOL □ MYACINE □ NEOBRETTIN □ NEOMYCIN B SULFATE (SALT) □ NEOSULF □ TUTTOMYCIN
TOXICITY DATA with REFERENCE:
ipr-rat LD50:250 mg/kg THERAP 13,945,58
scu-rat LD50:700 mg/kg THERAP 13,945,58
ims-rat LD50:550 mg/kg THERAP 13,945,58
ipr-mus LD50:270 mg/kg THERAP 13,945,58
scu-mus LD50:450 mg/kg THERAP 13,945,58
ivn-mus LD50:55 mg/kg THERAP 13,945,58
ims-mus LD50:450 mg/kg THERAP 13,945,58
scu-gpg LD50:450 mg/kg THERAP 13,945,58
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by subcutaneous and intramuscular routes. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

NCE000 CAS: 1404-04-2 HR: 3
NEOMYCIN
PROP: An antibiotic.
SYNS: MYACYNE □ MYCIFRADIN □ NEOMCIN □ NIVEMYCIN □ VONAMYCIN POWDER V
TOXICITY DATA with REFERENCE:
dnd-esc 20 mg/L MUREAV 89,95,81
cyt-mus-par 50 mg/kg CHRTBC 4,277,72
orl-wmn TDLo:220 mg/kg/2D:EAR,KID LARYA8 78,1734,68
unr-hmn TDLo:57 mg/kg:EAR,KID AIMEAS 66,1052,67
orl-rat LD50:2750 mg/kg TXAPA9 18,185,71
scu-rat LD50:200 mg/kg ARZNAD 12,597,62
orl-mus LD50:2880 mg/kg 85ERAY 1,664,78
ipr-mus LD50:116 mg/kg 85ERAY 1,664,78
scu-mus LD50:275 mg/kg ANTBAL 17,522,72
ivn-mus LD50:35 mg/kg ARZNAD 13,391,63
SAFETY PROFILE: Poison by intraperitoneal, intravenous, and subcutaneous routes. Moderately toxic by ingestion. Human systemic effects: changes in hearing acuity, liver tubule changes, and decreased urine volume or anuria. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

NCE500 CAS: 3947-65-7 HR: 3
NEOMYCIN A
mf: $C_{12}H_{26}N_4O_6$ mw: 322.42
PROP: Crystals from H_2O or EtOH (aq). Mp: 225−226° (decomp).
SYNS: NEAMIN □ NEBRAMYCIN X □ NEGAMICIN
TOXICITY DATA with REFERENCE:
scu-mus LD50:1250 mg/kg 85ERAY 1,664,78
ivn-mus LD50:320 mg/kg 85ERAY 1,664,78
ivn-mus LD50:125 mg/kg JANTAJ 27,677,74
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x.

NCF000 CAS: 119-04-0 HR: 3
NEOMYCIN B
mf: $C_{23}H_{46}N_6O_{13}$ mw: 614.75
PROP: Amorphous solid. Water-sol.
SYNS: ACTILIN □ ANTIBIOTIQUE □ FRAMYCETIN □ SOFRAMYCIN
TOXICITY DATA with REFERENCE:
ivn-mus LD50:24 mg/kg JANTAJ 27,677,74
ipr-mus LD50:250 mg/kg 85ERAY 1,741,78
scu-mus LD50:220 mg/kg HBTXAC 2,121,57
ivn-mus LD50:65 mg/kg APFRAD 11,44,53
SAFETY PROFILE: Poison by intraperitoneal, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

NCF300 CAS: 66-86-4 HR: 3
NEOMYCIN C
mf: $C_{23}H_{46}N_6O_{13}$ mw: 614.75
PROP: Amorphous solid.
TOXICITY DATA with REFERENCE:
ipr-mus LD50:116 mg/kg 85GDA2 1,126,80
scu-mus LD50:290 mg/kg HBTXAC 2,121,57
ivn-mus LD50:44 mg/kg JANTAJ 27,677,74
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

NCF500 CAS: 7542-37-2 HR: 2
NEOMYCIN E
mf: $C_{23}H_{45}N_5O_{14}$ mw: 615.73
PROP: Amorphous solid.
SYNS: AMINOSIDIN □ ANTIBIOTIC SF 767B □ CATENULIN □ CRESTOMYCIN □ ESTOMYCIN □ GABBROMYCIN □ HUMATIN □ HUMYCIN □ HYDROXYMYCIN □ MONOMYCIN A □ PARGONYL □ PAROMOMYCIN □ PAUCIMYCIN □ QUINTOMYCIN C □ R 400 □ ZYGOMYCIN A1
TOXICITY DATA with REFERENCE:
orl-rat LD50:21,620 mg/kg NKRZAZ 16,124,68
scu-rat LD50:1010 mg/kg ANTCAO 12,243,62
ims-rat LD50:1200 mg/kg NKRZAZ 16,124,68
orl-mus LD50:2275 mg/kg 85ERAY 1,674,78
ipr-mus LD50:930 mg/kg 85FZAT -,332,67
SAFETY PROFILE: Moderately toxic by ingestion, intramuscular, intraperitoneal, and subcutaneous routes.

When heated to decomposition it emits toxic fumes of NO_x.

NCG000 CAS: 1405-10-3 HR: 3
NEOMYCIN SULFATE
PROP: White odorless powder. Bp: Degrades before boiling. Sol in water
SYNS: BIOSOL VETERINARY ◻ FRADIOMYCIN SULFATE ◻ LIDAMYCIN CREME ◻ MYCAIFRADIN SULFATE ◻ MYCIFRADIN-N ◻ MYCIGIENT ◻ NEOBIOTIC ◻ NEO-MANTLE CREME ◻ NEOMIX ◻ NEOMYCINE SULFATE ◻ NEOMYCIN SULPHATE ◻ OTOBIOTIC ◻ QUINTESS-N ◻ USAF CB-19
TOXICITY DATA with REFERENCE:
skn-hmn 6 mg/3D-I MLD 85DKA8 -,127,77
orl-wmn TDLo:12,600 mg/kg/7D:CNS ARSUAX 111,822,76
scu-rat LD50:200 mg/kg ARZNAD 12,597,62
scu-mus LD50:190 mg/kg ANTBAL 18,444,73
ivn-mus LD50:17,400 µg/kg AITEAT 10,947,62
ims-mus LD50:142 mg/kg AIMDAP 119,493,67
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intramuscular, intravenous, and subcutaneous routes. Human systemic effects by ingestion: somnolence, hallucinations and distorted perceptions, and anorexia. A human skin irritant. When heated to decomposition it emits very toxic fumes of SO_x. See also NEOMYCIN.

NCG500 CAS: 7440-01-9 HR: 1
NEON
DOT: UN 1065/UN 1913
af: Ne aw: 20.18
PROP: Colorless, monatomic, non-toxic, gaseous element; tasteless and odorless. Inert except towards F_2. Mp: −248.67°, bp: −245.9°, d: (liquid) 1.204 @ −245.9°; (gas) 0.89994 g/L @ 0°. Sol in water.
SYNS: NEON, compressed (UN 1065) (DOT) ◻ NEON, refrigerated liquid (cryogenic liquid) (UN 1913) (DOT)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
ACGIH TLV: Simple Asphyxiant
DOT CLASSIFICATION: 2.2; Label: Nonflammable Gas
SAFETY PROFILE: An inert asphyxiant gas. See also ARGON.

NCG700 CAS: 63035-21-2 HR: 3
NEONOL
PROP: A transparent oily liquid with color range from colorless to light yellow.
TOXICITY DATA with REFERENCE:
orl-rat LD50:6875 mg/kg GISAAA 47(2),85,82
orl-rbt LDLo:135 mg/kg JPHAA3 25,597,36
ipr-rbt LDLo:110 mg/kg JPHAA3 25,597,36
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes.

NCG715 CAS: 81296-95-9 HR: 2
NEONOL AF-14
TOXICITY DATA with REFERENCE:
orl-rat LD50:1800 mg/kg GISAAA 48(1),84,83
orl-mus LD50:1800 mg/kg GISAAA 48(1),84,83
orl-rbt LD50:1800 mg/kg GISAAA 48(1),84,83
orl-gpg LD50:1800 mg/kg GISAAA 48(1),84,83
SAFETY PROFILE: Moderately toxic by ingestion.

NCG800 CAS: 37205-87-1 HR: 1
NEONOL AF 9-4
mf: $(C_2H_4O)_4 \bullet C_{15}H_{24}O$
TOXICITY DATA with REFERENCE:
orl-rat LD50:5600 mg/kg GISAAA 53(2),93,88
unr-rat LD50:5840 mg/kg GISAAA 53(3),68,88
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

NCG820 CAS: 37205-87-1 HR: 2
NEONOL AF 9-6
mf: $(C_2H_4O)_6 \bullet C_{15}H_{24}O$
TOXICITY DATA with REFERENCE:
orl-rat LD50:5800 mg/kg GISAAA 53(2),93,88
orl-mus LD50:4700 mg/kg GISAAA 53(2),93,88
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

NCG830 CAS: 37205-87-1 HR: 1
NEONOL AF9-25
mf: $(C_2H_4O)_{25} \bullet C_{15}H_{24}O$
TOXICITY DATA with REFERENCE:
unr-rat LD50:9 g/kg GISAAA 53(3),68,88
SAFETY PROFILE: Low toxicity by an unreported route. When heated to decomposition it emits acrid smoke and irritating vapors.

NCG840 CAS: 37205-87-1 HR: 1
NEONOL AFM 9-10 (0.5)
mf: $(C_2H_4O)_{12} \bullet C_{15}H_{24}O$
TOXICITY DATA with REFERENCE:
unr-rat LD50:3400 mg/kg GISAAA 53(3),68,88
SAFETY PROFILE: Low toxicity by an unreported route. When heated to decomposition it emits acrid smoke and irritating vapors.

NCG842 HR: 2
NEONOL 2B1317-12
TOXICITY DATA with REFERENCE:
orl-rat LD50:1800 mg/kg GISAAA 48(1),84,83
orl-mus LD50:1800 mg/kg GISAAA 48(1),84,83
orl-rbt LD50:1800 mg/kg GISAAA 48(1),84,83
orl-gpg LD50:1800 mg/kg GISAAA 48(1),84,83
SAFETY PROFILE: Moderately toxic by ingestion.

NCG850 CAS: 82987-71-1 HR: 1
NEONOL V1020-3
TOXICITY DATA with REFERENCE:
unr-rat LD50:5170 mg/kg GISAAA 53(3),68,88

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

NCH000 CAS: 463-82-1 HR: 3
NEOPENTANE
DOT: UN 2044
mf: C_5H_{12} mw: 72.17
PROP: Liquid or gas at room temp. Solidifies @ −19.8°, bp: 9.5°, d: 0.613° @ 0°/0° (liquid), flash p: <19.4°F, lel: 1.4%, uel: 7.5%. Insol in water.
SYNS: 2,2-DIMETHYLPROPANE □ 2,2-DIMETHYLPROPANE, other than pentane and isopentane (DOT) □ tert-PENTANE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:100 mg/kg HINAAU 10,206,68
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
ACGIH TLV: TWA 600 ppm
DFG MAK: 1000 ppm (3000 mg/m^3)
NIOSH REL: TWA 120 ppm; CL 610 ppm/15M
DOT CLASSIFICATION: 2.1; Label: Flammable Gas
SAFETY PROFILE: Poison by intraperitoneal route. An inhalation hazard. Both the gas and the liquid are flammable when exposed to heat or flame; can react vigorously with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes.

NCH500 CAS: 78-12-6 HR: 2
1,1′,1″,1‴-(NEOPENTANE TETRAYLTETRAO-XY)TETRAKIS(2,2,2-TRICHLOROETHANOL)
mf: $C_{13}H_{16}Cl_{12}O_8$ mw: 725.69
PROP: Yellow glass. Mp: 52−54°.
SYNS: PENTAERYTHRITOL CHLOROL □ PERICHLOR □ PERICHLORAL □ PERICLOR □ PETRICHLORAL
TOXICITY DATA with REFERENCE:
orl-mus LD50:1030 mg/kg 27ZQAG -,422,72
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.

NCI300 CAS: 17557-23-2 HR: 2
NEOPENTYL GLYCOL DIGLYCIDYL ETHER
mf: $C_{11}H_{20}O_4$ mw: 216.31
PROP: Liquid. Flash Pt.: 88° C.
SYNS: 1,3-BIS(2,3-EPOXYPROPOXY)-2,2-DIMETHYLPROPANE □ DIGLYCIDYL ETHER of NEOPENTYL GLYCOL □ 2,2'-((2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(OXYMETHYLENE))-BISOXIRANE □ HELOXY WC68
TOXICITY DATA with REFERENCE:
mmo-sat 1 mg/plate MUREAV 172,105,86
orl-rat LD50:4500 mg/kg 38MKAJ 2A,2212,81
CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. A combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

NCI400 CAS: 66525-27-7 HR: 2
NEOPINAMINE
mf: $C_{19}H_{25}NO_4$ mw: 331.45
SYN: CYCLOHEXENE-1-DICARBOXIMIDOMETHYL-CHRYSANTHEMATE
TOXICITY DATA with REFERENCE:
eye-rbt 10% JHEMA2 13,56,1969
cyt-unr-mus 100 mg/kg CYGEDX 16(1),50,1982
orl-rat LD50:4900 mg/kg GISAAA 54(9),24,1989
ihl-rat LC :>720 mg/m^3 GISAAA 54(9),24,1989
orl-mus LD50:1225 mg/kg GISAAA 54(9),24,1989
ihl-mus LC :>720 mg/m^3 GISAAA 54(9),24,1989
skn-mus LD50:10 g/kg GISAAA 54(9),24,1989
SAFETY PROFILE: Moderately toxic by ingestion and inhalation. Low toxicity by skin contact. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NCI500 CAS: 126-99-8 HR: 3
NEOPRENE
DOT: UN 1991
mf: C_4H_5Cl mw: 88.54

$$H_2C{=}CClCH{=}CH_2$$

PROP: Colorless liquid. An oil-resistant synthetic rubber made by the polymerization of chloroprene. D: 0.958 @ 20°/20°, bp: 59.4°, flash p: −4°F, lel: 4.0%, uel: 20%, vap d: 3.0, brittle point: −35°, softens @ approx 80°. Sltly sol in water; misc in alc and ether. IDLH 300 ppm.
SYNS: 2-CHLOOR-1,3-BUTADIEEN (DUTCH) □ 2-CHLOR-1,3-BUTADIEN (GERMAN) □ CHLOROBUTADIENE □ 2-CHLOROBUTA-1,3-DIENE □ 2-CHLORO-1,3-BUTADIENE □ CHLOROPREEN (DUTCH) □ CHLOROPREN (GERMAN, POLISH) □ CHLOROPRENE □ β-CHLOROPRENE (OSHA, MAK) □ CHLOROPRENE, inhibited (DOT) □ CHLOROPRENE, uninhibited (DOT) □ 2-CLORO-1,3-BUTADIENE (ITALIAN) □ CLOROPRENE (ITALIAN)
TOXICITY DATA with REFERENCE:
mma-sat 2 pph/4H ARTODN 41,249,79
cyt-hmn-unr 1 mg/m^3 MUREAV 147,301,85
orl-rat LD50:450 mg/kg 85GMAT -,38,82
orl-rat TDLo:9100 µg/kg/26W-I GISAAA 45(2),17,80
ihl-rat TCLo:161 ppm/6H/4W-I TXAPA9 46,375,78
ihl-rat LC50:11,800 mg/m^3/4H 85GMAT -,38,82
scu-rat LDLo:500 mg/kg JIHTAB 18,240,36
orl-mus LD50:146 mg/kg 85GMAT -,38,82
ihl-mus LC50:2300 mg/m^3 ZKMAAX (6),66,69
scu-mus LDLo:1000 mg/kg JIHTAB 18,240,36
ihl-cat LCLo:1290 mg/m^3/8H JIDHAN 18,240,36
scu-cat LDLo:100 mg/kg JIDHAN 18,240,36
ivn-rbt LDLo:96 mg/kg SBLEA2 44,63,42
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 3 IMEMDT 7,160,87; Animal Inadequate Evidence IMEMDT 19,131,79; Human Inadequate Evidence IMEMDT 19,131,79. Reported in EPA TSCA Inventory. Community Right-To-Know List.
OSHA PEL: TWA 10 ppm (skin)
ACGIH TLV: TWA 10 ppm (skin)
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
NIOSH REL: CL (Chloroprene) 1 ppm/15M

DOT CLASSIFICATION: 3; Label: Flammable Liquid, Poison (UN 1991); DOT Class: Forbidden
SAFETY PROFILE: Confirmed carcinogen. Poison by ingestion, intravenous, and subcutaneous routes. Moderately toxic by inhalation. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. Human exposure has caused dermatitis, conjunctivitis, corneal necrosis, anemia, temporary loss of hair, nervousness, and irritability. Exposure to the vapor can cause respiratory tract irritation leading to asphyxia. Other effects are central nervous system depression, drop in blood pressure, severe degenerative changes in the liver, kidneys, lungs, and other vital organs. A very dangerous fire hazard when exposed to heat or flame. Explosive in the form of vapor when exposed to heat or flame. To fight fire, use alcohol foam. Auto-oxidizes in air to form an unstable peroxide that catalyzes exothermic polymerization of the monomer. Incompatible with liquid or gaseous fluorine. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, ALIPHATIC.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Chloroprene, 1002.

NCI525 CAS: 6795-60-4 HR: D
NEOPROGESTIN
mf: $C_{20}H_{28}O_2$ mw: 300.48
PROP: Crystals from ethyl acetate + pet ether. Mp: 169−171°.
SYNS: 17-HYDROXY-19-NOR-17-α-PREGNA-4,20-DIEN-3-ONE ◻ 17-HYDROXY-17-α-VINYL-4-ESTREN-3-ONE ◻ NOR-PROG-ESTELEA ◻ NORVINISTERONE ◻ 19-NOR-17-α-VINYLTEST-OSTERONE ◻ SC 4641 ◻ 17-VINYL-19-NORTESTOSTERONE ◻ 17-α-VINYL-19-NORTESTOSTERONE
SAFETY PROFILE: Experimental reproductive effects. A steroid. When heated to decomposition it emits acrid smoke and irritating fumes.

NCI550 HR: 2
NEOPROSERINE
PROP: An anterior pituitary hormone (NIIRDN 6,559,82).
TOXICITY DATA with REFERENCE:
ipr-rat LD50:1330 mg/kg NIIRDN 6,559,82
SAFETY PROFILE: Moderately toxic by intraperitoneal route. An experimental teratogen. Other experimental reproductive effects.

NCI600 CAS: 124-97-0 HR: 3
NEOPROTOVERATRINE
mf: $C_{41}H_{63}NO_{15}$ mw: 810.05
PROP: A solid. Mp: 269−270°.
SYNS: NEOPROTOVERATRIN ◻ PROTOVERATRINE B ◻ VERATRIN ◻ VERATRINE
TOXICITY DATA with REFERENCE:
scu-mus LD50:210 μg/kg JPETAB 113,89,55
ivn-mus LD50:65 μg/kg APFRAD 14,783,56
scu-rbt LD50:170 μg/kg APFRAD 14,783,56
SAFETY PROFILE: A deadly poison by subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

NCJ000 CAS: 69343-45-9 HR: 3
NEOPSICAINE HYDROCHLORIDE
mf: $C_{19}H_{25}NO_4$•ClH mw: 367.91
SYNS: 3-(BENZOYLOXY)-8-METHYL-8-AZABICYCLO(3.2.1)-OCTANE-2-CARBOXYLIC ACID PROPYL ESTER, HYDRO-CHLORIDE (1R-(2-endo,3-exo)) ◻ PSICAINE-NEU HYDRO-CHLORIDE ◻ PSICAIN-NEW HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
eye-rbt 2% MLD ARZNAD 8,181,58
ipr-rat LD50:41 mg/kg ARZNAD 8,181,58
ipr-mus LD50:57 mg/kg ARZNAD 8,181,58
scu-mus LD50:200 mg/kg ARZNAD 8,181,58
ivn-mus LDLo:20 mg/kg WDMU** -,-,36
scu-gpg LDLo:50 mg/kg FDHU** -,-,33
SAFETY PROFILE: Poison by intraperitoneal, intravenous, and subcutaneous routes. An eye irritant. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

NCJ500 CAS: 457-60-3 HR: 3
NEOSALVARSAN
mf: $C_{13}H_{13}As_2N_2H_2O_4S$•Na mw: 466.17
PROP: Yellow powder.
SYNS: ((5-(3-AMINO-4-HYDROXYPHENYL)ARSENO)-2-HYDROXYANILINO)METHANOL SULFOXYLATE SODIUM ◻ ARSEVAN ◻ ARSPHENAMINE METHYLENESULFOXYLIC ACID SODIUM SALT ◻ COLLUNOVAR ◻ COLLUNOVER ◻ 3,3'-DIAMINO-4,4'-DIHYDROXY ARSENOBENZENE METHYLENE-SULFOXYLATE SODIUM ◻ MIARSENOL ◻ NEOARSOLUIN ◻ NEOARSPHENAMINE ◻ NOVARSAN ◻ NOVARSENOBENZOL ◻ NOVARSENOBILLON ◻ VETARSENOBILLON
TOXICITY DATA with REFERENCE:
scu-rat LDLo:100 mg/kg BIZEA2 184,360,27
ivn-rat LDLo:280 mg/kg MADCAJ 6,195,37
ivn-mus LDLo:250 mg/kg HBAMAK 4,1289,35
ivn-rbt LDLo:250 mg/kg HBAMAK 4,1289,35
CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.5 mg(As)m^3
ACGIH TLV: BEI: 35 μ (As)/L inorganic arsenic and methylated metabolites in urine
SAFETY PROFILE: Poison by intravenous and subcutaneous routes. When heated to decomposition it emits very toxic fumes of As, NO_x, Na_2O, and SO_x. See also ARSENIC COMPOUNDS.

NCK000 CAS: 36519-25-2 HR: 3
NEOSOLANIOL
mf: $C_{18}H_{26}O_8$ mw: 370.44
PROP: Crystals from EtOAc/hexane. Mp: 171−172.
SYNS: 4-β,15-DIACETOXY-3-α,8-α-DIHYDROXY-12,13-EPOXYTRICHOTHEC-9-ENE ◻ 12,13-EPOXY-4-β,15-DIACETOXY-3-α,8-α-DIHYDROXYTRICHOTHEC-9-ENE
TOXICITY DATA with REFERENCE:
skn-gpg 370 ng MLD FAATDF 4(2, Pt 2),S124,84
ipr-mus LD50:14,500 μg/kg 85GDA2 6,190,81
orl-ckn LD50:24,870 μg/kg AEMIDF 35,636,78
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NCK100 CAS: 5588-25-0 HR: 3

NEOSPASMINA
mf: $C_{20}H_{35}NO_2$•ClH mw: 358.02
SYNS: (BICYCLOHEXYL)-1-CARBOXYLIC ACID, 2-PIPERIDINOETHYL ESTER, HYDROCHLORIDE □ (1,1'-BICYCLOHEXYL)-1-CARBOXYLIC ACID, 2-(1-PIPERIDINYL)ETHYL ESTER, HYDROCHLORIDE (9CI) □ DIHEXYVERIN HYDROCHLORIDE □ DIVERINE □ OLIMPLEX □ SECLIN
TOXICITY DATA with REFERENCE:
ivn-mus LD50:27 mg/kg THERAP 10,514,55
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and HCl.

NCK500 CAS: 102418-06-4 HR: 3
NEOSPIRAMYCIN
TOXICITY DATA with REFERENCE:
scu-mus LD50:1187 mg/kg JJANAX 23,429,70
ivn-mus LD50:168 mg/kg JJANAX 23,429,70
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of NO_x.

NCL000 CAS: 1344-34-9 HR: 3
NEOSTAM
mf: $C_{36}H_{49}N_3O_{22}Sb_3$•Na mw: 1264.12
PROP: Pale-cream powder.
SYNS: GLUCOSTIBAMINE SODIUM □ GLUCOSTIMIDINE SODIUM □ NEOSTAM STIBAMINE GLUCOSIDE □ NITROGEN GLUCOSIDE of SODIUM-p-AMINOPHENYLSTIBONATE □ SODIUM-p-AMINOBENZENESTIBONATE GLUCOSIDE □ SODIUM STIBANILATE GLUCOSIDE □ STIBAMINE GLUCOSIDE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:1475 mg/kg JPETAB 81,224,44
ims-rbt LD50:91 mg/kg JPETAB 87,119,46
CONSENSUS REPORTS: Antimony and its compounds are on The Community Right-To-Know List.
OSHA PEL: TWA 0.5 mg(Sb)/m^3
ACGIH TLV: TWA 0.5 mg(Sb)/m^3
NIOSH REL: (Antimony) TWA 0.5 mg(Sb)/m^3
SAFETY PROFILE: Poison by intramuscular route. Moderately toxic by intravenous route. When heated to decomposition it emits toxic fumes of Sb, NO_x, and Na_2O. See also ANTIMONY COMPOUNDS.

NCL100 CAS: 59-99-4 HR: 3
NEOSTIGMINE
mf: $C_{12}H_{19}N_2O_2$ mw: 223.33
SYNS: EUSTIGMIN □ EUSTIGMINE □ (m-HYDROXYPHENYL)TRIMETHYLAMMONIUM DIMETHYLCARBAMATE (ester) □ INTRASTIGMINA □ JUVASTIGMIN □ NORMASTIG-MIN □ PROSTIGMIN □ PROSTIGMINE □ VAGOSTIGMINE
TOXICITY DATA with REFERENCE:
ivn-rat LD50:225 μg/kg AIPTAK 101,205,55
orl-mus LD50:12,340 μg/kg JPETAB 117,75,56
ipr-mus LD50:380 μg/kg AIPTAK 192,88,71
scu-mus LD50:280 μg/kg JPPMAB 34,603,82
ivn-mus LD50:160 μg/kg IJNEAQ 8,131,69
scu-dog LDLo:769 μg/kg FEPRA7 5,184,46
ims-rbt LD50:340 μg/kg DCTODJ 3,319,80
SAFETY PROFILE: A deadly poison by ingestion, subcutaneous, intramuscular, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and NH_3. See also CARBAMATES.

NCL300 CAS: 5787-73-5 HR: 3
NEOSUPRANOL HYDROCHLORIDE
mf: $C_8H_{19}N$•ClH mw: 165.74
SYNS: EA-1 HYDROCHLORIDE □ N,1-DIMETHYLHEXYLAMINE HYDROCHLORIDE □ 2-METHYLAMINO-HEPTANE, HYDROCHLORIDE □ OENETHYL HYDROCHLORIDE □ PACAMINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-man TDLo:2857 μg/kg:CNS JAPMA8 39,12,50
scu-man TDLo:1428 μg/kg:CNS,SKN JAPMA8 39,12,50
orl-rat LD50:320 mg/kg JAPMA8 39,12,50
ipr-rat LD50:60 mg/kg JPETAB 81,235,44
scu-rat LD50:60 mg/kg JAPMA8 39,12,50
scu-mus LD50:88 mg/kg THERAP 6,123,51
ivn-mus LD50:36 mg/kg JAPMA8 39,12,50
ivn-dog LD50:26 mg/kg JAPMA8 39,12,50
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Human systemic effects by ingestion or subcutaneous routes: sweating and headache. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also AMINES.

NCL500 CAS: 59-42-7 HR: 3
NEOSYNEPHRINE
mf: $C_9H_{13}NO_2$ mw: 167.23
PROP: A solid. Mp: 177°.
SYNS: 1-α-HYDROXY-β-METHYLAMINO-3-HYDROXY-1-ETHYLBENZENE □ (R)-3-HYDROXY-α-((METHYLAMINO)-METHYL)BENZENEMETHANOL □ 1-m-HYDROXY-α-((METHYLAMINO)METHYL)-BENZYL ALCOHOL □ (−)-m-HYDROXY-α-(METHYLAMINOMETHYL)BENZYL ALCOHOL □ 1-1-(m-HYDROXYPHENYL)-2-METHYLAMINOETHANOL □ 1-(3-HYDROXYPHENYL)-N-METHYLETHANOLAMINE □ ISOPHRIN □ MESATON □ METAOXEDRIN □ METASYMPATOL □ METASYNEPHRINE □ m-METHYLAMINOETHANOLPHENOL □ MEZATON □ R(−)-MEZATON □ m-OXEDRINE □ (−)-m-OXEDRINE □ PHENYLEPHRINE □ (−)-PHENYLEPHRINE □ R(−)-PHENYLEPHRINE □ m-SYMPATHOL □ m-SYMPATOL □ m-SYNEPHRINE □ VISADRON
TOXICITY DATA with REFERENCE:
ocu-wmn TDLo:188 μg/kg:CVS ANESAV 36,187,72
ocu-inf TDLo:5500 μg/kg:CVS ANESAV 36,187,72
orl-rat LD50:350 mg/kg AIPTAK 180,155,69
scu-rat LD50:28 mg/kg JPETAB 85,119,45
ipr-mus LDLo:60 mg/kg JPETAB 160,22,68
scu-mus LD50:875 mg/kg FATOAO 28,46,65
ivn-mus LD50:38 mg/kg APTOA6 38,474,76
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, intraperitoneal, and intraduodenal routes. Human systemic effects by ocular route: blood pressure increase. An experimental teratogen. Other experimental reproductive effects. A nasal decongestant. When heated to decomposition it emits toxic fumes of NO_x.

NCM275 CAS: 67298-49-1 HR: 3
NEOTHRAMYCIN
mf: $C_{13}H_{14}N_2O_4$ mw: 262.29
TOXICITY DATA with REFERENCE:
orl-mus LD50:100 mg/kg JANTAJ 35,1093,82
ipr-mus LD50:22 mg/kg JANTAJ 35,1093,82
ivn-mus LD50:23,100 µg/kg JANTAJ 35,1093,82
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

NCM700 CAS: 555-89-5 HR: 1
NEOTRAN
mf: $C_{13}H_{10}Cl_{12}O_2$ mw: 269.13
PROP: Needles from EtOH (aq). Mp: 71−72°, bp: 189−194° @ 6 mm.
SYNS: BIS(p-CHLOROPHENOXY)METHANE □ DCPM □ DI-p-CHLORODIPHENOXYMETHANE □ DI-(p-CHLOROPHENOXY)-METHANE □ DI-(4-CHLOROPHENOXY)METHANE □ ENT 15,208 □ K 1875 □ 1,1'-(METHYLENEBIS(OXY))BIS(4-CHLORO)-BENZENE □ OXYTHANE
TOXICITY DATA with REFERENCE:
orl-rat LD50:5800 mg/kg AIHOAX 1,341,50
ihl-rat LCl0:18,000 ppm MEIEDD 10,176,83
orl-mus LD50:5800 mg/kg FMCHA2 -,C167,83
SAFETY PROFILE: Mildly toxic by ingestion and inhalation. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLORINATED HYDROCARBONS, AROMATIC.

NCM800 CAS: 26552-50-1 HR: 3
NEPTAL
mf: $C_{12}H_{15}HgNO_6$ mw: 469.87
SYNS: ACETIC ACID, (o-((2-HYDROXY-3-HYDROXYMER-CURI)PROPYL)CARBAMOYL)PHENOXY- □ (o-((2-HYDROXY-3-(HYDROXYMERCURY)PROPYL)CARBAMOYL)PHENOXY)-ACETIC ACID □ HYDROXYMERCURIPROPANOL-AMIDE of o-CARBOXYPHENOXYACETIC ACID □ MERCURY, (3-(α-CARBOXY-o-ANISAMIDO)-2-HYDROXYPROPYL)-HYDROXY-
TOXICITY DATA with REFERENCE:
ivn-rbt LDLo:12 mg/kg JPETAB 41,21,31
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m^3 (skin)
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and Hg.

NCN500 HR: 3
NEPTUNIUM
af: Np aw: 237.048
PROP: Exists in α, β, and γ forms. Mp: 640°, bp: 3902°, d: 20.45 @ 20°. The first synthetic transuranium element discovered. It is a silvery, radioactive, chemically active metal. Emits α particles and has a half-life of 2.2×10^6 years.
SAFETY PROFILE: Strong radiotoxicity. The soluble compounds, including the nitrates and organic complexes (e.g., tributyl phosphate), are the most important industrially.

NCN600 CAS: 13997-19-8 HR: D
NEQUINATE
mf: $C_{22}H_{23}NO_4$ mw: 365.43
PROP: Crystals. Mp: 287−288°.
SYNS: 7-(BENZYLOXY)-6-N-BUTYL-1,4-DIHYDRO-4-OXO-3-QUINOLINECARBOXYLIC ACID METHYL ESTER □ 7-(BENZ-YLOXY)-6-N-BUTYL-4-HYDROXY-3-QUINOLINECARBOXYLIC ACID METHYL □ 3-METHOXYCARBONYL-6-N-BUTYL-7-BENZYLOXY-4-OXOQUINOLINE □ STATYL
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

NCN650 CAS: 17606-31-4 HR: 3
NEREISTOXIN DIBENZENESULFONATE
mf: $C_{17}H_{21}NO_4S_4$ mw: 431.63
SYNS: BANCOL □ BENSULTAP □ BENZENESULFONIC ACID, THIO-, S,S'-(2-(DIMETHYLAMINO)TRIMETHYLENE) ESTER □ S,S'-(2-(DIMETHYLAMINO)TRIMETHYLENE)BIS(BENZENE-THIOSULFONATE) □ RUBAN □ THIOBENZENESULFONIC ACID S,S'-(2-(DIMETHYLAMINO)TRIMETHYLENE) ESTER □ TI-78 □ TI-1671 □ VICTENON □ ZZ-DORICIDA □ ZZ-DORICIDE
TOXICITY DATA with REFERENCE:
sce-hmn-lym 1 mg/L MUREAV 241,109,1990
orl-rat LD50:1105 mg/kg FMCHA2 -,C34,1991
ihl-rat LC50:>700 mg/m^3 NNGADV 14,523,1989
ipr-rat LD50:438 mg/kg NNGADV 14,523,1989
scu-rat LD50:1160 mg/kg NNGADV 14,523,1989
orl-mus LD50:415 mg/kg ABCHA6 32,678,1968
ipr-mus LD50:343 mg/kg NNGADV 14,523,1989
scu-mus LD50:1202 mg/kg NNGADV 14,523,1989
skn-rbt LD50:>2 g/kg PEMNDP 9,64,1991
orl-ckn LD50:103 mg/kg PEMNDP 9,64,1991
orl-qal LD50:60 mg/kg PEMNDP 9,64,1991
SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. Moderately toxic by inhalation, intraperitoneal, subcutaneous, and skin contact routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NCN700 CAS: 7212-44-4 HR: D
NEROLIDOL
mf: $C_{15}H_{26}O$ mw: 222.37
PROP: Colorless to straw colored liquid; faint floral, rose-like odor. D: 0.870−0.880, refr index: 1.478−1.483. Sol in fixed oils, propylene glycol; insol in glycerin.
SYNS: FEMA No. 2772 □ 3,7,11-TRIMETNYL-1,6,10-DODECATRIEN-3-OL
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

NCN800 CAS: 56001-43-5 HR: 1
NEROLIDYL ACETATE
mf: $C_{17}H_{28}O_2$ mw: 264.45
SYNS: 1,6,10-DODECATRIEN-3-OL, 3,7,11-TRIMETHYL-, ACETATE, (S-(Z))- □ 3,7,11-TRIMETHYL-1,6,10-DODECATRIEN-3-YL ACETATE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 17,875,79
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NCO000 CAS: 8016-38-4 HR: 1
NEROLI OIL, TUNISIAN
PROP: Distilled from the blossoms of *Citrus aurantium* (FCTXAV 14,659,76).
SYN: NEROLI BIGARADE OIL, TUNISIAN
TOXICITY DATA with REFERENCE:
orl-rat LD50:4550 mg/kg FCTXAV 14,813,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

NCO100 CAS: 141-12-8 HR: 1
NERYL ACETATE
mf: $C_{12}H_{20}O_2$ mw: 196.32
SYNS: cis-3,7-DIMETHYL-2,6-OCTADIEN-1-OL ACETATE □ NEROL ACETATE (6CI) □ 2,6-OCTADIEN-1-OL, 3,7-DIMETHYL-, ACETATE, (Z)-
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5 g/kg FCTXAV 14,625,76
skn-rbt LD50:>5 g/kg FCTXAV 14,625,76
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.

NCO200 CAS: 2345-24-6 HR: 1
NERYL ISOBUTYRATE
mf: $C_{14}H_{24}O_2$ mw: 224.38
SYNS: cis-3,7-DIMETHYL-2,6-OCTADIEN-1-YL ISOBUTYRATE □ ISOBUTYRIC ACID, 3,7-DIMETHYL-2,6-OCTADIENYL ESTER, (Z)-(8CI) □ (Z)-2-METHYLPROPANOIC ACID 3,7-DIMETHYL-2,6-OCTADIENYL ESTER □ PROPANOIC ACID, 2-METHYL-, 3,7-DIMETHYL-2,6-OCTADIENYL ESTER, (Z)-
TOXICITY DATA with REFERENCE:
orl-rat LD50:>5 g/kg FCTOD7 26,391,88
skn-rbt LD50:>5 g/kg FCTOD7 26,391,88
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.

NCO500 CAS: 3915-83-1 HR: 1
NERYL ISOVALERIANATE
mf: $C_{15}H_{26}O_2$ mw: 238.41
SYNS: (Z)-3,7-DIMETHYL-2,6-OCTADIENYL ESTER ISOVALERIC ACID □ 3,7-DIMETHYL-2-cis-6-OCTADIEN-1-YL ISOVALERATE □ NERYL-β-METHYL BUTYRATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 14,815,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ESTERS.

NCP000 CAS: 105-91-9 HR: 1
NERYL PROPIONATE
mf: $C_{13}H_{22}O_2$ mw: 210.35
SYNS: cis-3,7-DIMETHYL-2,6-OCTADIEN-1-OL PROPIONATE □ (Z)-3,7-DIMETHYL-2,6-OCTADIEN-1-OL PROPIONATE □ PROPIONIC ACID-3,7-DIMETHYL-2,6-OCTADIEN-1-YL ESTER □ PROPIONIC ACID, NERYL ESTER
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 14,629,76
orl-rat LD50:>5 g/kg FCTXAV 14,629,76
skn-rbt LD50:>5 g/kg FCTXAV 14,629,76
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.

NCP500 CAS: 7783-33-7 HR: 3
NESSLER REAGENT
DOT: UN 1643
mf: HgI_42K mw: 786.39
PROP: Light yellow liquid. IDLH 10 mg/m^3 (as Hg).
SYNS: CHANNING'S SOLUTION □ MERCURIC POTASSIUM IODIDE □ MERCURIC POTASSIUM IODIDE, solid (DOT) □ MERCURY(II) POTASSIUM IODIDE □ POTASSIUM IODOHYDRARGYRATE □ POTASSIUM MERCURIC IODIDE □ POTASSIUM TETRAIODOMERCURATE(II) □ TETRAIODO-MERCURATE(2+), DIPOTASSIUM
TOXICITY DATA with REFERENCE:
skn-gpg LDLo:1000 mg/kg AEHLAU 11,201,65
ipr-gpg LDLo:1000 mg/kg AEHLAU 11,201,65
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.
NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m^3 (skin)
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: A poison. Moderately toxic by skin contact and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Hg, K_2O, and I^-. See also MERCURY.

NCP525 CAS: 130773-02-3 HR: 2
NETICONAZOLE HYDROCHLORIDE
mf: $C_{17}H_{22}N_2OS{\bullet}ClH$ mw: 338.93
SYNS: 1H-IMIDAZOLE, 1-(2-(METHYLTHIO)-1-(2-(PENTYLOXY)PHENYL)ETHENYL)-, MONOHYDROCHLORIDE, (E)- □ (E)-1-(2-(METHYLTHIO)-1-(2-(PENTYLOXY)PHENYL)-ETHENYL)-1H-IMIDAZOLE MONOHYDROCHLORIDE □ (E)-(1-(2-PENTYLOXYPHENYL)-1-IMIDAZOLYL-2-METHYLTHIO)-ETHYLENE HYDROCHLORIDE □ SS717

TOXICITY DATA with REFERENCE:
orl-rat LD50:1650 mg/kg NIIRDN-,945,1995
scu-rat LD50:4740 mg/kg YAKUD5 35,2933,1993
orl-mus LD50:820 mg/kg NIIRDN-,945,1995
scu-mus LD50:890 mg/kg YAKUD5 35,2933,1993
SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x, SO_x, HCl, and Cl^-.

NCP550 CAS: 56391-57-2 HR: 3
NETILMICIN SULFATE
mf: $C_{21}H_{41}N_5O_7$•5/2H_2O_4S mw: 720.80
PROP: Off white solid. Sol in water.
SYNS: CERTOMYCIN □ o-3-DEOXY-4-C-METHYL-3-(METHYLAMINO)-β-l-ARABINOPYRANOSYL-(1-6)-o-(2,b-DIAMINO-2,3,4,6-TETRADEOXY-α-d-glycero-HEX-4-ENOPYRANOSYL-(1-4))-2-DEOXY-N[1]-ETHYL-d-STREPTAMINE SULFATE (2:5) (salt) □ NETILLIN □ NETROMYCIN □ NTL SULFATE □ SCH 20569
TOXICITY DATA with REFERENCE:
ipr-rat LD50:270 mg/kg IYKEDH 16,866,85
scu-rat LD50:200 mg/kg IYKEDH 16,866,85
ivn-rat LD50:40,700 µg/kg IYKEDH 16,866,85
ims-rat LD50:197 mg/kg IYKEDH 16,866,85
ipr-mus LD50:189 mg/kg AMACCQ 10,827,76
scu-mus LD50:265 mg/kg AACHAX 10,827,76
ivn-mus LD50:60,613 µg/kg AMACCQ 10,827,76
ims-mus LD50:63,100 µg/kg IYKEDH 16,866,85
SAFETY PROFILE: Poison by subcutaneous, intramuscular, intravenous, and intraperitoneal routes. An experimental teratogen. Other experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

NCP600 CAS: 88255-01-0 HR: D
NETOBIMIN
mf: $C_{14}H_{20}N_4O_7S_2$ mw: 420.50
SYNS: ETHANESULFONIC ACID, 2-(((METHOXYCARBONYL)-AMINO)((2-NITRO-5-(PROPYLTHIO)PHENYL)AMINO)METHYLENE)AMINO)- □ HAPASIL
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NCP875 CAS: 1438-30-8 HR: 3
NETROPSIN
mf: $C_{18}H_{26}N_{10}O_3$ mw: 430.54
SYNS: 2814-A □ ANTIBIOTIC 1142 □ ANTIBIOTIC T-1384 □ CH-777-A □ CONGOCIDIN □ CONGOCIDINE □ F 6 □ IA 887 □ K-117 □ SINANOMYCIN □ T 1384
TOXICITY DATA with REFERENCE:
dnd-omi 200 µmol EJBCAI 26,81,72
dnd-omi 200 µmol EJBCAI 26,81,72
orl-mus LD50: 300 mg/kg 85ERAY 2,1180,78
ipr-mus LDLo:50 mg/kg JAJAAA 9,102,56
scu-mus LD50: 70 mg/kg 85ERAY 2,1180,78
ivn-mus LD50: 17 mg/kg 85ERAY 2,1180,78
SAFETY PROFILE: A poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NCQ000 CAS: 63770-20-7 HR: 3
NETROPSIN HYDROCHLORIDE
mf: $C_{18}H_{26}N_{10}O_3$•ClH mw: 467.00
PROP: Sol in alcohols or water.
SYN: CONGOCIDINE DIHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
cyt-mus:ast 10 µmol/L PHARAT 32,178,77
sce-ham:lng 100 µmol/L HEREAY 96,295,82
scu-mus LD50:70 mg/kg JACSAT 73,341,51
ivn-mus LD50:17 mg/kg JACSAT 73,341,51
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Mutation data reported. An antibacterial agent. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

NCQ100 CAS: 7654-03-7 HR: 3
NEURALEX
mf: $C_{15}H_{16}N_2O$ mw: 240.33
PROP: Crystals from isopropyl ether or pet ether + benzene. Mp: 237−238°.
SYNS: BENMOXINE □ 1-(BENZOYL)-2-(α-METHYLBENZYL)-HYDRAZINE □ 75-20 C □ (α-METHYLBENZYL)-1-BENZOYL-2-HYDRAZINE □ NERUSIL □ 2-(1-PHENYLETHYL)HYDRAZIDE BENZOIC ACID
TOXICITY DATA with REFERENCE:
orl-rat LD50:675 mg/kg 27ZQAG -,376,72
ipr-rat LD50:475 mg/kg 27ZQAG -,376,72
orl-mus LD50:250 mg/kg 27ZQAG -,376,72
ipr-mus LD50:130 mg/kg PPRPAS 21,621,66
orl-gpg LD50:460 mg/kg 27ZQAG -,376,72
ipr-gpg LD50:325 mg/kg 27ZQAG -,376,72
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. An antidepressant. When heated to decomposition it emits toxic fumes of NO_x.

NCQ200 CAS: 9001-67-6 HR: D
NEURAMINIDASE
PROP: Colorless liquid. Not combustible.
SYNS:
□ E.C. 3.2.1.18 □ α-NEURAMINIDASE □ SIALIDASE
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

NCQ500 CAS: 102395-05-1 HR: 3
NEUROSTAIN
PROP: Contains methylene blue, vitamin C and sodium bicarbonate (NIIRDN 6,552,82).
TOXICITY DATA with REFERENCE:
scu-rat LD50:190 mg/kg NIIRDN 6,552,82
ivn-rat LD50:36 mg/kg NIIRDN 6,552,82
scu-mus LD50:164 mg/kg NIIRDN 6,552,82
ivn-mus LD50:39 mg/kg NIIRDN 6,552,82
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. When heated to decomposition it emits toxic fumes of Na_2O. See also individual components.

NCQ520 CAS: 11080-14-1 HR: 3

NEUROTOXIN A (NAJA NAJA REDUCED)
mf: $C_{331}H_{526}N_{98}O_{103}S_{10}$ mw: 7848.15
TOXICITY DATA with REFERENCE:
ipr-mus LD50:120 µg/kg IJMRAQ 64,1358,1976
par-mus LD50:30 µg/kg 29QKAZ 1,293,1971
SAFETY PROFILE: A poison by intraperitoneal and parenteral routes. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NCQ530 CAS: 114451-41-1 HR: 3
NEUROTOXIN S4C6 (ASPIDELAPS SCUTATUS REDUCED)
mf: $C_{321}H_{495}N_{89}O_{96}S_{10}$ mw: 7458.65
SYN: ASPIDELAPS SCUTATUS NEUROTOXIN S4C6
TOXICITY DATA with REFERENCE:
ivn-mus LD50:130 µg/kg IJBOBV 20,93,1988
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NCQ550 CAS: 7788-98-9 HR: 2
NEUTRAL AMMONIUM CHROMATE
mf: $CrO_4 \bullet 2H_4N$ mw: 152.10
PROP: Yellow crystalline sugar or sandlike material. Sol in water. IDLH Ca [15 mg/m^3 {as Cr(VI)}].
SYNS: AMMONIUM CHROMATE ◻ AMMONIUM CHROMATE(VI) ◻ CHROMIC ACID, DIAMMONIUM SALT ◻ DIAMMONIUM CHROMATE
TOXICITY DATA with REFERENCE:
mmo-sat 35 µg/plate CRNGDP 9,611,88
dnr-esc 25 µg/well MUREAV 133,161,84
OSHA PEL: CL 0.1 mg(CrO_3)/m^3
ACGIH TLV: TWA 0.05 mg(Cr)/m^3
NIOSH REL: (Chromium(VI)): TWA 0.001 mg(Cr)/m^3
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NH_4.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: chromium hexavalent 7024.

NCQ600 HR: 2
NEWLASE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:3280 mg/kg KSRNAM 8,3080,74
scu-rat LD50:10,700 mg/kg KSRNAM 8,3080,74
ipr-mus LD50:3170 mg/kg KSRNAM 8,3080,74
scu-mus LD50:6350 mg/kg KSRNAM 8,3080,74
SAFETY PROFILE: Moderately toxic by intraperitoneal route.

NCQ820 CAS: 464-45-9 HR: 1
NGAI CAMPHOR
mf: $C_{10}H_{18}O$ mw: 154.28
PROP: Crystals from pet ether. Mp: 208−209°, bp: 212°.
SYNS: 1-2-BORNANOL ◻ (−)-BORNEOL ◻ (1S,2R,4S)-(−)-1-BORNEOL ◻ 1-BORNYL ALCOHOL ◻ 1-2-CAMPHANOL ◻ LINDEROL
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTXAV 16,637,78
orl-rat LD50:5800 mg/kg FCTXAV 16,637,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.

NCQ900 CAS: 581-12-4 HR: 3
(−)-NGAIONE
mf: $C_{15}H_{22}O_3$ mw: 250.37
SYNS: 1-(5-(3-FURYL)TETRAHYDRO-2-METHYL-2-FURYL)-4-METHYL-2-PENTANONE, (2R,5S)-(−) ◻ NGAIONE ◻ cis-NGAIONE ◻ 2-PENTANONE, 1-(5-(3-FURYL)-2-METHYL-TETRAHYDRO-2-FURYL)-4-METHYL- , (2R,5S)-(−)- ◻ 2-PENTANONE, 4-METHYL-1-(2,3,4,5-TETRAHYDRO-5-METHYL-(2,3'-BIFURAN)-5-YL)-, (2S-cis)- (9CI)
TOXICITY DATA with REFERENCE:
orl-rat LD50:350 mg/kg AJCHAS 23,107,70
ipr-rat LD50:153 mg/kg NONSYP 26(2),64,84
orl-mus LD50:280 mg/kg BJEPA5 53,242,72
ipr-mus LD50:188 mg/kg NONSYP 26(2),64,84
SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating vapors.

NCQ900 CAS: 59-67-6 HR: 3
NIACIN
mf: $C_6H_5NO_2$ mw: 123.12
PROP: The anti-pellagra vitamin. Colorless needles or white crystalline powder from water or alc; slt odor. Mp: 236°, subl above mp, d: 1.473. Sol in water and boiling alc; insol in most lipid solvents. Nonhygroscopic and stable in air.
SYNS: ACIDE NICOTINIQUE (FRENCH) ◻ ACIDUM NICOTINICUM ◻ AKOTIN ◻ ANTI-PELLAGRA VITAMIN ◻ APELAGRIN ◻ BIONIC ◻ 3-CARBOXYPYRIDINE ◻ DASKIL ◻ DAVITAMON PP ◻ DIREKTAN ◻ EFACIN ◻ NAH ◻ NAOTIN ◻ NICACID ◻ NICAMIN ◻ NICANGIN ◻ NICO ◻ NICO-400 ◻ NICOBID ◻ NICOCAP ◻ NICOCIDIN ◻ NICOCRISINA ◻ NICODAN ◻ NICODELMINE ◻ NICOLAR ◻ NICONACID ◻ NICONAT ◻ NICONAZID ◻ NICOROL ◻ NICOSIDE ◻ NICO-SPAN ◻ NICOSYL ◻ NICOTAMIN ◻ NICOTENE ◻ NICOTIL ◻ NICOTINE ACID ◻ NICOTINIC ACID ◻ NICOTINIPCA ◻ NICOTINOYL HYDRAZINE ◻ NICOTINSAEURE (GERMAN) ◻ NICOVASAN ◻ NICOVASEN ◻ NICOVEL ◻ NICYL ◻ NIPELLEN ◻ PELLAGRAMIN ◻ PELLAGRA PREVENTIVE FACTOR ◻ PELLAGRIN ◻ PELONIN ◻ PEVITON ◻ PP FACTOR ◻ P.P. FACTOR-PELLAGRA PREVENTIVE FACTOR ◻ PYRIDINE-3-CARBONIC ACID ◻ PYRIDINE-β-CARBOXYLIC ACID ◻ PYRIDINE-3-CARBOXYLIC ACID ◻ 3-PYRIDINE-CARBOXYLIC ACID ◻ PYRIDINE-CARBOXYLIQUE-3 (FRENCH) ◻ S115 ◻ SK-NIACIN ◻ TINIC ◻ VITAPLEX N ◻ WAMPOCAP
TOXICITY DATA with REFERENCE:
orl-mus TDLo:174 g/kg/94W-C:CAR ONCOBS 38,106,81
orl-man TDLo:2571 mg/kg/90D-I:BLD AIMDAP 152,861,92
orl-rat LD50:7000 mg/kg NIIRDN 6,544,82
ipr-rat LD50:730 mg/kg OYYAA2 14,741,77
scu-rat LD50:5000 mg/kg NIIRDN 6,544,82
ivn-rat LDLo:3500 mg/kg PSEBAA 38,241,38
orl-mus LD50:3720 mg/kg OYYAA2 7,149,73
ipr-mus LD50:358 mg/kg OYYAA2 14,741,77
scu-mus LD50:3500 mg/kg OYYAA2 14,741,77

ivn-mus LD50:5000 mg/kg THERAP 26,831,71
orl-rbt LD50:4550 mg/kg OYYAA2 14,741,77
ivn-gpg LDLo:3500 mg/kg PSEBAA 38,241,38
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion, intravenous, and subcutaneous routes. Human systemic effects: change in clotting factors, changes in platelet count. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

NCR000 CAS: 98-92-0 HR: 2
NIACINAMIDE
mf: $C_6H_6N_2O$ mw: 122.14
PROP: Colorless needles or white crystalline powder; odorless with a bitter taste. Mp: 129°, d: 1.40, bp: 150−160° @ 0.0005. Very sol in water, ether, glycerin.
SYNS: ACID AMIDE ◻ AMIDE PP ◻ AMINICOTIN ◻ AMIXICOTYN ◻ AMNICOTIN ◻ AUSTROVIT PP ◻ BENICOT ◻ DELONIN AMIDE ◻ DIPEGYL ◻ DIPIGYL ◻ ENDOBION ◻ FACTOR PP ◻ HANSAMID ◻ INOVITAN PP ◻ NAM ◻ NANDERVIT-N ◻ NIACEVIT ◻ NIAMIDE ◻ NICAMIDE ◻ NICAMINA ◻ NICAMINDON ◻ NICASIR ◻ NICOBION ◻ NICOFORT ◻ NICOGEN ◻ NICOMIDOL ◻ NICOSAN 2 ◻ NICOTA ◻ NICOTAMIDE ◻ NICOTILAMIDE ◻ NICOTILIL-AMIDO ◻ NICOTINE ACID AMIDE ◻ NICOTINIC ACID AMIDE ◻ NICOTINIC AMIDE ◻ NICOTINSAEUREAMID (GERMAN) ◻ NICOTOL ◻ NICOTYLAMIDE ◻ NICOVEL ◻ NICOVIT ◻ NICOVITOL ◻ NICOZYMIN ◻ NIKO-TAMIN ◻ NIKOTINSAEUREAMID (GERMAN) ◻ NIOCINAMIDE ◻ NIOZYMIN ◻ PELMIN ◻ PELMINE ◻ PELONIN AMIDE ◻ PP-FACTOR ◻ PYRIDINE-3-CARBOXYLIC ACID AMIDE ◻ 3-PYRIDINECARBOXYLIC ACID AMIDE ◻ VI-NICOTYL ◻ VI-NICTYL ◻ VITAMIN B3 ◻ VITAMIN PP ◻ WITAMINA PP
TOXICITY DATA with REFERENCE:
dni-rat:lvr 20 mmol/L JJIND8 69,1353,82
sce-ham:ovr 5 mmol/L MUREAV 126,63,84
orl-rat LD50:3500 mg/kg 85JCAE -,1390,86
scu-rat LD50:1680 mg/kg PSEBAA 62,19,46
orl-mus LD50:2500 mg/kg NIIRDN 6,545,82
ipr-mus LD50:2050 mg/kg RAREAE 109,479,87
scu-mus LD50:2 g/kg QJPPAL 19,48,46
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion, intravenous, intraperitoneal, and subcutaneous routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NCR025 HR: D
NIACINAMIDE ASCORBATE
PROP: Lemon yellow-colored powder; very slt odor. Mp: 141−145°. Sol in water, alc; sltly sol in chloroform, ether, glycerin; insol in benzene.
SYN: NIACINAMIDE ASCORBIC ACID COMPLEX
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

NCR040 CAS: 94-44-0 HR: 3
NIACIN BENZYL ESTER
mf: $C_{13}H_{11}NO_2$ mw: 213.25
SYNS: BENZYL NICOTINATE ◻ BENZYL PYRIDINE-3-CARBOXYLATE ◻ ESTRU BENZYLOWEGO KWASU NIKOTYNOWEGO ◻ NICOTINIC ACID, BENZYL ESTER ◻ PYCARIL ◻ PYKARYL ◻ 3-PYRIDINECARBOXYLIC ACID, PHENYLMETHYL ESTER ◻ RUBRIMENT
TOXICITY DATA with REFERENCE:
orl-rat LD50:2188 mg/kg BCTKAG 12,79,79
ivn-mus LD50:100 mg/kg PHARAT 11,242,56
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NCS000 CAS: 62765-93-9 HR: 3
NIAX CATALYST ESN
PROP: Mixture of 95% dimethylaminopropionitrile and 5% bis-dimethylaminoethyl ether (DCTODJ 2,223,79).
TOXICITY DATA with REFERENCE:
orl-rat LD50:2460 mg/kg DCTODJ 2,223,79
ipr-rat LDLo:2000 mg/kg JEPTDQ 4(2-3),555,80
skn-rbt LD50:445 mg/kg DCTODJ 2,223,79
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
NIOSH REL: (Niax ESN) Exposure to be minimized
SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and CN^-. See also 3-(DIMETHYLAMINO)PROPIONITRILE and BIS(2-DIMETHYLAMINOETHYL) ETHER.

NCT000 CAS: 25791-96-2 HR: 1
NIAX POLYOL LG-168
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 1/7/71
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NCT500 CAS: 100215-34-7 HR: 1
NIAX POLYOL LHT-42
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 4/29/69
orl-rat LD50:20 g/kg UCDS** 4/29/69
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.

NCV500 CAS: 102395-10-8 HR: 1
NIAX TRIOL 6000
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 6/15/71
orl-rat LD50:57 g/kg UCDS** 6/15/71
SAFETY PROFILE: Mildly toxic by ingestion. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NCW000 CAS: 550-99-2 HR: 3
NIAZOL
mf: $C_{14}H_{14}N_2$•ClH mw: 246.76
PROP: A solid. Mp: 255−260°. Sol in H_2O and EtOH; insol in C_6H_6 and Et_2O.
SYNS: ALBALON LIQUIFILM ◻ CLERA ◻ COLDAN ◻ 4,5-DIHYDRO-2-(1-NAPHTHALENYLMETHYL)-1H-IMIDAZOLE MONOHYDROCHLORIDE ◻ NAPHAZOLINE HYDROCHLORIDE ◻ NAPHCON ◻ NAPHCON FORTE ◻ 2-(1-NAPHTHYLMETHYL)IMIDAZOLINE HYDROCHLORIDE ◻ 2-(1-NAPHTHYLMETHYL)-2-IMIDAZOLINE HYDROCHLORIDE ◻ PRIVINE HYDROCHLORIDE ◻ PRIZOLE HYDROCHLORIDE ◻ RHINANTIN ◻ RHINOPERD ◻ SANORIN-SPOFA ◻ STRICYLON ◻ VASOCON
TOXICITY DATA with REFERENCE:
ipr-rat LD50:50 mg/kg JPETAB 86,284,46
scu-rat LD50:200 mg/kg SMWOAS 71,554,41
scu-mus LD50:170 mg/kg JPETAB 86,280,46
ipr-mus LD50:87,800 µg/kg JOPHDQ 9,395,86
ivn-mus LD50:16,500 µg/kg JPETAB 113,341,55
orl-rbt LD50:50 mg/kg SMWOAS 71,554,41
scu-rbt LD50:4 mg/kg SMWOAS 71,554,41
ivn-rbt LD50:800 µg/kg JPETAB 86,284,46
ims-rbt LD50:950 µg/kg JPETAB 86,284,46
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, intravenous, and intramuscular routes. An FDA over-the-counter and proprietary drug. When heated to decomposition it emits very toxic fumes of NO_x and HCl.

NCW100 CAS: 330-95-0 HR: D
NICARBAZIN
mf: $C_{13}H_{10}N_4O_5$•$C_6H_8N_2O$ mw: 426.43
PROP: Crystals. Decomp 265−275°. Insol in water.
SYNS: N,N'-BIS(4-NITROPHENYL)UREA compd. with 4,6-DIMETHYL-2-PYRIMIDINOL (1:1) ◻ MK 75 ◻ NICARB ◻ NICARBAZINE ◻ NICOXIN ◻ NICRAZIN ◻ NICRAZINE ◻ NIRAZIN ◻ UREA, N,N'-BIS(4-NITROPHENYL)-, compd. with 4,6-DIMETHYL-2(1H)-PYRIMIDINONE (1:1) (9CI)
TOXICITY DATA with REFERENCE:
mmo-sat 5 mg/plate MUREAV 77,21,80
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

NCW300 CAS: 5868-05-3 HR: 1
NICERITROL
mf: $C_{29}H_{24}N_4O_8$ mw: 556.57
PROP: Crystals. Mp: 160−164°.
SYNS: 2,2-BIS(((3-PYRIDINYLCARBONYL)OXY)METHYL)-1,3-PROPANEDIYL ESTER of 3-PYRIDINECARBOXYLIC ACID ◻ BURFOR ◻ CARDIOLIPOL ◻ PENTAERYTHRITOL TETRANICOTINATE ◻ PERYCIT ◻ SK 1
TOXICITY DATA with REFERENCE:
orl-rat LD50:20 g/kg NIIRDN 6,546,82
ipr-rat LD50:5000 mg/kg NIIRDN 6,546,82
scu-rat LD50:5000 mg/kg NIIRDN 6,546,82
orl-mus LD50:20 g/kg NIIRDN 6,546,82
ipr-mus LD50:5000 mg/kg NIIRDN 6,546,82
scu-mus LD50:5000 mg/kg NIIRDN 6,546,82
ipr-rbt LD50:5000 mg/kg NIIRDN 6,546,82
SAFETY PROFILE: Mildly toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS.

NCW500 CAS: 7440-02-0 HR: 3
NICKEL
af: Ni aw: 58.71
PROP: A silvery-white, hard, malleable, and ductile metal. Crystallizes as metallic cubes. D: 8.90 @ 25°, vap press: 1 mm @ 1810°, mp: 1455°, bp: 2920°. Stable in air at room temp. IDLH 10 mg/m^3 (as Ni).
SYNS: C.I. 77775 ◻ Ni 270 ◻ NICHEL (ITALIAN) ◻ NICKEL 270 ◻ NICKEL (DUST) ◻ NICKEL PARTICLES ◻ NICKEL SPONGE ◻ Ni 0901-S ◻ Ni 4303T ◻ NP 2 ◻ RANEY ALLOY ◻ RANEY NICKEL
TOXICITY DATA with REFERENCE:
otr-ham:kdy 400 mg/L IAPUDO 53,193,84
otr-ham:emb 5 µmol/L TOXID9 1,132,81
par-rat TDLo:40 mg/kg/52W-I:ETA,TER AEHLAU 5,445,62
imp-rbt TDLo:165 mg/kg/2Y-I:NEO,TER JNCIAM 16,55,55
orl-rat LDLo:5 g/kg FDRLI* 7684D,83
itr-rat LDLo:12 mg/kg NTIS** AEC-TR-6710
ivn-mus LDLo:50 mg/kg FATOAO 23,549,60
ivn-dog LDLo:10 mg/kg 14CYAT 2,1120,63
scu-rat LDLo:12,500 µg/kg NTIS** PB158-508
ipr-rbt LDLo:7 mg/kg NTIS** PB158-508
scu-rbt LDLo:7500 µg/kg NTIS** PB158-508
orl-gpg LDLo:5 mg/kg AMPMAR 25,247,64
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 7,264,87; Animal Sufficient Evidence IMEMDT 11,75,76; Animal Inadequate Evidence IMEMDT 2,126,73. Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA Soluble Compounds: 0.1 mg(Ni)/m^3; Insoluble Compounds: 1 mg(Ni)/m^3
ACGIH TLV: TWA 0.1 mg(Ni)/m^3; Not Suspected as a Human Carcinogen
DFG MAK: DFG TRK: Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by ingestion, intratracheal, intraperitoneal, subcutaneous, and intravenous routes. An experimental teratogen. Ingestion of soluble salts causes nausea, vomiting, and diarrhea. Mutation data reported. Hypersensitivity to nickel is common and can cause allergic contact dermatitis, pulmonary asthma, conjunctivitis, and inflammatory reactions around nickel-containing medical implants and prostheses. Powders may ignite spontaneously in air. Reacts violently with F_2, NH_4NO_3, hydrazine, NH_3, (H_2 + dioxane), performic acid, P, Se, S, (Ti + $KClO_3$). Incompatible with oxidants (e.g., bromine pentafluoride, peroxyformic acid, potassium perchlorate, chlorine, nitryl fluoride, ammonium nitrate), Raney-nickel catalysts may initiate hazardous reactions with ethylene + aluminum chloride, p-dioxane, hydrogen, hydrogen + oxygen, magnesium silicate, methanol, organic

solvents + heat, sulfur compounds. Nickel catalysts have caused many industrial accidents.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-125G or NIOSH: Elements (ICP), 7300; Metals in Urine (ICP), 8310.

NCX000 CAS: 373-02-4 HR: 3
NICKEL(II) ACETATE (1:2)
mf: $C_4H_6O_4$•Ni mw: 176.81
PROP: Green prisms or hygroscopic green powder. Mp: decomp, d: 1.798. IDLH 10 mg/m^3 (as Ni).
SYNS: ACETIC ACID, NICKEL(2+) SALT ◻ NICKELOUS ACETATE
TOXICITY DATA with REFERENCE:
pic-esc 160 µmol/L ENMUDM 6,59,84
dns-rat-ipr 129 µmol/kg/5D-I CRNGDP 6,1819,85
otr-ham:kdy 225 mg/L IAPUDO 53,193,84
orl-rat LD50:350 mg/kg PWPSA8 11,39,68
ipr-rat LD50:23 mg/kg PWPSA8 11,39,68
orl-mus LD50:410 mg/kg PWPSA8 11,39,68
ipr-mus LD50:32 mg/kg PWPSA8 11,39,68
scu-gpg LDLo:20 mg/kg JOHYAY 8,565,08
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 7,264,87. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen with experimental neoplastigenic and tumorigenic data. Poison by ingestion, intraperitoneal, and subcutaneous routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits irritating fumes. See also NICKEL COMPOUNDS.

NCX500 CAS: 6018-89-9 HR: 3
NICKEL ACETATE TETRAHYDRATE
mf: $C_4H_6O_4$•Ni•$4H_2O$ mw: 248.89
PROP: Green crystals. Sol in H_2O and alcohols. IDLH 10 mg/m^3 (as Ni).
SYNS: ACETIC ACID, NICKEL(+2) SALT, TETRAHYDRATE ◻ NICKEL(II) ACETATE TETRAHYDRATE ◻ NICKEL DIACETATE TETRAHYDRATE ◻ NICKELOUS ACETATE TETRAHYDRATE
TOXICITY DATA with REFERENCE:
cyt-mus:mmr 100 µmol/L MUREAV 68,337,79
orl-rat LD50:350 mg/kg YAKUD5 22,455,80
orl-mus LD50:410 mg/kg YAKUD5 22,455,80
ipr-mus LD50:45,700 µg/kg RCOCB8 30,133,80
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen. Poison by ingestion and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also NICKEL(II) ACETATE and NICKEL COMPOUNDS.

NCX510 CAS: 37227-61-5 HR: 3
NICKEL ALLOY, Ni,Be
PROP: IDLH 10 mg/m^3 (as Ni).
SYN: BERYLLIUM-NICKEL ALLOY
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 58,41,93; Human Sufficient Evidence IMEMDT 58,41,93; Animal Sufficient Evidence IMEMDT 1,17,72; Animal Sufficient Evidence IMEMDT 23,143,80; Animal Sufficient Evidence IMEMDT 58,41,93. Nickel and its compounds, as well as beryllium and its compounds, are on the Community Right-To-Know List.
OSHA PEL: TWA 0.002 mg(Be)/m^3; STEL 0.005/30M; CL 0.025 mg/m^3; 1 mg(Ni)/m^3
ACGIH TLV: TWA 0.002 mg(Be)/m^3; Confirmed Human Carcinogen; (Proposed: TWA 0.0002 mg(Be)/m^3 (sensitizer); Confirmed Human Carcinogen
NIOSH REL: (Beryllium): not to exceed 0.0005 mg(Be)/m^3; (Nickel, Inorganic): TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen. See also NICKEL COMPOUNDS and BERYLLIUM COMPOUNDS.

NCX515 CAS: 12605-70-8 HR: 3
NICKEL ALLOY, BASE, Ni 57–62, Fe 22–28, Cr 14–18, Si 0.8–1.6, Mn 0–1, C 0–0.2
PROP: IDLH 10 mg/m^3 (as Ni).
SYNS: ASTM B344-60NI, 16CR ◻ CHROMEL C ◻ NICHROME ◻ TOPHET C
CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90; Human Inadequate Evidence IMEMDT 49,257,90.
ACGIH TLV: TWA 1 mg(Ni)/m^3
SAFETY PROFILE: Suspected carcinogen. When heated to decomposition it emits toxic vapors of Ni, Cr, and Mn.

NCX525 CAS: 11105-19-4 HR: 3
NICKEL ALLOY, BASE, Ni 63–70, Cu 25–37, Fe 0–2.5, Mn 0–2, Si 0–0.5, C 0–0.3
PROP: IDLH 10 mg/m^3 (as Ni).
SYNS: ALLOY 400 ◻ ASTM B127 ◻ ASTM B164-A ◻ H3261 ◻ MONEL 400
CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90; Human Inadequate Evidence IMEMDT 49,257,90
ACGIH TLV: TWA 1 mg(Ni)/m^3.
SAFETY PROFILE: Suspected carcinogen. When heated to decomposition it emits toxic vapors of Ni, Mn, Cu, and Fe.

NCY050 CAS: 15699-18-0 HR: 3
NICKEL AMMONIUM SULFATE
mf: O_8S_2•Ni•$2H_4N$ mw: 286.93
PROP: Crystals. IDLH 10 mg/m^3 (as Ni).

SYNS: AMMONIUM DISULFATONICKELATE(II) ☐ AMMONIUM NICKEL SULFATE ☐ SULFURIC ACID, AMMONIUM NICKEL(2+) SALT (2:2:1)

TOXICITY DATA with REFERENCE:
orl-rat LD50:400 mg/kg FDRLI* 8005A,84

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 1 mg(Ni)/m^3

ACGIH TLV: TWA 1 mg(Ni)/m^3; Not Classifiable as a Human Carcinogen

SAFETY PROFILE: Confirmed human carcinogen. Poison by ingestion. When heated to decomposition it emits toxic fumes of NO_x, SO_x, and Ni.

NCY051 CAS: 25749-08-0 HR: 3
NICKEL AMMONIUM SULFATE
mf: $O_{12}S_3$•$2H_4N$•2Ni mw: 427.69

PROP: Bluish-green crystals, somewhat efflorescent. Sol in water. Insol in alcohol. IDLH 10 mg/m^3 (as Ni).

SYN: SULFURIC ACID, AMMONIUM NICKEL^{2+} SALT (3:2:2)

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90.

ACGIH TLV: TWA 0.1 mg(Ni)/m^3; Not Classifiable as a Carcinogen

SAFETY PROFILE: Confirmed human carcinogen. When heated to decomposition it emits toxic vapors of SO_x, NO_x, and Ni.

NCY060 CAS: 7785-20-8 HR: 3
NICKEL AMMONIUM SULFATE HEXAHYDRATE
mf: O_8S_2•$2H_4N$•$6H_2O$•Ni mw: 301.04

PROP: Blue-green crystals with no odor. Sol in water. IDLH 10 mg/m^3 (as Ni).

SYNS: AMMONIUM NICKEL^{2+} SULFATE HEXAHYDRATE ☐ DIAMMONIUM NICKEL DISULFATE HEXAHYDRATE ☐ NICKEL DIAMMONIUM DISULFATE HEXAHYDRATE ☐ SULFURIC ACID, AMMONIUM NICKEL^{2+} SALT (2:2:1), HEXAHYDRATE

TOXICITY DATA with REFERENCE:
orl-rat LD50:399 mg/kg JACTDZ 1,694,92

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90.

ACGIH TLV: TWA 0.1 mg(Ni)/m^3; Not Classifiable as a Carcinogen

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

NCY100 CAS: 12035-52-8 HR: 3
NICKEL ANTIMONIDE
mf: NiSb mw: 180.46

PROP: Light copper-red solid. Mp: 1158°. IDLH 10 mg/m^3 (as Ni).

SYNS: ANTIMONY, compounded with NICKEL (1:1) ☐ NICKEL MONOANTIMONIDE

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90. Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 1 mg(Ni)/m^3

SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Ni and Sb.

NCY110 CAS: 27016-75-7 HR: 3
NICKEL ARSENIDE
mf: AsNi mw: 133.63

PROP: Copper-red to pink metallic opaque crystals. D: 7.8. IDLH 10 mg/m^3 (as Ni).

SYN: NICKEL MONOARSENIDE

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90. Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 0.01 mg/m^3; Confirmed Human Carcinogen; BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine; TWA 1 mg(Ni)/m^3

SAFETY PROFILE: Confirmed human carcinogen. When heated to decomposition it emits toxic vapors of nickel and arsenic.

NCY125 CAS: 12255-10-6 HR: 3
NICKEL ARSENIDE SULFIDE
mf: AsNiS mw: 165.69

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

SYN: NICKEL SULFARSENIDE

CONSENSUS REPORTS: NTP 10th Report on Carcinogens.

OSHA PEL: OSHA: Cancer Hazard

ACGIH TLV: TWA 0.01 mg/m^3; Confirmed Human Carcinogen; BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine; TLV: TWA 1 mg(Ni)/m^3

SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic and neoplastigenic data. When heated to decomposition it emits toxic fumes of Ni, As, and SO_x.

NCY135 CAS: 11068-91-0 HR: 3
NICKEL-BASED COBALT ALLOY

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

SYNS: APK 1 ☐ ASTROLOY ☐ CABOT 700 ☐ NICKEL ALLOY, Ni 47−59, Co 17−20, Cr 13−17, Mo 4.5−5.7, Al 3.7−4.7, Ti 3−4, Fe 0−1, C 0−0.1 (AISI 687) ☐ NIMONIC AP1 ☐ PM-ATS 380 ☐ PWA 1013 ☐ R 77 ☐ RENE 77 ☐ U 700 ☐ UDIMET 700 ☐ U700PM

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 52,363,91; Human Inadequate Evidence IMEMDT 52,363,91.

ACGIH TLV: TWA 1 mg(Ni)/m^3

SAFETY PROFILE: Suspected carcinogen. When heated to decomposition it emits toxic vapors of Ni, Co, Cr, Mo, and Ti.

NCY500 CAS: 3333-67-3 HR: 3
NICKEL(II) CARBONATE (1:1)
mf: $CNiO_3$ mw: 118.72

PROP: Rhombic, light-green crystals or solid. Mp: decomp. IDLH 10 mg/m^3 (as Ni).

SYNS: BASIC NICKEL CARBONATE □ CARBONIC ACID, NICKEL SALT (1:1) □ C.I. 77779 □ NICKELOUS CARBONATE

TOXICITY DATA with REFERENCE:
dnd-rat-ipr 10 mg/kg/3H CNREA8 42,3544,82
oms-rat-ipr 40 mg/kg CNREA8 44,3892,84
sce-ham:ovr 400 nmol/L ENMUDM 7,381,85
scu-gpg LDLo:32 mg/kg JOHYAY 8,565,08

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 7,264,87; Animal Sufficient Evidence IMEMDT 11,75,76. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 1 mg(Ni)/m^3

ACGIH TLV: TWA 1 mg(Ni)/m^3; Not Classifiable as a Human Carcinogen

DFG MAK: DFG TRK: 0.5 mg/m^3; Human Carcinogen

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

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Poison by subcutaneous route. Mutation data reported. See also NICKEL COMPOUNDS.

NCY525 CAS: 12122-15-5 HR: 3
NICKEL CARBONATE HYDROXIDE
mf: $C_2H_6Ni_5O_{12}$ mw: 515.63

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

SYNS: NICKEL, BIS(CARBONATO(2-))HEXAHYDROXY PENTA- □ NICKEL HYDROXYCARBONATE

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90.

SAFETY PROFILE: Confirmed human carcinogen. When heated to decomposition it emits toxic vapors of Ni.

NCY530 CAS: 39430-27-8 HR: 3
NICKEL CARBONATE HYDROXIDE
mf: $CH_4Ni_3O_7$•$4H_2O$ mw: 376.26

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

SYNS: BASIC NICKEL CARBONATE TETRAHYDRATE □ NICKEL, (CARBONATO(2-))TETRAHYDROXYTRI-, TETRAHYDRATE

TOXICITY DATA with REFERENCE:
sce-ham-ovr 400 nmol/L ENMUDM 7,381,85
orl-rat LD50:840 mg/kg FDRLI* 7702E,83

CONSENSUS REPORTS: NTP 10th Report on Carcinogens.

SAFETY PROFILE: Confirmed human carcinogen. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of Ni.

NCY600 CAS: 12607-70-4 HR: 3
NICKEL CARBONATE HYDROXIDE
mf: $CH_4Ni_3O_7$ mw: 304.18

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

SYNS: BASIC NICKEL(II) CARBONATE □ CARBONIC ACID, NICKEL SALT, BASIC □ NICKEL, (CARBONATO(2-))TETRA-HYDROXYTRI-

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed human carcinogen. When heated to decomposition it emits toxic vapors of nickel.

NCZ000 CAS: 13463-39-3 HR: 3
NICKEL CARBONYL
DOT: UN 1259
mf: C_4NiO_4 mw: 170.75
$Ni(CO)_4$

PROP: Colorless, volatile liquid or needles; oxidizes in air. Mp: −19.3°, bp: 43°, lel: 2% @ 20°, d: 1.3185 @ 17°, vap press: 400 mm @ 25.8°, flash p: <−4°. Oxidizes in air. Sol in alc, benzene, chloroform, acetone, and carbon tetrachloride. IDLH 10 mg/m^3 (as Ni).

SYNS: NICHEL TETRACARBONILE (ITALIAN) □ NICKEL CARBONYLE (FRENCH) □ NICKEL TETRACARBONYL □ NICKEL TETRACARBONYLE (FRENCH) □ NIKKELTETRA-CARBONYL (DUTCH) □ RCRA WASTE NUMBER P073 □ TETRACARBONYL NICKEL

TOXICITY DATA with REFERENCE:
ihl-hmn TCLo:7 mg/m^3:CNS GISAAA 22(11),30,57
ihl-hmn LCLo:30 ppm/30M AEHLAU 23,373,71
ihl-rat LC50:35 ppm/30M AJCPAI 26,107,56
ipr-rat LD50:39 mg/kg AEHLAU 14,604,67

scu-rat LD50:63 mg/kg AEHLAU 14,604,67
ivn-rat LD50:66 mg/kg AEHLAU 14,604,67
ihl-mus LC50:67 mg/m^3/30M AMIHBC 8,48,53
ihl-dog LCLo:360 ppm/90M JOHYAY 7,525,07
ihl-cat LC50:1890 mg/m^3/30M EQSSDX 1,1,75
ihl-rbt LCLo:300 mg/m^3/30M YAKUD5 22,455,80

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Sufficient Evidence IMEMDT 7,264,87; Animal Limited Evidence IMEMDT 49,257,90. EPA Extremely Hazardous Substances List. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.001 ppm (Ni)

ACGIH TLV: TWA 0.05 mg(Ni)/m^3

DFG MAK: DFG TRK: Animal Carcinogen, Suspected Human Carcinogen

NIOSH REL: (Nickel Carbonyl) TWA 0.001 ppm

DOT CLASSIFICATION: 6.1; Label: Poison, Flammable Liquid

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. A human poison by inhalation. Poison experimentally by inhalation, intravenous, subcutaneous, and intraperitoneal routes. An experimental teratogen. Other experimental reproductive effects. Human systemic effects by inhalation: somnolence, fever, and other pulmonary changes. Vapors may cause coughing, dyspnea (difficult breathing), irritation, congestion and edema of the lungs, tachycardia (rapid pulse), cyanosis, headache, dizziness, and weakness. Toxicity by inhalation is believed to be caused by both the nickel and carbon monoxide liberated in the lungs. Chronic exposure may cause cancer

of lungs, nasal sinuses. Sensitization dermatitis is fairly common. Probably the most hazardous compound of nickel in the workplace. A common air contaminant. It is lipid soluble and can cross biological membranes (e.g., lung alveolus, blood-brain barrier, placental barrier).

A very dangerous fire hazard when exposed to heat, flame, or oxidizers. Moderate explosion hazard when exposed to heat or flame. Explodes when heated to about 60°. Explosive reaction with liquid bromine, mercury + oxygen, oxygen + butane. Violent reaction with dinitrogen tetraoxide, air, oxygen. Reacts with tetrachloropropadiene to form the extremely sensitive explosive dicarbonyl trichloropropenyl dinickel chloride dimer. Can react with oxidizing materials. To fight fire, use water, foam, CO_2, dry chemical. When heated to decomposition or on contact with acid or acid fumes, it emits highly toxic fumes of carbon monoxide. See also NICKEL COMPOUNDS and CARBONYLS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Nickel Carbonyl, 6007.

NDA000 CAS: 7791-20-0 HR: 3
NICKEL(II) CHLORIDE HEXAHYDRATE (1:2:6)
mf: $Cl_2Ni•6H_2O$ mw: 237.73

PROP: A: Yellow, deliq scales; b: monoclinic, green crystals. A: $NiCl_2$; b: $NiCl_2•6H_2O$; mw (a): 129.60, mw (b): 237.70, mp (a): subl, bp (a): 987°, d (a): 3.55, vap press: 1 mm @ 671°. Sol in water. IDLH 10 mg/m^3 (as Ni).

TOXICITY DATA with REFERENCE:
cyt-mus:mmr 100 µmol/L MUREAV 68,337,79
sce-ham:fbr 32 mg/L MUREAV 104,141,82
orl-rat TDLo:1670 mg/kg (female 11D post)-1D post-birth:REP ENVRAL 61,200,93
orl-rat LD50:157 mg/kg JACTDZ 1,683,92
ipr-mus LD50:48 mg/kg AEPPAE 244,17,62
ivn-dog LD50:40 mg/kg EQSSDX 1,1,75

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

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

ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen

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

SAFETY PROFILE: Confirmed human carcinogen. Poison by intraperitoneal and intravenous routes. Experimental reproductive effects. Mutation data reported. Violent reaction with potassium. When heated to decomposition it emits very toxic fumes of Cl^-. See also NICKEL COMPOUNDS and CHLORIDES.

NDA100 CAS: 12018-18-7 HR: 3
NICKEL CHROMATE
mf: Cr_2NiO_4 mw: 226.71

PROP: Blue white to steel gray color solid. Mp 1903°. bp: 2642°. Insol in water. IDLH 10 mg/m^3 (as Ni).

SYNS: CHROMIUM NICKEL OXIDE ◻ NICKEL CHROMITE ◻ NICKEL CHROMIUM OXIDE

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 3 IMEMDT 49,49,90; Animal Inadequate Evidence IMEMDT 49,49,90; Human Inadequate Evidence IMEMDT 49,49,90. Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 0.1 mg(Ni)/m^3; Not Classifiable as a Human Carcinogen

SAFETY PROFILE: Confirmed human carcinogen. When heated to decomposition it emits toxic vapors of nickel and Cr^-.

NDA500 CAS: 1271-28-9 HR: 3
NICKEL, COMPOUND with pi-CYCLOPENTADIENYL (1:2)
mf: $C_{10}H_{10}•Ni$ mw: 188.91

PROP: Dark-green needles from pet ether. Mp: 171−173°. IDLH 10 mg/m^3 (as Ni).

SYNS: pi-CYCLOPENTADIENYL COMPOUND with NICKEL ◻ DI-pi-CYCLOPENTADIENYLNICKEL ◻ NICKEL BISCYCLO-PENTADIENE ◻ NICKELOCENE

TOXICITY DATA with REFERENCE:
ims-rat TDLo:600 mg/kg/52W-I:NEO NCIBR* PH43-64-886,DEC65
ims-rat TD:50 mg/kg:ETA NCIUS* PH-43-64-886,SEPT,65
orl-rat LD50:490 mg/kg PWPSA8 11,39,68
ipr-rat LD50:50 mg/kg NCIBR* PH43-64-886,JAN65
ims-rat LD50:82 mg/kg NCIBR* PH43-64-886,AUG64
orl-mus LD50:600 mg/kg PWPSA8 11,39,68
ipr-mus LD50:86 mg/kg PWPSA8 11,39,68

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 7,264,87; Animal Sufficient Evidence IMEMDT 11,75,76; Animal Inadequate Evidence IMEMDT 2,126,73. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by intraperitoneal and intramuscular routes. Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. See also NICKEL COMPOUNDS.

NDB000 HR: 3
NICKEL COMPOUNDS

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

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

OSHA PEL: TWA Soluble: Compounds: 0.1 mg(Ni)/m^3; Insoluble Compounds: 1 mg(Ni)/m^3

ACGIH TLV: (insoluble) TWA 0.05 mg(Ni)/m^3; Human Carcinogen; (soluble) TWA 0.1 mg/m^3;; Not Classifiable as a Carcinogen

DFG MAK: Human Carcinogen

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

SAFETY PROFILE: Many are human carcinogens by inhalation. Nickel and many of its compounds are poisons and carcinogens. All airborne nickel contaminating dusts are regarded as carcinogenic by inhalation. Nickel carbonyl is probably the most hazardous compound of nickel in the workplace. It is carcinogenic and highly irritating to the lungs and can produce asphyxia by decomposing to form carbon monoxide. Nickel chloride ($NiCl_2$), sulfate

($NiSO_4 \bullet 6H_2O$), nitrate [$Ni(NO_3)_2 \bullet 6H_2O$], carbonate ($NiCO_3$), hydroxide [$Ni(OH)_2$], and acetate [$Ni(COOCH_3)_2$] are the salts of greatest commercial importance.

Ingestion of large doses of nickel compounds (1−3 mg/kg) has been shown to cause intestinal disorders, convulsions, and asphyxia. Hypersensitivity to nickel is common and can cause allergic contact dermatitis, pulmonary asthma, conjunctivitis, and inflammatory reactions around nickel-containing medical implants and prostheses. The most common effect resulting from exposure to nickel compounds is the development of "nickel itch." It occurs primarily in persons doing nickel-plating and is most frequent under conditions of high temperature and humidity, when the skin is moist, and mainly affects the hands and arms. There is marked variation in individual susceptibility to the dermatitis.

Nickel refinery workers experience increased mortality rates from cancer of the lungs and nasal cavities attributed to inhalation of airborne nickel compounds. Cancer develops in rodents after administration of Ni_3S_2, NiO, and $Ni(CO)_4$. Nickel chloride, sulfate, carbonate, and carbonyl are experimental teratogens.

Pulmonary damage develops in rodents chronically exposed to aerosols of nickel dust, $NiCl_2$, or NiO. Divalent nickel salts cause hyperglycemia, immune system effects, kidney damage, liver damage, and heart effects in experimental animals by parenteral administration. These compounds are common air contaminants. See also NICKEL and specific compounds.

NDB500 CAS: 557-19-7 HR: 3
NICKEL CYANIDE (solid)
DOT: UN 1653
mf: C_2N_2Ni mw: 110.75
PROP: Apple-green plates or powder. Sol in MeOAc. IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL CYANIDE (DOT) □ RCRA WASTE NUMBER P074
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Cyanide and its compounds, as well as nickel and its compounds, are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Confirmed human carcinogen. A poison. Incandescent reaction when heated with magnesium. When heated to decomposition it emits very toxic fumes of CN^-. See also CYANIDE and NICKEL COMPOUNDS.

NDB875 CAS: 12035-51-7 HR: 3
NICKEL DISULFIDE
mf: NiS_2 mw: 122.83
PROP: Dark iron gray solid. IDLH 10 mg/m^3 (as Ni).
SYN: NICKEL SULFIDE
TOXICITY DATA with REFERENCE:
ims-rat TDLo:117 mg/kg:CAR IAPUDO 53,127,84
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Sufficient Evidence IMEMDT 49,257,90.
ACGIH TLV: TWA 0.1 mg(Ni)/m^3; Not Classifiable as a Carcinogen
SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic and neoplastigenic data. When heated to decomposition it emits toxic fumes of SO_x.

NDC000 CAS: 14708-14-6 HR: 3
NICKEL(II) FLUOBORATE
mf: $B_2F_8 \bullet Ni$ mw: 232.33
PROP: Green crystals from $6H_2O$. Sol in H_2O and EtOH. IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL BOROFLUORIDE □ NICKEL FLUOROBORATE □ NICKELOUS TETRAFLUOROBORATE □ NICKEL(II) TETRAFLUOROBORATE □ TL 1091
TOXICITY DATA with REFERENCE:
orl-rat LDLo:500 mg/kg NCNSA6 5,28,53
ihl-mus LCLo:530 mg/m^3/10M NDRC** No. 9-4-1-19,44
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg (Ni)/m^3; TWA 2.5 mg(F)/m^3; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen. Moderately toxic by ingestion and inhalation. When heated to decomposition it emits very toxic fumes of F^-. See also FLUORIDES, BORON, and NICKEL COMPOUNDS.

NDC500 CAS: 10028-18-9 HR: 3
NICKEL(II) FLUORIDE (1:2)
mf: F_2Ni mw: 96.71
PROP: Green tetragonal crystals or light brown-green prisms or light yellow powder; inert to conc acids. D: 4.63. Sltly water-sol; decomp by boiling water; insol in alc, ether. IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL DIFLUORIDE □ NICKELOUS FLUORIDE
TOXICITY DATA with REFERENCE:
mnt-mus-ipr 4 mg/kg/24H-I NULSAK 29,132,86
cyt-mus-orl 4 mg/kg NULSAK 29,132,86
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg (Ni)/m^3; TWA 2.5 mg(F)/m^3; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: NTP 10th Report on Carcinogens. Reacts violently with potassium. Chronic exposure may cause mottling of teeth, changes in bones.

Mutation data reported. When heated to decomposition it emits toxic fumes of F^-. See also FLUORIDES and NICKEL COMPOUNDS.

NDD000 CAS: 26043-11-8 HR: 3
NICKEL(II) FLUOSILICATE (1:1)
mf: $F_6Si{\bullet}Ni$ mw: 200.80
PROP: IDLH 10 mg/m^3 (as Ni).
SYN: HEXAFLUOROSILICATE (2−), NICKEL
TOXICITY DATA with REFERENCE:
orl-rat LDLo:100 mg/kg NCNSA6 5,28,53
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 1 mg(Ni)/m^3; Not Classifiable as a Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen. Poison by ingestion. When heated to decomposition it emits toxic fumes of F^-. See also NICKEL COMPOUNDS.

NDD500 CAS: 56668-59-8 HR: 3
NICKEL-GALLIUM ALLOY
PROP: Alloy of nickel (60%) and gallium (40%) (JDREAF 29,1023,60).
PROP: IDLH 10 mg/m^3 (as Ni).
SYN: GALLIUM-NICKEL ALLOY
CONSENSUS REPORTS: Nickel and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 1 mg(Ni)/m^3
ACGIH TLV: TWA 1 mg(Ni)/m^3; Not Classifiable as a Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Suspected carcinogen with experimental tumorigenic data. See also NICKEL COMPOUNDS and GALLIUM COMPOUNDS.

NDE000 CAS: 12054-48-7 HR: 3
NICKEL(II) HYDROXIDE
mf: H_2NiO_2 mw: 92.73
PROP: Light-green crystals or amorphous. IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL DIHYDROXIDE □ NICKELOUS HYDROXIDE
TOXICITY DATA with REFERENCE:
ims-rat TDLo:480 µg/kg:CAR CRNGDP 4,275,83
orl-rat LD50:1515 mg/kg JACTDZ 1,684,92
scu-mus LD50:50 mg/kg ZVKOA6 19,186,74
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 7,264,87; Animal Sufficient Evidence IMEMDT 11,75,76. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Poison by subcutaneous route. See also NICKEL COMPOUNDS.

NDE010 CAS: 12125-56-3 HR: 3
NICKEL(III) HYDROXIDE
mf: H_3NiO_3 mw: 109.74
PROP: IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL BLACK □ NICKELIC HYDROXIDE
TOXICITY DATA with REFERENCE:
scu-mus LD50:25 mg/kg ZVKOA6 19,186,74
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Sufficient Evidence IMEMDT 11,75,76.
OSHA PEL: TWA 1 mg(Ni)/m^3
ACGIH TLV: TWA 0.05 mg(Ni)/m^3; Confirmed Carcinogen
NIOSH REL: (NICKEL, INORGANIC) 10H TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen. Poison by intravenous route. When heated to decomposition it emits toxic fumes of Ni.

NDE030 CAS: 1303-13-5 HR: 3
NICKELINE
mf: AsNi mw: 133.63
PROP: Lead grey, metallic luster. IDLH 10 mg/m^3 (as Ni).
SYN: NICCOLITE (8CI)
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90.
SAFETY PROFILE: Confirmed human carcinogen. When heated to decomposition it emits toxic vapors of Ni and As.

NDE500 CAS: 59978-65-3 HR: 3
NICKEL IRON SULFIDE
mf: $FeNi_4S_4$ mw: 418.93
PROP: Closely related to pyrite but contains up to 20% nickel. IDLH 10 mg/m^3 (as Ni).
SYNS: IRON NICKEL SULFIDE □ NICKEL-IRON SULFIDE MATTE
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 1 mg(Ni)/m^3
ACGIH TLV: TWA 1 mg(Ni)/m^3; Not Classifiable as a Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic and neoplastigenic data. When heated to decomposition it emits toxic fumes of SO_x. See also NICKEL COMPOUNDS, SULFIDES, and IRON COMPOUNDS.

NDF000 CAS: 74203-45-5 HR: 3
NICKEL(II) ISODECYL ORTHOPHOSPHATE (3:2)
PROP: IDLH 10 mg/m^3 (as Ni).
SYN: PHOSPHORIC ACID, ISODECYL NICKEL(2+) SALT (2:3)
TOXICITY DATA with REFERENCE:
ipr-rat LD50:400 mg/kg NCIUS* PH 43-64-886,JUL,68
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List.
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen with experimental neoplastigenic and tumorigenic data. Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of PO_x. See also NICKEL COMPOUNDS.

NDF400 CAS: 1314-05-2 HR: 3
NICKEL MONOSELENIDE
mf: NiSe mw: 137.67
PROP: White-gray solid. Insol in H_2O, many acids; sol in HNO_3, aqua regia. IDLH 10 mg/m^3 (as Ni).
SYN: NICKEL SELENIDE
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90.
ACGIH TLV: TWA 1 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic data.

NDF500 CAS: 1313-99-1 HR: 3
NICKEL MONOXIDE
mf: NiO mw: 74.71
PROP: Cubic, green-black crystals; yellow when hot. Mp: 1984°, d: 7.45. Insol in water; sol in acids, NH_3 (aq). IDLH 10 mg/m^3 (as Ni).
SYNS: BUNSENITE □ C.I. 77777 □ GREEN NICKEL OXIDE □ NICKELOUS OXIDE □ NICKEL OXIDE (MAK) □ NICKEL(II) OXIDE (1:1) □ NICKEL PROTOXIDE
TOXICITY DATA with REFERENCE:
otr-mus:emb 500 µmol/L PAACA3 24,100,83
otr-ham:kdy 100 mg/L IAPUDO 53,193,84
orl-rat LDLo:5 g/kg FDRLI* 7684B,83
itr-rat LDLo:20 mg/kg NTIS** AEC-TR-6710
scu-mus LD50:50 mg/kg ZVKOA6 19,186,74
ivn-dog LDLo:9 mg/kg EQSSDX 1,1,75
ivn-cat LDLo:12,700 µg/kg EQSSDX 1,1,75
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 7,264,87; Animal Inadequate Evidence IMEMDT 2,126,73; Animal Sufficient Evidence IMEMDT 11,75,76. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 1 mg(Ni)/m^3
ACGIH TLV: TWA 1 mg(Ni)/m^3; Not Classifiable as a Human Carcinogen
DFG MAK: DFG TRK: 0.5 mg/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Poison by intratracheal, intravenous, and subcutaneous routes. Mutation data reported. Can react violently with fluorine, hydrogen peroxide, hydrogen sulfide, iodine, barium oxide + air. See also NICKEL COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Nitric Oxide s321.

NDG000 CAS: 13138-45-9 HR: 3
NICKEL(II) NITRATE (1:2)
DOT: UN 2725
mf: N_2O_6•Ni mw: 182.73
PROP: Green, deliquescent crystals. Mp: 56.7°, bp: 136.7°, d: 2.05. IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL NITRATE □ NITRIC ACID, NICKEL(II) SALT
TOXICITY DATA with REFERENCE:
dlt-mus-unr 56 mg/kg MUREAV 97,180,82
ivn-mus LDLo:9 mg/kg FATOAO 23,549,60
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
DOT CLASSIFICATION: 5.1; Label: Oxidizer
SAFETY PROFILE: Confirmed human carcinogen. Poison by intravenous route. Experimental reproductive effects. Mutation data reported. A powerful oxidizer. When heated to decomposition it emits very toxic fumes of NO_x. See also NICKEL COMPOUNDS and NITRATES.

NDG500 CAS: 13478-00-7 HR: 3
NICKEL(II) NITRATE, HEXAHYDRATE (1:2:6)
mf: N_2O_6•Ni•6H_2O mw: 290.85
PROP: Green, deliquescent crystals. Mp: 56.7°, bp: 136.7°, d: 2.05. Sol in 0.4 parts water or alc. Keep well closed. IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL(2^+) NITRATE, HEXAHYDRATE □ NITRIC ACID, NICKEL(2+) SALT, HEXAHYDRATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1620 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also NICKEL(II) NITRATE.

NDG550 CAS: 17861-62-0 HR: 3
NICKEL NITRITE
DOT: UN 2726

mf: N_2O_4•Ni mw: 150.73
PROP: IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL DINITRITE ◻ NICKEL NITRITE ◻ NITROUS ACID, NICKEL(2+) SALT

CONSENSUS REPORTS: NTP 10th Report on Carcinogens.
OSHA PEL: TWA 1 mg(Ni)/m^3
ACGIH TLV: TWA 0.05 mg(Ni)/m^3; Confirmed Carcinogen
DOT CLASSIFICATION: 5.1; Label: Oxidizer
SAFETY PROFILE: Confirmed carcinogen. When heated to decomposition it emits toxic fumes of NO_x and Ni.

NDH000 CAS: 7718-54-9 HR: 3
NICKELOUS CHLORIDE
mf: Cl_2Ni mw: 129.61
PROP: Sparkling golden yellow scales. Mp: 1001° (sealed tube). Sublimes @ 9°. Sol in H_2O and polar org solvs. IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL CHLORIDE ◻ NICKEL(II) CHLORIDE (1:2)
TOXICITY DATA with REFERENCE:
dnr-esc 200 mg/L CRNGDP 2,189,81
cyt-ham:ovr 3200 nmol/L CNREA8 45,2320,85
ipr-mus TDLo:5078 µg/kg (female 11D post):TER TJADAB 19,137,79
orl-rat LD50:105 mg/kg RPTOAN 32,102,69
ipr-rat LD50:20,597 µg/kg TXCYAC 35,47,85
ipr-mus LD50:11 mg/kg TXCYAC 64,19,90
ivn-dog LDLo:10 mg/kg 14CYAT 2,1120,63
ims-rbt LD50:27 mg/kg JPETAB 87,119,46
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen. Poison by ingestion, intravenous, intramuscular, and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits very toxic fumes of Cl^-. See also NICKEL COMPOUNDS.

NDH500 CAS: 1314-06-3 HR: 3
NICKEL PEROXIDE
mf: Ni_2O_3 mw: 165.42
PROP: Gray-black powder or solid. Mp: loses O_2 @ 600°, d: 4.83. Decomp about 600° into NiO and O_2. Insol in water; very sltly sol in cold acid; dissolved by hot HCl, evolving Cl_2; dissolved by hot H_2SO_4 or HNO_3, evolving O_2. IDLH 10 mg/m^3 (as Ni).
SYNS: DINICKEL TRIOXIDE ◻ NICKELIC OXIDE ◻ NICKEL OXIDE ◻ NICKEL OXIDE PEROXIDE ◻ NICKEL SESQUI-OXIDE ◻ NICKEL TRIOXIDE
TOXICITY DATA with REFERENCE:
otr-mus:emb 500 µmol/L PAACA3 24,100,83
scu-mus LD50:50 mg/kg ZVKOA6 19,186,74
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Inadequate Evidence IMEMDT 49,257,90. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 1 mg(Ni)/m^3; Not Classifiable as a Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen. Poison by subcutaneous route. Mutation data reported. Hazardous reaction with hydrogen peroxide. Presence of the oxide increases the sensitivity of nitroalkanes (e.g., nitromethane, nitroethane, 1-nitropropane) to heat. See also NICKEL COMPOUNDS and PEROXIDES.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Nitric Oxide S321.

NDI000 CAS: 14220-17-8 HR: 3
NICKEL POTASSIUM CYANIDE
mf: C_4N_4Ni•2K mw: 240.99
PROP: Red-orange crystals from H_2O. Very sol in H_2O. IDLH 10 mg/m^3 (as Ni).
SYNS: DIPOTASSIUM NICKEL TETRACYANIDE ◻ DIPO-TASSIUM TETRACYANONICKELATE ◻ POTASSIUM TETRA-CYANONICKELATE ◻ POTASSIUM TETRACYANO-NICKELATE(II)
TOXICITY DATA with REFERENCE:
orl-mus LD50:275 mg/kg JPMSAE 52,59,63
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds, as well as cyanide and its compounds, are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
DOT CLASSIFICATION: 6.1; Label: Poison, KEEP AWAY FROM FOOD
SAFETY PROFILE: Confirmed human carcinogen. Poison by ingestion. When heated to decomposition it emits very toxic fumes of NO_x, K_2O, and CN^-. See also NICKEL COMPOUNDS and CYANIDE.

NDI500 HR: 3
NICKEL REFINERY DUST
PROP: *Analysis:* Cupric oxide (3.4%), nickel sulfate (20.0%), nickel sulfide (57.0%), nickel oxide (6.3%), cobalt oxide (1.0%), ferric oxide (1.8%), silicon dioxide (1.2%), misc (2.0%), water (7.3%) (CNREA8 22,158,62). IDLH 10 mg/m^3 (as Ni).
TOXICITY DATA with REFERENCE:
ims-mus LDLo:800 mg/kg CNREA8 22,152,62
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Human Sufficient Evidence IMEMDT 2,126,73. Nickel and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 1 mg(Ni)/m^3

ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and neoplastigenic data. A human carcinogen. Moderately toxic by intramuscular route. When heated to decomposition it emits toxic fumes of SO_x. See also NICKEL, NICKEL COMPOUNDS, and individual components.

NDJ000 CAS: 13520-61-1 HR: 3
NICKEL(2+) SALT PERCHLORIC ACID HEXAHYDRATE
mf: Cl_2O_8•Ni•$6H_2O$ mw: 365.73
PROP: Hygroscopic blue-green crystals. Mp: 209° (sealed tube). Sol in H_2O, EtOH, Me_2CO, and DMF. IDLH 10 mg/m^3 (as Ni).
SYN: NICKEL(2+) PERCHLORATE, HEXAHYDRATE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:100 mg/kg JAFCAU 14,512,66
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: TWA 15 µg(Ni)/m^3
DOT CLASSIFICATION: 5.1; Label: Oxidizer
SAFETY PROFILE: Confirmed human carcinogen. Poison by intraperitoneal route. A powerful oxidizer. Mixtures with 2,2-dimethoxypropane explode when heated above 65°C. When heated to decomposition it emits toxic fumes of Cl^-. See also NICKEL COMPOUNDS and PERCHLORATES.

NDJ399 CAS: 12255-80-0 HR: 3
NICKEL SUBARSENIDE
mf: As_2Ni_5 mw: 443.39
PROP: IDLH 10 mg/m^3 (as Ni).
SYN: NICKEL ARSENIDE (As_2-Ni_5)
TOXICITY DATA with REFERENCE:
orl-rat LD50:5840 mg/kg FDRLI* 8005F,84
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90.
OSHA PEL: OSHA: Cancer Hazard
ACGIH TLV: TWA 0.01 mg/m^3; Confirmed Human Carcinogen; BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine; TWA 0.2 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic data. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of As.

NDJ400 CAS: 12256-33-6 HR: 3
NICKEL SUBARSENIDE
mf: As_8Ni_{11} mw: 1245.17
PROP: IDLH 10 mg/m^3 (as Ni).
SYN: NICKEL ARSENIDE (As_8-Ni_{11})
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Limited Evidence IMEMDT 49,257,90.
OSHA PEL: OSHA: Cancer Hazard
ACGIH TLV: TWA 0.01 mg/m^3; Confirmed Human Carcinogen; BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine; TLV: TWA 0.05 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of As.

NDJ475 CAS: 12137-13-2 HR: 3
NICKEL SUBSELENIDE
mf: Ni_3Se_2 mw: 334.05
PROP: IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL SELENIDE □ NICKEL SELENIDE (3:2) CRYSTALLINE
TOXICITY DATA with REFERENCE:
otr-ham:emb 5 µmol/plate TOXID9 1,132,81
CONSENSUS REPORTS: Confirmed human carcinogen.
OSHA PEL: TWA Soluble: Compounds: 0.1 mg(Ni)/m^3; Insoluble Compounds: 1 mg(Ni)/m^3; TWA 0.2 mg(Se)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen; TWA 0.2 mg(Se)/m^3
DFG MAK: DFG TRK: 0.5 mg/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Mutation data reported.

NDJ500 CAS: 12035-72-2 HR: 3
NICKEL SUBSULFIDE
mf: Ni_3S_2 mw: 240.25
PROP: Golden yellow solid. Metallic conductor. Mp: 2140°. IDLH 10 mg/m^3 (as Ni).
SYNS: HEAZLEWOODITE □ NICKEL SUBSULPHIDE □ NICKEL SULFIDE □ α-NICKEL SULFIDE (3:2) CRYSTALLINE □ NICKEL SULPHIDE □ NICKEL TRITADISULPHIDE
TOXICITY DATA with REFERENCE:
sce-hmn:lym 1 mg/L CNREA8 41,4136,81
otr-ham:emb 5 µmol/plate TOXID9 1,132,81
itt-rat TD:40 mg/kg:ETA,TER PAACA3 18,52,77
itr-mus LD50:4 mg/kg ENVRAL 40,313,86
ipr-gpg LDLo:102 µg/kg JOHYAY 8,565,08
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 7,264,87; Animal Sufficient Evidence IMEMDT 2,126,73, IMEMDT 11,75,76. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 1 mg(Ni)/m^3
ACGIH TLV: TWA 0.1 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. Poison by intraperitoneal and intratracheal routes. An experimental teratogen. Other

experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of SO_x. See also NICKEL COMPOUNDS and SULFIDES.

NDK000 CAS: 13770-89-3 HR: 3
NICKEL (II) SULFAMATE
mf: $H_4N_2NiO_6S_2$ mw: 250.89
PROP: IDLH 10 mg/m^3 (as Ni).
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:250 mg/kg CBCCT* 4,320,52
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen. Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also NICKEL COMPOUNDS.

NDK500 CAS: 7786-81-4 HR: 3
NICKEL SULFATE
mf: O_4S•Ni mw: 154.77
PROP: Cubic yellow crystals. Mp: 840°, d: 3.68. IDLH 10 mg/m^3 (as Ni).
SYNS: NCI-C60344 □ NICKELOUS SULFATE □ NICKEL SULFATE (1:1) □ NICKEL(II) SULFATE □ NICKEL(II) SULFATE (1:1) □ NICKEL(2^+)SULFATE (1:1) □ SULFURIC ACID, NICKEL(2^+)SALT □ SULFURIC ACID, NICKEL(2^+) SALT (1:1)
TOXICITY DATA with REFERENCE:
skn-chd 5%/48H ARDEAC 87,378,63
mmo-smc 100 mmol/L MUREAV 117,149,83
sce-hmn:leu 23 µmol/L DMBUAE 27,40,80
ipr-rat LD50:500 mg/kg GTPZAB 23(6),48,79
ipr-mus LD50:55 mg/kg COREAF 256,1043,63
ivn-mus LDLo:7640 µg/kg FATOAO 23,549,60
scu-dog LDLo:38 mg/kg JOHYAY 8,565,08
ivn-dog LDLo:38 mg/kg JOHYAY 8,565,08
scu-cat LDLo:24 mg/kg JOHYAY 8,565,08
scu-rbt LDLo:33 mg/kg JOHYAY 8,565,08
ivn-rbt LDLo:33 mg/kg JOHYAY 8,565,08
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen with experimental tumorigenic data. Poison by intravenous, intraperitoneal, and subcutaneous routes. Human mutation data reported. A human skin irritant. When heated to decomposition it emits very toxic fumes of SO_x. See also NICKEL COMPOUNDS and SULFATES.

NDK990 CAS: 10101-98-1 HR: 3
NICKEL^{2+} SULFATE HEPTAHYDRATE
mf: O_4NiS•$7H_2O$ mw: 280.91
PROP: IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL(II) SULFATE HEPTAHYDRATE □ NICKELOUS SULFATE HEPTAHYDRATE □ SULFURIC ACID, NICKEL^{2+} SALT (1:1), HEPTAHYDRATE
TOXICITY DATA with REFERENCE:
mor-ham-oth 36 µmol/L CRNGDP 14,947,93
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Human Sufficient Evidence IMEMDT 49,257,90; Animal Limited Evidence IMEMDT 49,257,90.
ACGIH TLV: TWA 0.1 mg(Ni)/m; Not Classifiable as a Carcinogen[3]
SAFETY PROFILE: Confirmed carcinogen. Mutation data reported. When heated to decomposition it emits toxic vapors of SO_x and Ni.

NDL000 CAS: 10101-97-0 HR: 3
NICKEL(II) SULFATE HEXAHYDRATE (1:1:6)
mf: NiO_4S•$_6H_2O$ mw: 262.89
PROP: IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL MONOSULFATE HEXAHYDRATE □ NICKEL SULFATE HEXAHYDRATE □ NICKEL (II) SULFATE HEXA-HYDRATE □ NICKEL SULPHATE HEXAHYDRATE □ SULFURIC ACID, NICKEL(2+) SALT, HEXAHYDRATE
TOXICITY DATA with REFERENCE:
cyt-hmn:lym 5 mg/L ENMUDM 3,597,81
otr-ham:emb 5 mg/L DTESD7 8,259,80
orl-rat LD50:275 mg/kg FDRLI* 7702A,83
scu-dog LDLo:500 mg/kg 27ZWAY 3.2,1446,
ivn-dog LDLo:89,500 µg/kg EQSSDX 1,1,75
scu-cat LDLo:500 mg/kg EQSSDX 1,1,75
ivn-cat LDLo:71,600 µg/kg EQSSDX 1,1,75
scu-rbt LDLo:500 mg/kg EQSSDX 1,1,75
scu-gpg LDLo:62 mg/kg EQSSDX 1,1,75
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List. EPA Genetic Toxicology Program.
OSHA PEL: TWA 0.1 mg (Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen. Poison by ingestion, intravenous, and subcutaneous routes. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of SO_x. See also NICKEL SULFATE.

NDL050 CAS: 11113-75-0 HR: 3
NICKEL SULFIDE
mf: NiS mw: 90.77
PROP: Black powder. Mp: 797°, d: 5.3−5.6. IDLH 10 mg/m^3 (as Ni).
SYN: α-NICKEL SULFIDE (1:1) CRYSTALLINE
TOXICITY DATA with REFERENCE:
cyt-mus-fbr 2500 µg/L CNREA8 47,2142,87
dnd-ham-ovr 1 mg/L CALEDQ 15,35,82

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Reported in EPA TSCA Inventory.
OSHA PEL: TWA Soluble Compounds: 0.1 mg(Ni)/m^3; Insoluble Compounds: 1 mg(Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3); Human Carcinogen
DFG MAK: DFG TRK: Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic vapors of SO_x and Ni.

NDL100 CAS: 16812-54-7 HR: 3
NICKEL SULFIDE
mf: NiS mw: 90.77
PROP: Yellow or black crystalline solid. Mp: 976°, bp: decomposes @ 2047°. IDLH 10 mg/m^3 (as Ni).
SYNS: MONONICKEL MONOSULFIDE ◻ NICKEL MONOSULFIDE ◻ NICKELOUS SULFIDE ◻ NICKEL(II) SULFIDE ◻ NICKEL(2+) SULFIDE
TOXICITY DATA with REFERENCE:
cyt-mus:mmr 1 mmol/L/48H MUREAV 67,221,79
dnd-ham:ovr 1 mg/L CALEDQ 15,35,82
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Sufficient Evidence IMEMDT 49,257,90. Nickel and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 1 mg(Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
DFG MAK: DFG TRK: 0.5 mg/m^3; Human Carcinogen
NIOSH REL: TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x. See also NICKEL COMPOUNDS and SULFIDES.

NDL425 CAS: 12142-88-0 HR: 3
NICKEL TELLURIDE
mf: NiTe mw: 186.31
PROP: IDLH 10 mg/m^3 (as Ni).
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 1 mg(Ni)/m^3; Confirmed Carcinogen; 1 mg(Te)/m^3
ACGIH TLV: TWA 0.1 mg(Te)/m^3
NIOSH REL: (Nickel, Inorganic) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data.

NDL500 CAS: 12035-39-1HR: 303-01-04
NICKEL TITANIUM OXIDE
mf: NiO_3Ti mw: 154
PROP: IDLH 10 mg/m^3 (as Ni).
SYNS: NICKEL-TITANATE ◻ TITANIUM NICKEL OXIDE
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. Nickel and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 1 mg(Ni)/m^3
ACGIH TLV: TWA 0.2 mg(Ni)/m^3; Human Carcinogen
NIOSH REL: (Inorganic Nickel) TWA 0.015 mg(Ni)/m^3
SAFETY PROFILE: Confirmed human carcinogen with experimental carcinogenic and tumorigenic data. See also NICKEL COMPOUNDS and TITANIUM COMPOUNDS.

NDL800 CAS: 65141-46-0 HR: 3
NICORANDIL
mf: $C_8H_9N_3O_4$ mw: 211.20
PROP: Colorless needles from ether/ethanol. Mp: 92–93°.
SYNS: N-(2-HYDROXYETHYL)NICOTINAMIDE NITRATE (ESTER) ◻ 2-NICOTINAMIDOETHYL NITRATE ◻ PERISOLOL ◻ SIGMART
TOXICITY DATA with REFERENCE:
orl-rat LD50:1220 mg/kg YKYUA6 35,1627,84
ipr-rat LD50:1100 mg/kg YKYUA6 35,1627,84
scu-rat LD50:1200 mg/kg YKYUA6 35,1627,84
orl-mus LD50:1150 mg/kg YKYUA6 35,1627,84
ipr-mus LD50:990 mg/kg YKYUA6 35,1627,84
scu-mus LD50:1350 mg/kg YKYUA6 35,1627,84
orl-dog LD50:62,500 µg/kg YKYUA6 35,1627,84
SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal and subcutaneous routes. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES.

NDM000 CAS: 27848-84-6 HR: 3
NICOTERGOLINE
mf: $C_{24}H_{26}BrN_3O_3$ mw: 484.44
PROP: A solid. Mp: 136–138°.
SYNS: 8-β-((5-BROMONICOTINOYLOXY)METHYL)-1,6-DIMETHYL-10-α-METHOXYERGOLINE ◻ FI 6714 ◻ 10-METHOXY-1,6-DIMETHYLERGOLINE-8-METHANOL-5-BROMO-3-PYRIDINECARBOXYLATE (ester) ◻ 10-METHOXY-1,6-DIMETHYL-ERGOLIN-8-β-METHANOL-(5-BROMNICOTINAT) (GERMAN) ◻ 1-METHYL-LUMILYSERGOL-8-(5-BROMO-NICOTINATE)-10-METHYL ETHER ◻ MNE ◻ NARGOLINE ◻ NICERGOLIN (GERMAN) ◻ NICERGOLINE ◻ NIMERGOLINE ◻ SERMION
TOXICITY DATA with REFERENCE:
orl-rat LD50:1193 mg/kg IYKEDH 19,735,88
scu-rat LD50:778 mg/kg ARZNAD 29,1223,79
ivn-rat LD50:42 mg/kg ARZNAD 29,1206,79
orl-mus LD50:633 mg/kg ARZNAD 29,1223,79
ivn-mus LD50:46 mg/kg ARZNAD 29,1206,79
ivn-dog LD50:20 mg/kg ARZNAD 29,1206,79
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and subcutaneous routes. An experimental teratogen. Other experimental reproductive effects. A vasodilator. When heated to decomposition it emits very toxic fumes of Br^- and NO_x.

NDM100 CAS: 500-22-1 HR: 2

NICOTINALDEHYDE
mf: C_6H_5NO mw: 107.12
SYNS: 3-FORMYLPYRIDINE □ NICOTINEALDEHYDE □ NICOTINIC ALDEHYDE □ 3-PYRIDINALDEHYDE □ 3-PYRIDINEALDEHYDE □ PYRIDINE-3-CARBALDEHYDE □ β-PYRIDINECARBONALDEHYDE □ 3-PYRIDINECARBOX-ALDEHYDE (9CI) □ 3-PYRIDYLALDEHYDE □ 3-PYRIDYL-CARBOXALDEHYDE □ ROWALIND
TOXICITY DATA with REFERENCE:
ipr-mus LD25:720 mg/kg JPMSAE 64,528,75
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.

NDN000 CAS: 54-11-5 HR: 3
NICOTINE
DOT: UN 1654
mf: $C_{10}H_{14}N_2$ mw: 162.26
PROP: An alkaloid from tobacco. In its pure state, a colorless and almost odorless oil; sharp burning taste. Mp: <−80°, bp: 247.3° (partial decomp), lel: 0.75%, uel: 4.0%, d: 1.0092 @ 20°, autoign temp: 471°F, vap press: 1 mm @ 61.8°, vap d: 5.61. Volatile with steam; misc with water below 60°; very sol in alc, chloroform ether, pet ether, and kerosene oils. IDLH 5 mg/m^3.
SYNS: BLACK LEAF □ DESTRUXOL ORCHID SPRAY □ EMO-NIK □ ENT 3,424 □ FLUX MAAG □ FUMETOBAC □ MACH-NIC □ 1-METHYL-2-(3-PYRIDYL)PYRROLIDINE □ 3-(N-METHYL-PYRROLIDINO)PYRIDINE □ 3-(1-METHYL-2-PYRROLIDINYL)-PYRIDINE □ (S)-3-(1-METHYL-2-PYRROLIDINYL)PYRIDINE (9CI) □ l-3-(1-METHYL-2-PYRROLIDYL)PYRIDINE □ (−)-3-(1-METHYL-2-PYRROLIDYL)PYRIDINE □ NIAGARA P.A. DUST □ NICOCIDE □ NICO-DUST □ NICO-FUME □ NICOTINA (ITALIAN) □ (−)-NICOTINE □ l-NICOTINE □ NICOTINE, liquid (DOT) □ NICOTINE, solid (DOT) □ NICOTINE ALKALOID □ NIKOTIN (GERMAN) □ NIKOTYNA (POLISH) □ ORTHO N-4 DUST □ ORTHO N-5 DUST □ PYRIDINE, 3-(TETRAHYDRO-1-METHYLPYRROL-2-YL) □ β-PYRIDYL-α-N-METHYLPYRRO-LIDINE □ RCRA WASTE NUMBER P075 □ TENDUST □ dl-TETRAHYDRONICOTYRINE □ XL ALL INSECTICIDE
TOXICITY DATA with REFERENCE:
mmo-smc 100 ppm RSTUDV 6,161,76
dlt-mus-ipr 10 mg/kg/2D-I IRLCDZ 6,461,78
dni-rbt:oth 1 mmol/L TXCYAC 34,309,85
unr-man LDLo:882 µg/kg 85DCAI 2,73,70
rec-hmn TDLo:1430 µg/kg:CNS,GIT CTOXAO 10,391,77
orl-rat LD50:50 mg/kg FMCHA2 -,D218,80
skn-rat LD50:140 mg/kg WRPCA2 9,119,70
ipr-rat LD50:14,560 µg/kg JPETAB 124,350,58
scu-rat LD50:25 mg/kg FATOAO 47(5),85,84
ivn-rat LDLo:1 mg/kg 27ZIAQ -,171,73
ims-rat LDLo:15 mg/kg SCIEAS 127,1054,58
par-rat LDLo:34 mg/kg JPETAB 48,317,33
itr-rat LD50:19,300 µg/kg ARDSBL 129,112,84
idu-rat LDLo:30 mg/kg ARZNAD 25,1037,75
orl-mus LD50:3340 µg/kg HYSAAV 34(4-6),187,69
ipr-mus LD50:5900 µg/kg TXAPA9 28,227,74
scu-mus LDLo:16 mg/kg AEPPAE 188,605,38
ivn-mus LD50:300 µg/kg BJPCBM 35,161,69 SCIEAS 127,1054,58
skn-rbt LD50:50 mg/kg AFDOAQ 16,3,52
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: TWA 0.5 mg/m^3 (skin)
ACGIH TLV: TWA 0.5 mg/m^3 (skin)
DFG MAK: 0.07 ppm; 0.47 mg/m^3
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: A deadly human poison by unspecified route. Experimental poison by ingestion, skin contact, intraperitoneal, subcutaneous, intravenous, intramuscular, parenteral, intratracheal, and intraduodenal routes. Human systemic effects by rectal route: hallucinations, distorted perceptions, nausea or vomiting. Human teratogenic effects by ingestion: developmental abnormalities of the cardiovascular system. Human blood pressure effects. Can be absorbed by intact skin. An experimental teratogen. Experimental reproductive effects. "Nicotinism," poisoning by nicotine, is characterized by stimulation and subsequent depression of the central and autonomic nervous systems. Death can result from respiratory paralysis. Mutation data reported. Used as a pesticide and in veterinary medicine as an external parasiticide. Combustible when exposed to heat or flame. Moderately explosive in the form of vapor when exposed to heat or flame. Can react with oxidizing materials. To fight fire, use alcohol foam, dry chemical, CO_2. When heated to decomposition it emits NO_x, CO, and other highly toxic fumes. See also SMOKELESS TOBACCO.

NDN050 CAS: 64092-22-4 HR: 3
NICOTINE, COMPD. WITH MANGANESE(II) o-BENZOYL BENZOATE, TRIHYDRATE (2:1)
mf: $C_{48}H_{46}MnN_4O_6 \bullet 3H_2O$ mw: 883.98
SYN: MANGANESE, BIS(2-BENZOYLBENZOATO)BIS(3-(1-METHYL-2-PYRROLIDINYL)PYRIDINE)-, TRIHYDRATE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:300 mg/kg NCNSA6 5,22,1953
ipr-rat LDLo:300 mg/kg NCNSA6 5,22,1953
SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic vapors of NO_x and Mn.

NDN100 CAS: 6019-02-9 HR: D
NICOTINE DIHYDROCHLORIDE
mf: $C_{10}H_{14}N_2 \bullet 2ClH$ mw: 235.18
PROP: Deliquescent crystals. Very sol in water.
SYNS: 3-(1-METHYL-2-PYRROLIDINYL)PYRIDINE DIHYDRO-CHLORIDE (S)- □ PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-, DIHYDROCHLORIDE, (S)-
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

NDP400 CAS: 2820-51-1 HR: 3
NICOTINE HYDROCHLORIDE
DOT: UN 1656
mf: $C_{10}H_{14}N_2 \bullet xClH$ mw: 417.48

SYNS: CHLORHYDRATE de NICOTINE (FRENCH) □ NICOTINE HYDROCHLORIDE (d,l) □ NICOTINE HYDROCHLORIDE, solution (DOT)

TOXICITY DATA with REFERENCE:
ipr-mus LD50:13,500 mg/kg AIPTAK 223,132,76
scu-mus LD50:31,900 µg/kg BAFEAG 44,426,57
ivn-rbt LDLo:6500 µg/kg JPETAB 77,343,43
ipr-gpg LDLo:32 mg/kg AJEBAK 25,83,47

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by intravenous, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Cl^-, NO_x, and CO. See also NICOTINE.

NDP500 CAS: 21361-93-3 HR: 3
1-NICOTINE HYDROCHLORIDE
mf: $C_{10}H_{14}N_2$•ClH mw: 198.72

PROP: Deliquescent crystals.

TOXICITY DATA with REFERENCE:
ipr-rat LDLo:20 mg/kg AJEBAK 25,83,47
ipr-gpg LDLo:20 mg/kg AJEBAK 25,83,47

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

NDQ000 CAS: 69782-38-3 HR: 3
(+)-NICOTINE HYDROCHLORIDE
mf: $C_{10}H_{14}N_2$•ClH mw: 198.72

SYN: d-NICOTINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
ipr-rat LDLo:24 mg/kg AJEBAK 25,83,47
ipr-gpg LDLo:33 mg/kg AJEBAK 25,83,47

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

NDR000 CAS: 29790-52-1 HR: 3
NICOTINE MONOSALICYLATE
DOT: UN 1657
mf: $C_{10}H_{14}N_2$•$C_7H_6O_3$ mw: 300.39

PROP: Six-sided plates. Mp: 118°. Very sol in water or alc.

SYN: NICOTINE SALICYLATE (DOT)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A poison. Symptoms of exposure: extreme nausea, vomiting, evacuation of bowel and bladder, mental confusion, twitching, convulsions. Base is readily absorbed through mucous membranes and intact skin. Institute treatment immediately. When heated to decomposition it emits toxic fumes of NO_x and CO. See also NICOTINE.

NDR100 CAS: 491-26-9 HR: 3
NICOTINE-N′-OXIDE
mf: $C_{10}H_{14}N_2O$ mw: 178.26

SYNS: N-OXYNICOTINE □ NNO □ NICOTINE 1'-N-OXIDE □ NICOTINE, 1'-OXIDE □ OXYNICOTINE □ PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-, N-OXIDE, (2S)-

TOXICITY DATA with REFERENCE:
mic-uns 0.098 mg/L/16H MUREAV 492,13,2001
orl-mus LD50:195 mg/kg FATOAO 24,534,1961
scu-mus LD50:730 mg/kg FATOAO 24,534,1961
ivn-mus LD50:60 mg/kg FATOAO 24,534,1961

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by subcutaneous route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NDR500 CAS: 65-30-5 HR: 3
NICOTINE SULFATE
DOT: UN 1658
mf: $C_{20}H_{26}N_4$•O_4S mw: 418.56

SYNS: ENT 2,435 □ l-1-METHYL-2-(3-PYRIDYL)-PYRROLIDINE SULFATE □ (S)-3-(1-METHYL-2-PYRROLIDINYL)PYRIDINE SULFATE (2:1) □ l-3-(1-METHYL-2-PYRROLIDYL)PYRIDINE SULFATE □ NICOTINE SULFATE □ NICOTINE SULFATE, solid or solution (DOT) □ NIKOTINSULFAT □ PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-, (S)-, SULFATE (2:1) □ PYRROLID-INE, 1-METHYL-2-(3-PYRIDYL)-, SULFATE □ SULFATE de NICOTINE (FRENCH)

TOXICITY DATA with REFERENCE:
orl-rat LD50:50 mg/kg ARSIM* 20,16,66
ihl-rat LC50:22 mg/m^3 85GMAT -,86,82
ipr-mus LD50:10,200 µg/kg JPPMAB 38,54,86
skn-rat LD50:285 mg/kg TXAPA9 2,88,60
orl-mus LD50:16 mg/kg TXAPA9 42,417,77
skn-rbt LD50:50 mg/kg 85GYAZ -,141,71
orl-pgn LD50:75 mg/kg TXAPA9 21,315,72
orl-qal LD50:316 mg/kg AECTCV 12,355,83
orl-dck LD50:75 mg/kg TXAPA9 21,315,72
orl-brd LD50:32 mg/kg TXAPA9 21,315,72

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

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion and skin contact. When heated to decomposition it emits very toxic fumes of SO_x and organic fumes. See also NICOTINE and SULFATES.

NDS500 CAS: 65-31-6 HR: 3
NICOTINE TARTRATE (1:2)
DOT: UN 1659
mf: $C_{10}H_{14}N_2$•$2C_4H_6O_6$ mw: 462.46

SYNS: (S)-3-(1-METHYL-2-PYRROLIDINYL-PYRIDINE (R)-(R,R))-2,3-DIHYDROXYBUTANEDIOATE (1:2) □ NICOTINE ACID TARTRATE □ NICOTINE BITARTRATE □ NICOTINE HYDROGEN TARTRATE □ (−)-NICOTINE HYDROGEN TARTRATE □ NICOTINE TARTRATE □ NICOTINE TARTRATE (DOT) □ TARTRATE de NICOTINE (FRENCH)

TOXICITY DATA with REFERENCE:
orl-rat LD50:65 mg/kg PLRCAT 5,341,73
ipr-rat LD50:83 mg/kg TXAPA9 22,325,72
ivn-rat LD50:600 mg/kg PLRCAT 5,341,73
par-rat LD50:33,500 µg/kg ABMGAJ 28,681,72
orl-mus LD50:65 mg/kg PLRCAT 5,341,73
ipr-mus LD50:9100 µg/kg TXAPA9 65,366,82
scu-mus LD50:53 mg/kg PLRCAT 5,341,73
orl-mus LD50:65 mg/kg PLRCAT 5,341,73
ipr-mus LD50:9100 µg/kg TXAPA9 65,366,82
scu-mus LDLo:59 mg/kg AEPPAE 188,605,38
ivn-mus LD50:300 µg/kg BJPCBM 35,161,69

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and CO. See also NICOTINE.

NDT500 CAS: 6938-06-3 HR: 3
NICOTINIC ACID, BUTYL ESTER
mf: $C_{10}H_{13}NO_2$ mw: 179.24
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:63 mg/kg CBCCT* 4,46,52
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x. See also ESTERS.

NDU000 CAS: 69782-43-0 HR: 3
NICOTINIC ACID, 3-(2,6-DIMETHYLPIPERIDINO)PROPYL ESTER, HYDROCHLORIDE
mf: $C_{16}H_{24}N_2O_2$•ClH mw: 312.88
SYN: 3-PYRIDINECARBOXYLIC ACID, 3-(2,6-DIMETHYLPIPERIDINO)PROPYL ESTER, HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
scu-mus LD50:330 mg/kg JACSAT 68,2592,46
ivn-mus LD50:115 mg/kg JACSAT 68,2592,46
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

NDU500 CAS: 553-53-7 HR: 3
NICOTINIC ACID, HYDRAZIDE
mf: $C_6H_7N_3O$ mw: 137.16
PROP: Needles from dil alc or benzene. Mp: 161−162°. Very sol in water and alc; sltly sol in benzene.
SYNS: NICOTINOYL HYDRAZINE □ NICOTINYLHYDRAZIDE □ 3-PYRIDOYL HYDRAZINE □ WS 102
TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#04178
par-mus LDLo:100 mg/kg CBCCT* 7,691,55
SAFETY PROFILE: Poison by intravenous and parenteral routes. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

NDV000 CAS: 93-60-7 HR: 2
NICOTINIC ACID, METHYL ESTER
mf: $C_7H_7NO_2$ mw: 137.15
PROP: A solid. Mp: 38°, bp: 204°.
SYNS: METHYL NICOTINATE □ NICOMETH
TOXICITY DATA with REFERENCE:
par-mus LDLo:2000 mg/kg CBCCT* 7,691,55
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by parenteral route. When heated to decomposition it emits toxic fumes of NO_x.

NDW000 CAS: 69782-42-9 HR: 3
NICOTINIC ACID, 3-(2-METHYLPIPERIDINO)-PROPYL ESTER, HYDROCHLORIDE
mf: $C_{15}H_{22}N_2O_2$•ClH mw: 298.85
SYN: 3-PYRIDINECARBOXYLIC ACID, 3-(2-METHYLPIPERIDINO)PROPYL ESTER, HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
scu-mus LD50:500 mg/kg JACSAT 68,2592,46
ivn-mus LD50:100 mg/kg JACSAT 68,2592,46
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also ESTERS.

NDW500 CAS: 54-86-4 HR: 2
NICOTINIC ACID, SODIUM SALT
mf: $C_6H_4O_2$•Na mw: 131.09
SYNS: NATRIUMNICOTINAT (GERMAN) □ SODIUM NICOTINATE
TOXICITY DATA with REFERENCE:
scu-rat LD50:5000 mg/kg JPETAB 73,85,41
scu-mus LDLo:3000 mg/kg JPETAB 65,95,39
ivn-mus LD50:2900 mg/kg YKKZAJ 81,1748,61
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intravenous and subcutaneous routes. When heated to decomposition it emits toxic fumes of Na_2O.

NDW510 CAS: 100-55-0 HR: 2
NICOTINIC ALCOHOL
mf: C_6H_7NO mw: 109.14
SYNS: 3-(HYDROXYMETHYL)PYRIDINE □ NICOTINYL ALCOHOL □ NU-2121 □ β-PICOLYL ALCOHOL □ PYRIDINE-3-CARBINOL □ 3-PYRIDINEMETHANOL □ 3-PYRIDYLCARBINOL □ 3-PYRIDYLMETHANOL □ RO-1-5155 □ RONIACOL
TOXICITY DATA with REFERENCE:
ivn-mus LD50:1000 mg/kg PHARAT 11,242,56
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

NDW515 CAS: 100-54-9 HR: 2
NICOTINONITRILE
mf: $C_6H_4N_2$ mw: 104.12
PROP: White, light yellow crystals. Mp: 51.2°, bp: 201°. Sol in water: 8gm/100g @ 20°.
SYNS: 3-AZABENZONITRILE □ 3-CYANOPYRIDINE □ 3-CYJANOPIRYDYNA □ NICOTINIC ACID NITRILE □ NITRYL KWASU NIKOTYNOWEGO □ 3-PYRIDINECARBONITRILE (9CI) □ 3-PYRIDINENITRILE □ 3-PYRIDYLCARBONITRILE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1185 mg/kg MEPAAX 30,109,79
ipr-mus LD25:810 mg/kg JPMSAE 64,528,75
skn-rbt LDLo:4000 mg/kg MEPAAX 30,109,79
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and skin contact routes. When heated to decomposition it emits toxic vapors of NO_x.

NDW520 CAS: 58013-12-0 HR: 3

1-NICOTINOYLMETHYL-4-PHENYL-PIPERAZINE

mf: $C_{17}H_{19}N_3O$ mw: 281.39

SYNS: KETONE, 4-PHENYL-1-PIPERAZINYLMETHYL-3-PYRIDYL- □ 1-(2-KETO-2-(3'-PYRIDYL)ETHYL)-4-(PHENYL)-PIPERAZINE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:279 mg/kg BCFAAI 119,608,80

DOT CLASSIFICATION: 3; Label: Flammable Liquid

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

NDW525 CAS: 29876-14-0 HR: 2
N-NICOTINOYLTRYPTAMIDE

mf: $C_{16}H_{15}N_3O$ mw: 265.34

SYNS: N-(2-(3-INDOLYL)ETHYL)-NICOTINAMIDE □ N-(2-INDOL-3-YLETHYL)NICOTINAMIDE □ NICOTINAMIDE, N-(2-INDOL-3-YLETHYL)- □ 3-PYRIDINECARBOXAMIDE, N-(2-(1H-INDOL-3-YL)ETHYL)-(9CI) □ N-3-PYRIDOYLTRYPTAMINE □ TRYPTAMIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:1250 mg/kg DIPHAH 22,313,70

SAFETY PROFILE: Moderately toxic by intraperitoneal route. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x.

NDX300 CAS: 487-19-4 HR: 3
β-NICOTYRINE

mf: $C_{10}H_{10}N_2$ mw: 158.22

PROP: Oily liquid; characteristic odor, darkens on standing. Bp: 280−281°, d: 1.241; n: (20/D) 1.6057. Sol in alc, dil acids; sparingly sol in water.

SYNS: 1-METHYL-2-(3-PYRIDYL)PYRROLE □ 3-(1-METHYL-2-PYRROLYL)PYRIDINE □ 3-(1-METHYL-1H-PYRROL-2-YL)-PYRIDINE (9CI) □ NICOTYRINE □ 3,2'-NICOTYRINE

TOXICITY DATA with REFERENCE:

ivn-rat LD50:750 mg/kg USXXAM #4065561
orl-mus LD50:575 mg/kg USXXAM #4065561
ipr-mus LD50:191 mg/kg

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

NDX500 CAS: 4394-00-7 HR: 3
NIFLURIL

mf: $C_{13}H_9F_3N_2O_2$ mw: 282.24

PROP: Crystals from ethanol. Mp: 204°.

SYNS: ACIDE NIFLUMIQUE (FRENCH) □ ACIDO NIFLUMICO (ITALIAN) □ ACTOL □ FORENOL □ LANDRUMA □ NIFLUMIC ACID □ 2-(3-(TRIFLUOROMETHYL)ANILINO)NICOTINIC ACID □ 2-(3-(TRIFLUOROMETHYL)-PHENYL)AMINONICOTINIC ACID □ UP 83

TOXICITY DATA with REFERENCE:

orl-rat LD50:250 mg/kg JMCMAR 16,780,73
ipr-rat LD50:155 mg/kg JMCMAR 19,135,76
orl-mus LD50:375 mg/kg AGACBH 14,247,84
ipr-mus LD50:196 mg/kg NYKZAU 68,683,72

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Experimental reproductive effects. An anti-inflammatory agent. When heated to decomposition it emits very toxic fumes of F^- and NO_x.

NDY000 CAS: 555-84-0 HR: 3
NIFURADENE

mf: $C_8H_8N_4O_4$ mw: 224.20

PROP: Lemon-yellow solid from nitromethane. Mp: 261.5−263° (decomp).

SYNS: NF 246 □ 1-(((5-NITRO-2-FURANYL)METHYLENE)-AMINO)-2-IMIDAZOLIDINONE □ N-(5-NITRO-2-FURFUR-YLIDENE)-1-AMINO-2-IMIDAZOLIDONE □ N-(5-NITRO-2-FURFURYLIDENEAMINO)-2-IMIDAZOLIDINONE □ 1-((5-NITROFURFURYLIDENE)AMINO)-2-IMIDAZOLIDINONE □ NSC-6470 □ OXAFURADENE □ OXYFURADENE □ RENAFUR

TOXICITY DATA with REFERENCE:

orl-rat LD50:1680 mg/kg TXAPA9 18,185,71
ipr-mus LD50:1000 mg/kg JPPMAB 16,663,64
orl-rbt LD50:540 mg/kg TXAPA9 18,185,71

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 7,181,74.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic data. Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

NDY350 CAS: 24632-47-1 HR: 3
NIFURPIPONE

mf: $C_{12}H_{17}N_5O_4$ mw: 295.34

PROP: Yellow microcrystal powder. Mp: 167−168° (decomp).

SYNS: 4-METHYL-1-PIPERAZINEACETIC ACID (5-NITRO-FURFURYLIDENE)HYDRAZIDE □ 4-METHYL-PIPERAZINO-ACETOHYDRAZONE-5-NITROFURFUROL □ (4-METHYL-PIPERAZINYLACETYL)HYDRAZONE-5-NITRO-2-FUR-ALDEHYDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:990 mg/kg BCFAAI 114,73,74
ipr-rat LD50:212 mg/kg BCFAAI 114,73,74
orl-mus LD50:880 mg/kg BCFAAI 114,73,74
ipr-mus LD50:315 mg/kg JMCMAR 14,633,71

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

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

NDY360 CAS: 51799-29-2 HR: 3
NIFURPIPONE ACETATE

mf: $C_{12}H_{17}N_5O_4 \bullet C_2H_4O_2$ mw: 355.40

SYNS: 4-METHYL-1-PIPERAZINEACETIC, ACID ((5-NITRO-2-FURANYL)METHYLENE)HYDRAZIDE, ACETATE □ 4-METHYL-1-PIPERAZINEACETIC, ACID (5-NITROFURFURYL-IDENE)HYDRAZIDE ACETATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:833 mg/kg BCFAAI 114,73,75
orl-mus LD50:1125 mg/kg BCFAAI 114,73,75
ipr-mus LD50:228 mg/kg BCFAAI 114,73,75
scu-mus LD50:288 mg/kg BCFAAI 114,73,75
ivn-mus LD50:295 mg/kg BCFAAI 114,73,75
orl-rbt LD50:400 mg/kg BCFAAI 114,73,75
ivn-rbt LD50:127 mg/kg BCFAAI 114,73,75

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

NDY370 CAS: 24632-48-2 HR: 3
NIFURPIPONE DIHYDROCHLORIDE
mf: $C_{12}H_{17}N_5O_4$•2ClH mw: 368.26
SYN: 4-METHYL-1-PIPERAZINEACETIC, ACID (5-NITROFURFURYLIDENE)HYDRAZIDE DIHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:960 mg/kg BCFAAI 114,73,75
orl-mus LD50:688 mg/kg BCFAAI 114,73,75
ipr-mus LD50:252 mg/kg BCFAAI 114,73,75
ivn-mus LD50:222 mg/kg BCFAAI 114,73,75
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.

NDY380 CAS: 56217-89-1 HR: 3
NIFURPIPONE HYDROCHLORIDE
mf: $C_{12}H_{17}N_5O_4$•ClH mw: 331.80
SYN: 4-METHYL-1-PIPERAZINEACETIC, ACID (5-NITROFURFURYLIDENE)HYDRAZIDE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ivn-rat LD50:140 mg/kg BCFAAI 114,73,75
orl-mus LD50:594 mg/kg BCFAAI 114,73,75
ivn-mus LD50:300 mg/kg BCFAAI 114,73,75
ivn-mky LD50:240 mg/kg BCFAAI 114,73,75
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NDY390 CAS: 56217-90-4 HR: 3
NIFURPIPONE MALEATE (1:1)
mf: $C_{12}H_{17}N_5O_4$•$C_4H_4O_4$ mw: 411.42
SYN: 4-METHYL-1-PIPERAZINEACETIC ACID, (5-NITROFURFURYLIDENE)HYDRAZIDE MALEATE (1:1)
TOXICITY DATA with REFERENCE:
orl-rat LD50:1350 mg/kg BCFAAI 114,73,75
ivn-rat LD50:145 mg/kg BCFAAI 114,73,75
orl-mus LD50:750 mg/kg BCFAAI 114,73,75
ivn-mus LD50:365 mg/kg BCFAAI 114,73,75
ivn-rbt LD50:150 mg/kg BCFAAI 114,73,75
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

NDY400 CAS: 13411-16-0 HR: D
NIFURPIRINOL
mf: $C_{12}H_{10}N_2O_4$ mw: 246.24
PROP: Yellow needles from acetone or methanol. Mp: 170−171°C.
SYNS: FURANACE □ FURANACE-10 □ FURPIRINOL □ FURPYRINOL □ 6-HYDROXYMETHYL-2-(2-(5-NITRO-2-FURYL))VINYL)-PYRIDINE □ NF 323 □ 6-(2-(5-NITRO-2-FURANYL)ETHENYL)-2-PYRIDINEMETHANOL (9CI) □ 6-(2-(5-NITRO-2-FURYL)VINYL-2-PYRIDINE-METHANOL □ P-7138
TOXICITY DATA with REFERENCE:
mmo-sat 1 mg/L MUREAV 104,61,82
dns-hmn:fbr 5 μmol/L IDZAAW 48,291,73
SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NDY500 CAS: 3570-75-0 HR: 3
NIFURTHIAZOLE
mf: $C_8H_6N_4O_4S$ mw: 254.24
PROP: Bright-yellow plates. Mp: 215.5° (decomp).
SYNS: AS-17665 □ FNT □ FORMIC 2-(4-(5-NITROFURYL)-2-THIAZOLYL)HYDRAZIDE □ 2-(2-FORMYLHYDRAZINO)-4-(5-NITRO-2-FURYL)THIAZOLE □ NEFURTHIAZOLE □ 2-(4-(5-NITRO-2-FURANYL)-2-THIAZOLYL)-HYDRAZINECARBOXALDEHYDE □ NSC-525334
TOXICITY DATA with REFERENCE:
mmo-sat 200 ng/plate CNJGA8 21,319,79
spm-mus-ipr 1575 mg/kg/5D-I CMMUAO 5,257,78
CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 7,151,74. EPA Genetic Toxicology Program.
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

NDY550 CAS: 189624-85-9 HR: 3
(−)-NIGALDIPINE HYDROCHLORIDE
mf: $C_{41}H_{42}N_4O_6$•2ClH mw: 759.79
SYNS: (S)-(+)-AE 0047 □ (S)-AE0047 □ B 859-35 □ B 8509-035 □ BY 935 □ DEXNIGULDIPINE HYDROCHLORIDE □ (R)-NIGALDIPINE HYDROCHLORIDE □ 3,5-PYRIDINEDICARBOXYLIC ACID, 1,4-DIHYDRO-2,6-DIMETHYL-4-(3-NITROPHENYL)-, 2-(4-(4-(DIPHENYLMETHYL)-1-PIPERAZINYL)PHENYL)-ETHYL METHYL ESTER, DIHYDROCHLORIDE, (S)-(+)- □ (S)-(+)-WATANIDIPINE HYDROCHLORIDE □ WATANIDIPINE HYDROCHLORIDE (S)-ENANTIOMER
TOXICITY DATA with REFERENCE:
orl-rat LD50:196 mg/kg YACHDS 25(Suppl 3),S729,1997
orl-mus LD50:749 mg/kg YACHDS 25(Suppl 3),S729,1997
ivn-mus LD50:17 mg/kg CCPHDZ 36,160,1995
orl-dog LD :>12 mg/kg YACHDS 25(Suppl 3),S745,1997
SAFETY PROFILE: A poison by ingestion and intravenous routes. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl^-.

NDY565 CAS: 6785-70-2 HR: 3
NIGRESCIGENIN
mf: $C_{23}H_{32}O_7$ mw: 420.55
SYNS: CANESCEGENIN □ CANESCEGENINE □ CARD-20(22)-ENOLIDE, 3,5,11,14-TETRAHYDROXY-19-OXO-, (3-β,5-β,11-α)- □ 5-β-CARD-20(22)-ENOLIDE, 3-β,5,11-α,14-TETRAHYDROXY-19-OXO- □ SARMENTOSIGENIN A
TOXICITY DATA with REFERENCE:
ivn-cat LDLo:229 μg/kg JMCMAR 13,1029,1970
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating vapors.

NDY600 CAS: 22609-73-0 HR: 3
NILUDIPINE
mf: $C_{25}H_{34}N_2O_8$ mw: 490.61
SYNS: BAY-a 7168 □ BIS(2-PROPOXYETHYL)-1,4-DIHYDRO-2,6-DIMETHYL-4-(3-NITROPHENYL)-3,5-PYRIDINEDICARBO-

XYLATE □ 1,4-DIHYDRO-2,6-DIMETHYL-4-(m-NITROPHENYL)-3,5-PYRIDINEDICARBOXYLIC ACID BIS(2-PROPOXYETHYL) ESTER

TOXICITY DATA with REFERENCE:
orl-rat LD50:1469 mg/kg IYKEDH 12,714,81
scu-rat LD50:830 mg/kg IYKEDH 12,714,81
ivn-rat LD50:40 mg/kg IYKEDH 12,714,81
orl-mus LD50:1415 mg/kg IYKEDH 12,714,81
scu-mus LD50:642 mg/kg IYKEDH 12,714,81
ivn-mus LD50:90 mg/kg IYKEDH 12,714,81

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

NDY650 CAS: 75530-68-6 HR: 2
NILVADIPINE
mf: $C_{19}H_{19}N_3O_6$ mw: 385.41

PROP: Yellow prisms from EtOH. Mp: 148−150°.

SYNS: FK 235 □ FR 34235 □ 3,5-PYRIDINEDICARBOXYLIC ACID, 2-CYANO-1,4-DIHYDRO-6-METHYL-4-(3-NITROPHENYL)-, 3-METHYL-5-(1-METHYLETHYL) ESTER

TOXICITY DATA with REFERENCE:
orl-rat LD50:1560 mg/kg KSRNAM 21,1723,87
ivn-rat LD50:9650 µg/kg KSRNAM 21,1723,87
orl-mus LD50:1300 mg/kg KSRNAM 21,1723,87
ivn-mus LD50:9150 µg/kg KSRNAM 21,1723,87
orl-dog LD50:510 mg/kg KSRNAM 21,1723,87
ivn-dog LD50:3850 µg/kg KSRNAM 21,1723,87

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

NDY675 CAS: 50903-99-6 HR: D
N(5)-(IMINO(NITROAMINO)METHYL)-l-ORNITHINE METHYL ESTER
mf: $C_7H_{15}N_5O_4$ mw: 233.27

SYNS: N^G)-NITRO-l-ARGININE METHYL ESTER □ l-NAME □ l-ORNITHINE, N(5)-(IMINO(NITROAMINO)METHYL)-, METHYLESTER

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

NDY700 CAS: 66085-59-4 HR: 3
NIMODIPINE
mf: $C_{21}H_{26}N_2O_7$ mw: 418.45

PROP: Crystals from pet ether/acetic ester. Mp: 125°.

SYNS: BAY-E 9736 □ 1,4-DIHYDRO-2,6-DIMETHYL-4-(3-NITROPHENYL)-3,5-PYRIDINEDICARBOXYLIC ACID 2-METHOXYETHYL-1-METHYLETHYL ESTER □ NIMOTOP

TOXICITY DATA with REFERENCE:
orl-rat LD50:2738 mg/kg KSRNAM 19,68899,85
scu-rat LD50:4234 mg/kg KSRNAM 19,68899,85
ivn-rat LD50:5 mg/kg ARTODN 54,275,83
orl-mus LD50:940 mg/kg KSRNAM 19,68899,85
scu-mus LD50:9500 mg/kg KSRNAM 19,68899,85
ivn-mus LD50:26,200 µg/kg KSRNAM 19,68899,85
orl-dog LD50:1 g/kg KSRNAM 19,68899,85

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

NDY800 CAS: 42471-28-3 HR: D
NIMUSTINE
mf: $C_9H_{13}ClN_6O_2$ mw: 272.73

PROP: Yellow crystals from EtOH. Mp: 125° (decomp).

SYN: 3-(4-AMINO-2-METHYL-5-PYRIMIDINYL)METHYL-1-(2-CHLOROETHYL)-1-NITROSOUREA

TOXICITY DATA with REFERENCE:
mmo-sat 75 µg/plate TAKHAA 44,96,85
dnr-bcs 100 µg/plate TAKHAA 44,96,85

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

NDZ000 CAS: 7440-03-1 HR: 2
NIOBIUM
mf: Nb mw: 92.91

PROP: Steel-gray, cubic crystals. Mp: 2468 ± 10°, bp: 4742°, d: 8.57. Sol in aqua regia, fused alkali. An element that occurs throughout nature.

SYNS: COLUMBIUM □ NIOBIUM-93 □ NIOBIUM ELEMENT □ VN 1

TOXICITY DATA with REFERENCE:
orl-rat LD:>10 g/kg GTPZAB 34(12),56,90
ipr-rat LD:>10 g/kg GTPZAB 34(12),56,90
orl-mus LD:>10 g/kg GTPZAB 34(12),56,90
ipr-mus LD:>10 g/kg GTPZAB 34(12),56,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: An eye and severe skin irritant. Very low toxicity by ingestion and intraperitoneal routes. No reports of human intoxication. Can cause kidney damage. Experimentally, there is a moderate fibrogenic effect on the lungs after intratracheal administration. Some niobium is found in all parts of the body. Flammable in the form of dust when exposed to flame or by chemical reaction. Moderately explosive in the form of dust when exposed to flame. Ignites in fluorine, chlorine (at 205°C). Incandescent reaction with bromine trifluoride.

NEA000 CAS: 10026-12-7 HR: 3
NIOBIUM CHLORIDE
mf: Cl_5Nb mw: 270.16

PROP: Yellow, very deliq, monoclinic crystals. Decomp in moist air evolving HCl. D: 2.75, mp: 204.7−209.5°, bp: approx 250°, subl @ 125°. Sol in inert org solvs, HCl, carbon tetrachloride.

SYNS: COLUMBIUM PENTACHLORIDE □ NIOBIUM PENTACHLORIDE

TOXICITY DATA with REFERENCE:
orl-rat LD50:1400 mg/kg HYSAAV 31,328,66
ipr-rat LD50:40 mg/kg EQSSDX 1,1,75
orl-mus LD50:829 mg/kg HYSAAV 31,328,66
ipr-mus LD50:61 mg/kg 34ZIAG -,422,69

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

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. May cause kidney injury.

When heated to decomposition it emits very toxic fumes of Cl^-. See also NIOBIUM and CHLORIDES.

NEA050 CAS: 1313-96-8 HR: 1
NIOBIUM OXIDE
mf: Nb_2O_5 mw: 265.82
PROP: White crystalline powder. Mp: 1520°. Insol in water.
SYNS: DINIOBIUM PENTAOXIDE □ DINIOBIUM PENTOXIDE □ NIOBIA □ NIOBIUM(5+) OXIDE □ NIOBIUM PENTAOXIDE □ NIOBIUM PENTOXIDE □ NIOBIUM(V) OXIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:>4 g/kg HYSAAV 32(10-12),343,67
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of niobium.

NEA100 CAS: 81486-22-8 HR: 3
NIPRADILOL
mf: $C_{15}H_{22}N_2O_6$ mw: 326.39
SYNS: 3,4-DIHYDRO-8-(2-HYDROXY-3-(ISOPROPYLAMINO)-PROPOXY)-2H-1-BENZOPYRAN-3-OL-3-NITRATE □ 3,4-DIHYDRO-8-(2-HYDROXY-3-ISOPROPYLAMINO)PROPOXY-3-NITROXY-2H-1-BENZOPYRAN □ 3,4-DIHYDRO-8-(2-HYDROXY-3-((1-METHYLETHYL)AMINO)PROPOXY)-2H-1-BENZOPYRAN-3-OL-3-NITRATE □ K 351
TOXICITY DATA with REFERENCE:
orl-rat LD50:1040 mg/kg OYYAA2 29,725,85
ipr-rat LD50:144 mg/kg OYYAA2 29,725,85
scu-rat LD50:850 mg/kg OYYAA2 29,725,85
ivn-rat LD50:78 mg/kg OYYAA2 29,725,85
orl-mus LD50:461 mg/kg OYYAA2 29,725,85
ipr-mus LD50:147 mg/kg OYYAA2 29,725,85
scu-mus LD50:416 mg/kg OYYAA2 29,725,85
ivn-mus LD50:68 mg/kg OYYAA2 29,725,85
ivn-dog LD50:20 mg/kg OYYAA2 29,725,85
orl-rbt LD50:300 mg/kg OYYAA2 29,725,85
SAFETY PROFILE: Poison by ingestion, intravenous, 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. See also NITRATES.

NEA500 CAS: 77-20-3 HR: 3
NISENTIL
mf: $C_{16}H_{23}NO_2$ mw: 261.40
SYNS: ALPHAPRODINE □ 1,3-DIMETHYL-4-PHENYL-4-PIPERIDINOL PROPIONATE (ESTER) □ α-1,3-DIMETHYL-4-PHENYL-4-PIPERIDINYL PROPIONATE □ α-1,3-DIMETHYL-4-PHENYL-4-PROPIONOXYPIPERIDINE □ 1,3-DIMETHYL-4-PHENYL-4-PROPIONOXYPIPERIDINE □ NU-1196 □ PRISILIDINE □ α-PRODINE □ PROPIONIC ACID, α-1,3-DIMETHYL-4-PHENYL-4-PIPERIDYL ESTER
TOXICITY DATA with REFERENCE:
orl-rat LD50:90 mg/kg JPETAB 99,16,50
ipr-rat LD50:22 mg/kg JMCMAR 19,852,76
scu-mus LD50:23 mg/kg JPETAB 99,312,50
ipr-mus LD50:73 mg/kg JPETAB 99,312,50
scu-mus LD50:98 mg/kg JPETAB 99,312,50
ivn-mus LD50:54 mg/kg JPETAB 99,312,50
SAFETY PROFILE: Experimental poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Human teratogenic effects by intravenous route: developmental abnormalities of the cardiovascular system. A narcotic analgesic. When heated to decomposition it emits toxic fumes of NO_x.

NEB000 CAS: 561-78-4 HR: 3
NISENTIL HYDROCHLORIDE
mf: $C_{16}H_{23}NO_2$•ClH mw: 297.86
SYNS: ALPHAPRODINE HYDROCHLORIDE □ 1,3-DIMETHYL-4-PHENYL-4-PIPERIDINOL, PROPIONATE, HYDROCHLORIDE □ 1,3-DIMETHYL-4-PHENYL-4-PIPERIDYL PROPIONATE HYDROCHLORIDE □ dl-1,3-DIMETHYL-4-PHENYL-4-PIPERIDINOL PROPIONATE HYDROCHLORIDE □ (±)-1,3-DIMETHYL-4-PHENYL-4-PIPERIDYL ESTER PROPIONIC ACID HYDROCHLORIDE □ (±)-α-1,3-DIMETHYL-4-PHENYL-4-PROPIONOXYPIPERIDINE HYDROCHLORIDE □ NISENTIL □ NU-1196 □ PRISILIDENE HYDROCHLORIDE □ α-PRODINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-hmn LDLo:1440 µg/kg CTOXAO 5,307,72
orl-rat LD50:90 mg/kg JPETAB 93,314,48
ipr-rat LD50:22 mg/kg JPETAB 99,312,50
scu-rat LD50:23 mg/kg JPETAB 99,312,50
ivn-rat LD50:25 mg/kg AIPTAK 109,171,57
ipr-mus LD50:73 mg/kg JPETAB 99,312,50
scu-mus LD50:98 mg/kg JPETAB 99,312,50
ivn-mus LD50:32 mg/kg JPETAB 99,314,48
ivn-dog LD50:36,200 µg/kg AIPTAK 109,171,57
ivn-rbt LD50:19 mg/kg JPETAB 99,312,50
SAFETY PROFILE: A deadly human poison by ingestion. Poison experimentally by ingestion, subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also NISENTIL.

NEB050 CAS: 1414-45-5 HR: D
NISIN PREPARATION
mf: $C_{143}H_{230}N_{42}O_{37}S_7$ mw: 3354.25
PROP: Crystals from ethanol. Derived from Streptoccus lactus Lancefield Group N.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

NEC000 CAS: 1432-75-3 HR: 3
NITRALAMINE HYDROCHLORIDE
mf: $C_{10}H_{13}ClN_2O_2S$•ClH mw: 297.22
PROP: A solid. Mp: 109−113°.
SYNS: 2-((o-CHLORO-α-(NITROMETHYL)BENZYL)THIO)ETHYLAMINE HYDROCHLORIDE □ ((α-NITROMETHYL)-o-CHLOROBENZYLTHIO-)ETHYLAMINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:100 mg/kg CSLNX* NX#08976
ipr-rat LD50:124 mg/kg 28ZEAL 4,301,69
ipr-mus LD50:130 mg/kg 28ZEAL 4,301,69
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of SO_x, NO_x, and Cl^-.

NEC500 CAS: 101976-64-1 HR: 3
NITRAMINOACETIC ACID
mf: $C_2H_4N_2O_4$ mw: 120.08
SYNS: O-ACETYL NITROHYDROXYAMINE □ O-ACETYL-N-NITROHYDROXYLAMINE
TOXICITY DATA with REFERENCE:
orl-mus LD50:40 mg/kg 85ERAY 1,902,78
ipr-mus LD50:43 mg/kg 85ERAY 1,902,78
ivn-mus LD50:32 mg/kg 85ERAY 1,902,78
SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES.

NED000 HR: 3
NITRATES
PROP: Organic nitrates are usually termed nitro compounds. These compounds are a combination of the nitro (—NO_2) group and an organic radical. However, this term is often used to denote nitric acid esters of an organic material. Inorganic nitrates are compounds of metals with the monovalent NO_3 radical.
SAFETY PROFILE: Large amounts taken by mouth may have serious or even fatal effects. The symptoms are dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, convulsions, and collapse. Small, repeated doses may lead to weakness, general depression, headache, and mental impairment. Also, there is some implication of increased cancer incidence among those exposed.

Flammable by spontaneous chemical reaction; practically all nitrates are powerful oxidizing agents. Some nitrates may explode when shocked, exposed to heat or flame, or by spontaneous chemical reaction (see also EXPLOSIVES, HIGH). All the inorganic nitrates act as oxygen carriers; under proper conditions, these can give up their oxygen to other materials which may in turn detonate. Ammonium nitrate has all the properties of the other nitrates, but it is also able to detonate by itself under certain conditions. It is therefore a high explosive, although very insensitive to impact and difficult to detonate. In the pure state, it requires a combination of an initiator and a high explosive. It is a relatively safe high explosive, which, however, must be stored in a cool, ventilated place away from acute fire hazards and easily oxidized materials. Ammonium nitrate must not be confined because, if a fire should start, confinement can cause detonation with extremely violent results.

Violent reaction with Al, BP, cyanide, esters, PN_2H, P, NaCN, $SnCl_2$, sodium hypophosphite, thiocyanates. Dangerous disaster hazard due to fire and explosion hazard. When heated to decomposition it emits toxic fumes of NO_x. They are powerful oxidizing agents that may cause violent reaction with reducing materials. Nitrates should be protected carefully in storage.

NED500 CAS: 7697-37-2 HR: 3
NITRIC ACID
DOT: UN 2031
mf: HNO_3 mw: 63.02
PROP: Transparent, colorless or yellowish, fuming, suffocating, caustic and corrosive liquid. Pure acid; decomp especially in light. Mp: −42°, bp: 83°, d: 1.50269 @ 25°/4°. IDLH 25 ppm.
SYNS: ACIDE NITRIQUE (FRENCH) □ ACIDO NITRICO (ITALIAN) □ AQUA FORTIS □ AZOTIC ACID □ AZOTOWY KWAS (POLISH) □ HYDROGEN NITRATE □ KYSELINA DUSICNE □ NITRIC ACID, over 40% (DOT) □ NITRIC ACID other than red fuming with >70% nitric acid (DOT) □ NITRIC ACID other than red fuming with not >70% nitric acid (DOT) □ SALPETERSAEURE (GERMAN) □ SALPETERZUUROPLOSSINGEN (DUTCH)
TOXICITY DATA with REFERENCE:
orl-hmn LDLo:430 mg/kg YAKUD5 22,651,80
unr-man LDLo:110 mg/kg 85DCAI 2,73,70
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. Community Right-To-Know List.
OSHA PEL: TWA 2 ppm; STEL 4 ppm
ACGIH TLV: TWA 2 ppm; STEL 4 ppm
DFG MAK: 2 ppm (5.2 mg/m^3)
NIOSH REL: (Nitric Acid) TWA 2 ppm
DOT CLASSIFICATION: 8; Label: Corrosive, Oxidizer, Poison
SAFETY PROFILE: Human poison by ingestion. An experimental teratogen. Experimental reproductive effects. Corrosive to eyes, skin, mucous membranes, and teeth. Causes upper respiratory irritation that may seem to clear up, only to return in a few hours and more severely. Depending on environmental factors the vapor will consist of a mixture of the various oxides of nitrogen and nitric acid. Flammable by chemical reaction with reducing agents. It is a powerful oxidizing agent.

Explosive reaction with acetic anhydride, acetone + acetic acid (in storage), acetone + hydrogen peroxide, acetone + sulfuric acid (if confined), alcohols, alkane thiols, 2-aminothiazole, 2-aminothiazole + sulfuric acid, dinitrogen tetraoxide or sulfuric acid + aromatic amines (e.g., aniline, n-ethylamine, o-toluidine, xylidine, p-phenylenediamine), benzidine (hypergolic), benzonitrile + sulfuric acid, 5-acetylamino-3-bromobenzo(b)thiophene, 1,4-bis(methoxymethyl)-2,3,5,5-tetramethylbenzene (at 80°C), 1,3-bis(trifluoromethyl)benzene + sulfuric acid (vapors are initiated by spark), tert-butyl-m-xylene, cadmium phosphide, chlorobenzene, cotton + rubber + sulfuric acid + water (mixture has caused industrial explosions), crotonaldehyde (hypergolic), cyclohexylamine, 1,2-diaminoethanebis(trimethylgold), diethyl ether, diethyl ether + sulfuric acid, 1,1-dimethyl hydrazine (hypergolic), dimethyl sulfide, dimethyl sulfide + 1,4-dioxane, dimethyl sulfoxide + water, dinitrogen tetraoxide + nitrogenous fuels (hypergolic with triethylamine, dimethylhydrazine, mixo-xylidine), dioxane + perchloric acid, diphenyldistibene, divinyl ether (hypergolic), ethane sulfonamide, 5-ethyl-2-methylpyridine, fat + sulfuric acid (when confined), 2-formylamino-1-phenyl-1,3-propanediol, fluorine, furfurylidene ketones (hypergolic), glycerin + sulfuric acid, hexalithium disilicide, 2,2,4,4,6,6-hexamethyl-trithiane, hydrazine (hypergolic), hydrocarbons, hydrocarbons + 1,1-dimethylhydrazine, hydrogen peroxide + soils, ion exchange resins, magnesium + 2-nitroaniline (hypergolic), metal acetylides (e.g., cesium acetylide, rubidium acetylide), metal cyanides,

metal hexacyanoferrates (3-) or (4-), metal thiocyanates, 4-methylcyclohexanone (above 75°C), methylthiophene, nitrobenzene + sulfuric acid, 1-nitronaphthalene + sulfuric acid, nonmetal hydrides (e.g., arsine, phosphine, tetraborane(10), stibene), phosphorus, organic materials + oxidizers (e.g., perchloric acid, potassium chlorate, sulfuric acid), phenylacetylene + 1,1-dimethylhydrazine, phosphine derivatives (e.g., phosphine, phosphonium iodide, ethyl phosphine, tris(iodomercury) phosphine), tetraphosphorus diiodo triselenide, phosphorus trichloride, polyurethane foam, propiophenone + sulfuric acid, pyrocatechol (hypergolic), potassium phosphinate + heat, resorcinol, rubber, silicone oil, silver buten-3-ymide, sulfur dioxide, 1,3,5-triacetylhexahydro-1,3,5-triazine + trifluoroacetic anhydride, triazine + trifluoroacetic anhydride, zinc ethoxide. Explosive or hypergolic reaction with various hydrocarbons (e.g., acetylene derivatives, benzene, 3-carene, cashew nut shell oil, cyclopentadienes, dicyclopentadiene, dienes, hexamethylbenzene, mesitylene, burning petroleum products, toluene, turpentine, p-xylene).

Ignition on contact with acetone, alcohols + disulfuric acid, alcohols + potassium permanganate, aliphatic amines, O-alkyl ethylene dithiophosphate, ammonia, anilinium nitrate + inorganic materials (e.g., copper(I) chloride, potassium permanganate, sodium pentacyanonitrosylferrate, vanadium(V) oxide, ammonium metavanadate, sodium metavanadate, aromatic amines + metal compounds (e.g., ammonium metavanadate), copper(I) oxide, copper(II) oxide, iron(III) chloride, iron(III) oxide, potassium chromate, potassium dichromate, potassium hexacyanoferrate(I), potassium hexacyanoferrate(III), sodium metavanadate, sodium pentacyanonitrosylferrate(II), vanadium(V) oxide), dichromates + organic fuels (e.g., ammonium dichromate, potassium dichromate, potassium chromate, cyclohexanol, 2-cresol, 3-cresol, furfural), diphenyl tin, lead-containing rubber, metals (e.g., lithium, sodium, magnesium), nonmetal hydrides (e.g., hydrogen iodide, hydrogen selenide, hydrogen sulfide, hydrogen telluride), phosphorus vapor, nickel tetraphosphide, tetraphosphorus iodide, polysilylene, turpentine + catalysts (e.g., concentrated sulfuric acid, iron(III) chloride, ammonium metavanadate, copper(II) chloride), wood.

Forms explosive mixtures with acetic acid, acetic acid + sodium hexahydroxyplatinate(IV), acetic anhydride + hexamethylenetetramine acetate, acetoxyethylene glycol, ammonium nitrate, anilinium nitrate, 1,2-dichloroethane, dichloroethylene, dichloromethane, diethylaminoethanol, 3,6-dihydro-1,2,2H-oxazine, dimethyl ether, 1,3-dinitrobenzene, disodium phenyl orthophosphate, 2-hexenal (heat sensitive), hydrofluoric acid + lactic acid, hydrofluoric acid + propylene glycol + silver nitrate, hydrogen peroxide + ketones (e.g., 2-butanone, 3-pentanone, cyclopentanone, cyclohexanone, 3-methylcyclohexanone), hydrogen peroxide + mercury(II) oxide, metals (e.g., titanium, uranium, tin), metal salicylates, nitroaromatics (e.g., mono- and di-nitrobenzenes, di- and tri-nitrotoluenes), nitrobenzene + water, nitromethane, salicylic acid.

Incompatible with 4-acetoxy-3-methoxybenzaldehyde, acetylene, acrolein, acrylonitrile, acrylonitrile + methacrylate copolymer, allyl alcohol, allyl chloride, 2-amino ethanol, ammonium hydroxide, aniline, anion exchange resins, antimony, SbH_3, arsenic hydride, arsine + boron tribromide, benzo[b]thiophene derivatives, N-benzyl-N-ethylaniline + sulfuric acid, bismuth, boron, boron decahydride, B_4H_{10}, boron phosphide, bromine pentafluoride, butanethiol, 2,6-di-tert-butyl phenol, calcium hypophosphite, carbon, $C_2H_5PH_2$, cellulose, Cs_2C_2, chlorine trifluoride, 4-chloro-2-nitroaniline, chlorosulfonic acid, coal, CuN_3, Cu_3N_2, copper(I) nitride, cresol, cumene, cyanides, cyclic ketones, cyclohexanol + cyclohexanone, diborane, di-2-6-butoxyethylether (butex), dichromate + anion exchange resins, diisopropylether, dimethylaminomethylferrocene + water, uns-dimethyl hydrazine, diphenylmercury, epichlorohydrin, ethanol, m-ethylaniline, ethylene diamine, ethylene imine, 5-ethyl-2-picoline, formaldehyde + impurities, formic acid + heat, formic acid + urea, furfural, furfuryl alcohol, germanium, glycerol + hydrofluoric acid, glyoxal, hydrogen iodide, HN_3, hydrogen peroxide, hydrogen selenide, hydrogen sulfide, H_2Te, indane + sulfuric acid, FeO, iron(II) oxide powder, isoprene, ketones + hydrogen peroxide, lactic acid + HF, Li_6Si_2, magnesium silicide, magnesium phosphide, magnesium-titanium alloy, manganese, mesityl oxide, mesitylene, metals (e.g., bismuth powder, germanium powder, uranium powder, molten zinc), 2-methyl-5-ethyl pyridine, NdP, nonmetal powders (e.g., boron, silicon, arsenic, carbon), n-butyraldehyde, oleum, phosphorus halides, phthalic acid, phthalic anhydride, polyalkenes (e.g., polyethylene, polypropylene), polydibromosilane, polyethylene oxide derivatives, KH_2PO_2, β-propiolactone, propylene oxide, pyridine, Rb_2C_2, reductants, selenium, selenium iodophosphide, silver + ethanol, sodium, sodium hydroxide, NaN_3, sucrose, sulfamic acid, sulfuric acid, sulfuric acid + $C_6H_5CH_3$, sulfuric acid + glycerides, sulfur halides (e.g., sulfur dichloride, sulfur dibromide, disulfur dibromide), sulfuric acid + terephthalic acid, terpenes, thioaldehydes, thiocyanates, thioketones, thiophene, titanium, titanium alloy, titanium-magnesium alloy, toluidine, triazine, tricadmium diphosphide, triethylgallium monoetherate, trimagnesium diphosphide, 2,4,6-trimethyltrioxane, uranium, uranium disulfide, uranium-neodymium alloy, uranium-neodymium-zirconium alloy, vinylacetate, vinylidene chloride, zinc, zirconium-uranium alloys.

Will react with water or steam to produce heat and toxic and corrosive fumes. To fight fire, use water. When heated to decomposition emits highly toxic fumes of NO_x and hydrogen nitrate.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-127 or NIOSH: Acids, Inorganic, 7903.

NEE000 CAS: 13277-59-3 HR: 1
NITRIC ACID, DODECYL ESTER
mf: $C_{12}H_{25}NO_3$ mw: 231.38
SYNS: DODECYL NITRATE □ LAURYLESTER KYSELINY DUSICNE (CZECH) □ LAURYLNITRAT (CZECH) □ LAURYL NITRATE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK -,49,72
eye-rbt 500 mg/24H MLD 28ZPAK -,49,72

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

NEE100 CAS: 13446-18-9 HR: 1
NITRIC ACID, MAGNESIUM SALT, HEXAHYDRATE
mf: N_2O_6•Mg•$6H_2O$ mw: 256.45
SYNS: DUSICNAN HORECNATY □ MAGNESIUM DINITRATE HEXAHYDRATE □ MAGNESIUM NITRATE HEXAHYDRATE □ MAGNESIUM(II) NITRATE (1:2), HEXAHYDRATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK-,9,1972
eye-rbt 500 mg/24H MLD 28ZPAK-,9,1972
orl-rat LD50:5440 mg/kg 28ZPAK-,9,1972
SAFETY PROFILE: Low toxicity by ingestion. A mild skin and eye irritant. When heated to decomposition it emits toxic vapors of NO_x and Mg.

NEE500 CAS: 7697-37-2 HR: 3
NITRIC ACID (RED FUMING)
DOT: UN 2032
mf: HNO_3 mw: 63.02
PROP: Colorless to yellow to red corrosive liquid. D: >1.480. Contains from 8 to 17% NO_2 (AMIHBC 10,418,54).
SYNS: NITRIC ACID, FUMING (DOT) □ NITRIC ACID, RED FUMING (DOT) □ NITROUS FUMES □ RED FUMING NITRIC ACID □ RFNA
TOXICITY DATA with REFERENCE:
ihl-rat LC50:67 ppm (NO_2)/4H AMIHBC 10,418,54
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
DOT CLASSIFICATION: 8; Label: Corrosive, Oxidizer, Poison
SAFETY PROFILE: Poison by inhalation. A corrosive irritant to skin, eyes, and mucous membranes. A very dangerous fire hazard and very powerful oxidizing agent. Can react explosively with many reducing agents. Will react with water or steam to produce heat and toxic, corrosive, and flammable vapors. When heated to decomposition it emits highly toxic fumes of NO_x. See also NITRIC ACID.

NEF000 HR: 3
NITRIC ACID (WHITE FUMING)
mf: HNO_3 mw: 63.02
PROP: Contains from 0.1 to 0.4% NO_2 (AMIHBC 10,418,54).
SYNS: WFNA □ WHITE FUMING NITRIC ACID
TOXICITY DATA with REFERENCE:
ihl-rat LC50:244 ppm (NO_2)/30M AMIHBC 10,418,54
SAFETY PROFILE: Moderately toxic by inhalation. A corrosive irritant to skin, eyes, and mucous membranes. A very dangerous fire hazard and a very powerful oxidizing agent. Can react explosively with many reducing agents. Will react with water or steam to produce heat and toxic, corrosive, and flammable vapors. When heated to decomposition it emits highly toxic fumes of NO_x. See also NITRIC ACID.

NEF500 CAS: 10196-18-6 HR: 2
NITRIC ACID, ZINC SALT, HEXAHYDRATE
mf: N_2O_6•Zn•$6H_2O$ mw: 297.51
PROP: Tetragonal, colorless crystals. D: 2.065 @ 14°, mp: 36.4°, bp: H_2O @ 105−131°.
SYNS: DUSICNAN ZINECNATY (CZECH) □ ZINC(II) NITRATE, HEXAHYDRATE (1:2:6)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV 28ZPAK -,10,72
eye-rbt 20 mg/24H SEV 28ZPAK -,10,72
orl-rat LD50:1190 mg/kg 28ZPAK -,10,72
CONSENSUS REPORTS: Zinc and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Moderately toxic by ingestion. A severe skin and eye irritant. Can react violently with carbon; copper; metal sulfides; organic matter; phosphorus; sulfur. When heated to decomposition it emits toxic fumes of NO_x and ZnO. See also ZINC COMPOUNDS and NITRATES.

NEG000 CAS: 7782-94-7 HR: 3
NITRIC AMIDE
mf: $H_2N_2O_2$ mw: 62.03
O_2NNH_2
PROP: Very unstable, shiny, white crystalline solid or leaflets from Et_2O/pet ether. Mp: 72−75° (decomp); sol in ether, alc, acetone, water; sltly sol in benzene; insol in pet ether, chloroform.
SYN: NITRAMIDE
SAFETY PROFILE: Unstable. Reactions are violent. Can be explosive at specific temperatures. Explodes on contact with concentrated alkali or concentrated sulfuric acid. When heated to decomposition it emits toxic fumes of NO_x. See also AMMONIA (which is easily evolved) and AMIDES.

NEG100 CAS: 10102-43-9 HR: 3
NITRIC OXIDE
DOT: UN 1660
mf: NO mw: 30.01
PROP: Colorless non-flammable gas or blue liquid and solid. With O_2 gives brown NO_2. Mp: −161°, bp: −151.18°, d: 1.3402 g/L; liquid, 1.269 @ −150°; gas, 1.04 g/L. Sltly sol in water. IDLH 100 ppm.
SYNS: BIOXYDE d'AZOTE (FRENCH) □ NITROGEN MONOXIDE □ OXYDE NITRIQUE (FRENCH) □ RCRA WASTE NUMBER P076 □ STICKMONOXYD (GERMAN)
TOXICITY DATA with REFERENCE:
mmo-sat 30 ppm MUREAV 136,119,84
msc-rat-ihl 27 ppm/3H-C MUREAV 136,119,84
msc-ham:lng 10 ppm/10M-C MUREAV 136,119,84
ihl-rat LC50:1068 mg/m^3 GTPZAB 19(4),52
ihl-mus LCLo:320 ppm AEPPAE 181,145,36
ihl-dog LCLo:5000 ppm/25M BJANAD 39,393,67
ihl-rat TCLo:50 mg/m^3/6H/7W-I GTPZAB 19(4),52,75
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Extremely Hazardous Substances List.
OSHA PEL: TWA 25 ppm
ACGIH TLV: TWA 25 ppm
NIOSH REL: (Oxides of Nitrogen) TWA 25 ppm
DOT CLASSIFICATION: 2.3; Label: Poison Gas

SAFETY PROFILE: A poison gas. A severe eye, skin, and mucous membrane irritant. A systemic irritant by inhalation. Mutation data reported. Exposure may occur whenever nitric acid acts upon organic material, such as wood, sawdust, and refuse; it occurs when nitric acid is heated, and when organic nitro compounds are burned, for example, celluloid, cellulose nitrate (guncotton), and dynamite. The action of nitric acid upon metals, as in metal etching and pickling, also liberates the fumes. In high-temperature welding, as with the oxyacetylene or electric torch, the nitrogen and oxygen of the air unite to form oxides of nitrogen. Automobile exhaust and power plant emissions are also sources of NO_x. Exposure occurs in many manufacturing processes when nitric acid is made or used. Oxides of nitrogen have been implicated as a cause of acid rain.

The oxides of nitrogen are somewhat soluble in water, reacting with it to form nitric and nitrous acids. This is the action that takes place deep in the respiratory system. The acids formed are irritating and can cause congestion in the throat and bronchi and edema of the lungs. The acids are neutralized by the alkalies present in the tissues, with the formation of nitrates and nitrites. The latter may cause some arterial dilation, fall in blood pressure, headache, and dizziness, and there may be some formation of methemoglobin. However, the nitrite effect is of secondary importance.

Because of their relatively low solubility in water, the nitrogen oxides are initially only slightly irritating to the mucous membranes of the upper respiratory tract. Their warning power is therefore low, and dangerous amounts of the fumes may be breathed before the worker notices any real discomfort. Higher concentrations (60−150 ppm) cause immediate irritation of the nose and throat, with coughing and burning in the throat and chest. These symptoms often clear upon breathing fresh air, and the worker may feel well for several hours. Some 6−24 hours after exposure, a sensation of tightness and burning in the chest develops, followed by shortness of breath, sleeplessness, and restlessness. Dyspnea and air hunger may increase rapidly with development of cyanosis and loss of consciousness followed by death. In cases that recover from the pulmonary edema, there is usually no permanent disability, but pneumonia may develop later. Concentrations of 100−150 ppm are dangerous for short exposures of 30−60 minutes. Concentrations of 200−700 ppm may be fatal after even very short exposures.

Continued exposure to low concentrations of the fumes, insufficient to cause pulmonary edema, is said to result in chronic irritation of the respiratory tract, with cough, headache, loss of appetite, dyspepsia, corrosion of the teeth, and gradual loss of strength.

Exposure to NO_x is always potentially serious, and persons so exposed should be kept under close observation for at least 48 hours.

An oxidizer. The liquid is a sensitive explosive. Explosive reaction with carbon disulfide (when ignited), methanol (when ignited), pentacarbonyl iron (at 50°C), phosphine + oxygen, sodium diphenylketyl, dichlorine oxide, fluorine, nitrogen trichloride, ozone, perchloryl fluoride (at 100−300°C), vinyl chloride. Reacts to form explosive products with dienes (e.g., 1,3-butadiene, cyclopentadiene, propadiene).

Can react violently with acetic anhydride, Al, amorphous boron, BaO, BCl_3, $CsHC_2$, calcium, carbon + potassium hydrogen tartrate, charcoal, ClO, pyrophoric chromium, 1,2-dichloroethane, dichloroethylene, ethylene, fuels, hydrocarbons, hydrogen + oxygen, Na_2O, uns-dimethyl hydrazine, NH_3, $CHCl_3$, Fe, Mg, Mn, CH_2Cl_2, olefins, phosphorus, PNH_2, PH_3, potassium, potassium sulfide, propylene, rubidium acetylide, Na, S, tungsten carbide, trichloroethylene, 1,1,1-trichloroethane, uns-tetrachloroethane, uranium, uranium dicarbide. Will react with water or steam to produce heat and corrosive fumes; can react vigorously with reducing materials.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-109.

NEH000 HR: 2
NITRIDES

PROP: Compounds of $N(3^-)$ as the anion, such as Li_3N, Ca_3N_2, etc.

SAFETY PROFILE: The details of the toxicity of nitrides as a group are unknown. However, many nitrides react with moisture to evolve ammonia. This gas is an irritant to mucous membranes. To the extent that many nitrides evolve flammable ammonia gas upon contact with moisture, nitrides can be fire hazards. A moderate explosion hazard. When heated to decomposition they emit toxic fumes of NH_3. See also AMMONIA.

NEH500 HR: 3
NITRILES

PROP: Nitriles are organic compounds containing the (−C≡N) grouping, e.g., acrylonitrile (CH_2:CHC≡N).

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

SAFETY PROFILE: Nitriles are organic cyanides; acrylonitrile, propionitrile, and some others resemble cyanides in toxicity. Other nitriles, such as cyanamides and cyanates, have no cyanide effect. Can react violently with ($LiAlH_4$ + H_2O). The nitriles may be used as insecticides. Many are flammable. When heated to decomposition they emit highly toxic fumes of CN^-. See also specific compounds and CYANIDE.

NEH600 CAS: 33310-62-2 HR: 3
1,1′-(Δ,Δ′-NITRILODITETRAMETHYLENE)BIS(γ-BUTYL-γ-(1-NAPHTHYL)PIPERIDINE)

mf: $C_{46}H_{63}N_3$ mw: 658.12

SYN: PIPERIDINE, 1,1'-(Δ,Δ'-NITRILODITETRAMETHYLENE)-BIS(γ-BUTYL-γ-(1-NAPHTH YL)-

TOXICITY DATA with REFERENCE:

ipr-mus LD50:220 mg/kg CHTPBA 6,10,1971

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

NEH610 CAS: 31385-05-4 HR: 3
1,1′-(Δ,Δ′-NITRILODITETRAMETHYLENE)BIS(γ-BUTYL-γ-(1-NAPHTHYL)PYRROLIDINE)

mf: $C_{44}H_{59}N_3$ mw: 630.06

SYN: PYRROLIDINE, 1,1'-(Δ,Δ'-NITRILODITETRAMETHYLENE)BIS(γ-BUTYL-γ-(1-NAPHTH YL)-

TOXICITY DATA with REFERENCE:
ipr-mus LD50:115 mg/kg CHTPBA 6,10,1971

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

NEH700 CAS: 75157-06-1 HR: 2
NITRILOPYRAMINE TOSYLATE
mf: $C_{21}H_{27}N_3 \bullet xC_7H_8O_3S$ mw: 1526.98

SYN: 2-PYRIDINEACETONITRILE, α-(2-(BIS(1-METHYLETHYL-)AMINO)ETHYL)-α-PHENYL-, 4-METHYLBENZENESULFONATE

TOXICITY DATA with REFERENCE:
orl-rat LD50:596 mg/kg JACTDZ 1,35,90

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

NEH800 CAS: 18994-66-6 HR: 2
NITRILOTRIACETIC ACID MONOSODIUM SALT
mf: $C_6H_8NO_6 \bullet Na$ mw: 213.14

SYNS: ACETIC ACID, NITRILOTRI-, MONOSODIUM SALT □ N,N-BIS(CARBOXYMETHYL)GLYCINE MONOSODIUM SALT □ GLYCINE, N,N-BIS(CARBOXYMETHYL)-, MONOSODIUM SALT (9CI) □ MONOSODIUM NITRILOTRIACETATE □ SODIUM DIHYDROGEN NITRILOTRIACETATE

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 48,181,90; Animal Sufficient Evidence IMEMDT 48,181,90; Human No Adequate Data IMEMDT 48,181,90.

SAFETY PROFILE: Questionable carcinogen. When heated to decomposition it emits toxic vapors of NO_x and NaO.

NEI000 CAS: 18662-53-8 HR: 3
NITRILOTRIACETIC ACID TRISODIUM SALT MONOHYDRATE
mf: $C_6H_6NO_6 \bullet 3Na \bullet H_2O$ mw: 311.16

PROP: White odorless crystalline powder. Mp: 340°, d: 1.782. Sol in water.

SYNS: N,N-BIS(CARBOXYMETHYL)GLYCINE TRISODIUM SALT MONOHYDRATE □ NCI-C01445 □ NITRILOACETIC ACID TRISODIUM SALT MONOHYDRATE □ NTA SODIUM HYDRATE □ TRISODIUM NITRILOTRIACETATE MONOHYDRATE

TOXICITY DATA with REFERENCE:
msc-hmn:oth 11 μmol/L TOLED5 25,137,85
orl-rat TDLo:900 μg/kg (9-14D preg):TER TXAPA9 23,222,72
orl-rat TDLo:830 g/kg/2Y-C:CAR NCITR* NCI-CG-TR-6,77
orl-mus TDLo:315 g/kg/75W-C:CAR NCITR* NCI-CG-TR-6,77
orl-rat TD:876 g/kg/2Y-C:ETA FCTOD7 20,441,82
ipr-mus LD50:500 mg/kg NTIS** AD691-490

CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-6,77. Cyanide and its compounds are on the Community Right-To-Know List.

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Moderately toxic by intraperitoneal route. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x, CN^-, and Na_2O.

NEI100 CAS: 6419-19-8 HR: 2
NITRILOTRIMETHYLPHOSPHONIC ACID
mf: $C_3H_{12}NO_9P_3$ mw: 299.07

PROP: Colorless to yellowish clear liquid. Mp: −14°, bp: 105°, d: 1.33 @ 20°. Very sol in water.

SYNS: AMINOTRI(METHYLENEPHOSPHONIC ACID) □ AMINOTRI(METHYLPHOSPHONIC ACID) □ AMINOTRIS-(METHANEPHOSPHONIC ACID) □ AMINOTRIS(METHYLPHOSPHONIC ACID) □ DEQUEST 2000 □ DOWELL L 37 □ FERROFOS 509 □ NITRILOTRIMETHANEPHOSPHONIC ACID □ NITRILOTRIMETHYLENEPHOSPHONIC ACID □ (NITRILOTRIS(METHYLENE))TRISPHOSPHONIC ACID □ NITRILOTRIS-(METHYLPHOSPHONIC ACID) □ PHOSPHONIC ACID, (NITRILOTRIS(METHYLENE))TRI- □ TRIS(PHOSPHONOMETHYL)AMINE

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H EPASR* 8EHQ-0990-0937
eye-rbt 100 mg MOD EPASR* 8EHQ-0990-0937
orl-rat LD50:2100 mg/kg GISAAA 49(2),67,84
skn-rbt LD50:>6310 mg/kg EPASR* 8EHQ-0990-0937

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NEI500 CAS: 122-20-3 HR: 2
1,1′,1″-NITRILOTRI-2-PROPANOL
mf: $C_9H_{21}NO_3$ mw: 191.31

PROP: Pure, crystalline, white solid. Mp: 45°, bp: 305°, flash p: 320°F (OC), d: 1.0200 @ 20°/20°, vap press: <0.01 mm @ 20°.

SYNS: TRIISOPROPANOLAMINE □ TRIS(2-HYDROXYROPYL)AMINE □ TRIS(2-HYDROXY-1-PROPYL)AMINE

TOXICITY DATA with REFERENCE:
eye-rbt 5 mg SEV AJOPAA 29,1363,46
orl-rat LD50:4730 mg/kg GTPZAB 30(7),46,86
orl-mus LD50:2520 mg/kg GISAAA 45(3),79,80
orl-rbt LD50:11 g/kg GISAAA 45(3),79,80
skn-rbt LDLo:10 g/kg UCDS** 4/21/67
orl-gpg LD50:1080 mg/kg JIHTAB 23,259,41

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

SAFETY PROFILE: Moderately toxic by ingestion. Mildly toxic by skin contact. A severe eye irritant. Combustible when exposed to heat or flame. To fight fire, use alcohol foam, water, CO_2, dry chemical. When heated to decomposition it emits toxic fumes of NO_x and CN^-. See also AMINES.

NEI600 CAS: 7327-60-8 HR: 2
NITRILOTRISACETONITRILE
mf: $C_6H_6N_4$ mw: 134.16

SYNS: ACETONITRILE, NITRILOTRI- □ ACETONITRILE, 2,2',2"NITRILOTRIS- □ NITRILOTRIACETONITRILE □ 2,2',2"-NITRILOTRISACETONITRILE

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg/24H MOD NTIS** OTS0570625
eye-rbt 100 mg/24H MOD NTIS** OTS0570625
orl-rat LD50:440 mg/kg NTIS** OTS0570625
skn-rbt LD50:>2 g/kg NTIS** OTS0570625
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

NEI700 CAS: 637-39-8 HR: 2
2,2′,2″-NITRILOTRISETHANOL HYDROCHLORIDE
mf: $C_6H_{15}NO_3$•ClH mw: 185.68
SYNS: ETHANOL, 2,2',2"-NITRILOTRI-, HYDROCHLORIDE ◻ ETHANOL, 2,2',2"-NITRILOTRIS-, HYDROCHLORIDE ◻ TRIETHANOLAMINE HYDROCHLORIDE ◻ TRIETHANOL-AMMONIUM CHLORIDE
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data reported. When heated to decomposition it emits toxic vapors of NO_x and HCl.

NEI800 CAS: 4097-89-6 HR: 3
2,2′,2″-NITRILOTRIS(ETHYLAMINE)
mf: $C_6H_{18}N_4$ mw: 146.28
SYNS: 4-(2-AMINOETHYL)DIETHYLENETRIAMINE ◻ DIETHYLENETRIAMINE, 4-(2-AMINOETHYL)- ◻ N,N-BIS(2-AMINOETHYL)-1,2-ETHANEDIAMINE ◻ 1,2-ETHANEDIAMINE, N,N-BIS(2-AMINOETHYL)- ◻ NITRILOTRIS(ETHYLAMINE) ◻ TREN ◻ TREN HP ◻ TRI(2-AMINOETHYL)AMINE ◻ 2,2',2"-TRIAMINOTRIETHYLAMINE ◻ β,β',β"-TRIAMINOTRIETHYLAMINE ◻ 2,2',2"-TRIAMINOTRIS(ETHYLAMINE) ◻ TRIS(AMINOETHYL)AMINE ◻ TRIS(β-AMINOETHYL)AMINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:246 mg/kg NTIS** OTS0537148
orl-mus LD50:1800 mg/kg STGNBT-,223,1999
skn-rbt LD50:117 mg/kg NTIS** OTS0537147
SAFETY PROFILE: A poison by ingestion and skin contact. When heated to decomposition it emits toxic vapors of NO_x.

NEJ000 HR: 3
NITRITES
PROP: Salts of nitrous acid.
SAFETY PROFILE: Large amounts taken by mouth may produce nausea, vomiting, cyanosis (due to methemoglobin formation), collapse, and coma. Repeated small doses cause a fall in blood pressure, rapid pulse, headache, and visual disturbances. They have been implicated in an increased incidence of cancer. They may react with organic amines in the body to form carcinogenic nitrosamines. Organic nitrites are used to treat angina pectoris. Fire hazards are variable. They are generally powerful oxidizers. On contact with readily oxidized materials, a violent reaction such as a fire or explosion may ensue. Explosion hazards are also variable. Organic nitrites may decompose violently in contact with NH_4, salts, cyanide, KCN. Dangerous; shock may explode them; can react vigorously with reducing materials. When heated to decomposition they emit highly toxic fumes of NO_x. See also SODIUM NITRITE and specific compounds.

NEJ500 CAS: 602-87-9 HR: 3
5-NITROACENAPHTHENE
mf: $C_{12}H_9NO_2$ mw: 199.22
PROP: A solid. Mp: 101.5−102.5°. Sol in Et_2O, EtOH, ligroin, and hot H_2O.
SYNS: 1,2-DIHYDRO-5-NITRO-ACENAPHTHYLENE ◻ 5-NAN ◻ NCI-C01967 ◻ 5-NITROACENAPHTHYLENE ◻ 5-NITROACENAPTHENE ◻ 5-NITRONAPHTHALENE ETHYLENE
TOXICITY DATA with REFERENCE:
mmo-sat 30 ng/plate ENMUDM 7(Suppl 5),1,85
mma-sat 300 ng/plate ENMUDM 7(Suppl 5),1,85
mma-esc 10 µg/plate ENMUDM 7(Suppl 5),1,85
CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 16,319,78. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-118,78. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEJ600 CAS: 5653-21-4 HR: 3
2-NITROACETALDEHYDE OXIME
mf: $C_2H_4N_2O_3$ mw: 104.07
PROP: Plates from Et_2O; prisms from C_6H_6; leaflets from $CHCl_3$. Mp: 79−80°. Sol in water.
SYN: METHAZONIC ACID
SAFETY PROFILE: Explodes when heated above 110°C. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES.

NEK000 CAS: 104-04-1 HR: 2
p-NITROACETANILIDE
mf: $C_8H_8N_2O_3$ mw: 180.18
$O_2NC_6H_4NHCO•CH_3$
PROP: White crystals or prisms. Mp: 214−216°. Almost insol in cold water; sol in hot water, alc, ether.
SYNS: p-ACETAMIDONITROBENZENE ◻ 4-NITROACETANILIDE ◻ 4'-NITROACETANILIDE ◻ N-(4-NITROPHENYL)ACETAMIDE
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:500 mg/kg NCNSA6 5,10,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Reaction with sulfuric acid is vigorous with much gas evolution. When heated to decomposition it emits toxic fumes of NO_x. See also ACETANILIDE and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEK100 CAS: 119-81-3 HR: 3
2-NITRO-p-ACETANISIDIDE
mf: $C_9H_{10}N_2O_4$ mw: 210.21
SYNS: 4-ACETAMIDO-3-NITROANISOLE ◻ p-ACETANISIDIDE, 2-NITRO-

TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#00426
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

NEL000 CAS: 1777-84-0 HR: 2
3-NITRO-p-ACETOPHENETIDIDE
mf: $C_{10}H_{12}N_2O_4$ mw: 224.24
PROP: Yellow needles in water. Mp: 103−104°. Sol in abs alc, ether, and chloroform.
SYNS: 4-ACETAMINO-2-NITROPHENETOLE □ N-(4-ETHOXY-3-NITRO)PHENYLACETAMIDE □ N-(4-ETHOXYPHENYL)-3'-NITROACETAMIDE □ NCI-C01978 □ 2-NITRO-4-ACETAMINO-FENETOL (CZECH) □ 3-NITRO-p-ACETOPHENETIDE □ 5-NITRO-p-ACETOPHENETIDIDE □ 3'-NITRO-p-ACETO-PHENETIDIN
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg/24H MOD 28ZPAK -,115,72
mmo-sat 1 mg/plate ENMUDM 5(Suppl 1),3,83
orl-mus TDLo:957 g/kg/78W-C:NEO NCITR* NCI-CG-TR-133,79
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse NCITR* NCI-CG-TR-133,79; (feed); No Evidence: rat NCITR* NCI-CG-TR-133,79. Reported in EPA TSCA Inventory.
SAFETY PROFILE: An eye irritant. Mutation data reported. Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEL450 CAS: 577-59-3 HR: 2
2′-NITROACETOPHENONE
mf: $C_8H_7NO_3$ mw: 165.15
$O_2NC_6H_4CO{\bullet}CH_3$
PROP: A solid. Mp: 27−28°, bp: 178−179° @ 32 mm.
SYNS: o-NITROACETOPHENONE □ 1-(2-NITROPHENYL)-ETHANONE
TOXICITY DATA with REFERENCE:
dnr-bcs 5 µL/disc MUREAV 170,11,86
orl-rat LD50:1600 mg/kg PESTC* 9(44),6,81
orl-mus LD50:800 mg/kg PESTC* 9(44),6,81
orl-rat LD50:1600 mg/kg PESTC* 9(44),6,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. Solutions with potassium methyl selenide in dimethyl formamide solvent undergo an explosive reaction. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEL500 CAS: 121-89-1 HR: 3
3′-NITROACETOPHENONE
mf: $C_8H_7NO_3$ mw: 165.16
PROP: Needles from EtOH. Mp: 80−81°, bp: 202°. Insol in water; sol in alc.
SYNS: m-NITROACETOPHENONE □ ETHANONE, 1-(3-NITROPHENYL)-(9CI) □ METHYL 3-NITROPHENYL KETONE □ 3-NITROACETOFENON □ m-NITROACETOPHENONE □ 1-(3-NITROPHENYL)ETHANONE □ USAF MA-1
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/2H MLD 85JCAE -,730,86
eye-rbt 500 mg open AMIHBC 10,61,54
mmo-sat 1 mg/plate ENMUDM 9(Suppl 9),1,87
orl-rat LD50:3250 mg/kg AMIHBC 10,61,54
ipr-mus LD50:200 mg/kg NTIS** AD277-689
skn-rbt LD50:3 g/kg AMIHBC 10,61,54
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. An eye and skin irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also 2'-NITROACETOPHENONE.

NEL600 CAS: 100-19-6 HR: 3
p-NITROACETOPHENONE
mf: $C_8H_7NO_3$ mw: 165.16
PROP: Yellow prisms. Mp: 80−82°, bp: 202°
SYNS: p-ACETYLNITROBENZENE □ ACETOPHENONE, 4'-NITRO- □ ETHANONE, 1-(4-NITROPHENYL)- □ METHYL-p-NITROPHENYL KETONE □ 4'-NITROACETOPHENONE □ p-NITROPHENYL METHYL KETONE □ PNAP
TOXICITY DATA with REFERENCE:
mmo-sat 220 µg/plate ENMUDM 9(Suppl 9),1,87
mma-sat 100 µg/plate MUREAV 188,267,87
dnr-bcs 500 µg/disc MUREAV 170,11,86
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Mutation data reported. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

NEM000 CAS: 59748-51-5 HR: D
4′-(3-NITRO-9-ACRIDINYLAMINO)METHANE-SULFONANILIDE
mf: $C_{20}H_{16}N_4O_4S$ mw: 408.46
SYN: N-(4-((3-NITRO-9-ACRIDINYL)AMINO)PHENYL)-METHANESULFONAMIDE
TOXICITY DATA with REFERENCE:
mmo-sat 4074 µmol/L JMCMAR 23,269,80
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

NEM100 CAS: 99020-76-5 HR: 3
NITROACRONYCINE
mf: $C_{20}H_{18}N_2O_5$ mw: 366.40
SYNS: ACRONYCINE, NITRO- □ NITROACRONINE □ 7H-PYRANO(2,3-C)ACRIDIN-7-ONE, 3,12-DIHYDRO-6-METHOXY-3,3,12-TRIMETHYL-ar-NITRO-
TOXICITY DATA with REFERENCE:
unr-mus LDLo:50 mg/kg LLOYA2 30,364,1967
SAFETY PROFILE: A poison by an unreported route. When heated to decomposition it emits toxic vapors of NO_x.

NEM300 HR: 2
NITROALKANES

PROP: Compounds of the form RNO_2 where R is an aliphatic hydrocarbon.
SAFETY PROFILE: Generally mild oxidants. If subjected to high temperatures or pressures, they may decompose violently. Polynitroalkanes are more unstable. Nitroalkanes react with inorganic bases to form explosive products. Metal oxides promote violent decomposition reactions. Nitrate esters have very low stability. Nitroalkenes are generally more reactive and less stable. When heated to decomposition they emit toxic fumes of NO_x.

NEM350 CAS: 2784-89-6 HR: 2
2-NITRO-4-AMINODIPHENYLAMINE
mf: $C_{12}H_{11}N_3O_2$ mw: 229.26
PROP: Used in hair dye.
SYNS: 4-AMINO-2-NITRODIPHENYLAMINE ☐ 1,4-BENZENEDIAMINE, 2-NITRO-N[1])-PHENYL- ☐ 2-NITRO-N[1])-PHENYL-1,4-BENZENEDIAMINE ☐ HC RED NO. 1 ☐ 2-NITRO-N1-PHENYL-1,4-BENZENEDIAMINE ☐ p-PHENYLENEDIAMINE, 2-NITRO-N[1])-PHENYL-
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg MLD JACTDZ 15,320,1996
orl-rat LDLo:1250 mg/kg JACTDZ 15,320,1996
SAFETY PROFILE: Moderately toxic by ingestion. An eye irritant. When heated to decomposition it emits toxic vapors of NO_x.

NEM480 CAS: 119-34-6 HR: 3
2-NITRO-4-AMINOPHENOL
mf: $C_6H_6N_2O_3$ mw: 154.14
PROP: Dark-red plates or needles. Mp: 131°.
SYNS: 4-AMINO-2-NITROPHENOL ☐ C.I. 76555 ☐ FOURRINE 57 ☐ FOURRINE BROWN PR ☐ FOURRINE BROWN PROPYL ☐ 4-HYDROXY-3-NITROANILINE ☐ NCI-C03963 ☐ o-NITRO-p-AMINOPHENOL ☐ OXIDATION BASE 25
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg/24H SEV 28ZPAK -,107,72
mma-sat 100 µg/plate IAPUDO 27,283,80
eye-rbt 100 mg/24H SEV 28ZPAK -,107,72
mmo-sat 100 µg/plate ENMUDM 8(Suppl 5),1,85
otr-rat:emb 11 µg/plate JJATDK 1,190,81
orl-rat LD50:1470 mg/kg NCILB* NIH-NCI-E-C-72-3252,73
ipr-rat LD50:302 mg/kg JTEHD6 2,657,77
orl-mus LD50:1470 mg/kg NCILB* NIH-NCI-E-C-72-3252,73
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 16,43,78. NCI Carcinogenesis Bioassay (feed); No Evidence: mouse NCITR* NCI-CG-TR-94,78; Clear Evidence: rat NCITR* NCI-CG-TR-94,78. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic data. Very poisonous by intraperitoneal route. Moderately toxic by ingestion. A severe eye irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NEM500 CAS: 99-57-0 HR: 3
p-NITRO-o-AMINOPHENOL
mf: $C_6H_6N_2O_3$ mw: 154.14
PROP: Orange prisms. Mp: 142−143°.
SYNS: 3-AMINO-4-HYDROXYNITROBENZENE ☐ 2-AMINO-4-NITROPHENOL ☐ 2-HYDROXY-5-NITROANILINE ☐ NCI-C55958 ☐ 4-NITRO-2-AMINOFENOL (CZECH) ☐ p-NITROAMINOFENOL (POLISH) ☐ RODOL 42
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg/24H MOD 28ZPAK -,107,72
mmo-sat 20 µg/plate CMMUAO 8,151,83
mma-sat 100 µg/plate PNASA6 72,2423,75
pic-esc 100 mmol/L MDMIAZ 31,11,79
orl-rat TDLo:13,750 mg/kg/15D-I:REP,CAR NTPTR* NTP-TR-339,88
orl-rat LD50:2400 mg/kg FCTXAV 15,607,77
ipr-rat LD50:246 mg/kg JTEHD6 2,657,77
orl-mus LD50:850 mg/kg GTPZAB 25(8),50,81
ipr-mus LD50:143 mg/kg GENEA3 26,109,85
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 57,167,93; Animal Limited Evidence IMEMDT 57,167,93; Human Inadequate Evidence IMEMDT 57,167,93. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. An eye irritant. Mutation data reported. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEM600 HR: 3
2-(N-NITROAMINO)PYRIDINE-N-OXIDE
mf: $C_5H_5N_3O_3$ mw: 155.11
$O_2NNHC_5H_4N{:}O$
SAFETY PROFILE: A powerful explosive. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEN000 HR: 3
5-N-NITROAMINOTETRAZOLE
mf: $CH_2N_6O_2$ mw: 130.07
SAFETY PROFILE: Explodes when heated to 140°C. Upon decomposition it emits toxic fumes of NO_x.

NEN300 CAS: 52096-16-9 HR: 3
4-NITROAMINO-1,2,4-TRIAZOLE
mf: $C_2H_3N_5O_2$ mw: 129.08
SAFETY PROFILE: Explodes at the melting point of 72°C. When heated to decomposition it emits toxic fumes of NO_x.

NEN500 CAS: 99-09-2 HR: 3
m-NITROANILINE
DOT: UN 1661
mf: $C_6H_6N_2O_2$ mw: 138.14
PROP: Yellow, rhombic crystals or needles from water. D: 0.9011 @ 25°/4°, mp: 114°, bp: 306.4°. Sol in water, alc, and ether.

SYNS: m-AMINONITROBENZENE ☐ 1-AMINO-3-NITROBENZENE ☐ AZOBASE MNA ☐ C.I. 37030 ☐ C.I. AZOIC DIAZO COMPONENT 7 ☐ DAITO ORANGE BASE R ☐ DEVOL ORANGE R ☐ DIAZO FAST ORANGE R ☐ FAST ORANGE R SALT ☐ HILTONIL FAST ORANGE R BASE ☐ MNA ☐ NAPHTOELAN ORANGE R BASE ☐ m-NITRANILINE ☐ m-NITROAMINOBENZENE ☐ 3-NITROANILINE ☐ 3-NITROBENZENAMINE ☐ m-NITROPHENYLAMINE ☐ ORANGE BASE IRGA I

TOXICITY DATA with REFERENCE:
mmo-sat 15 mmol/L AEMIDF 44,801,82
mma-sat 10 µmol/plate MUREAV 58,11,78
orl-rat LD50:535 mg/kg AMRL** TR-72-62,72
orl-mus LD50:308 mg/kg AMRL** TR-72-62,72
ipr-dog LDLo:70 mg/kg JIDHAN 2,247,20
orl-gpg LD50:450 mg/kg VKMGA7 6,89,66
orl-qal LD50:562 mg/kg AECTCV 12,355,83

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

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mutation data reported. Absorbed through the skin and by inhalation of the dust. Acute exposure may cause methemoglobinemia cyanosis. Chronic exposure may cause liver damage. Flammable liquid. Decomposes exothermically at 247°C. Possibly explosive reaction with ethylene oxide at 130°C. When heated to decomposition it emits toxic fumes of NO_x. See also o-NITROANILINE, p-NITROANILINE, and ANILINE DYES.

NEO000 CAS: 88-74-4 HR: 3
o-NITROANILINE

DOT: UN 1661
mf: $C_6H_6N_2O_2$ mw: 138.14

PROP: Orange-yellow crystals from water. Mp: 72°, bp: 284.5°, vap press: 1 mm @ 104°, d: 0.9015 @ 25°/4°. Sltly sol in cold water; sol in hot water, alc, and ether.

SYNS: 1-AMINO-2-NITROBENZENE ☐ AZOENE FAST ORANGE GR BASE ☐ AZOGENE FAST ORANGE GR ☐ AZOIC DIAZO COMPONENT 6 ☐ BRENTAMINE FAST ORANGE GR BASE ☐ C.I. 37025 ☐ C.I. AZOIC DIAZO COMPONENT 6 ☐ DEVOL ORANGE B ☐ DIAZO FAST ORANGE GR ☐ FAST ORANGE BASE GR ☐ FAST ORANGE BASE JR ☐ FAST ORANGE GR BASE ☐ FAST ORANGE O BASE ☐ HILTONIL FAST ORANGE GR BASE ☐ o-NITROANILINE ☐ 2-NITROANILINE ☐ ORANGE BASE CIBA II ☐ ORANGE BASE IRGA II ☐ ORANGE SALT CIBA II ☐ ORANGE SALT IRGA II

TOXICITY DATA with REFERENCE:
mma-sat 2500 µg/plate FCTOD7 23,695,85
orl-rat LD50:1600 mg/kg VKMGA7 6,89,66
orl-mus LD50:1070 mg/kg GTPZAB 25(8),50,81
skn-rbt LD50:20 g/kg TXAPA9 42,417,77
orl-gpg LD50:2350 mg/kg VKMGA7 6,89,66
orl-qal LD50:750 mg/kg AECTCV 12,355,83

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A poison. Moderately toxic by ingestion. Mildly toxic by skin contact. Mutation data reported. Mixtures with magnesium are hypergolic on contact with nitric acid. Forms extremely explosive addition compounds with hexanitroethane. Vigorous reaction with sulfuric acid above 200°C. When heated to decomposition it emits toxic fumes of NO_x. See also m-NITROANILINE, p-NITROANILINE, and ANILINE DYES.

NEO500 CAS: 100-01-6 HR: 3
p-NITROANILINE

DOT: UN 1661
mf: $C_6H_6N_2O_2$ mw: 138.14

PROP: Bright-yellow powder or pale-yellow needles from water. Mp: 148.5°, bp: 332°, flash p: 390°F (CC), d: 1.424, vap press: 1 mm @ 142.4°. Sol in water, alc, ether, benzene, methanol. IDLH 300 mg/m^3.

SYNS: p-AMINONITROBENZENE ☐ 1-AMINO-4-NITROBENZENE ☐ ANILINE, 4-NITRO- ☐ AZOAMINE RED ZH ☐ AZOIC DIAZO COMPONENT 37 ☐ BENZENAMINE, 4-NITRO-(9CI) ☐ C.I. 37035 ☐ C.I. AZOIC DIAZO COMPONENT 37 ☐ C.I. DEVELOPER 17 ☐ DEVELOPER P ☐ DEVOL RED GG ☐ DIAZO FAST RED GG ☐ FAST RED BASE GG ☐ FAST RED BASE 2J ☐ FAST RED 2G BASE ☐ FAST RED GG BASE ☐ FAST RED MP BASE ☐ FAST RED P BASE ☐ NAPHTOELAN RED GG BASE ☐ NCI-C60786 ☐ p-NITRANILINE ☐ 4-NITRANILINE ☐ NITRAZOL CF EXTRA ☐ p-NITROANILINA ☐ p-NITROANILINE ☐ 4-NITROBENZENAMINE ☐ p-NITROPHENYLAMINE ☐ PNA ☐ RCRA WASTE NUMBER P077 ☐ RED 2G BASE ☐ SHINNIPPON FAST RED GG BASE

TOXICITY DATA with REFERENCE:
mmo-sat 333 µL/plate ENMUDM 5(Suppl 1),3,83
mma-sat 1 mg/L ENMUDM 5,803,83
mma-esc 10 g/L FCTXAV 18,215,80
dnr-esc 10 g/L FCTXAV 18,215,80
orl-rat LD50:750 mg/kg CEHYAN 23,168,78
ipr-rat LDLo:600 mg/kg 85GMAT -,92,82
orl-mus LD50:810 mg/kg TXAPA9 42,417,77
ipr-mus LD50:250 mg/kg NTIS** AD691-490
ims-mus LD50:800 mg/kg IGIBA5 15,151,66
orl-gpg LD50:450 mg/kg VKMGA7 6,89,66
orl-qal LD50:1 g/kg AECTCV 12,355,83
ivn-mam LDLo:40 mg/kg XPHBAO 271,34,41
orl-bwd LD50:75 mg/kg TXAPA9 21,315,72

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

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

ACGIH TLV: TWA 3 mg/m^3 (skin); Not Classifiable as a Human Carcinogen

DFG MAK: 1 ppm (5.7 mg/m^3)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Moderately toxic by intramuscular route. Mutation data reported. Acute symptoms of exposure are headache, nausea, vomiting, weakness and stupor, cyanosis and methemoglobinemia. Chronic exposure can cause liver damage. Experimental reproductive effects. Combustible when exposed to heat or flame. See NITRATES for explosion and disaster hazards. To fight fire, use water spray or mist, foam, dry chemical, CO_2. Vigorous reaction with sulfuric acid above 200°C. Reaction with sodium hydroxide at 130°C under pressure may produce the explosive sodium-4-nitrophenoxide. When heated to decomposition it emits toxic fumes of NO_x. See also m-NITROANILINE, o-

NITROANILINE, NITRO COMPOUNDS OF AROMATIC HYDROCARBONS, and ANILINE DYES.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: p-Nitroaniline, S7.

NEO510 CAS: 645-55-6 HR: 3
N-NITROANILINE
mf: $C_6H_6N_2O_2$ mw: 138.14
SYNS: ANILINE, N-NITRO- □ BENZENAMINE, N-NITRO- □ PHENYLNITRAMINE □ N-PHENYLNITRAMINE
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: An unstable substance forbidden from transport. When heated to decomposition it emits toxic vapors of NO_x.

NEP000 CAS: 66827-74-5 HR: 3
p-NITROANILINE MERCURY(II) derivative
TOXICITY DATA with REFERENCE:
orl-rat LDLo:500 mg/kg NCNSA6 5,32,53
ipr-rat LDLo:500 mg/kg NCNSA6 5,32,53
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m^3 (skin)
SAFETY PROFILE: Mercury compounds are poisons. Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of NO_x and Hg. See also MERCURY and p-NITROANILINE.

NEP500 CAS: 96-75-3 HR: 2
4-NITROANILINE-2-SULFONIC ACID
mf: $C_6H_6N_2O_5S$ mw: 218.20
PROP: Yellow needles or crystals. Very sol in water; sol in aqua H_2SO_4, concentrated HCl; sltly sol in alc.
SYN: 2-AMINO-5-NITRO BENZENESULFONIC ACID
TOXICITY DATA with REFERENCE:
orl-rat LDLo:500 mg/kg JPETAB 90,260,47
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEP600 HR: 3
4-NITROANILINIUM PERCHLORATE
mf: $C_6H_7ClN_2O_6$ mw: 238.58
$O_2NC_6H_4NH_3^+ClO_4^-$
SAFETY PROFILE: A shock- and heat-sensitive explosive. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also PERCHLORATES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEP650 CAS: 97-32-5 HR: D
3-NITRO-p-ANISANILIDE
mf: $C_{14}H_{12}N_2O_4$ mw: 272.28
SYN: p-ANISANILIDE, 3-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 100 µLg/plate EMMUEG 19(Suppl 21),2,1992
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NEQ000 CAS: 97-52-9 HR: 2
4-NITRO-o-ANISIDINE
mf: $C_7H_8N_2O_3$ mw: 168.17
PROP: Pale yellow needles. D: 1.211 @ 156°, mp: 139−140°.
SYNS: AMARTHOL FAST RED B BASE □ 2-AMINO-5-NITROANISOL (CZECH) □ 2-AMINO-5-NITROANISOLE □ ANILINE, 2-METHOXY-4-NITRO- □ ANISOLE, 2-AMINO-5-NITRO- □ AZOAMINE PINK O □ AZOENE FAST RED B BASE □ BENZENAMINE, 2-METHOXY-4-NITRO-(9CI) □ BRENT-AMINE FAST RED B BASE □ C.I. 37125 □ C.I. AZOIC DIAZO COMPONENT 5 □ DAINICHI FAST RED B BASE □ DAITO RED BASE B □ DEVOL RED E □ DIABASE RED B □ DIAZO FAST RED B □ FAST RED B □ FAST RED BASE B □ FAST RED B BASE □ FAST RED 5NA BASE □ HILTONIL FAST RED B BASE □ KAKO RED B BASE □ KAYAKU RED B BASE □ 2-METHOXY-4-NITROANILINE □ 2-METHOXY-4-NITROBENZENAMINE □ MITSUI RED B BASE □ NAPHTHANIL RED B BASE □ NAPHT-HOELAN RED B BASE □ 4-NITRO-o-ANISIDINE □ PNOA □ RED BASE CIBA V □ RED BASE IRGA V □ RED BASE NB □ RED B BASE □ SANYO FAST RED B BASE □ SHINNIPPON FAST RED B BASE □ SHOWA FAST RED B BASE □ SYMULON RED B BASE
TOXICITY DATA with REFERENCE:
orl-rat LD50:997 mg/kg MarJV# 29MAR77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEQ500 CAS: 99-59-2 HR: 3
5-NITRO-o-ANISIDINE
mf: $C_7H_8N_2O_3$ mw: 168.17
PROP: Red needles from alc. D: 1.207 @ 156°, mp: 118°. Sol in hot benzene, alc, and acetic acid; very sltly sol in ligroin.
SYNS: 2-AMINO-1-METHOXY-4-NITROBENZENE □ 3-AMINO-4-METHOXYNITROBENZENE □ 2-AMINO-4-NITRO-ANISOLE □ o-ANISIDINE NITRATE □ AZOAMINE SCARLET □ AZOGENE ECARLATE R □ AZOIC DIAZO COMPONENT 13 BASE □ C.I. AZOIC DIAZO COMPONENT 13 □ C.I. 37130 □ FAST SCARLET R □ 2-METHOXY-5-NITRO-ANILINE □ 2-METHOXY-5-NITROBENZENAMINE □ NCI-C01934 □ 3-NITRO-6-METHOXYANILINE □ 5-NITRO-2-METHOXYANILINE
TOXICITY DATA with REFERENCE:
mmo-sat 10 µmol/plate MUREAV 58,11,78

mma-sat 10 μmol/plate MUREAV 58,11,78
orl-rat LD50:2250 mg/kg GTPZAB 32(3),48,88
orl-mus LD50:1060 mg/kg GTPZAB 25(8),50,81
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 27,133,82. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-127,78. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. Community Right-To-Know List.
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NER000 CAS: 91-23-6 HR: 3
o-NITROANISOLE
mf: $C_7H_7NO_3$ mw: 153.15
$CH_3OC_6H_4NO_2$
PROP: Colorless crystals. D: 1.254 @ 20°/4°, mp: 9.5−10.5°, bp: 277°. Insol in water; sol in alc, ether.
SYNS: 1-METHOXY-2-NITROBENZENE □ 2-METHOXYNITROBENZENE □ NCI-C60388 □ 2-NITROANISOLE □ o-NITROPHENYL METHYL ETHER
TOXICITY DATA with REFERENCE:
mmo-sat 666 μg/plate ENMUDM 5(Suppl 1),3,83
mma-sat 20 μmol/plate MUREAV 58,11,78
orl-rat LD50:1980 mg/kg GTPZAB 25(8),50,81
orl-rat LD50:740 mg/kg GISAAA 51(1),85,86
orl-mus LD50:1300 mg/kg GISAAA 51(1),85,86
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. NCI Carcinogenesis Studies (feed): Clear Evidence: mouse, rat NTPTR* NTP-TR-416,93. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
SAFETY PROFILE: Confirmed carcinogen. Moderately toxic by ingestion. Mutation data reported. Explosive reaction with sodium hydroxide + zinc. Vigorous reaction with hydrogen + catalyst (at 250°C/34bar). When heated to decomposition it emits toxic fumes of NO_x. See also p-NITROANISOLE.

NER500 CAS: 100-17-4 HR: 3
p-NITROANISOLE
mf: $C_7H_7NO_3$ mw: 153.15
PROP: Prisms from alc. D: 1.233 @ 20°, mp: 54°, bp: 274°. Sltly sol in cold pet ether; sol in water; very sol in alc, boiling pet ether, and ether.
SYNS: p-METHOXYNITROBENZENE □ 1-METHOXY-4-NITROBENZENE □ 4-METHOXYNITROBENZENE □ p-NITROANISOL □ 4-NITROANISOLE
TOXICITY DATA with REFERENCE:
mmo-sat 6500 μmol/L ENMUDM 3,11,81
mma-sat 20 μmol/plate MUREAV 58,11,78
orl-rat LD50:2600 mg/kg GTPZAB 25(8),50,81
ipr-rat LD50:1400 mg/kg AGGHAR 17,217,59
orl-mus LDLo:300 mg/kg TPKVAL 4,91,62
ipr-mus LD50:698 mg/kg TXAPA9 41,216,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: A poison by ingestion. Mutation data reported. Can explode in presence of Ni. When heated to decomposition it emits toxic fumes of NO_x. See also o-NITROANISOLE and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NES000 CAS: 3586-69-4 HR: D
2-NITROANTHRACENE
mf: $C_{14}H_9NO_2$ mw: 223.24
PROP: Yellow needles from alc. Mp: 180−181°, bp: >360°. Insol in aq alkali; sltly sol in alc; very sol in benzene.
TOXICITY DATA with REFERENCE:
mmo-sat 25 ng/plate CBINA8 26,11,79
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NES100 CAS: 602-60-8 HR: D
5-NITROANTHRACENE
mf: $C_{14}H_9NO_2$ mw: 223.24
PROP: Bright yellow-orange needles. Mp: 145−146°.
SYNS: ANTHRACENE, 9-NITRO- □ 9-NITROANTHRACENE
TOXICITY DATA with REFERENCE:
mic-bac-sat 12500 ng/plate MUREAV 91,321,81
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal No Adequate Data IMEMDT 33,179,84; Human No Adequate Data IMEMDT 33,179,84.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NES500 CAS: 619-17-0 HR: D
4-NITROANTHRANILIC ACID
mf: $C_7H_6N_2O_4$ mw: 182.15
PROP: Orange prisms from EtOH (aq). Mp: 269°. Spar sol in hot H_2O.
SYNS: 2-AMINO-4-NITRO-BENZOIC ACID □ NCI-C01945
TOXICITY DATA with REFERENCE:
mmo-sat 10 μg/plate ENMUDM 8(Suppl 7),1,86
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-109,78. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NET000 CAS: 82-34-8 HR: 2
1-NITROANTHRAQUINONE
mf: $C_{14}H_7NO_4$ mw: 253.22
PROP: Yellow needles from AcOH; yellow plates by subl. Mp: 230°, bp: 270° @ 7 mm. Sol in EtOH and Et_2O; spar sol in EtOAc, C_6H_6 and $CHCl_3$; insol in H_2O.
SYNS: 1-NITRO-9,10-ANTHRACENEDIONE □ 1-NITRO-ANTHRACHINON (CZECH) □ α-NITROANTHRAQUINONE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK -,120,72

eye-rbt 100 mg/24H MOD 28ZPAK -,120,72
mmo-sat 100 µg/plate GDIKAN 29,278,81
ipr-rat LD50:1050 mg/kg GISAAA 49(4),90,84
orl-mus LD50:1540 mg/kg GISAAA 49(4),90,84
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A skin and eye irritant. Mutation data reported.When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NET100 CAS: 138835-35-5 HR: D
1-NITRO-6-AZABENZO(a)PYRENE
mf: $C_{19}H_{10}N_2O_2$ mw: 298.31
SYNS: 1-N-6-ABP □ NAPHTH(2,1,8-mna)ACRIDINE, 1-NITRO- □ 1-NITRONAPHTH(2,1,8-mna)ACRIDINE
TOXICITY DATA with REFERENCE:
mic-sat 1 ng/plate MUREAV 280,81,1992
mnt-ipr-mus 25 mg/kg MUTAEX 16,183,2001
cyt-ham-fbr 0.023 g/L/48H MUTAEX 16,183,2001
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NET120 CAS: 138835-36-6 HR: D
3-NITRO-6-AZABENZO(a)PYRENE
mf: $C_{19}H_{10}N_2O_2$ mw: 298.31
SYNS: 3-N-6-ABP □ NAPHTH(2,1,8-mna)ACRIDINE, 3-NITRO- □ 3-NITRONAPHTH(2,1,8-mna)ACRIDINE
TOXICITY DATA with REFERENCE:
mic-sat 1 ng/plate MUREAV 280,81,1992
mnt-ipr-mus 25 mg/kg MUTAEX 16,183,2001
cyt-ham-fbr 0.023 g/L/48H MUTAEX 16,183,2001
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NET130 CAS: 138835-33-3 HR: D
1-NITRO-6-AZABENZO(a)PYRENE-N-OXIDE
mf: $C_{19}H_{10}N_2O_3$ mw: 314.31
SYNS: NAPHTH(2,1,8-mna)ACRIDINE, 1-NITRO-, 6-OXIDE □ 1-NITRONAPHTH(2,1,8-mna)ACRIDINE 6-OXIDE
TOXICITY DATA with REFERENCE:
mic-sat 1 ng/plate MUREAV 280,81,1992
mnt-ipr-mus 50 mg/kg MUTAEX 16,183,2001
cyt-ham-fbr 0.05 g/L/48H MUTAEX 16,183,2001
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NET140 CAS: 138835-34-4 HR: D
3-NITRO-6-AZABENZO(a)PYRENE-N-OXIDE
mf: $C_{19}H_{10}N_2O_3$ mw: 314.31
SYNS: NAPHTH(2,1,8-mna)ACRIDINE, 3-NITRO-, 6-OXIDE □ 3-NITRONAPHTH(2,1,8-mna)ACRIDINE 6-OXIDE
TOXICITY DATA with REFERENCE:
mic-sat 1 ng/plate MUREAV 280,81,1992
mnt-ipr-mus 10 mg/kg MUTAEX 16,183,2001
cyt-ham-fbr 0.0025 g/L/48H MUTAEX 16,183,2001
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NET500 CAS: 2491-52-3 HR: D
p-NITROAZOBENZENE
SYN: 4-NITROAZOBENZENE
TOXICITY DATA with REFERENCE:
mmo-sat 100 nmol/plate GANNA2 68,373,77
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NET550 CAS: 480-68-2 HR: 3
5-NITROBARBITURIC ACID
mf: $C_4H_3N_3O_5$ mw: 173.10
PROP: Crystals. Strong nitric acid odor.
SYNS: BARBITURIC ACID, 5-NITRO- □ DILITURIC ACID □ 5-NITRO-2,4,6(1H,3H,5H)-PYRIMIDINETRIONE □ 2,4,6(1H,3H,5H)-PYRIMIDINETRIONE, 5-NITRO-(9CI)
TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#01678
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

NEU500 CAS: 552-89-6 HR: 2
2-NITROBENZALDEHYDE
mf: $C_7H_5NO_3$ mw: 151.13
PROP: Bright yellow needles from water. Mp: 42−43.5°, bp: 153° @ 23 mm. Sltly sol in water; sol in alc, ether, benzene; volatile with steam.
SYN: o-NITROBENZALDEHYDE
TOXICITY DATA with REFERENCE:
mma-sat 1 µmol/plate MUREAV 58,11,78
orl-mus LD50:600 mg/kg AFECAT 76(815),65,83
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. Violent reaction with pyrrole. Thermal decomposition is very dangerous; pressure increases rapidly. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES.

NEV000 CAS: 99-61-6 HR: 3
3-NITROBENZALDEHYDE
mf: $C_7H_5NO_3$ mw: 151.13
PROP: Yellowish plates or needles from water. Mp: 58°, bp: 164° @ 23 mm. Volatile with steam. Insol in water; sol in alc, chloroform, ether.
SYNS: 3-FORMYLNITROBENZENE □ m-NITROBENZ-ALDEHYDE
TOXICITY DATA with REFERENCE:
mmo-sat 600 µg/plate MUREAV 175,133,86
dnr-bcs 5 mg/disc MUREAV 170,11,86
ivn-mus LD50:180 mg/kg CSLNX* NX#02435
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Can explode violently during vacuum distillation. Thermal decomposition is very dangerous; pressure increases rapidly. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES.

NEV500 CAS: 555-16-8 HR: 2
4-NITROBENZALDEHYDE
mf: $C_7H_5NO_3$ mw: 151.13
$O_2NC_6H_4CO{\bullet}H$
PROP: White to yellow crystals or prisms from water. Mp: 106−107°, subl. Sltly volatile with steam. Sltly sol in water, ether; sol in alc, benzene, glacial acetic acid.
SYNS: p-FORMYLNITROBENZENE □ p-NITROBENZALDEHYDE
TOXICITY DATA with REFERENCE:
mma-sat 25 µmol/plate MUREAV 58,11,78
orl-rat LD50:4700 mg/kg GISAAA 24(9),15,59
skn-rat LD50:16 g/kg GISAAA 24(9),15,59
ipr-rat LD50:545 mg/kg HINEL* AF33(657)-11756,64
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion and skin contact. Mutation data reported. Exothermic decomposition is vigorous with a very high rate of pressure increase. Reaction with pyrrole in acetic acid is violent. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEV510 CAS: 20627-73-0 HR: 2
2-NITROBENZALDEHYDE DIMETHYLACETAL
mf: $C_9H_{11}NO_4$ mw: 197.21
SYNS: BENZENE, 1-(DIMETHOXYMETHYL)-2-NITRO- □ o-NITROBENZALDEHYDE DIMETHYLACETAL
TOXICITY DATA with REFERENCE:
orl-rat LD50:3420 mg/kg IJTOFN 19,336,2000
ihl-rat LC50:>143 mg/m^3/7H IJTOFN 19,336,2000
SAFETY PROFILE: Moderately toxic by ingestion and inhalation. When heated to decomposition it emits toxic vapors of NO_x.

NEV523 CAS: 610-15-1 HR: 2
2-NITROBENZAMIDE
mf: $C_7H_6N_2O_3$ mw: 166.15
PROP: Tan powder. Bp: 317°, mp: 174−178°.
SYNS: BENZAMIDE, 2-NITRO- (9CI) □ BENZAMIDE, o-NITRO- □ 2-CARBAMOYLNITROBENZENE □ o-NITROBENZAMIDE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:500 mg/kg CBCCT* 6,215,1954
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

NEV525 CAS: 619-80-7 HR: 2
4-NITROBENZAMIDE
mf: $C_7H_6N_2O_3$ mw: 166.15
PROP: Light yellow powder. Mp: 200−202°.
SYNS: p-NITROBENZAMIDE
TOXICITY DATA with REFERENCE:
skn-gpg 2500 mg/10D-I MLD EPASR* 8EHQ-0183-0462
orl-rat LD50:476 mg/kg EPASR* 8EHQ-0183-0462
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. A skin irritant. When heated to decomposition it emits toxic vapors of NO_x.

NEW550 CAS: 39735-49-4 HR: D
2-(p-NITROBENZAMIDO)ACETOHYDROXAMIC ACID
mf: $C_9H_9N_3O_5$ mw: 239.21
TOXICITY DATA with REFERENCE:
mmo-sat 1 µmol/plate JOPHDQ 3,557,80
dnr-bcs 10 µmol/disc JOPHDQ 3,557,80
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NEW600 CAS: 20268-51-3 HR: D
7-NITRO BENZ(a)ANTHRACENE
mf: $C_{18}H_{11}NO_2$ mw: 273.30
SYN: BENZ(a)ANTHRACENE, 7-NITRO-
TOXICITY DATA with REFERENCE:
mor-mus-emb 240 µg/L FCTOD7 32,611,94
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 46,247,89; Animal Limited Evidence IMEMDT 46,247,89; Human No Adequate Data IMEMDT 46,247,89.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NEW700 CAS: 17117-34-9 HR: D
3-NITROBENZANTHRONE
mf: $C_{17}H_9NO_3$ mw: 275.27
SYNS: 7H-BENZ(DE)ANTHRACEN-7-ONE, 3-NITRO- □ 3-NITRO-7H-BENZ(DE)ANTHRACEN-7-ONE
TOXICITY DATA with REFERENCE:
add-unr-lym 300 µmol/L MUREAV 439,307,1999
mnt-hmn-oth 1.82 µmol/L/10H MUREAV 472,93,2000
slt-hmn-oth 0.364 µmol/L/10H MUREAV 472,93,2000
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NEX000 CAS: 98-95-3 HR: 3
NITROBENZENE
DOT: UN 1662
mf: $C_6H_5NO_2$ mw: 123.12
PROP: Bright-yellow crystals or pale-yellow to colorless, oily liquid; odor of volatile almond oil. Mp: 6°, bp: 210−211°, ULC: 20−30%, lel: 1.8% @ 200°F, flash p: 190°F (CC), d: 1.205 @ 15°/4°, autoign temp: 900°F, vap press: 1 mm @ 44.4°, vap d: 4.25. Volatile with steam; sol in about 500 parts water; very sol in alc, benzene, ether, oils. IDLH 200 ppm.
SYNS: ESSENCE of MIRBANE □ ESSENCE of MYRBANE □ MIRBANE OIL □ NCI-C60082 □ NITROBENZEEN (DUTCH) □ NITROBENZEN (POLISH) □ NITROBENZENE, liquid (DOT) □ NITROBENZOL (DOT) □ NITROBENZOL, liquid (DOT) □ OIL of MIRBANE (DOT) □ OIL of MYRBANE □ RCRA WASTE NUMBER U169
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD 28ZPAK -,61,72
eye-rbt 500 mg/24H MLD 28ZPAK -,61,72
cyt-smc 10 mmol/tube HEREAY 33,457,47

orl-wmn TDLo:200 mg/kg:CNS,CVS,PUL ATXKA8 28,208,71
unr-man LDLo:35 mg/kg 85DCAI 2,73,70
skn-rat LD50:2100 mg/kg GISAAA 24(9),15,59
ipr-rat LD50:640 mg/kg AGGHAR 17,217,59
scu-rat LDLo:800 mg/kg HBAMAK 4,1375,35
orl-mus LD50:590 mg/kg GTPZAB 25(8),50,81
skn-mus LDLo:480 mg/kg XPHBAO 271,79,41
scu-mus LDLo:286 mg/kg PSEBAA 42,844,39
orl-dog LDLo:750 mg/kg HBAMAK 4,1375,35
ivn-dog LDLo:150 mg/kg XPHBAO 271,79,41
orl-cat LDLo:1 g/kg XPHBAO 271,78,41
skn-cat LDLo:25 g/kg HBAMAK 4,1375,35
orl-rbt LDLo:700 mg/kg PCOC** -,805,66
skn-rbt LDLo:600 mg/kg HBAMAK 4,1375,35

CONSENSUS REPORTS: Community Right-To-Know List. EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 1 ppm (skin)

ACGIH TLV: TWA 1 ppm (skin); Animal Carcinogen; BEI: 5 mg/g creatinine of total p-nitrophenol in urine at end of shift at end of workweek

DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans; BAT: 100 µg/L of aniline in blood after several shifts

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Confirmed carcinogen. Human poison by an unspecified route. Poison experimentally by subcutaneous and intravenous routes. Moderately toxic by ingestion, skin contact, and intraperitoneal routes. Human systemic effects by ingestion: general anesthetic, respiratory stimulation, and vascular changes. An experimental teratogen. Experimental reproductive effects. Mutation data reported. An eye and skin irritant. Can cause cyanosis due to formation of methemoglobin. It is absorbed rapidly through the skin. The vapors are hazardous.

An oxidant. Combustible when exposed to heat and flame. Moderate explosion hazard when exposed to heat or flame. Explosive reaction with solid or concentrated alkali + heat (e.g., sodium hydroxide or potassium hydroxide), aluminum chloride + phenol (at 120°C), aniline + glycerol + sulfuric acid, nitric + sulfuric acid + heat. Forms explosive mixtures with aluminum chloride, oxidants (e.g., fluorodinitromethane, uranium perchlorate, tetranitromethane, sodium chlorate, nitric acid, nitric acid + water, peroxodisulfuric acid, dinitrogen tetraoxide), phosphorus pentachloride, potassium, sulfuric acid. Reacts violently with aniline + glycerin, N_2O, $AgClO_4$. To fight fire, use water, foam, CO_2, dry chemical. Incompatible with potassium hydroxide. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: nitrobenzenes, 2005.

NEX500 CAS: 5410-29-7 HR: 3
o-NITROBENZENEARSONIC ACID

mf: $C_6H_6AsNO_5$ mw: 247.05

PROP: Light yellow needles from H_2O. Mp: 194–196°. Spar sol in EtOH, $CHCl_3$, and cold Me_2CO. Probably dehydrated in AcOH.

TOXICITY DATA with REFERENCE:
orl-rat LDLo:100 mg/kg NCNSA6 5,13,53

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

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

SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and As. See also ARSENIC COMPOUNDS and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEY000 CAS: 2243-76-7 HR: D
p-NITROBENZENEAZOSALICYLIC ACID

mf: $C_{13}H_9N_3O_5$ mw: 287.25

PROP: Crystalline powder with red-brown color. Mp: 250°. Sol in water.

SYNS: ALIZARINE CHROME ORANGE G ◻ ALIZARINE ORANGE ◻ ALIZARINE ORANGE 2GN ◻ ALIZARINE ORANGE R ◻ ALIZARINE ORANGE RD ◻ ALIZARINE R-CF ◻ ALIZARINE YELLOW P ◻ ALIZARINE YELLOW R ◻ ALIZARINE YELLOW RW ◻ ALIZAROL ORANGE R ◻ ALPHACROIC ORANGE R ◻ ANTHRANOL CHROME YELLOW R ◻ AZOCHROMAL ORANGE R ◻ BRASILIAN CHROME ORANGE R ◻ CALCOCHROME ORANGE R ◻ CHROME FAST ORANGE RW ◻ CHROME ORANGE MR ◻ CHROME ORANGE R ◻ CHROME ORANGE RLE ◻ CHROME YELLOW 3RN ◻ CHROMOL ORANGE R. EXTRA ◻ C.I. 14030 ◻ C.I. MORDANT ORANGE 1 ◻ DIAMOND CHROME YELLOW 3R ◻ DUROCHROME YELLOW 2RN ◻ ENIACROMO ORANGE R ◻ ENRIOCHROME ORANGE AOR ◻ FENAKROM ORANGE R ◻ HIDACHROME ORANGE R ◻ HISPACROM ORANGE R ◻ 2-HYDROXY-5-((4-NITROPHENYL)AZO)BENZOIC ACID ◻ JAVA CHROME YELLOW 3R ◻ JAVA UNICHROME YELLOW 3R ◻ KCA CHROME ORANGE R ◻ KENACHROME ORANGE ◻ LIGHTHOUSE CHROME ORANGE ◻ MAGRACROM ORANGE ◻ METACHROME ORANGE R ◻ MITSUI CHROME ORANGE A ◻ MITSUI CROME ORANGE AN ◻ MONOCHROME ORANGE R ◻ MONOCHROME YELLOW 3R ◻ 5-((p-NITROPHENYL)AZO)SALICYLIC ACID ◻ ORTHOCHROME ORANGE R ◻ PEERACHROME YELLOW R ◻ PNBAS ◻ PONTACHROME YELLOW 3RN ◻ SOLOCHROME ORANGE M ◻ SYNCHROMATE ORANGE AOR ◻ TERRACOTTA 2RN ◻ TERRA COTTA RRN ◻ TERTROCHROME YELLOW 3R ◻ YODOCHROME ORANGE A

TOXICITY DATA with REFERENCE:
mma-sat 500 µg/plate MUREAV 56,249,78

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

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

NEY500 CAS: 13331-27-6 HR: 3
m-NITROBENZENEBORONIC ACID

mf: $C_6H_6BNO_4$ mw: 166.94

PROP: Yellow crystals from H_2O. Mp: 275°. Mod sol in hot H_2O; sol in EtOH and Et_2O.

TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#01859

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x. See also BORON COMPOUNDS and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEZ000 HR: 3
4-NITROBENZENEDIAZONIUM AZIDE
mf: $C_6H_4N_6O_2$ mw: 192.14
$O_2NC_6H_4N_2^+N_3^-$
SAFETY PROFILE: The dry salt is explosive. When heated to decomposition it emits toxic fumes of NO_x. See also AZIDES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NEZ100 CAS: 2028-76-4 HR: 2
3-NITROBENZENEDIAZONIUM CHLORIDE
mf: $C_6H_4ClN_3O_2$ mw: 185.57
$O_2NC_6H_4N_2^+Cl^-$
SAFETY PROFILE: Reacts with o-ethyldithiocarbamate at 70°C to explosively evolve nitrogen gas. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS and CHLORIDES.

NEZ200 CAS: 456-27-9 HR: D
4-NITROBENZENEDIAZONIUM FLUOBORATE
mf: $C_6H_4N_3O_2 \bullet BF_4$ mw: 236.94
PROP: Yellow crystals.
SYNS: BENZENEDIAZONIUM, p-NITRO-, TETRAFLUOROBORATE(1-) □ BENZENEDIAZONIUM, 4-NITRO-, TETRAFLUOROBORATE(1-) (9CI) □ p-NITROBENZENEDIAZONIUM TETRAFLUOROBORATE □ 4-NITROBENZENEDIAZONIUM TETRAFLUOROBORATE(1-) □ p-NITRO-PHENYLDIAZONIUM FLUOBORATE
TOXICITY DATA with REFERENCE:
mmo-sat 40 µg/plate FCTOD7 25,669,87
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of boron, NO_x, and F^-.

NFA000 CAS: 42238-29-9 HR: 3
4-NITROBENZENEDIAZONIUM NITRATE
mf: $C_6H_4N_4O_5$ mw: 212.12
$O_2NC_6H_4N_2^+NO_3^-$
SAFETY PROFILE: The dry salt explodes when heated. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFA500 CAS: 22751-24-2 HR: 3
3-NITROBENZENEDIAZONIUM PERCHLORATE
mf: $C_6H_4ClN_3O_6$ mw: 249.58
$O_2NC_6H_4N_2^+ClO_4^-$
SYN: m-NITROBENZENE DIAZONIUM PERCHLORATE (DOT)
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: An extremely shock- and heat-sensitive explosive. Upon decomposition it emits toxic fumes of Cl^- and NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFA600 CAS: 25910-37-6 HR: 3
2-NITROBENZENEDIAZONIUM SALTS
mf: $C_6H_4N_3O_2Z$
$O_2NC_6H_4N_2^+Z^-$
SAFETY PROFILE: Reaction with sodium disulfide, sodium polysulfide, or other sulfides forms powerfully explosive products. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFA625 CAS: 14368-49-1 HR: 3
4-NITROBENZENEDIAZONIUM SALTS
mf: $C_6H_4N_3O_2Z$
$O_2NC_6H_4N_2^+Z^-$
SAFETY PROFILE: Reaction with hydrogen sulfide, sodium sulfide, or potassium O,O-diphenyl phosphorodithioate forms powerfully explosive products. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFB000 CAS: 6325-93-5 HR: 2
p-NITROBENZENESULFONAMIDE
mf: $C_6H_6N_2O_4S$ mw: 202.20
PROP: Prisms from EtOH (aq). Mp: 179−180°.
TOXICITY DATA with REFERENCE:
orl-rat LDLo:500 mg/kg NCNSA6 5,34,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFB500 CAS: 98-47-5 HR: 3
3-NITROBENZENESULFONIC ACID
mf: $C_6H_5NO_5S$ mw: 203.18
$O_2NC_6H_4SO_2OH$
PROP: Hygroscopic leaflets or deliquescent plates. Mp: 70°, bp: decomp. Very sol in water; sol in alc and alkali; insol in ether.
SYNS: KYSELINA NITROBENZEN-m-SULFONOVA (CZECH) □ m-NITROBENZENESULFONIC ACID
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD 28ZPAK -,178,72
eye-rbt 2 mg/24H SEV 28ZPAK -,178,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A skin and severe eye irritant. Decomposes violently at about 200°. Mixture with sulfuric acid + sulfur trioxide may explode above 150°C. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS and SULFONATES.

NFC500 CAS: 127-68-4 HR: 1
m-NITROBENZENESULFONIC ACID, SODIUM

SALT
mf: $C_6H_4NO_5S•Na$ mw: 225.16
SYNS: LUDIGOL F,60 □ NITROBENZEN-m-SULFONAN SODNY (CZECH) □ TISKAN (CZECH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD 28ZPAK -,179,72
eye-rbt 20 mg/24H SEV 28ZPAK -,179,72
orl-rat LD50:11 g/kg 28ZPAK -,179,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. A skin and severe eye irritant. When heated to decomposition it emits very toxic fumes of NO_x, Na_2O and SO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS and SULFONATES.

NFC700 CAS: 5709-67-1 HR: 3
2-NITROBENZIMIDAZOLE
mf: $C_7H_5N_3O_2$ mw: 163.15
PROP: Yellow crystals from C_6H_6 or MeOH. Mp: 258° (decomp).
SYN: 2-NITRO-1H-BENZIMIDAZOLE (9CI)
TOXICITY DATA with REFERENCE:
mmo-sat 100 nmol/plate MUREAV 173,169,86
ipr-mus LD50:330 mg/kg AACHAX -,478,65
scu-mus LD50:595 mg/kg AACHAX -,478,65
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by subcutaneous route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFD500 CAS: 94-52-0 HR: 2
6-NITRO-BENZIMIDAZOLE
mf: $C_7H_5N_3O_2$ mw: 163.15
PROP: Needles from water. Mp: 204°. Sltly sol in water, chloroform, ether, benzene; sol in acid, alkali carbonate.
SYNS: NCI-C01912 □ 5-NITRO-1H-BENZIMIDAZOLE
TOXICITY DATA with REFERENCE:
mmo-sat 33 µg/plate ENMUDM 8(Suppl 7),1,86
mma-sat 33 µg/plate ENMUDM 8(Suppl 7),1,86
orl-rat LDLo:500 mg/kg NCNSA6 5,22,53
CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse NCITR* NCI-CG-TR-117,78; (feed); Negative: rat NCITR* NCI-CG-TR-117,78. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFD600 CAS: 27896-84-0 HR: 2
5-NITROBENZIMIDAZOLE NITRATE
mf: $C_7H_5N_3O_2•HNO_3$ mw: 226.17
SYNS: 1H-BENZIMIDAZOLE, 5-NITRO-, MONONITRATE □ BENZIMIDAZOLE, 5-NITRO-, MONONITRATE □ 6-NITRO-BENZIMIDAZOLE NITRATE
TOXICITY DATA with REFERENCE:
mor-mus-fbr 1 mg/L/21D EMMUEG 37,231,2001
orl-rat LD50:>1600 mg/kg KODAK* 21MAY1971
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFD700 CAS: 33094-66-5 HR: D
2-NITROBENZOFURAN
mf: $C_8H_5NO_3$ mw: 163.14
PROP: Needles. Mp: 134°.
TOXICITY DATA with REFERENCE:
mmo-sat 1 nmol/plate MUREAV 88,355,81
pic-sat 1 nmol/plate MUREAV 104,1,82
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFD800 CAS: 16322-19-3 HR: D
4-NITRO-BENZOFURAZAN
mf: $C_6H_3N_3O_3$ mw: 165.12
SYNS: 2,1,3-BENZOXADIAZOLE, 4-NITRO- □ BENZO-FURAZAN, 4-NITRO-
TOXICITY DATA with REFERENCE:
dni-mus-leu 3 µmol/L CNREA8 35,3735,1975
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFF000 CAS: 58131-55-8 HR: D
2,2′-((7-NITRO-4-BENZOFURAZAZANYL)IMINO)-BISETHANOL OXIDE
mf: $C_{10}H_{12}N_4O_6$ mw: 284.26
SYNS: B2837 □ 4-(N,N-BIS(2-HYDROXYETHYL)AMINO)-7-NITROBENZOFURAZAN-1-OXIDE
TOXICITY DATA with REFERENCE:
mmo-sat 5 µg/plate MUREAV 48,145,77
dni-mus:leu 2500 µmol/L CNREA8 35,3735,75
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NFG000 CAS: 121-92-6 HR: 2
m-NITROBENZOIC ACID
mf: $C_7H_5NO_4$ mw: 167.13
PROP: Monoclinic leaves or prisms; bitter taste. D: 1.494, mp: 141−142°. Sol in water, alc, and ether. Melts in hot water; very sol in benzene, carbon disulfide, pet ether.
SYNS: BENZOIC ACID, 3-NITRO-(9CI) □ m-NITROBENZENE-CARBOXYLIC ACID □ 3-NITROBENZOIC ACID
TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate ENMUDM 9(Suppl 9),1,87
dnr-bcs 500 µg/disc MUREAV 170,11,86
ipr-rat LD50:670 mg/kg CRSBAW 160,1097,66
ivn-rat LD50:680 mg/kg CRSBAW 160,1097,66
par-rat LD50:1820 mg/kg CRSBAW 160,1097,66
ipr-mus LD50:610 mg/kg CRSBAW 160,1097,66
ivn-mus LD50:640 mg/kg CRSBAW 160,1097,66
par-mus LD50:1290 mg/kg CRSBAW 160,1097,66
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Moderately toxic by intraperitoneal, intravenous and parenteral routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFG500 CAS: 552-16-9 HR: D
o-NITROBENZOIC ACID
mf: $C_7H_5NO_4$ mw: 167.13
PROP: Yellowish-white, triclinic crystals from water; intensely sweet. D: 1.575, mp: 147.5°. Very sltly sol in benzene, carbon disulfide, pet ether; sol in water, alc, and ether.
SYN: 2-NITROBENZOIC ACID
TOXICITY DATA with REFERENCE:
mma-sat 10 μmol/plate MUREAV 58,11,78
dnr-bcs 5 mg/disc MUREAV 170,11,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFH000 CAS: 636-97-5 HR: 3
p-NITROBENZOIC ACID HYDRAZIDE
mf: $C_7H_7N_3O_3$ mw: 181.17
PROP: Crystals from EtOH. Mp: 211−212°. Sol in Me_2CO, EtOH and C_6H_6.
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#00861
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFH100 CAS: 39718-99-5 HR: 2
p-NITROBENZOIC ACID 2-PHENYLHYDRAZIDE
mf: $C_{13}H_{11}N_3O_3$ mw: 257.27
SYN: BENZOIC ACID, p-NITRO-, 2-PHENYLHYDRAZIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:1200 mg/kg PCJOAU 14,162,1980
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NFH500 CAS: 619-24-9 HR: 3
m-NITROBENZONITRILE
mf: $C_7H_4N_2O_2$ mw: 148.13
PROP: Needles from water. Mp: 117−118°, bp: subl. Sol in hot water and alc, very sol in ether.
SYNS: m-CYANONITROBENZENE □ 3-CYANONITRO-BENZENE □ 3-NITROBENZONITRILE
TOXICITY DATA with REFERENCE:
mmo-sat 10 μg/plate ENMUDM 4,163,82
mma-sat 10 μg/plate ENMUDM 4,163,82
ipr-mus LDLo:250 mg/kg CBCCT* 6,216,54
CONSENSUS REPORTS: Cyanide and its compounds are on The Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and CN^-. See also NITRILES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFI000 CAS: 612-24-8 HR: D
o-NITROBENZONITRILE
mf: $C_7H_4N_2O_2$ mw: 148.12
PROP: Needles from H_2O or AcOH. Mp: 111°.
TOXICITY DATA with REFERENCE:
dnr-bcs 50 μg/plate MUREAV 170,11,86
mmo-sat 10 mmol/plate MUREAV 58,11,78
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List. EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. Unstable. Incompatible with nitrogen trichloride. When heated to decomposition it emits very toxic fumes of NO_x and CN^-. See also NITRILES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFI010 CAS: 619-72-7 HR: 3
p-NITROBENZONITRILE
mf: $C_7H_4N_2O_2$ mw: 148.13
PROP: Slight yellowish crystal. Mp: 147°.
SYNS: BENZONITRILE, p-NITRO- □ BENZONITRILE, 4-NITRO-(9CI) □ p-CYANONITROBENZENE □ 4-CYANO-NITROBENZENE □ 4-NITROBENZONITRILE
TOXICITY DATA with REFERENCE:
dnr-bcs 50 μg/disc MUREAV 170,11,86
orl-rat LD50:30 mg/kg ZAARAM 19,225,69
orl-mus LD50:140 mg/kg APFRAD 41,391,83
ipr-mus LD50:100 mg/kg ZAARAM 19,225,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFI100 CAS: 70021-99-7 HR: D
1-NITROBENZO(a)PYRENE
mf: $C_{20}H_{11}NO_2$ mw: 297.32
PROP: Orange crystals. Mp: 250−250.5°.
TOXICITY DATA with REFERENCE:
mmo-sat 1 μg/plate ENMUDM 6,417,84
mma-ham:ovr 5 mg/L CRNGDP 7,681,85
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFI200 CAS: 91259-16-4 HR: D
1-NITROBENZO(e)PYRENE
mf: $C_{20}H_{11}NO_2$ mw: 297.32
SYN: BENZO(e)PYRENE, 1-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 2500 ng/plate CRNGDP 9,951,1988

msc-ipr-mus 23.7 mg/kg/15D-I CALEDQ 146,1,1999
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFI210 CAS: 138542-40-2 HR: 2
2-NITROBENZO(a)PYRENE
mf: $C_{20}H_{11}NO_2$ mw: 297.32
SYN: BENZO(a)PYRENE, 2-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 100 ng/plate MUREAV 283,45,1992
msc-ipr-mus 23.7 mg/kg/15D-I CALEDQ 146,1,1999
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data reported. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFI220 CAS: 81340-58-1 HR: D
3-NITROBENZO(e)PYRENE
mf: $C_{20}H_{11}NO_2$ mw: 297.32
SYN: BENZO(e)PYRENE, 3-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 1 nmol/plate MUREAV 143,173,1985
msc-ipr-mus 23.7 mg/kg/15D-I CALEDQ 146,1,1999
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFI230 CAS: 98151-91-8 HR: D
3-NITROBENZO(a)PYRENE-trans-9,10-DIHYDRODIOL
mf: $C_{20}H_{13}NO_4$ mw: 331.34
SYNS: BENZO(a)PYRENE-9,10-DIOL, 9,10-DIHYDRO-3-NITRO-, trans- □ trans-9,10-DIHYDRO-3-NITROBENZO(a)PYRENE-9,10-DIOL
TOXICITY DATA with REFERENCE:
mic-sat 800 ng/plate CRNGDP 6,1235,1985
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFI240 CAS: 6285-57-0 HR: D
6-NITRO-2-BENZOTHIAZOLAMINE
mf: $C_7H_5N_3O_2S$ mw: 195.21
SYN: 2-BENZOTHIAZOLAMINE, 6-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 100 µLg/plate ENMUDM 8(Suppl 7),1,1986
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.

NFJ000 CAS: 2338-12-7 HR: 3
5-NITROBENZOTRIAZOLE
DOT: UN 0385
mf: $C_6H_4N_4O_2$ mw: 164.14
PROP: Long, pale-yellow needles from H_2O. Mp: 212°.
SYNS: 1H-BENZOTRIAZOLE, 6-NITRO- □ 5-NITROBENZOTRIAZOL (DOT) □ 5-NITRO-1H-BENZOTRIAZOLE □ 6-NITRO-1H-BENZOTRIAZOLE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:250 mg/kg CSLNX* NX#00275
ivn-mus LD50:178 mg/kg CSLNX* NX#00275
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: EXPLOSIVE 1.1D; Label: EXPLOSIVE 1.1D
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. An explosive. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFJ500 CAS: 98-46-4 HR: 3
3-NITROBENZOTRIFLUORIDE
mf: $C_7H_4F_3NO_2$ mw: 191.12
PROP: Thin, pale, straw-colored, oily liquid with aromatic odor. Mp: −5°, bp: 202.8°, flash p: 217°F (OC), d: 1.437 @ 15.5°/15.5°, vap press: 0.3 mm @ 25°.
SYNS: m-NITROBENZOTRIFLUORIDE (DOT) □ m-NITROTRIFLUOROTOLUENE □ m-NITROTRIFLUORTOLUOL (GERMAN) □ m-(TRIFLUOROMETHYL)NITROBENZENE □ 3-TRIFLUOROMETHYLNITROBENZENE □ α,α,α-TRIFLUORO-m-NITROTOLUENE □ USAF MA-5
TOXICITY DATA with REFERENCE:
orl-rat LD50:610 mg/kg TPKVAL 10,131,68
ihl-rat LC50:870 mg/kg 85GMAT -,92,82
orl-mus LD50:520 mg/kg TPKVAL 10,131,68
ihl-mus LC50:880 mg/m^3/2H 85GMAT -,92,82
ipr-mus LD50:100 mg/kg NTIS** AD277-689
scu-frg LDLo:573 mg/kg AEPPAE 130,250,28
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion, inhalation, and subcutaneous routes. Combustible when exposed to heat or flame. When heated to decomposition it emits very toxic fumes of F^- and NO_x. See also FLUORIDES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFK990 CAS: 610-14-0 HR: 3
2-NITROBENZOYL CHLORIDE
mf: $C_7H_4ClNO_3$ mw: 185.57
$O_2NC_6H_4CO{\bullet}Cl$
PROP: A solid. Mp: 25°, bp: 152° @ 18 mm.
SYNS: BENZOYL CHLORIDE, 2-NITRO-(9CI) □ o-NITROBENZOYL CHLORIDE
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate ENMUDM 9(Suppl 9),1,87
SAFETY PROFILE: May explode when heated above 110°C. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also CHLORIDES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFK100 CAS: 122-04-3 HR: 2
4-NITROBENZOYL CHLORIDE
mf: $C_7H_4ClNO_3$ mw: 185.57
PROP: Bright-yellow needles from pet ether; pungent odor. Mp: 75°, bp: 205°. Decomposed by water and alc; sol in ether. Sol in Py and toluene. Keep well closed.
SYNS: p-NITROBENZOIC ACID CHLORIDE □ 4-NITROBENZOIC ACID CHLORIDE □ p-NITROBENZOYL CHLORIDE

TOXICITY DATA with REFERENCE:
mmo-sat 3 µg/plate ENMUDM 9(Suppl 9),1,87
mma-sat 33 µg/plate ENMUDM 9(Suppl 9),1,87
orl-rat LD50:5600 mg/kg GTPZAB 28(9),47,84
orl-mus LD50:3440 mg/kg GTPZAB 28(9),47,84
orl-rbt LD50:4750 mg/kg GTPZAB 28(9),47,84
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 NO_x and Cl^-. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS and CHLORIDES.

NFK500 CAS: 121-90-4 HR: 3
m-NITROBENZOYL CHLORIDE
mf: $C_7H_4ClNO_3$ mw: 185.57
PROP: Crystals. Mp: 34−35°, bp: 164° @ 25 mm. Slt decomp; decomp in water and alc; very sol in ether. Yellow to brown liquid, partially crystallized at room temp. Vap d: 6.43.
TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate ENMUDM 9(Suppl 9),1,87
orl-rat LD50:2460 mg/kg AIHAAP 30,470,69
skn-rbt LD50:790 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. Very unstable. Has exploded spontaneously. Will react with water or steam to produce toxic and corrosive fumes. Mutation data reported. When heated to decomposition it emits highly toxic fumes of Cl^- and NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS and CHLORIDES.

NFL100 HR: 3
3-NITROBENZOYL NITRATE
mf: $C_7H_4N_2O_6$ mw: 212.12
$O_2NC_6H_4CO{\bullet}ONO_2$
SAFETY PROFILE: Explodes if heated rapidly. When heated to decomposition it emits toxic fumes of NO_x. See also NITRATES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFL200 CAS: 75084-22-9 HR: D
8-(4-NITROBENZOYLOXY)-9-HYDROXY-8,9-DIHYDRO-AFLATOXIN B1
mf: $C_{24}H_{17}NO_{11}$ mw: 495.42
SYN: CYCLOPENTA(C)FURO(3',2':4,5)FURO(2,3-H)(1)BENZO-PYRAN-1,11-DIONE, 2,3,6A,8,9,9A-HEXAHYDRO-8,9-DIHYDRO-XY-4-METHOXY-, 8-p-NITROBENZOATE
TOXICITY DATA with REFERENCE:
mic-sat 1 mg/L CRNGDP 1,79,1980
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFL500 CAS: 38860-52-5 HR: 2
N-(4-NITRO)BENZOYLOXYPIPERIDINE
mf: $C_{12}H_{14}N_2O_4$ mw: 250.28
SYN: p-NITROBENZOIC ACID, PIPERIDINO ESTER
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFL600 CAS: 127019-55-0 HR: 3
1-(p-NITROBENZOYL)-2-THIOBIURET
mf: $C_9H_8N_4O_4S$ mw: 268.25
SYNS: BENZAMIDE, N-(((AMINOCARBONYL)AMINO)-THIOXOMETHYL)-4-NITRO- □ NS-6
TOXICITY DATA with REFERENCE:
ipr-rat TDLo:20 mg/kg INJPD2 33,382,2001
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NFM000 CAS: 70021-98-6 HR: D
3-NITROBENZ(a)PYRENE
mf: $C_{20}H_{11}NO_2$ mw: 297.32
PROP: Orange crystals. Mp: 211−212°.
TOXICITY DATA with REFERENCE:
mmo-sat 100 ng/plate CRNGDP 6,1235,85
mma-ham:ovr 5 mg/L CRNGDP 7,681,85
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFM500 CAS: 63041-90-7 HR: 2
6-NITROBENZ(a)PYRENE
mf: $C_{20}H_{11}NO_2$ mw: 297.32
PROP: Orange crystals. Mp: 255−256°.
TOXICITY DATA with REFERENCE:
mma-sat 3 µg/plate ENMUDM 6,417,84
otr-hmn:fbr 4 µmol/L CRNGDP 4,353,83
CONSENSUS REPORTS: IARC Cancer Review: Animal Limited Evidence IMEMDT 46,255,89; Human No Adequate Data IMEMDT 46,255,89; Human No Adequate Data IMEMDT 33,187,84. EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFM100 CAS: 619-90-9 HR: D
4-NITROBENZYL ACETATE
mf: $C_9H_9NO_4$ mw: 195.19
PROP: Slender nearly coloress needles. Mp: 92−93°.
SYNS: BENZENEMETHANOL, 4-NITRO-, ACETATE (ester) □ BENZYL ALCOHOL, p-NITRO-, ACETATE (ester) □ p-NITRO-BENZYLACETATE
TOXICITY DATA with REFERENCE:
mmo-sat 2600 nmol/L ENMUDM 3,11,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFM550 CAS: 612-25-9 HR: 2

2-NITROBENZYL ALCOHOL
mf: $C_7H_7NO_3$ mw: 153.14
$O_2NC_6H_4CH_2OH$
PROP: Needles from H_2O. Mp: 74°, bp: 270°.
SYNS: BENZENEMETHANOL, 2-NITRO-(9CI) □ o-HYDROXYMETHYLNITROBENZENE □ 2-NITROBENZENEMETHANOL □ o-NITROBENZYL ALCOHOL
TOXICITY DATA with REFERENCE:
mor-ham:emb 200 μmol/L CALEDQ 52,203,90
SAFETY PROFILE: Mutation data reported. Decomposes exothermically at 201°C. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS and ALCOHOLS.

NFM560 HR: 2
4-NITROBENZYL ALCOHOL
mf: $C_7H_7NO_3$ mw: 153.14
$O_2NC_6H_4CH_2OH$
SAFETY PROFILE: Decomposes exothermically at 236°C. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS and ALCOHOLS.

NFM700 CAS: 3958-60-9 HR: 3
2-NITROBENZYL BROMIDE
mf: $C_7H_6BrNO_2$ mw: 232.03
$O_2NC_6H_4CH_2Br$
PROP: Plates from EtOH (aq). Mp: 46–47.5°.
SAFETY PROFILE: Decomposes exothermically at 100°C. It has caused plant scale explosions. When heated to decomposition it emits toxic fumes of NO_x and Br^-. See also 4-NITROBENZYL BROMIDE and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFN000 CAS: 19689-86-2 HR: 3
4-NITROBENZYL BROMIDE
mf: $C_7H_6BrNO_2$ mw: 216.05
PROP: Needles from alc. Mp: 99–100°. Insol in water; sol in alc; very sol in ether.
SYNS: 2-BROMOETHYL-3-NITROANISOLE □ 1-(BROMOMETHYL)-4-NITROBENZENE □ α-BROMO-p-NITROTOLUENE □ α-BROMOPARANITROTOLUENE □ p-NITROBENZYL BROMIDE
TOXICITY DATA with REFERENCE:
mmo-sat 5 μmol/L ENMUDM 3,11,81
dns-rat:lvr 10 μmol/L ENMUDM 3,11,81
ivn-mus LD50:56 mg/kg CSLNX* NX#07695
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and Br^-. See also 2-NITROBENZYL BROMIDE and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFN010 CAS: 619-23-8 HR: D
m-NITROBENZYL CHLORIDE
mf: $C_7H_6ClNO_2$ mw: 171.59
SYNS: BENZENE, 1-(CHLOROMETHYL)-3-NITRO-(9CI) □ 1-(CHLOROMETHYL)-3-NITROBENZENE □ α-CHLORO-m-NITROTOLUENE □ 3-NITROBENZYL CHLORIDE □ TOLUENE, α-CHLORO-m-NITRO-
TOXICITY DATA with REFERENCE:
mmo-sat 100 μg/plate MUREAV 170,11,86
mma-sat 200 μg/plate ENMUDM 9(Suppl 9),1,87
dnr-bcs 500 μg/disc MUREAV 170,11,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

NFN400 CAS: 100-14-1 HR: 3
p-NITROBENZYL CHLORIDE
mf: $C_7H_6ClNO_2$ mw: 171.59
PROP: Plates or needles from EtOH. Mp: 71°.
SYNS: BENZENE, 1-(CHLOROMETHYL)-4-NITRO-(9CI) □ p-(CHLOROMETHYL)NITROBENZENE □ 1-(CHLOROMETHYL)-4-NITROBENZENE □ 4-(CHLOROMETHYL)NITROBENZENE □ α-CHLORO-p-NITROTOLUENE
TOXICITY DATA with REFERENCE:
mmo-sat 33 μg/plate NTPTB* APR 82
mma-sat 100 μg/plate NTPTB* APR 82
ihl-rat LCLo:280 mg/m^3/4H TOXID9 4,66,84
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by inhalation. Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also 2-NITROBENZYL CHLORIDE and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFN500 CAS: 612-23-7 HR: D
2-NITROBENZYL CHLORIDE
mf: $C_7H_6ClNO_2$ mw: 171.59
PROP: Crystals from ligroin. Mp: 48–49°. Insol in water, sol in alc, very sltly sol in hot ether.
SYNS: 1-(CHLOROMETHYL)-2-NITROBENZENE □ α-CHLORO-o-NITROTOLUENE □ o-NITROBENZYL CHLORIDE
TOXICITY DATA with REFERENCE:
mma-sat 100 nmol/plate MUREAV 58,11,78
SAFETY PROFILE: Mutation data reported. Thermal decomposition is highly exothermic with much gas evolution. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also p-NITROBENZYL CHLORIDE and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFN500 CAS: 621-50-1 HR: 3
3-NITROBENZYL CYANIDE
mf: $C_8H_6N_2O_2$ mw: 162.16
SYNS: ACETONITRILE, (m-NITROPHENYL)- □ BENZENEACETONITRILE, 3-NITRO-(9CI) □ 3-NITROBENZENEACETONITRILE □ m-NITROBENZYL CYANIDE □ (m-NITROPHENYL)ACETONITRILE □ (3-NITROPHENYL)ACETONITRILE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:45 mg/kg CSLNX* NX#12481
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

NFN600 CAS: 610-66-2 HR: D
2-NITROBENZYL NITRILE
mf: $C_8H_6N_2O_2$ mw: 162.16
SYNS: ACETONITRILE, (o-NITROPHENYL)- □ BENZENE-ACETONITRILE, 2-NITRO-(9CI) □ o-NITROBENZACETO-NITRILE □ 2-NITROBENZENEACETONITRILE □ (o-NITRO-PHENYL)ACETONITRILE □ (2-NITROPHENYL)ACETONITRILE
TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate EMMUEG 11(Suppl 12),1,88
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFO700 CAS: 10598-82-0 HR: 2
1-(p-NITROBENZYL)-2-NITROIMIDAZOLE
mf: $C_{10}H_8N_4O_4$ mw: 248.22
SYN: 2-NITRO-1-(p-NITROBENZYL)IMIDAZOLE
TOXICITY DATA with REFERENCE:
orl-mus LD50:1000 mg/kg AACHAX -,513,67
ipr-mus LD50:707 mg/kg AACHAX -,513,67
scu-mus LD50:1320 mg/kg AACHAX -,513,67
SAFETY PROFILE: Moderately toxic by ingestion, subcutaneous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFO750 CAS: 1083-48-3 HR: 3
1-(p-NITROBENZYL)PYRIDINE
mf: $C_{12}H_{10}N_2O_2$ mw: 214.24
SYN: PYRIDINE, 4-(p-NITROBENZYL)-
TOXICITY DATA with REFERENCE:
ivn-mus LD50:89 mg/kg CSLNX* NX#12116
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

NFP500 CAS: 86-00-0 HR: 2
o-NITROBIPHENYL
mf: $C_{12}H_9NO_2$ mw: 199.22
PROP: Plates from EtOH or light-yellow to reddish liquid or crystalline solid. Mp: 37°, bp: 320°, flash p: 354°F, d: 1.189 @ 40°/15.5°, autoign temp: 356°F, vap press: 2 mm @ 140°, vap d: 5.9. Insol in water; sol in methanol, ethanol, tetrahydrofurfuryl alc, acetone, dimethylformamide.
SYNS: o-NITRODIPHENYL □ 2-NITRODIPHENYL
TOXICITY DATA with REFERENCE:
otr-ham:kdy 80 µg/L BJCAAI 37,873,78
mma-sat 20 µg/plate BJCAAI 37,873,78
orl-rat LD50:1230 mg/kg JIHTAB 29,1,47
orl-rbt LD50:1580 mg/kg JIHTAB 29,1,47
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. An irritant. Combustible when exposed to heat or flame. To fight fire, use CO_2, dry chemical. When heated to decomposition it emits toxic fumes of NO_x. See also p-NITROBIPHENYL and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFQ000 CAS: 92-93-3 HR: 3
p-NITROBIPHENYL
mf: $C_{12}H_9NO_2$ mw: 199.22
PROP: Yellow needles from alc. Mp: 113−114°, bp: 223−224°. Insol in water; sltly sol in cold alc; very sol in ether.
SYNS: 4-NITRODIPHENYL □ p-PHENYL-NITROBENZENE □ 4-PHENYL-NITROBENZENE □ PNB
TOXICITY DATA with REFERENCE:
mmo-bcs 50 mmol/L EXPEAM 39,530,83
dns-rat:lvr 100 µmol/L ENMUDM 3,11,81
orl-rat LD50:2230 mg/kg JIHTAB 29,1,47
ipr-mus LD50:347 mg/kg JJIND8 62,911,79
orl-rbt LD50:1970 mg/kg JIHTAB 29,1,47
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 4,113,74. Reported in EPA TSCA Inventory.
OSHA PEL: OSHA: Cancer Suspect Agent
ACGIH TLV: Confirmed Human Carcinogen
DFG MAK: Confirmed Animal Carcinogen, Suspected Human Carcinogen
NIOSH REL: (4-Nitrobiphenyl) TWA use 29 CFR 1910.1003
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFQ020 CAS: 298-83-9 HR: 2
p-NITRO BLUE TETRAZOLIUM CHLORIDE
mf: $C_{40}H_{30}N_{10}O_6$•2Cl mw: 817.70
SYNS: NITROTETRAZOLIUM BLUE □ p-NITROTETRA-ZOLIUM BLUE □ NITRO TETRAZOLIUM BT □ NITROTETRA-ZOLIUM CHLORIDE BLUE □ NBT (DYE) □ NITRO BLUE TETRAZOLIUM □ p-NITRO BLUE TETRAZOLIUM □ NITRO BLUE TETRAZOLIUM CHLORIDE □ NITRO BT □ NITRO BLUE TETRAZOLIUM SALT □ 2H-TETRAZOLIUM, 3,3'-(3,3'-DIMETH-OXY(1,1'-BIPHENYL)-4,4'-DIYL)BIS(2-(4-NITROPHEN-YL)-5-PHEN YL-,DICHLORIDE □ TETRAZOLIUM NITRO BLUE □ TETRAZOLIUM NITRO BT
TOXICITY DATA with REFERENCE:
orl-mus LD50:2 g/kg YAKUD5 32,614,1990
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

NFQ080 CAS: 577-19-5 HR: 2
2-NITROBROMOBENZENE
mf: $C_6H_4BrNO_2$ mw: 202.02
PROP: Yellow solid. Mp: 41°, bp: 261°. Flash pt: > 230°.

SYNS: BENZENE, 1-BROMO-2-NITRO- □ o-BROMONITROBENZENE □ 2-BROMONITROBENZENE □ o-NITROBROMOBENZENE

TOXICITY DATA with REFERENCE:
mma-sat 250 µg/plate SAIGBL 29,34,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mutation data reported. A combustible liquid. When heated to decomposition it emits toxic vapors of NO_x and Br^-.

NFQ090 CAS: 585-79-5 HR: D
3-NITROBROMOBENZENE
mf: $C_6H_4BrNO_2$ mw: 202.02

SYNS: BENZENE, 1-BROMO-3-NITRO- □ m-BROMONITROBENZENE □ 3-BROMONITROBENZENE □ m-NITROBROMOBENZENE

TOXICITY DATA with REFERENCE:
mma-sat 500 µg/plate SAIGBL 29,34,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: Forbidden

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

NFQ100 CAS: 586-78-7 HR: D
4-NITROBROMOBENZENE

SYNS: BENZENE, 1-BROMO-4-NITRO- □ p-BROMONITROBENZENE □ 4-BROMONITROBENZENE □ p-NITROBROMOBENZENE

TOXICITY DATA with REFERENCE:
mma-sat 500 µg/plate SAIGBL 29,34,87

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NFQ200 CAS: 7693-52-9 HR: 3
2-NITRO-4-BROMOPHENOL
mf: $C_6H_4BrNO_3$ mw: 218.02

PROP: Yellow needle crystals. Mp: 88−92°. Slightly sol in water.

SYNS: 4-BROMO-2-NITROPHENOL □ NSC 402972 □ PHENOL, 4-BROMO-2-NITRO-

TOXICITY DATA with REFERENCE:
orl-rat LDLo:3810 mg/kg TOKSVE (3),31,93
ihl-rat LC50:>60 mg/m^3/4H TOKSVE (3),31,93
orl-mus LD50:2500 mg/kg TOKSVE (3),31,93
orl-gpg LD50:2802 mg/kg TOKSVE (3),31,93

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

NFQ300 CAS: 55720-18-8 HR: D
4-NITRO-2-(5′-BROMOSALICYLIDENAMINO)-DIPHENYLAMINE
mf: $C_{19}H_{14}BrN_3O_3$ mw: 412.27

SYNS: 4-BROMO-2-(((2-ANILINO-5-NITROPHENYL)IMINO)-METHYL)PHENOL □ PHENOL, 4-BROMO-2-(((2-ANILINO-5-NITROPHENYL)IMINO)METHYL)- □ PHENOL, 4-BROMO-2-(((5-NITRO-2-(PHENYLAMINO)PHENYL)IMINO)METHYL)-

TOXICITY DATA with REFERENCE:
mic-bcs 10 mmol/L FAVUAI 6,118,1974

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

NFQ500 CAS: 594-70-7 HR: 3
tert-NITROBUTANE
mf: $C_4H_9NO_2$ mw: 103.12
$O_2NC(CH_3)_3$

PROP: Crystals. Mp: 26°, bp: 126°. Misc in EtOH, Et_2O, C_6H_6 and insol alkalies.

SYN: 2-METHYL-2-NITROPROPANE

SAFETY PROFILE: Potentially explosive when heated. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NFQ550 CAS: 2783-12-2 HR: 2
2-NITROBUTENE
mf: $C_4H_7NO_2$ mw: 101.12

PROP: Bp: 108°.

SYNS: 1-BUTENE, 2-NITRO- □ 2-NITRO-1-BUTENE □ TL 1145

TOXICITY DATA with REFERENCE:
ihl-mus LCLo:500 mg/m^3/10M NDRC** No.9-4-1-19,43

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

NFR000 HR: 3
1-NITRO-3-BUTENE
mf: $C_4H_7NO_2$ mw: 101.11

CONSENSUS REPORTS: Community Right-To-Know List.

SAFETY PROFILE: An unstable material. When heated to decomposition it emits toxic fumes of NO_x. See also 2-NITRO-2-BUTENE.

NFR500 CAS: 4812-23-1 HR: 3
2-NITRO-2-BUTENE
mf: $C_4H_7NO_2$ mw: 101.12

PROP: A liquid. D: 0.988 @ 0°, bp: 40−42° @ 8 mm.

TOXICITY DATA with REFERENCE:
eye-hmn 1 µg/L IMSUAI 27,375,58
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:280 mg/kg IMSUAI 34,800,65
ihl-rat LCLo:1400 ppm AMIHAB 18,312,58
ipr-rat LDLo:80 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:620 mg/kg IMSUAI 34,800,65

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact and inhalation. A human eye irritant and severe experimental eye and skin irritant. An unstable compound. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NFR600 CAS: 2224-44-4 HR: 2
4-(2-NITROBUTYL)MORPHOLINE
mf: $C_8H_{16}N_2O_3$ mw: 188.26

PROP: Yellowish-brown liquid with faint amine odor. Bp: >200°, d: 1.1. Sol in water: 1% Flash pt: 165°.
SYNS: N-(2-NITROBUTYL)MORPHOLINE □ MORPHOLINE, 4-(2-NITROBUTYL)- □ VANCIDE 40 □ VANCIDE F 5386
CONSENSUS REPORTS: EPA FIFRA 1988 pesticide subject to registration or re-registration.
DFG MAK: 0.5 ppm
SAFETY PROFILE: A pesticide with unreported toxicity. A combustible liquid. When heated to decomposition it emits toxic vapors of NO_x.

NFR700 CAS: 14191-22-1 HR: D
2-NITRO-9H-CARBAZOLE
mf: $C_{12}H_8N_2O_2$ mw: 212.22
SYN: 9H-CARBAZOLE, 2-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 3 µLg/plate MUREAV 388,67,1997
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFS500 HR: 3
NITRO CARBO NITRATE
PROP: A solid explosive made of ammonium nitrate, dinitrocotton, etc.
SAFETY PROFILE: An explosive and oxidizer. When heated to decomposition it emits toxic fumes of NO_x and NH_3. See also EXPLOSIVES, HIGH; AMMONIUM NITRATE; and NITRATES.

NFS502 CAS: 128-67-6 HR: 2
1-NITRO-2-CARBOXYANTHRAQUINONE
mf: $C_{15}H_7NO_6$ mw: 297.23
SYNS: 9,10-ANTHRAQUINONE-2-CARBOXYLIC ACID, 1-NITRO- □ 2-ANTHROIC ACID, 9,10-DIHYDRO-1-NITRO-9,10-DIOXO- □ 9,10-DIHYDRO-1-NITRO-9,10-DIOXO-2-ANTHROIC ACID □ KYSELINA 1-NITROANTHRACHINON-2-KARBOXYLOVA □ 1-NITRO-2-ANTHRAQUINONECARBOXYLIC ACID
TOXICITY DATA with REFERENCE:
mic-sat 100 µLg/plate MUREAV 66,9,1979
orl-rat LD50:2 g/kg 85JCAE -,732,1986
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFS505 CAS: 1222-98-6 HR: 3
4-NITROCHALCONE
mf: $C_{15}H_{11}NO_3$ mw: 253.27
SYNS: CHALCONE, 4-NITRO- □ p-NITROBENZYLIDENEACETOPHENONE □ 4-NITROCALONE □ 3-(4-NITROPHENYL)-1-PHENYL-2-PROPEN-1-ONE □ p-NITROSTYRYL PHENYL KETONE □ 2-PROPEN-1-ONE, 3-(4-NITROPHENYL)-1-PHENYL-(9CI)
TOXICITY DATA with REFERENCE:
mma-sat 10 µg/plate MUREAV 188,267,87
orl-mus LD50:>3 g/kg FRPSAX 25,860,70
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Slightly toxic by ingestion. Mutation data reported. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

NFS525 CAS: 100-00-5 HR: 3
p-NITROCHLOROBENZENE
DOT: UN 1578
mf: $C_6H_4ClNO_2$ mw: 157.56
PROP: D: 1.520, mp: 83°, bp: 242°, flash p: 110°. Insol in water; sltly sol in alc; very sol in CS_2 and ether. IDLH 100 mg/m^3.
SYNS: 1-CHLOOR-4-NITROBENZEEN (DUTCH) □ 1-CHLOR-4-NITROBENZOL (GERMAN) □ p-CHLORONITROBENZENE □ 4-CHLORONITROBENZENE □ 1-CHLORO-4-NITROBENZENE □ 4-CHLORO-1-NITROBENZENE □ 1-CLORO-4-NITROBENZENE (ITALIAN) □ p-NITROCHLOORBENZEEN (DUTCH) □ p-NITROCHLOROBENZENE solid (DOT) □ p-NITROCHLOROBENZOL (GERMAN) □ p-NITROCLOROBENZENE (ITALIAN) □ PNCB
TOXICITY DATA with REFERENCE:
mmo-sat 819 µg/plate MUREAV 116,217,83
mma-sat 100 µg/plate ENMUDM 5(Suppl 1),3,83
dnd-mus-ipr 60 mg/kg BSIBAC 56,1680,80
orl-rat LD50:420 mg/kg AGGHAR 17,217,59
skn-rat LD50:16 g/kg AGGHAR 17,217,59
ipr-rat LD50:420 mg/kg AGGHAR 17,217,59
orl-mus LD50:650 mg/kg FATOAO 29,619,66
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 65,263,96; Human Inadequate Evidence IMEMDT 65,263,96; Animal Inadequate Evidence IMEMDT 65,263,96. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 1 mg/m^3 (skin)
ACGIH TLV: TWA 0.1 ppm (skin); Animal Carcinogen
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
NIOSH REL: (p-Nitrochlorobenzene) lowest feasible conc. (skin)
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. A poison by ingestion. Experimental reproductive effects. Mutation data reported. Flammable liquid when exposed to heat, sparks, or flame. May explode on heating. Potentially violent reaction with sodium methoxide. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-. See also other chloronitrobenzene entries and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.
ANALYTICAL METHOD: For occupational chemical analysis use or NIOSH: 1994: nitrobenzenes, 2005.

NFS550 CAS: 10199-89-0 HR: D
4-NITRO-7-CHLOROBENZOFURAZAN
mf: $C_6H_2ClN_3O_3$ mw: 199.56
PROP: Pale-yellow needles from EtOH (aq). Mp: 96.5–97°.
SYNS: 4-CHLORO-7-NITROBENZO-2-OXA-1,3-DIAZOLE □ NBD-C 1 □ NBD-CHLORIDE
TOXICITY DATA with REFERENCE:
mmo-sat 2 µg/plate MUREAV 88,351,81
dni-mus:leu 4 µmol/L CNREA8 35,3735,75

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFS700 CAS: 121-17-5 HR: 3
3-NITRO-4-CHLOROBENZOTRIFLUORIDE
DOT: UN 2307
mf: $C_7H_3ClF_3NO_2$ mw: 225.56
PROP: Bp: 113−114° @ 26 mm.
SYNS: 4-CHLORO-3-NITRO-α,α,α-TRIFLUOROTOLUENE ◻ 3-NITRO-4-CHLORO-α,α,α-TRIFLUOROTOLUENE
TOXICITY DATA with REFERENCE:
dns-hmn:emb 1 g/L AISSAW 18,123,82
orl-rat LD50:1075 mg/kg GISAAA 47(3),88,82
orl-mus LD50:400 mg/kg GISAAA 47(3),88,82
ivn-mus LD50:56 mg/kg CSLNX* NX#07616
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Poison by ingestion and intravenous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of F^-, Cl^-, and NO_x. See also CHLORINATED HYDROCARBONS, AROMATIC; and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFS800 CAS: 55720-13-3 HR: D
4-NITRO-2-(p-CHLOROBENZYLIDENAMINO)-DIPHENYLAMINE
mf: $C_{19}H_{14}ClN_3O_2$ mw: 351.81
SYNS: 1,2-BENZENEDIAMINE, N^2)-((4-CHLOROPHENYL)-METHYLENE)-4-NITRO-N^1)-PHENYL- ◻ N^2)-((4-CHLORO-PHENYL)METHYLENE)-4-NITRO-N^1)-PHENYL-1,2-BENZ-ENEDIAMINE
TOXICITY DATA with REFERENCE:
mic-bcs 10 mmol/L FAVUAI 6,118,1974
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

NFT000 CAS: 2463-84-5 HR: 3
p-NITRO-o-CHLOROPHENYL DIMETHYL-THIONOPHOSPHATE
mf: $C_8H_9ClNO_5PS$ mw: 297.66
PROP: White solid. Mp: 52°. Insol in water; sol in acetone, cyclohexane, xylene, toluene, and ethylacetate.
SYNS: O-(4-CHLOOR-3-NITRO-FENYL)-O,O-DIMETHYL-MONOTHIOFOSFAAT (DUTCH) ◻ O-(4-CHLOR-3-NITRO-PHENYL)-O,O-DIMETHYL-MONOTHIOPHOSPHAT (GERMAN) ◻ O-(2-CHLORO-4-NITROPHENYL) O,O-DIMETHYL PHOS-PHOROTHIOATE ◻ O-(4-CLORO-3-NITRO-FENIL)-O,O-DIMETIL-MONOIIOFOSFATO (ITALIAN) ◻ O,O-DIMETHYL O-2-CHLORO-4-NITROPHENYL PHOSPHOROTHIOATE ◻ DIMETHYL-2-CHLORONITROPHENYL THIOPHOSPHATE ◻ ENT 17,035 ◻ EXPERIMENTAL INSECTICIDE 4124 ◻ ISOCHLOORTHION (DUTCH) ◻ ISOMERIC CHLORTHION ◻ THIOPHOSPHATE de O,O-DIMETHYLE et de O-4-CHLORO-3-NITROPHENYLE (FRENCH)
TOXICITY DATA with REFERENCE:
orl-rat LD50:330 mg/kg TXAPA9 2,88,60
skn-rat LD50:790 mg/kg TXAPA9 2,88,60
orl-mus LD50:331 mg/kg ARTODN 41,111,78
orl-ckn LD50:248 mg/kg TXAPA9 3,521,61
SAFETY PROFILE: Poison by ingestion. Moderately toxic by skin contact. When heated to decomposition it emits very toxic fumes of PO_x, SO_x, NO_x, and Cl^-. See also PARATHION.

NFT100 CAS: 55720-17-7 HR: D
4-NITRO-2-(5′-CHLOROSALICYLIDENAMINO)-DIPHENYLAMINE
mf: $C_{19}H_{14}ClN_3O_3$ mw: 367.81
SYNS: 2-(((2-ANILINO-5-NITROPHENYL)IMINO)METHYL)-4-CHLOROPHENOL ◻ PHENOL, 4-CHLORO-2-(((5-NITRO-2-(PHENYLAMINO)PHENYL)IMINO)METHYL)- ◻ PHENOL, 2-(((2-ANILINO-5-NITROPHENYL)IMINO)METHYL)-4-CHLORO-
TOXICITY DATA with REFERENCE:
mic-bcs 10 mmol/L FAVUAI 6,118,1974
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

NFT400 CAS: 7496-02-8 HR: 3
6-NITROCHRYSENE
mf: $C_{18}H_{11}NO_2$ mw: 273.30
PROP: Crystalline solid. Mp: 210°.
TOXICITY DATA with REFERENCE:
mmo-sat 5 µg/plate CNREA8 44,3408,84
mma-sat 2500 ng/plate CNREA8 44,3408,84
otr-ham:emb 3700 nmol/L CRNGDP 4,357,83
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 46,267,89; Animal Sufficient Evidence IMEMDT 46,267,89; Human No Adequate Data IMEMDT 46,267,89.
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also CHRYSENE and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFT425 CAS: 1734-79-8 HR: 2
p-NITROCINNAMALDEHYDE
mf: $C_9H_7NO_3$ mw: 177.17
PROP: Needles from EtOH or H_2O. Mp: 141−142°.
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:500 mg/kg CBCCT* 6,145,54
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS and ALDEHYDES.

NFT440 CAS: 619-89-6 HR: 3
4-NITROCINNAMIC ACID
mf: $C_9H_7NO_4$ mw: 193.17
PROP: Light yellow solid. Mp: 200−201°.
SYNS: CINNAMIC ACID, p-NITRO- ◻ p-NITROCINNAMIC ACID ◻ 3-(4-NITROPHENYL)ACRYLIC ACID ◻ 3-(4-NITROPHENYL)PROPENOIC ACID ◻ 2-PROPENOIC ACID, 3-(4-NITROPHENYL)-

TOXICITY DATA with REFERENCE:
mmo-sat 5 µg/plate MUREAV 170,11,86
mma-sat 10 µg/plate MUREAV 188,267,87
dnr-bcs 500 µg/disc MUREAV 170,11,86
ipr-mus LD: >250 mg/kg IJSIDW 49,77,87
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFT459 HR: 3
NITRO COMPOUNDS
PROP: Compounds of the form C─NO_2 or N─NO_2.
SAFETY PROFILE: The presence of a C─ or N─ linked nitro group in an organic compound can significantly decrease its reactivity and stability. Nitrate esters, with the nitro group linked to O, are very unstable. Nitro alkanes are mild oxidants but high temperatures and pressures may cause them to react violently. Polynitroalkanes may be explosive. Alkalies react with nitro alkanes to form explosive metal salts. The presence of metal oxides increases the thermal sensitivity of the lower nitro alkanes (e.g., nitromethane, nitroethane, and 1-nitropropane). Many nitro alkenes are highly reactive and may be explosive. Compounds with more than one nitro group (polynitroalkyls, such as trinitromethane and dinitroacetonitrile) are generally explosive. See also specific compounds and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFT500 HR: 3
NITRO COMPOUNDS of AROMATIC HYDROCARBONS
SAFETY PROFILE: The mono-, di-, and trinitrobenzenes are absorbed chiefly through the skin and through inhalation of the dust or vapor when these materials are heated. The dinitrobenzenes are believed to be somewhat more toxic than the mononitrobenzenes and more toxic than aniline. The effect of di- and trinitrobenzene on the body is similar to that of aniline and mononitrobenzene, with reduction of the oxygen-carrying power of the blood and depression of the nervous system being responsible for most of the symptoms following acute exposure. Poisoning with the solid nitro compounds is usually slower and less severe than is the case with the liquid nitro and amino benzenes since absorption is less rapid. Thus, chronic poisoning occurs more frequently than acute, the picture observed in the chronic form being one of anemia, moderate cyanosis, fatigue, slight dizziness, headache, insomnia, and loss of weight. Prolonged chronic exposure may result in damage to the liver and kidneys, with production of acute yellow atrophy, toxic hepatitis, and fatty degeneration of the kidneys. The introduction of one or more Cl atoms into the nitrobenzene ring results in the formation of chloronitrobenzene compounds or nitrochlors. The chloro-mono-nitrobenzenes have essentially the same toxic effect as nitrobenzene. The Cl derivatives of dinitrobenzene, on the other hand, while resembling dinitrobenzene in their systemic effects, are much more irritating to the skin. They act as direct irritants and, in addition, may cause sensitization.

Dangerous; many of these compounds are highly flammable and some are explosive, especially those with more than one nitro group on the ring (polynitroaryls, such as trinitrobenzene, trinitrotoluene, tetranitro-N-methylaniline, trinitrophenol). The presence of alkali increases the thermal sensitivity of the explosive materials. Industrial explosions have occurred in this manner. When heated to decomposition they evolve highly toxic fumes of NO_x. See specific nitro compounds.

NFU500 CAS: 119-33-5 HR: 2
2-NITRO-p-CRESOL
mf: $C_7H_7NO_3$ mw: 153.15
$CH_3(O_2N)C_6H_3OH$
PROP: Yellow in aqueous ethyl alc. D: 1.240 @ 28.6°, mp: 32°, bp: 125° @ 22 mm. Very sltly sol in water; very sol in alc and ether.
SYN: 4-METHYL-2-NITROPHENOL
TOXICITY DATA with REFERENCE:
orl-rat LD50:3360 mg/kg HURC** -,-,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Potentially explosive reaction with sodium hydroxide + sodium carbonate + methanol. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFV000 CAS: 2581-34-2 HR: 2
4-NITRO-m-CRESOL
mf: $C_7H_7NO_3$ mw: 153.15
PROP: Needles from H_2O. Mp: 127−129°.
TOXICITY DATA with REFERENCE:
cyt-mus-ipr 2500 mg/kg/10W-I EESADV 9,47,85
orl-rat LD50:1200 mg/kg JAFCAU 27,1054,79
ipr-mus LD50:90 mg/kg PCBPBS 8,302,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFV010 CAS: 99-53-6 HR: 3
4-NITRO-o-CRESOL
mf: $C_7H_7NO_3$ mw: 153.15
SYNS: o-CRESOL, 4-NITRO- □ 2-METHYL-4-NITROPHENOL
TOXICITY DATA with REFERENCE:
orl-mus LD50:390 mg/kg PHARAT 32,171,77
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NFV500 CAS: 1122-60-7 HR: 3
NITROCYCLOHEXANE
mf: $C_6H_{11}NO_2$ mw: 129.18
PROP: A liquid with a peculiar odor. Fp: −34°, bp: 205.6−206° (decomp).

TOXICITY DATA with REFERENCE:
orl-rat LDLo:100 mg/kg GISAAA 26(5),9,61
ihl-rat LC50:150 mg/m^3/4H 85GMAT -,92,82
orl-mus LD50:250 mg/kg 85GMAT -,92,82
ihl-mus LCLo:10 mg/m^3/2H 85GMAT -,92,82
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List.
SAFETY PROFILE: Poison by ingestion and inhalation. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NFV530 CAS: 2562-38-1 HR: D
NITROCYCLOPENTANE
mf: $C_5H_9NO_2$ mw: 115.15
SYN: CYCLOPENTANE, NITRO-
TOXICITY DATA with REFERENCE:
dnr-dom-oth 500 µmol/L MUREAV 413,69,1998
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFV540 CAS: 6629-29-4 HR: D
2-NITRO-4,6-DIAMINOTOLUENE
mf: $C_7H_9N_3O_2$ mw: 167.19
SYNS: 1,3-BENZENEDIAMINE, 4-METHYL-5-NITRO- □ 2,4-DIAMINO-6-NITROTOLUENE □ 4-METHYL-5-NITRO-1,3-BENZENEDIAMINE
TOXICITY DATA with REFERENCE:
mic-sat 20 µmol/L MUREAV 444,25,1999
slt-ham-ovr 1350 ppm/5H JJATDK 20,441,2000
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFV600 CAS: 6623-66-1 HR: D
2-NITRO-6H-DIBENZO(b,d)PYRAN-6-ONE
mf: $C_{13}H_7NO_4$ mw: 241.21
SYNS: 2-BIPHENYLCARBOXYLIC ACID, 2'-HYDROXY-5'-NITRO-, Δ-LACTON □ 6H-DIBENZO(b,d)PYRAN-6-ONE, 2-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 1 ng/plate MUREAV 345,1,1995
mnt-hmn-lym 1500 µg/L MUREAV 393,23,1997
SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFV700 CAS: 6639-36-7 HR: D
2-NITRODIBENZOTHIOPHENE
mf: $C_{12}H_7NO_2S$ mw: 245.32
SYN: DIBENZOTHIOPHENE, 2-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 100 ng/plate MUREAV 388,67,1997
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NFV710 CAS: 94764-55-3 HR: D
3-NITRODIBENZOTHIOPHENE
mf: $C_{12}H_7NO_2S$ mw: 229.26
SYN: DIBENZOTHIOPHENE, 3-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 50 ng/plate MUREAV 388,67,1997
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NFW000 CAS: 4185-47-1 HR: 3
NITRODIETHANOLAMINE DINITRATE
mf: $C_4H_8N_4O_8$ mw: 240.16
$O_2NN(C_2H_4ONO_2)_2$
SYNS: DIETHANOLNITRAMINE DINITRATE □ DIETHANOL-N-NITRAMINE DINITRATE □ DINA □ 2,2'-DINITRATO-N-NITRODI-ETHYLAMINE □ sym-DINITROXYDIETHYL-NITRAMINE □ N-NITRODIETHANOLAMINE DINITRATE □ 2,2'-(NITROIMINO)BISETHANOL, DINITRATE (ESTER) (9CI) □ 2,2'-NITROIMINOBIS(ETHYLNITRATE) □ 2,2'-NITROIMINO-DIETHANOL NITRATE □ 2,2'-(NITROIMINO)ETHANOL DINITRATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:3360 mg/kg KHZDAN 9,50,66
ipr-mus LD50:180 mg/kg PCJOAU 10,1504,76
ivn-gpg LD50:25 mg/kg THERAP 8,565,53
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. An explosive. Chromium compounds increase the burning rate. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS and NITRATES.

NFW100 CAS: 17074-42-9 HR: 3
1-NITRO-9-(DIETHYLAMINOETHYLAMINE)-ACRIDINE DIHYDROCHLORIDE
mf: $C_{19}H_{22}N_4O_2$•2ClH mw: 411.37
SYNS: C-516 □ N,N-DIETHYL-N'-(1-NITRO-9-ACRIDINYL)-1,2-ETHANEDIAMINE DIHYDROCHLORIDE (9CI)
TOXICITY DATA with REFERENCE:
dnd-hmn:hla 2500 nmol/L CBINA8 49,311,84
dns-hmn:hla 1 µmol/L CBINA8 49,311,84
dni-hmn:hla 70 nmol/L BBACAQ 825,244,85
orl-rat LD50:42,200 µg/kg MMDPA6 8,252,76
ivn-rat LD50:3400 µg/kg MMDPA6 8,252,76
orl-mus LD50:56,400 µg/kg MMDPA6 8,252,76
ivn-mus LD50:4900 µg/kg MMDPA6 8,252,76
ivn-pgn LD50:4920 mg/kg AITEAT 28,777,80
SAFETY PROFILE: Poison by ingestion and intravenous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NFW200 CAS: 17074-44-1 HR: 3
1-NITRO-9-(DIETHYLAMINOPROPYLAMINE)-ACRIDINE DIHYDROCHLORIDE
mf: $C_{20}H_{24}N_4O_2$•2ClH mw: 425.40
SYNS: C-410 □ N,N-DIETHYL-N'-(1-NITRO-9-ACRIDINYL)-1,3-PROPANEDIAMINE DIHYDROCHLORIDE (9CI)
TOXICITY DATA with REFERENCE:
orl-rat LD50:63,200 µg/kg MMDPA6 8,252,76
ivn-rat LD50:1200 µg/kg MMDPA6 8,252,76
orl-mus LD50:27,500 µg/kg MMDPA6 8,252,76
ivn-mus LD50:1600 µg/kg MMDPA6 8,252,76
ivn-pgn LD50:1600 µg/kg AITEAT 28,777,80
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NFW210 CAS: 23611-69-0 HR: 3
8-NITRO-DIHYDRO-1,3-BENZOXAZINE-2-THIONE-4-ONE
mf: $C_8H_4N_2O_4S$ mw: 224.20
SYNS: 2H-1,3-BENZOXAZINE-2,4(3H)-DIONE, 8-NITRO-2-THIO- □ 8-NITRO-2-THIO-2H-1,3-BENZOXAZINE-2,4(3H)-DIONE
TOXICITY DATA with REFERENCE:
orl-mus LD50:200 mg/kg USXXAM #3595959
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NFW220 CAS: 117929-14-3 HR: D
2-NITRO-4,5-DIHYDROPYRENE
mf: $C_{16}H_{11}NO_2$ mw: 249.28
SYNS: 4,5-DIHYDRO-2-NITROPYRENE □ PYRENE, 4,5-DIHYDRO-2-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 100 ng/plate MUREAV 209,67,1988
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFW350 CAS: 77162-70-0 HR: 3
1-NITRO-9-(2-DIHYDROXYETHYLAMINOETHYL-AMINO)ACRIDINE HYDROCHLORIDE
mf: $C_{19}H_{22}N_4O_4$•2ClH mw: 443.37
SYNS: C-835 □ 2,2'-((2-(8-NITRO-9-ACRIDINYLAMINO)ETHYL))DIETHANOL HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
dnd-hmn:hla 2500 nmol/L CBINA8 49,311,84
dns-hmn:hla 5 μmol/L CBINA8 49,311,84
dni-hmn:hla 20 nmol/L BBACAQ 825,244,85
orl-rat LD50:176 mg/kg AITEAT 28,735,80
ivn-rat LD50:1700 μg/kg AITEAT 28,735,80
orl-mus LD50:127 mg/kg AITEAT 28,735,80
ivn-mus LD50:2700 μg/kg AITEAT 28,735,80
SAFETY PROFILE: Poison by ingestion and intravenous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NFW400 CAS: 63944-10-5 HR: 3
1-NITRO-9-(DIMETHYLAMINE)-ACRIDINE DIHYDROCHLORIDE
mf: $C_{15}H_{13}N_3O_2$•2ClH mw: 340.23
SYN: C-702
TOXICITY DATA with REFERENCE:
orl-rat LD50:23,700 μg/kg MMDPA6 8,252,76
ivn-rat LD50:1400 μg/kg MMDPA6 8,252,76
orl-mus LD50:17,500 μg/kg MMDPA6 8,252,76
ivn-mus LD50:3700 μg/kg MMDPA6 8,252,76
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also AMINES.

NFW425 CAS: 28743-45-5 HR: 3
1-NITRO-9-(DIMETHYLAMINO)-ACRIDINE HYDROCHLORIDE
mf: $C_{15}H_{13}N_3O_2$•ClH mw: 303.77
SYN: C 702
TOXICITY DATA with REFERENCE:
orl-rat LD50:24 mg/kg AITEAT 22,823,74
ivn-rat LD50:1450 μg/kg AITEAT 22,823,74
orl-mus LD50:17,500 μg/kg AITEAT 22,823,74
ivn-mus LD50:3700 μg/kg AITEAT 22,823,74
ivn-pgn LD50:3700 μg/kg AITEAT 28,777,80
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NFW430 CAS: 24268-87-9 HR: 3
1-NITRO-10-(DIMETHYLAMINOETHYL)-9-ACRIDONE HYDROCHLORIDE
mf: $C_{17}H_{17}N_3O_3$•ClH mw: 347.83
SYNS: C-541 □ 10-(2-(DIMETHYLAMINO)ETHYL)-1-NITRO-9(10H)-ACRIDINONE MONOHYDROCHLORIDE (9CI)
TOXICITY DATA with REFERENCE:
orl-rat LD50:41 mg/kg MMDPA6 8,252,76
ivn-rat LD50:300 μg/kg MMDPA6 8,252,76
orl-mus LD50:33,300 μg/kg MMDPA6 8,252,76
ivn-mus LD50:900 μg/kg MMDPA6 8,252,76
ivn-pgn LD50:900 μg/kg AITEAT 28,777,80
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NFW435 CAS: 65094-73-7 HR: 3
1-NITRO-9-((2-DIMETHYLAMINO)-1-METHYL-ETHYLAMINO)-ACRIDINE DIHYDRO-CHLORIDE
mf: $C_{18}H_{20}N_4O_2$•2ClH mw: 397.34
SYNS: C-829 □ DIHYDROCHLORIDE-1-NITRO-9-((2-DI-METHYLAMINO)-1-METHYLETHYLAMINO)-ACRIDINE □ 9-((2-(DIMETHYLAMINO)-1-METHYLETHYL)AMINO)-1-NITRO-ACRIDINE DIHYDROCHLORIDE □ 9-((2-(DIMETHYLAMINO)-1-METHYLETHYL)AMINO)-1-NITROACRIDINE HYDRO-CHLORIDE □ N-DIMETHYL-1-METHYL-N'-(1-NITRO-9-ACRIDINYL)-1,2-ETHANEDIAMINE DIHYDROCHLORIDE □ N^1,N^1-DIMETHYL-N^2-(1-NITRO-9-ACRIDINYL)-1,2-PROPANEDI-AMINE DIHYDROCHLORIDE □ N'-(1-NITRO-9-ACRIDINYL)-N,N,1-TRIMETHYL-1,2-ETHANEDIAMINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
sce-hmn:lym 80 nmol/L/69H MUREAV 67,93,79
orl-rat LD50:105 mg/kg AITEAT 27,749,79
ivn-rat LD50:13,300 μg/kg AITEAT 27,749,79
orl-mus LD50:99,200 μg/kg AITEAT 27,749,79
ivn-mus LD50:21,300 μg/kg AITEAT 27,749,79
ivn-pgn LD50:21 mg/kg
SAFETY PROFILE: Poison by ingestion and intravenous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NFW450 HR: 3
1-NITRO-9-(5-DIMETHYLAMINOPENTYL-AMINO)ACRIDINE DIHYDROCHLORIDE
mf: $C_{20}H_{24}N_4O_2$•2ClH mw: 424.41
SYN: C 609
TOXICITY DATA with REFERENCE:
dnd-hmn:hla 2500 nmol/L CBINA8 49,311,84
dns-hmn:hla 1 μmol/L CBINA8 49,311,84
dni-hmn:hla 10 nmol/L BBACAQ 825,244,85
orl-rat LD50:63,300 μg/kg AITEAT 21,775,73

ivn-rat LD50:500 µg/kg AITEAT 21,775,73
orl-mus LD50:76,700 µg/kg AITEAT 21,775,73
ivn-mus LD50:1200 µg/kg AITEAT 21,775,73
ivn-pgn LD50:1200 µg/kg AITEAT 28,777,80
SAFETY PROFILE: Poison by ingestion and intravenous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NFW460 CAS: 24268-89-1 HR: 3
1-NITRO-10-(3-DIMETHYLAMINOPROPYL)-ACRIDONE HYDROCHLORIDE
mf: $C_{18}H_{19}N_3O_3$•ClH mw: 361.86
SYNS: C-492 □ 10-(3-(DIMETHYLAMINO)PROPYL)-1-NITRO-9-ACRIDANONE HYDROCHLORIDE □ 10-(3-(DIMETHYL-AMINO)PROPYL)-1-NITRO-9(10H)-ACRIDINONE MONOHY-DROCHLORIDE (9CI) □ 1-NITRO-14-(DIMETHYLAMINO-PROPYL)-ACRIDONE HYDROCHLORIDE □ 1-NITRO 10-(3-DIMETHYLAMINOPROPYL)-ACRIDON HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:53,300 µg/kg AITEAT 21,775,73
ivn-rat LD50:900 µg/kg AITEAT 21,775,73
orl-mus LD50:17,500 µg/kg MMDPA6 8,252,76
ivn-mus LD50:1 mg/kg AITEAT 21,775,76
ivn-pgn LD50:1000 mg/kg AITEAT 28,777,80
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NFW470 CAS: 20064-00-0 HR: 3
1-NITRO-9-(3-DIMETHYLAMINOPROPYL-AMINE)-ACRIDINE-N-OXIDE DIHYDRO-CHLORIDE
mf: $C_{18}H_{20}N_4O_3$•2ClH mw: 413.34
SYNS: C-684 □ N,N-DIMETHYL-N'-(1-NITRO-9-ACRIDINYL)-1,3-PROPANEDIAMINE N-OXIDE, DIHYDROCHLORIDE (9CI)
TOXICITY DATA with REFERENCE:
orl-rat LD50:356 mg/kg MMDPA6 8,252,76
ivn-rat LD50:5600 µg/kg MMDPA6 8,252,76
orl-mus LD50:300 mg/kg MMDPA6 8,252,76
ivn-mus LD50:6200 µg/kg MMDPA6 8,252,76
ivn-pgn LD50:6250 µg/kg AITEAT 28,777,80
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NFW500 CAS: 4533-39-5 HR: 3
1-NITRO-9-(3′-DIMETHYLAMINOPROPYL-AMINO)-ACRIDINE
mf: $C_{18}H_{20}N_4O_2$ mw: 324.42
PROP: Crystals from C_6H_6/pet ether. Mp: 134−135°.
SYNS: C 283 □ N,N-DIMETHYL-N'-(1-NITRO-9-ACRIDINYL)-1,3-PROPANEDIAMINE □ LEDAKRIN
TOXICITY DATA with REFERENCE:
mmo-sat 1 pmol/plate MUREAV 78,7,80
dns-hmn:hla 250 nmol/L CBINA8 49,311,84
orl-rat LD50:25,700 µg/kg MMDPA6 8,252,76
ivn-rat LD50:700 µg/kg MMDPA6 8,252,76
orl-mus LD50:34 mg/kg MMDPA6 8,252,76
ivn-mus LD50:1 mg/kg MMDPA6 8,252,76
SAFETY PROFILE: Poison by ingestion and intravenous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NFW525 CAS: 6237-24-7 HR: D
3-NITRO-9-(3′-DIMETHYLAMINOPROPYL-AMINO)ACRIDINE
mf: $C_{18}H_{20}N_4O_2$ mw: 324.42
SYNS: ACRIDINE, 9-((3-(DIMETHYLAMINO)PROPYL)AMINO)-3-NITRO- □ C-257 □ 1,3-PROPANEDIAMINE, N,N-DIMETHYL-N'-(3-NITRO-9-ACRIDINYL) -(9CI)
TOXICITY DATA with REFERENCE:
mic-bac-sat 2 µg/plate MUREAV 187,1,87
dni-hmn-hla 100 mg/L MMDPA6 8,258,76
SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFW535 CAS: 6237-23-6 HR: D
2-NITRO-9-(3′-DIMETHYLAMINOPROPYL-AMINO)ACRIDINE DIHYDROCHLORIDE
mf: $C_{18}H_{20}N_4O_2$•2ClH mw: 397.34
SYNS: ACRIDINE, 9-((3-(DIMETHYLAMINO)PROPYL)AMINO)-2-NITRO-, DIHYDROCHLORIDE □ 1,3-PROPANEDIAMINE, N,N-DIMETHYL -N'-(2-NITRO-9-ACRIDINYL)-, DIHYDRO-CHLORIDE
TOXICITY DATA with REFERENCE:
mic-bac-sat 50 nmol/plate MUREAV 78,7,80
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and HCl.

NFW600 CAS: 610-17-3 HR: D
2-NITRO-N,N-DIMETHYLANILINE
mf: $C_8H_{10}N_2O_2$ mw: 166.20
SYNS: ANILINE, N,N-DIMETHYL-o-NITRO- □ BENZEN-AMINE, N,N-DIMETHYL-2-NITRO-(9CI) □ o-(DIMETHYL-AMINO)NITROBENZENE □ N,N-DIMETHYL-o-NITROANILINE □ N,N-DIMETHYL-2-NITROBENZENAMINE
TOXICITY DATA with REFERENCE:
mma-sat 2500 µg/plate FCTOD7 23,695,85
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NFX500 CAS: 22751-18-4 HR: 3
1-NITRO-3-(2,4-DINITROPHENYL)UREA
mf: $C_7H_5N_5O_7$ mw: 271.15
$O_2NNHCO•NHC_6H_3(NO_2)_2$
SAFETY PROFILE: A very impact- and friction-sensitive explosive less powerful than picric acid. Upon decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NFY000 CAS: 836-30-6 HR: 1
p-NITRODIPHENYLAMINE
mf: $C_{12}H_{10}N_2O_2$ mw: 214.24
PROP: Yellow needles from alc. Mp: 132−133°. Insol in dilute acid; sol in alc, acetic acid.

SYNS: 4-NITRODIFENYLAMIN (CZECH) □ 4-NITRODIPHENYLAMINE □ 4-NITRO-N-PHENYLBENZENAMINE

TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H MLD 28ZPAK -,134,72
orl-rat LD50:>7940 mg/kg JACTDZ 1,66,90
orl-mus LDLo:4 g/kg TPKVAL 8,126,66
skn-rbt LD50:>7940 mg/kg JACTDZ 1,66,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS and AMINES.

NFY100 CAS: 55720-10-0 HR: D
4-NITRO-2-(p-DIPHENYLAMINOBENZYLIDEN-AMINO)DIPHENYLAMINE
mf: $C_{31}H_{24}N_4O_2$ mw: 484.59

SYNS: 1,2-BENZENEDIAMINE, N^2)-((4-(DIPHENYLAMINO)-PHENYL)METHYLENE)-4-NITRO-N^1)-PHENYL- □ N^2)-((4-(DIPHENYLAMINO)PHENYL)METHYLENE)-4-NITRO-N^1)-PHENYL-1,2-BENZENEDIAMINE

TOXICITY DATA with REFERENCE:
mic-bcs 10 mmol/L FAVUAI 6,118,1974

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

NFY500 CAS: 79-24-3 HR: 3
NITROETHANE
DOT: UN 2842
mf: $C_2H_5NO_2$ mw: 75.08

PROP: Oily, colorless liquid with pleasant but slightly irritating odor. Mp: −90°, bp: 114.0°, fp: −50°, d: 1.046 @ 25°/25°, autoign temp: 778°F, flash p: 106°F, decomp @ 335−382°, lel: 4.0%, vap press: 15.6 mm @ 20°, vap d: 2.58. Misc in MeOH, EtOH, Et_2O, $CHCl_3$; sltly sol in hot water; insol in cold H_2O. IDLH 1000 ppm.

SYN: NITROETAN (POLISH)

TOXICITY DATA with REFERENCE:
ihl-rat LCLo: 13,000 ppm/6H 85INA8 6,1105,91
ihl-mus LCLo: 19,500 mg/m^3/2H 85GMAT -,93,82
orl-rat LD50:1100 mg/kg GISAAA 32(9),9,67
orl-mus LD50:860 mg/kg GISAAA 32(9),9,67
ipr-mus LD50:310 mg/kg KHFZAN 10(6),53,76
orl-rbt LDLo:500 mg/kg JIHTAB 22,315,40

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

OSHA PEL: TWA 100 ppm

ACGIH TLV: TWA 100 ppm

DFG MAK: 100 ppm (310 mg/m^3)

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mildly toxic by inhalation. Causes injury to liver and kidneys. An eye and mucous membrane irritant. Flammable liquid when exposed to heat, sparks, flame, or oxidizers. To fight fire, use alcohol foam, CO_2, dry chemical; water can blanket fire. Incompatible with $Ca(OH)_2$, hydrocarbons, hydroxides, inorganic bases, KOH, NaOH, metal oxides, Explodes when heated. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Nitroethane, 2526.

NFY550 CAS: 625-48-9 HR: 3
2-NITROETHANOL
mf: $C_2H_5NO_3$ mw: 91.07

PROP: Mobile, hygroscopic liquid with pungent odor. D: 1.296 @ 20°/4°, bp: 119−120° @ 35 mm. Sol of EtOH, Et_2O and H_2O.

SYN: β-NITROALCOHOL

TOXICITY DATA with REFERENCE:
mmo-sat 1 mg/plate EMMUEG 19(Suppl 21),2,92
ipr-mus LD50:2100 mg/kg KHFZAN 11(1),73,77

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mutation data reported. An explosive. Traces of alkali may promote explosive decomposition. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS and ALCOHOLS.

NFY560 CAS: 26618-70-2 HR: 3
NITROETHYLENE POLYMER
mf: $(C_2H_3NO_2)_n$

SYNS: ETHENE, NITRO-, HOMOPOLYMER □ ETHYLENE, NITRO-, POLYMERS

DOT CLASSIFICATION: Forbidden

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

NFY570 CAS: 4528-34-1 HR: 3
NITROETHYL NITRATE (DOT)
mf: $C_2H_4N_2O_5$ mw: 136.08

SYN: ETHANOL, 2-NITRO-, NITRATE (ester)

DOT CLASSIFICATION: Forbidden

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

NGA500 CAS: 3741-14-8 HR: 2
4-NITRO-2-ETHYLQUINOLINE-N-OXIDE
mf: $C_{11}H_{10}N_2O_3$ mw: 218.23

SYNS: 2-ETHYL-4-NITROQUINOLINE-1-OXIDE □ QUINOLINE, 2-ETHYL-4-NITRO-, 1-OXIDE

TOXICITY DATA with REFERENCE:
mmo-sat 80 µmol/L CPBTAL 31,959,83
skn-mus TDLo:69 mg/kg/11W-I:ETA GANNA2 49,33,58

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

NGA600 CAS: 13177-29-2 HR: D
2-NITROFLUORANTHENE
mf: $C_{16}H_9NO_2$ mw: 247.26

SYN: FLUORANTHENE, 2-NITRO-

TOXICITY DATA with REFERENCE:
mic-sat 1 nmol/plate MUREAV 190,259,1987

msc-hmn-lym 280 µg/L MUREAV 371,123,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NGA700 CAS: 892-21-7 HR: 2
3-NITROFLUORANTHENE
SYN: 4-NITROFLUORANTHENE
TOXICITY DATA with REFERENCE:
mmo-sat 130 ng/plate MUREAV 91,321,81
otr-ham:emb 4100 nmol/L CRNGDP 4,357,83
scu-rat TDLo:120 mg/kg/8W-I:CAR CALEDQ 15,1,82
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 33,201,84.
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NGB000 CAS: 607-57-8 HR: 3
2-NITROFLUORENE
mf: $C_{13}H_9NO_2$ mw: 211.23
PROP: Needles from 50% acetic acid. Mp: 157−158°.
TOXICITY DATA with REFERENCE:
mmo-sat 250 ng/plate MUREAV 143,213,85
otr-hmn:lvr 80 µg/L BJCAAI 37,873,78
skn-rat TDLo:310 mg/kg/79W-I:NEO JNCIAM 10,1201,50
ipr-mus LD50:1600 mg/kg JJIND8 62,911,79
CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 46,291,89; Animal Sufficient Evidence IMEMDT 46,277,89; Human No Adequate Data IMEMDT 46,277,89. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Moderately toxic by intraperitoneal route. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NGB200 CAS: 5397-37-5 HR: D
3-NITRO-9H-FLUORENE
mf: $C_{13}H_9NO_2$ mw: 211.23
SYNS: 9H-FLUORENE, 3-NITRO-(9CI) □ FLUORENE, 3-NITRO- □ 3-NITROFLUORENE
TOXICITY DATA with REFERENCE:
mic-sat 3 µLg/plate MUREAV 388,67,1997
cyt-ham-lng 150 mg/L MUREAV 259,103,1991
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NGB300 CAS: 3096-52-4 HR: D
2-NITRO-9-FLUORENONE
mf: $C_{13}H_7NO_3$ mw: 225.21
SYN: 9H-FLUOREN-9-ONE, 2-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 100 ng/plate MUREAV 388,67,1997
sce-ham-ovr 132 µmol/L MUREAV 206,367,1988
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NGB500 CAS: 42135-22-8 HR: D
3-NITRO-9-FLUORENONE
mf: $C_{13}H_7NO_3$ mw: 225.21
PROP: Crystals from EtOH. Mp: 239−240°.
SYNS: 3-NITRO-9H-FLUOREN-9-ONE □ 3-NITROFLUORENONE
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate CALEDQ 15,209,82
mrc-esc 20 µg/well MUREAV 46,53,77
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS and KETONES.

NGB600 CAS: 42874-01-1 HR: 2
NITROFLUORFENE
mf: $C_{13}H_7ClF_3NO_3$ mw: 317.66
SYNS: 2-CHLORO-1-(4-NITROPHENOXY)-4-TRIFLUORO-METHYLBENZENE □ ETHER, 2-CHLORO-α-α-α-TRIFLUORO-p-TOLYL p-NITROPHENYL □ NITROFLUORFEN □ RH-2512
TOXICITY DATA with REFERENCE:
orl-rat LD50:1 g/kg 85AREA 2,200,77
orl-dog LD50:>5 g/kg JAFCAU 23,592,75
skn-rbt LD50:>5 g/kg JAFCAU 23,592,75
SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. When heated to decomposition it emits toxic vapors of NO_x, F^-, and Cl^-.

NGB700 CAS: 67-28-7 HR: 2
5-NITRO-2-FURALDEHYDE ACETYLHYDRAZONE
mf: $C_7H_7N_3O_4$ mw: 197.17
PROP: Yellow crystals from acetic acid + ethanol. Decomp 230−235°. Solubility in water 1:20,000.
SYNS: FURITON □ HC-064 □ NF 64 □ NIDRAFUR □ NIDRAFUR P □ NIFURHYDRAZONUM □ NIHYDRAZON □ NIHYDRAZONE □ ((5-NITRO-2-FURANYL)METHYLENE)-HYDRAZIDEACETIC ACID (9CI) □ 5-NITROFURFURAL-ACETYLHYDRAZONE □ ZONIFUR
TOXICITY DATA with REFERENCE:
pic-esc 8 mg/L CJMIAZ 10,932,64
mmo-eug 10 mg/L JPROAR 17,129,70
orl-mus LD50:1500 mg/kg JAPMA8 39,313,50
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES and NITRO COMPOUNDS.

NGB800 CAS: 92-55-7 HR: D
5-NITROFURALDEHYDE DIACETATE
mf: $C_9H_9NO_7$ mw: 243.19
SYNS: 2-FURANMETHANEDIOL, 5-NITRO-, DIACETATE □ 5-NITRO-2-FURAN METHANEDIOL DIACETATE □ 5-NITRO-FURFURAL DIACETATE □ 5-NITROFURFURYLIDENE DIACETATE
TOXICITY DATA with REFERENCE:
mmo-sat 5 µg/plate MUREAV 192,15,87
mma-sat 5 µg/plate MUREAV 192,15,87

mmo-esc 10 µg/plate MUREAV 26,3,74
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NGC000 CAS: 555-15-7 HR: 3
5-NITRO-2-FURALDEHYDE OXIME
mf: $C_5H_4N_2O_4$ mw: 156.11
SYNS: MICOFUR □ NIFUROXIME □ 5-NITRO-2-FURALDOXIME □ NITROFUROXIME □ USAF EA-5
TOXICITY DATA with REFERENCE:
mma-sat 10 µg/plate MUREAV 48,295,77
mmo-esc 2 mg/L MUREAV 53,289,78
mma-esc 10 mg/L BJCAAI 37(Suppl 3),124,78
mmo-eug 20 mg/L JPROAR 17,129,70
ipr-mus LD50:100 mg/kg NTIS** AD277-689
ivn-mus LD50:80 mg/kg CSLNX* NX#05399
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES and NITRO COMPOUNDS.

NGC400 CAS: 831-71-0 HR: 3
5-NITRO-2-FURALDEHYDE THIOSEMICARBAZONE
mf: $C_6H_6N_4O_3S$ mw: 214.22
SYNS: BENZAZON VII □ USAF EA-14
TOXICITY DATA with REFERENCE:
mmo-sat 125 µg/L CHABA8 93,108591c,80
dnr-esc 10 mg/L FOMIAZ 25,388,80
orl-mus LD50:1500 mg/kg JAPMA8 39,313,50
ipr-mus LD50:50 mg/kg NTIS** AD277-689
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also ALDEHYDES.

NGC500 CAS: 63-69-4 HR: D
5-NITRO-2-FURAMIDE o-ACETOXIME
mf: $C_7H_7N_3O_5$ mw: 213.17
SYNS: o-ACETYL-N-((5-NITRO-2-FURYL)FORMIMIDO-YL)HYDROXYLAMINE □ 2-FURANCARBOXIMIDAMIDE, N-(ACETYLOXY)-5-NITRO- □ HYDROXYLAMINE, o-ACETYL-N-((5-NITRO-2-FURYL)FORMIMIDOYL)-
TOXICITY DATA with REFERENCE:
mic-sat 500 ng/plate MUREAV 140,169,1984
pic-esc 25 nmol/plate MUREAV 140,169,1984
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NGC550 CAS: 92662-80-1 HR: D
5-NITRO-2-FURAMIDE o-BUTYROXIME
mf: $C_9H_{11}N_3O_5$ mw: 241.23
SYNS: 2-FURANCARBOXIMIDAMIDE, 5-NITRO-N-(1-OXO-BUTOXY)- □ N'-BUTYROYL-5-NITRO-2-FUROHYDRAZIDE □ 2-FUROIC ACID, 5-NITRO-, 2-BUTYRYLHYDRAZIDE □ 5-NITRO-2-FUROIC ACID 2-BUTYRYLHYDRAZIDE □ HYDROXYL-AMINE, o-BUTYRYL-N-((5-NITRO-2-FURYL)FORMIMIDOYL)-
TOXICITY DATA with REFERENCE:
mic-sat 1200 ng/plate MUREAV 140,169,1984
pic-esc 30 nmol/plate MUREAV 140,169,1984
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NGC570 CAS: 92662-79-8 HR: D
5-NITRO-2-FURAMIDE o-PROPIONOXIME
mf: $C_8H_9N_3O_5$ mw: 227.20
SYNS: 2-FURANCARBOXIMIDAMIDE, 5-NITRO-N-(1-OXOPROPOXY)- □ HYDROXYLAMINE, N-((5-NITRO-2-FURYL)FORMIMIDOYL)-o-PROPIONYL- □ N-((5-NITRO-2-FURYL)FORMIMIDOYL)-o-PROPIONYLHYDROXYLAMINE
TOXICITY DATA with REFERENCE:
mic-sat 1 µLg/plate MUREAV 140,169,1984
pic-esc 30 nmol/plate MUREAV 140,169,1984
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NGD000 CAS: 772-43-0 HR: D
5-NITRO-2-FURAMIDOXIME
mf: $C_5H_4N_2O_5$ mw: 172.11
SYN: N-HYDROXY-5-NITRO-2-FURANCARBOXIMIDAMIDE
TOXICITY DATA with REFERENCE:
mmo-sat 100 pmol/plate CRNGDP 2,283,81
dnr-sat 500 nmol/well CNREA8 34,2266,74
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NGD400 CAS: 609-39-2 HR: D
2-NITROFURAN
mf: $C_4H_3NO_3$ mw: 113.08
PROP: Yellow crystals from pet ether. Mp: 29°. Sol in H_2O and Et_2O.
SYNS: NITROFURAN □ 5-NITROFURAN
TOXICITY DATA with REFERENCE:
mmo-esc 100 µg/plate BBIADT 44,485,85
dnr-esc 20 µg/disc MUREAV 81,21,81
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NGD600 CAS: 2493-04-1 HR: D
5-NITRO-2-FURANMETHANOL
mf: $C_5H_5NO_4$ mw: 143.11
SYN: 5-NITROFURFURYL ALCOHOL
TOXICITY DATA with REFERENCE:
mmo-sat 1 nmol/plate MUREAV 81,21,81
pic-esc 1 µg/plate MUREAV 81,21,81
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also ALCOHOLS.

NGE000 CAS: 67-20-9 HR: 3
NITROFURANTOIN
mf: $C_8H_6N_4O_5$ mw: 238.18
PROP: Orange-yellow needles from Me_2CO (aq). Mp: 258−262°.
SYNS: BENKFURAN □ BERKFURIN □ CHEMIOFURAN □ CYANTIN □ DANTAFUR □ FURADANTIN □ FURADONIN □ FURANTOIN □ FUROBACTINA □ ITURAN □ MACRODANTIN □ NCI-C55196 □ N-(5-NITRO-2-FURFURYLIDENE)-1-AMINO-HYDANTOIN □ N-(5-NITROFURFURYLIDENE)-1-AMINO-

HYDANTOIN □ 1-((5-NITROFURFURYLIDENE)AMINO)-HYDANTOIN □ NSC-2107 □ N-TOIN □ ORAFURAN □ PARFURAN □ URIZEPT □ USAF EA-2 □ WELFURIN □ ZOOFURIN

TOXICITY DATA with REFERENCE:
mmo-sat 500 ng/plate AEMIDF 46,596,83
dnd-hmn:oth 112 g/L CBINA8 45,77,83
orl-man TDLo:140 mg/kg (14D male):REP JOURAA 77,275,57
unr-mus TDLo:750 mg/kg (female 9-11D post):TER TJADAB 14,250,76
orl-mus TDLo:21,630 mg/kg/2Y-C:CAR NTPTR* NTP-TR-341,89
orl-hmn TDLo:80 mg/kg:PNS,CNS ARNEAS 18,680,68
orl-wmn TDLo:24 mg/kg:BLD AJCPAI 58,408,72
unr-hmn TDLo:60 mg/kg:KID BMJOAE 2,1044,76
orl-rat LD50:604 mg/kg RPOBAR 2,303,70
ipr-rat LD50:112 mg/kg RPOBAR 2,303,70
orl-mus LD50:360 mg/kg JMCMAR 16,312,73
ipr-mus LD50:100 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 50,211,90; Animal Limited Evidence IMEMDT 50,211,90; Human Inadequate Evidence IMEMDT 50,211,90. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Human systemic effects: peripheral motor nerve recording changes, ataxia, changes in urine composition, and hemolysis with or without anemia. Human reproductive effects by ingestion: spermatogenesis. An experimental teratogen. Other experimental reproductive effects. Questionable carcinogen with experimental neoplastigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NGE100 CAS: 111041-98-6 HR: D
N-((5-NITRO-2-FURANYL)METHYLENE)-1H-BENZIMIDAZOL-1-AMINE

mf: $C_{12}H_8N_4O_3$ mw: 256.24

SYN: 1H-BENZIMIDAZOL-1-AMINE, N-((5-NITRO-2-FURANYL)METHYLENE)-

TOXICITY DATA with REFERENCE:
mic-sat 2 nmol/plate EMMUEG 26,86,1995
mic-sat 200 pmol/plate MUREAV 206,193,1988

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

NGE130 CAS: 113698-48-9 HR: D
N-((5-NITRO-2-FURANYL)METHYLENE)-2H-INDAZOL-2-AMINE

mf: $C_{12}H_8N_4O_3$ mw: 256.24

SYN: 2H-INDAZOL-2-AMINE, N-((5-NITRO-2-FURANYL)METHYLENE)-

TOXICITY DATA with REFERENCE:
mic-sat 200 pmol/plate EMMUEG 26,86,1995
mic-sat 100 pmol/plate MUREAV 206,193,1988

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

NGE160 CAS: 111070-55-4 HR: D
N-((5-NITRO-2-FURANYL)METHYLENE)-1H-PYRAZOL-1-AMINE

mf: $C_8H_6N_4O_3$ mw: 206.18

SYNS: (1-((5-NITROFURFURYLIDENE)AMINO)PYRAZOLE) □ 1H-PYRAZOL-1-AMINE, N-((5-NITRO-2-FURANYL)METHYLENE)-

TOXICITY DATA with REFERENCE:
mic-sat 2500 pmol/plate EMMUEG 26,86,1995
mic-sat 240 pmol/plate MUREAV 206,193,1988
slt-orl-uns-dmg 10 mmol/L MUTAEX 4,105,1989

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

NGE500 CAS: 59-87-0 HR: 3
NITROFURAZONE

mf: $C_6H_6N_4O_4$ mw: 198.16

PROP: Odorless, lemon-yellow crystals; bitter aftertaste. Darkens upon prolonged exposure to light. Mp: 236−240° (decomp). Sol in water; sltly sol in alc, propylene glycol; sol in alkaline solns; insol in ether.

SYNS: ALDOMYCIN □ ALFUCIN □ AMIFUR □ BABROCID □ BIOFUREA □ CHEMOFURAN □ COCAFURIN □ COXISTAT □ DERMOFURAL □ DYNAZONE □ ELDEZOL □ FEDACIN □ FLAVAZONE □ FRACINE □ FURACILLIN □ FURACINETTEN □ FURACOCCID □ FURACORT □ FURACYCLINE □ FURAL-DON □ FURAN-OFTENO □ FURAPLAST □ FURASEPTYL □ FURAZONE □ FURESOL □ FURFURIN □ FUVACILLIN □ HEMOFURAN □ IBIOFURAL □ MAMMEX □ MONOFURACIN □ NCI-C56064 □ NEFCO □ NF □ NIFUZON □ 5-NITROFUR-ALDEHYDE SEMICARBAZIDE □ 6-NITROFURALDEHYDE SEMICARBAZIDE □ 5-NITRO-2-FURALDEHYDE SEMICARBAZ-ONE □ 5-NITROFURAN-2-ALDEHYDE SEMICARBAZONE □ 5-NITRO-2-FURANCARBOXALDEHYDE SEMICARBAZONE □ 2((5-NITRO-2-FURANYL)METHYLENE)HYDRAZINE-CARBOXAMIDE □ 5-NITROFURFURAL SEMICARBAZONE □ (5-NITRO-2-FURFURYLIDENEAMINO)UREA □ NITROZONE □ NSC-2100 □ OTOFURAN □ SANFURAN □ SPRAY-DERMIS □ SPRAY-FORAL □ U-6421 □ USAF EA-4 □ VABROCID □ VADROCID □ VETERINARY NITROFURAZONE □ YATROCIN

TOXICITY DATA with REFERENCE:
dnd-esc 1 mg/L MUREAV 107,1,83
dnd-hmn:oth 250 μmol/L CNREA8 35,781,75
orl-rat LD50:590 mg/kg JAMAAP 133,299,47
ipr-rat LDLo:150 mg/kg BCPCA6 13,285,64
scu-rat LD50:3000 mg/kg JAMAAP 133,299,47
orl-mus LD50:249 mg/kg TRSTAZ 74,43,80
ipr-mus LD50:96 mg/kg JMCMAR 10,530,67
scu-mus LD50:753 mg/kg JPETAB 102,185,51

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 50,195,90; Animal Limited Evidence IMEMDT 50,195,90; Animal Inadequate Evidence IMEMDT 7,171,74; Human No Adequate Data IMEMDT 7,171,74; Human Inadequate Evidence IMEMDT 50,195,90. Reported in NTP Carcinogenesis Studies (feed); Clear Evidence: rat, mouse NTPTR* NTP-TR-337,88. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by subcutaneous route. Questionable carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. Experimental reproductive effects. A human sensitizer. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NGE775 CAS: 698-63-5 HR: D
5-NITROFURFURAL
mf: $C_5H_3NO_4$ mw: 141.09
PROP: Crystals pet ether. Mp: 35−36°. Mod sol in H_2O.
SYNS: 5-NITRO-2-FURALDEHYDE □ 5-NITRO-5-FURAN-CARBOXALDEHYDE (9CI) □ NITROFURFURAL □ 5-NITRO-FURFURALDEHYDE
TOXICITY DATA with REFERENCE:
mmo-sat 1 nmol/plate MUREAV 81,21,81
dnr-esc 50 µg/disc MUREAV 81,21,81
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also ALDEHYDES.

NGE777 CAS: 57277-87-9 HR: D
(1-((5-NITROFURFURYLIDENE)AMINO)-ADAMANTANE)
mf: $C_{15}H_{18}N_2O_3$ mw: 274.35
SYNS: N-((5-NITRO-2-FURANYL)METHYLENE)TRICYCLO-(3.3.1.1^{3,7}))DECAN-1-AMINE □ TRICYCLO(3.3.1.1^{3,7}))DECAN-1-AMINE, N-((5-NITRO-2-FURANYL)METHYLENE)-
TOXICITY DATA with REFERENCE:
mic-sat 18200 pmol/plate MUREAV 206,193,1988
mic-sat 6 nmol/plate EMMUEG 26,86,1995
slt-orl-uns-dmg 5 mmol/L MUTAEX 4,105,1989
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NGE780 CAS: 17140-81-7 HR: 2
1-((5-NITROFURFURYLIDENE)AMINO)-HYDANTOIN MONOHYDRATE
mf: $C_8H_6N_4O_5 \bullet H_2O$ mw: 256.20
SYNS: FURADANTIN MONOHYDRATE □ HYDANTOIN, 1-((5-NITROFURFURYLIDENE)AMINO)-, MONOHYDRATE □ 2,4-IMIDAZOLIDINEDIONE, 1-(((5-NITRO-2-FURANYL)METHYL-ENE)AMINO)-, MONOHYDRATE (9CI)
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 50,211,90; Animal Limited Evidence IMEMDT 50,211,90; Human Inadequate Evidence IMEMDT 50,211,90.
SAFETY PROFILE: Questionable carcinogen. When heated to decomposition it emits toxic vapors of NO_x.

NGG000 CAS: 23256-30-6 HR: 2
4-((5-NITROFURFURYLIDENE)AMINO)-3-METHYLTHIOMORPHOLINE-1,1-DIOXIDE
mf: $C_{10}H_{13}N_3O_5S$ mw: 287.32
SYNS: BAYER 2502 □ LAMPIT □ 3-METHYL-4-(5'-NITRO-FURYLIDENE-AMINO)-TETRAHYDRO-4H-1,4-THIAZINE-1,1-DIOXIDE □ NIFURTIMOX □ 1-((5-NITROFURFURYLIDENE)-AMINO)-2-METHYLTETRAHYDRO-1,4-THIAZINE-4,4-DIOXIDE □ TETRAHYDRO-3-METHYL-4-((5-NITROFURFURYLIDENE)-AMINO)-2H-1,4-THIAZINE-1,1-DIOXIDE
TOXICITY DATA with REFERENCE:
mmo-esc 50 mg/L MUREAV 77,241,80
dnr-esc 500 mg/L FOMIAZ 25,388,80
dnd-omi 100 µmol/L BCPCA6 34,1457,84
mnt-mus-orl 600 mg/kg TOLED5 25,259,85
orl-rat LD50:4050 mg/kg ARZNAD 22,1590,72
orl-mus LD50:2291 mg/kg TRSTAZ 74,43,80
orl-rbt LD50:2 g/kg ARZNAD 22,1590,72
SAFETY PROFILE: Moderately toxic by ingestion. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic and teratogenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NGG500 CAS: 67-45-8 HR: 3
3-((5-NITROFURFURYLIDENE)AMINO)-2-OXAZOLIDONE
mf: $C_8H_7N_3O_5$ mw: 225.18
PROP: Yellow crystals. Mp: 275° (decomp).
SYNS: BIFURON □ CORIZIUM □ DIAFURON □ ENTERO-TOXON □ FURAXONE □ FURAZOL □ FURAZOLIDON □ FURAZOLIDONE (USDA) □ FURAZON □ FURIDON □ FUROVAG □ FUROX □ FUROXAL □ FUROXANE □ FUROXONE SWINE MIX □ FUROZOLIDINE □ GIARDIL □ GIARLAM □ MEDARON □ NEFTIN □ NG-180 □ NICOLEN □ NIFULIDONE □ NIFURAN □ 3-(((5-NITRO-2-FURANYL)-METHYLENE)AMINO)-2-OXAZOLIDINONE □ NITROFUR-AZOLIDONE □ NITROFURAZOLIDONUM □ 3-(5'-NITRO-FURFURALAMINO)-2-OXAZOLIDONE □ N-(5-NITRO-2-FURFURYLIDENE)-3-AMINOOXAZOLIDINE-2-ONE □ N-(5-NITRO-2-FURFURYLIDENE)-3-AMINO-2-OXAZOLIDONE □ NITROFUROXON □ 3-((5-NITROFURYLIDENE)AMINO)-2-OXAZOLIDONE □ 5-NITRO-N-(2-OXO-3-OXAZOLIDINYL)-2-FURANMETHANIMINE □ PURADIN □ ROPTAZOL □ SCLAVENTEROL □ TIKOFURAN □ TOPAZONE □ TRICHOFURON □ TRICOFURON □ USAF EA-1 □ VIOFURAGYN
TOXICITY DATA with REFERENCE:
pic-esc 2 mg/L MUREAV 156,69,85
cyt-hmn:lym 2 mg/L/72H MUREAV 59,139,79
orl-man TDLo:11 mg/kg:PUL,BLD ARDSBL 105,823,72
orl-rat LD50:2336 mg/kg TXAPA9 18,185,71
orl-mus LD50:1782 mg/kg TRSTAZ 74,43,80
ipr-mus LD50:300 mg/kg PMDCAY 5,320,67
orl-ckn LDLo:150 mg/kg CLDND*
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 31,141,83. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Human systemic effects by ingestion: dyspnea, respiratory depression, and eosinophilia. Experimental reproductive effects. Human mutation data reported. Questionable carcinogen. When heated to decomposition it emits toxic fumes of NO_x.

NGG550 CAS: 13185-22-3 HR: D
4-((5-NITROFURFURYLIDENE)AMINO)-4H-1,2,4-TRIAZOLE
mf: $C_7H_5N_5O_3$ mw: 207.17
SYNS: FURAZONAL □ N-((5-NITRO-2-FURANYL)METHYL-ENE)-4H-1,2,4-TRIAZOL-4-AMINE □ 4H-1,2,4-TRIAZOL-4-AMINE, N-((5-NITRO-2-FURANYL)METHYLENE)-` □ 4H-1,2,4-TRIAZOLE, 4-((5-NITROFURFURYLIDENE)AMINO)-
TOXICITY DATA with REFERENCE:
mic-sat 5 nmol/plate EMMUEG 26,86,1995
mic-sat 2400 pmol/plate MUREAV 206,193,1988

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

NGG600 CAS: 13295-76-6 HR: D
5-NITRO-2-FUROHYDRAZIDE IMIDE
mf: $C_5H_6N_4O_3$ mw: 170.15
SYNS: 2-FURANCARBOXIMIDIC ACID, 5-NITRO-, HYDRAZIDE □ HYDRAZINE, 2-(5-NITRO-α-IMINOFURFURYL)- □ 2-(5-NITRO-α-IMINOFURFURYL)HYDRAZINE
TOXICITY DATA with REFERENCE:
mic-sat 200 ng/plate MUREAV 140,169,1984
pic-esc 20 nmol/plate MUREAV 140,169,1984
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NGH500 CAS: 645-12-5 HR: D
5-NITROFUROIC ACID
mf: $C_5H_3NO_5$ mw: 157.09
PROP: Light yellow from water. Mp: 185°, bp: subl. Very sltly sol in water; sol in alc and ether; insol in chloroform.
SYNS: 5-NITRO-2-FURANCARBOXYLIC ACID (9CI) □ 5-NITROFURANCARBOXYLIC ACID □ NITROFURATE □ 5-NITROPYROMUCATE
TOXICITY DATA with REFERENCE:
mmo-sat 1 mg/L MUREAV 44,139,77
mmo-esc 350 mg/L MUREAV 130,97,84
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NGH600 CAS: 83207-21-0 HR: D
5-NITRO-2-FUROIC ACID 2-ACETYLHYDRAZIDE
mf: $C_7H_7N_3O_5$ mw: 213.17
SYNS: N'-ACETYL-5-NITRO-2-FUROHYDRAZIDE □ 2-FURANCARBOXYLIC ACID, 5-NITRO-, 2-ACETYLHYDRAZIDE □ 2-FUROIC ACID, 5-NITRO-, 2-ACETYLHYDRAZIDE
TOXICITY DATA with REFERENCE:
mic-sat 800 ng/plate MUREAV 140,169,1984
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NGI000 CAS: 6281-23-8 HR: D
3-(5-NITRO-2-FURYL)ACRYLIC ACID
mf: $C_7H_5NO_5$ mw: 183.13
SYNS: 5-NFA □ 5-NITRO-2-FURANACRYLIC ACID □ 3-(5-NITRO-2-FURANYL)-2-PROPENOIC ACID □ NITROFURYLACRYLAMIDE □ 5-NITRO-2-FURYL ACRYLIC ACID
TOXICITY DATA with REFERENCE:
dnr-esc 50 µg/disc MUREAV 81,21,81
bfa-hmn/sat 14 mg/kg MUREAV 77,13,80
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NGI500 CAS: 712-68-5 HR: 3
2-(5-NITRO-2-FURYL)-5-AMINO-1,3,4-THIADIAZOLE
mf: $C_6H_4N_4O_3S$ mw: 212.20
SYNS: 2-AMINO-5-(5-NITRO-2-FURYL)-1,3,4-THIADIAZOLE □ 5-AMINO-2-(5-NITRO-2-FURYL)-1,3,4-THIADIAZOLE □ FURIDIAZINE □ 5-(5-NITRO-2-FURANYL)-1,3,4-THIADIAZOL-2-AMINE □ 5-(5-NITRO-2-FURYL)-2-AMINO-1,3,4-THIADIAZOLE
TOXICITY DATA with REFERENCE:
orl-rat TD:2240 mg/kg/32W-C:NEO,REP FEPRA7 29,817,70
CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Limited Evidence IMEMDT 7,143,74.
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and neoplastigenic data. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NGI800 CAS: 75198-31-1 HR: 3
3-(5-NITRO-2-FURYL)-IMIDAZO(1,2-a)PYRIDINE
mf: $C_{11}H_7N_3O_3$ mw: 229.21
SYN: NFIP
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

NGK000 CAS: 2122-86-3 HR: 2
5-(5-NITRO-2-FURYL)-1,3,4-OXADIAZOLE-2-OL
mf: $C_6H_3N_3O_5$ mw: 197.12
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NGK500 CAS: 36133-88-7 HR: 2
N-((3-(5-NITRO-2-FURYL)-1,2,4-OXADIAZOLE-5-YL)METHYL)ACETAMIDE
mf: $C_9H_8N_4O_5$ mw: 252.21
TOXICITY DATA with REFERENCE:
mma-sat 1 µg/plate MUREAV 40,9,76
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: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NGL000 CAS: 53757-31-6 HR: 2
3-(5-NITRO-2-FURYL)-2-PHENYLACRYLAMIDE
mf: $C_{13}H_{10}N_2O_4$ mw: 258.25
SYN: 3-(5-NITRO-2-FURYL)-2-PHENYL-2-PROPENAMIDE
TOXICITY DATA with REFERENCE:
mma-sat 1 µg/plate MUREAV 40,9,76
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
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported.

When heated to decomposition it emits toxic fumes of NO_x.

NGL500 CAS: 710-25-8 HR: 2
3-(5-NITRO-2-FURYL)-2-PROPENAMIDE
mf: $C_7H_6N_2O_4$ mw: 182.15
SYNS: 5-NITRO-2-FURANACRYLAMIDE □ 3-(5-NITRO-2-FURYL)ACRYLAMIDE □ 5-NITRO-2-FURYLACRYLAMIDE
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate JOPHDQ 1,15,78
dnr-sat 500 mmol/well CNREA8 34,2266,74
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NGM400 CAS: 53757-28-1 HR: 2
4-(5-NITRO-2-FURYL)THIAZOLE
mf: $C_7H_4N_2O_3S$ mw: 196.19
TOXICITY DATA with REFERENCE:
mmo-sat 10 ng/plate CNREA8 41,2648,81
dnr-sat 500 nmol/well CNREA8 34,2266,74
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

NGM500 CAS: 24554-26-5 HR: 3
N-(4-(5-NITRO-2-FURYL)-2-THIAZOLYL)-FORMAMIDE
mf: $C_8H_5N_3O_4S$ mw: 239.22
SYNS: FANFT □ 2-FORMYLAMINO-4-(5-NITRO-2-FURYL)THIAZOLE □ N-(4-(5-NITRO-2-FURYL)-2-THIAZOLYL)FORMAMID (GERMAN)
TOXICITY DATA with REFERENCE:
mmo-esc 3 ng/plate ENMUDM 6(Suppl 2),1,84
mma-esc 30 ng/plate ENMUDM 6(Suppl 2),1,84
bfa-rat/sat 658 mg/kg/7D-C MUREAV 135,169,84
otr-ham:emb 1 mg/L JJIND8 67,1303,81
dns-dog:oth 10 µmol/L CNREA8 42,3974,82
orl-rat TD:6000 mg/kg/6W-C:CAR,REP CNREA8 39,1207,79
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, tumorigenic data. Mutation data reported. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

NGN000 CAS: 18523-69-8 HR: 2
(4-(5-NITRO-2-FURYL)THIAZOL-2-YL)HYDRA-ZONOACETONE
mf: $C_{10}H_{10}N_4O_3S$ mw: 266.30
SYN: 2-(2-ISOPROPYLIDENEHYDRAZONO)-4-(5-NITRO-2-FURYL)-THIAZOLE
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NGN500 CAS: 42011-48-3 HR: 3
N-(4-(5-NITRO-2-FURYL)-2-THIAZOLYL)-2,2,2-TRIFLUOROACETAMIDE
mf: $C_9H_4F_3N_3O_4S$ mw: 307.22
SYNS: 2-(2,2,2-TRIFLUOROACETAMIDO)-4-(5-NITRO-2-FURYL)THIAZOLE □ 2,2,2-TRIFLUORO-N-(4-(5-NITRO-2-FURYL)-2-THIAZOLYL)ACETAMIDE
TOXICITY DATA with REFERENCE:
pic-esc 500 µg/L MUREAV 26,3,74
mma-sat 100 ng/plate MUREAV 48,295,77
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
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of F^-, NO_x, and SO_x.

NGN600 CAS: 63421-88-5 HR: 2
3-(5-NITRO-2-FURYL)-3′,4′,5′-TRIMETHOXY-ACRYLOPHENONE
mf: $C_{16}H_{15}NO_7$ mw: 333.32
SYNS: ACRYLOPHENONE, 3-(5-NITRO-2-FURYL)-3',4',5'-TRIMETHOXY- □ 2-PROPEN-1-ONE, 3-(5-NITRO-2-FURANYL)-1-(3,4,5 -TRIMETHOXYPHENYL)-
TOXICITY DATA with REFERENCE:
mic-bac-sat 50 ng/plate BSPBAD 117,101,78
ipr-mus LD50:>1500 mg/kg BSPBAD 117,101,78
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NGP500 CAS: 7727-37-9 HR: 1
NITROGEN
DOT: UN 1066/UN 1977
mf: N_2 mw: 28.02
PROP: Colorless, odorless, very stable, nonflammable gas; generally unreactive; colorless liquid or cubic crystals at low temp. Mp: −210.0°, d: 1.2506 g/L @ 0°, d (liquid): 0.808 g/cm^3 @ −195.8°. Condenses to a liquid. Sltly sol in water; sol in liquid ammonia, alc.
SYNS: NITROGEN, compressed (UN 1066) (DOT) □ NITROGEN, refrigerated liquid (cryogenic liquid) (UN 1977) (DOT) □ NITROGEN GAS
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 2.2; Label: Nonflammable Gas
SAFETY PROFILE: Low toxicity. In high concentrations it is a simple asphyxiant. The release of nitrogen from solution in the blood, with formation of small bubbles, is the cause of most of the symptoms and changes found in compressed air illness (caisson disease). It is a narcotic at high concentration and high pressure. Both the narcotic effects and the bends are hazards of compressed air atmospheres such as found in underwater diving. Nonflammable gas. Can react violently with lithium, neodymium, titanium under the proper conditions. See also ARGON.

NGQ500 CAS: 10025-85-1 HR: 3
NITROGEN CHLORIDE
mf: Cl_3N mw: 120.37
PROP: Very unstable, volatile, yellowish oil or rhombic crystals; pungent odor. Mp: <−40°, explodes above 60°, bp: <71°, d: 1.653, vap press: 150 mm @ 20°. Sol in CCl_4, $CHCl_3$.
SYNS: AGENE □ CHLORINE NITRIDE □ NITROGEN TRICHLORIDE □ NITROGEN TRICHLORIDE (DOT) □ TRICHLORAMINE □ TRICHLORINE NITRIDE
TOXICITY DATA with REFERENCE:
ihl-rat LC50:112 ppm/1H AIHAAP 44,145,83
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: Moderately toxic by inhalation. An irritant to the eyes, skin, mucous membranes, and a systemic central nervous system irritant. An explosive sensitive to impact, light, and ultrasound. The solid explodes on melting. The liquid explodes above 60°C. Concentrated solutions are also explosive. Explosive decomposition is initiated by contact with: concentrated ammonia, arsenic, dinitrogen tetraoxide, hydrogen sulfide, hydrogen trisulfide, nitrogen oxide, organic matter, ozone, phosphine, phosphorus, potassium cyanide, potassium hydroxide solutions, selenium, hydrogen chloride, hydrogen fluoride, hydrogen bromide, hydrogen iodide. Mixtures with chlorine + hydrogen are potentially explosive. Upon decomposition it emits toxic fumes of Cl^- and NO_x. See also CHLORIDES.

NGR000 HR: 3
NITROGEN CHLORIDE DIFLUORIDE
mf: ClF_2N mw: 87.46
SAFETY PROFILE: Very unstable. Use caution in handling.

NGR500 CAS: 10102-44-0 HR: 3
NITROGEN DIOXIDE
mf: NO_2 mw: 46.01
PROP: Brown gas or colorless solid to yellow liquid; irritating odor. Reacts with H_2O giving HNO_3 + NO. Mp: −9.3° (yellow liquid), bp: 21° (red-brown gas with decomp), d: 1.491 @ 0°, vap press: 400 mm @ 80°. Liquid below 21.15°. Sol in concentrated sulfuric acid, nitric acid. Corrosive to steel when wet. IDLH 20 ppm.
SYNS: AZOTE (FRENCH) □ AZOTO (ITALIAN) □ NITRITO □ NITROGEN PEROXIDE □ RCRA WASTE NUMBER P078 □ STICKSTOFFDIOXID (GERMAN) □ STIKSTOFDIOXYDE (DUTCH)
TOXICITY DATA with REFERENCE:
mmo-sat 6 ppm MUREAV 136,119,84
sce-ham:lng 5 ppm/10M-C MUREAV 89,303,81
ihl-hmn LCLo:200 ppm/1M AOHYA3 17,159,74
ihl-man TCLo:6200 ppb/10M:PUL KEKHA7 17,337,68
ihl-man TCLo:90 ppm/40M:PUL JOCMA7 8,301,66
ihl-rat LC50:88 ppm/4H AMIHBC 10,418,54
ihl-mus LC50:1000 ppm/10M JCTODH 4,246,77
ihl-dog LCLo:123 mg/m^3 TXAPA9 9,160,66
ihl-mky LCLo:123 mg/m^3/8H TXAPA9 9,160,66
ihl-rbt LC50:315 ppm/15M AIHAAP 23,457,62
ihl-gpg LC50:30 ppm/1H AEHLAU 10,220,65
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: STEL 1 ppm
ACGIH TLV: TWA 3 ppm; STEL 5 ppm; Not Classifiable as a Human Carcinogen
DFG MAK: 5 ppm (9 mg/m^3)
NIOSH REL: CL (Oxides of Nitrogen) 1 ppm/15M
SAFETY PROFILE: Experimental poison by inhalation. Moderately toxic to humans by inhalation. An experimental teratogen. Other experimental reproductive effects. Human systemic effects by inhalation: pulmonary vascular resistance changes, cough, dyspnea, and other pulmonary changes. Mutation data reported. Violent reaction with cyclohexane, F_2, formaldehyde, alcohols, nitrobenzene, petroleum, toluene. When heated to decomposition it emits toxic fumes of NO_x. See also NITRIC OXIDE.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #ID-109 or NIOSH: Nitrogen Dioxide, 6700.

NGS500 CAS: 13847-65-9 HR: 3
NITROGEN FLUORIDE OXIDE
mf: F_3NO mw: 87.01
PROP: Colorless gas. Strong oxidizing agent. Stable in glass. Resistant to hydrolysis. Mp: −160°, bp: −87°.
SYNS: AMOX □ TRIFLUOROAMINE OXIDE
TOXICITY DATA with REFERENCE:
ihl-rat LC50:24 ppm/4H TXAPA9 13,76,68
ipr-rat LD50:38 mg/kg TXAPA9 13,76,68
ihl-mus LC50:18 ppm/4H TXAPA9 13,76,68
ipr-mus LD50:30 mg/kg TXAPA9 13,76,68
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: Poison by inhalation and intraperitoneal routes. A skin, eye, and mucous membrane irritant. When heated to decomposition it emits very toxic fumes of F^- and NO_x. See also FLUORIDES.

NGT500 CAS: 63907-41-5 HR: 3
NITROGEN MONOXIDE, mixed with NITROGEN TETROXIDE
DOT: UN 1975
PROP: Containing up to 33.2% by weight nitric oxide (FEREAC 41,15972,76).
SYNS: AZOTU TLENKI (POLISH) □ NITRIC OXIDE and NITROGEN TETROXIDE MIXTURES □ NITROGEN TETROXIDE-NITRIC OXIDE MIXTURE
TOXICITY DATA with REFERENCE:
ihl-rat LC50:115 ppm/1H AIHAAP 23,457,62
DOT CLASSIFICATION: 2.3; Label: Poison Gas, Oxidizer
SAFETY PROFILE: A poison. Moderately toxic by inhalation. When heated to decomposition it emits toxic fumes of NO_x. See also components as listed.

NGU000 CAS: 10024-97-2 HR: 2
NITROGEN OXIDE
DOT: UN 1070/UN 2201
mf: N_2O mw: 44.02
PROP: Colorless nonflammable gas, liquid, or cubic crystals; slt sweet odor. Mp: −90.8°, bp: −88.49°, d: 1.977 g/L (liquid 1.226 @ −89°). Sltly sol in H_2O; sol in Et_2O; freely sol in $CHCl_3$ and EtOH.
SYNS: DINITROGEN MONOXIDE ◻ FACTITIOUS AIR ◻ HYPONITROUS ACID ANHYDRIDE ◻ LAUGHING GAS ◻ NITROUS OXIDE (DOT) ◻ NITROUS OXIDE, compressed (UN 1070) (DOT) ◻ NITROUS OXIDE, refrigerated liquid (UN 2201) (DOT)
TOXICITY DATA with REFERENCE:
sln-dmg-ihl 99 pph/6M-C ENVRAL 7,286,74
dni-rat-ihl 75,000 ppm/24H AACRAT 62,738,83
ihl-hmn TDLo:24 mg/kg/2H:CNS,CVS,MET BJANAD 35,631,63
ihl-rat LC50:160 mg/m^3/6H GISAAA 50(4),89,85
ihl-rat TCLo:30 mg/m^3/6H/61D-I GISAAA 50(4),89,85
ihl-rat TCLo:14 mg/m^3/6H/17W-I GISAAA 50(4),89,85
ihl-mus TCLo:50 ppm/6H/13W-I TXCYAC 6,57,90
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.
OSHA PEL: OSHA PEL (Shipyard): Simple asphyxiant-inert gas and vapor
ACGIH TLV: 50 ppm; Not Classifiable as a Human Carcinogen
DFG MAK: 100 ppm (180 mg/m^3)
NIOSH REL: (Waste Anesthetic Gases and Vapors) TWA 25 ppm
DOT CLASSIFICATION: 2.2; Label: Nonflammable Gas
SAFETY PROFILE: Moderately toxic by inhalation. Human systemic effects by inhalation: general anesthetic, decreased pulse rate without blood pressure fall, and body temperature decrease. An experimental teratogen. Experimental reproductive effects. Mutation data reported. An asphyxiant. Does not burn but is flammable by chemical reaction and supports combustion. Moderate explosion hazard; it can form an explosive mixture with air. Violent reaction with Al, B, hydrazine, LiH, LiC_6H_5, PH_3, Na, tungsten carbide. Also self-explodes at high temperatures.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Nitrous Oxide (Field-Readable), 6600.

NGU500 CAS: 10544-72-6 HR: 3
NITROGEN TETROXIDE
DOT: UN 1067
mf: N_2O_4 mw: 92.02
PROP: Brown paramagnetic gas or liquid; white diamagnetic solid. Stable in glass vessels. D: 1.493 @ 20°, mp: −11.2°, bp: 21.15°. Nitrogen tetroxide is a dimer of nitrogen dioxide (AIHAAP 23,457,62).
SYNS: DINITROGEN TETROXIDE ◻ DINITROGEN TETROXIDE, liquefied (DOT) ◻ NITROGEN DIOXIDE, DI-
TOXICITY DATA with REFERENCE:
ihl-rbt LC50:315 ppm/15M AIHAAP 23,457,62
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 2.3; Label: Poison Gas, Oxidizer
SAFETY PROFILE: A poison. Moderately toxic by inhalation. When heated to decomposition it emits toxic fumes of NO_x. See also NITROGEN MONOXIDE.

NGV500 HR: 3
NITROGEN TRIBROMIDE HEXAAMMONIATE
mf: $Br_3N{\bullet}6H_3N$ mw: 355.90
SYN: TRIBROMAMINE HEXAAMMONIATE
SAFETY PROFILE: Explodes at −67°C or on contact with phosphorous or arsenic. When heated to decomposition it emits toxic fumes of Br^-, NH_3, and NO_x. Incompatible with phosphorous, arsenic. See also BROMIDES.

NGW000 CAS: 7783-54-2 HR: 3
NITROGEN TRIFLUORIDE
DOT: UN 2451
mf: F_3N mw: 71.01
PROP: Colorless, odorous gas; odor of mold. Mp: −208.5°, bp: −129°, d (liquid): 1.537 @ −129°; d: (liquid @ bp) 1.885. Sltly sol in H_2O. IDLH 1000 ppm.
SYN: NITROGEN FLUORIDE
TOXICITY DATA with REFERENCE:
ihl-rat LC50:6700 ppm/1H TXAPA9 26,1,73
ihl-mus LC50:2000 ppm/4H 34ZIAG -,427,69
ihl-dog LC50:9600 ppm/1H AMRL** TR-69-84,69
ihl-mky LC50:7500 ppm/1H AMRL** TR-69-84,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 10 ppm
ACGIH TLV: TWA 10 ppm; 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: 2.2; Label: Nonflammable Gas, Oxidizer
SAFETY PROFILE: A poison. Mildly toxic by inhalation. Prolonged absorption may cause mottling of teeth, skeletal changes. Severe explosion hazard by chemical reaction with reducing agents, particularly when under pressure. A very dangerous fire hazard; a very powerful oxidizer; otherwise inert at normal temperatures and pressures. Reacts violently when ignited with H_2. When pure (dry) it does not attack glass or mercury at normal temperatures. Can react violently with NH_3, CO, diborane, H_2, H_2S, CH_4, tetrafluorohydrazine. Can react vigorously with reducing materials. Particularly hazardous under pressure. Incompatible with charcoal, hydrogen-containing compounds, tetrafluorohydrazine. When heated to decomposition it emits highly toxic fumes of F^-. See also FLUORIDES.

NGW500 CAS: 13444-85-4 HR: 3
NITROGEN TRIIODIDE
mf: NI_3 mw: 394.7
PROP: Black crystals or brown-black powder. Mp: explodes, bp: subl in vacuum. Insol in H_2O, EtOH and Et_2O.
SYN: NITROGEN IODIDE

DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: A severe explosion hazard when shocked, exposed to heat or flame, or by spontaneous chemical reaction. It has no known uses as an explosive because it is far too sensitive in the dry state to store or handle safely. If this material must be worked with, it should be kept wet. A convenient way of keeping it wet is with ether; when it is needed in the dry state, it simply has to be taken out into the open and the ether will evaporate, leaving it perfectly dry. When dry, it will explode when given the slightest touch, vibration, or rise in temperature. Even a puff of air directed into it can cause it to detonate. It is a high explosive and is very violent. Incompatible with O_3. H_2S, Cl_2, Br_2, acids. See also IODIDES.

NGX000 HR: 3
NITROGEN TRIIODIDE-AMMONIA
mf: $I_3N{\bullet}H_3N$ mw: 411.74
PROP: Mp: decomp below 20°, bp: explodes, d: 3.5.
SAFETY PROFILE: Severe explosion hazard. This material is extremely unstable when dry. The slightest shock or heat will cause it to decompose explosively. Readily formed from ammonia and iodine. It should be kept moist. Can self-explode. Explodes with friction (even when moist) and heat. When heated to decomposition it emits highly toxic fumes of I^-, NO_x, and NH_3. See also IODINE and AMMONIA.

NGX500 HR: 3
NITROGEN TRIIODIDE-SILVER AMIDE
mf: $I_3N{\bullet}AgH_2N$ mw: 518.60
SAFETY PROFILE: Dry complex may explode. When heated to decomposition it emits highly toxic fumes of NO_x and I^-. See also SILVER COMPOUNDS, AMIDES, and IODIDES.

NGY000 CAS: 55-63-0 HR: 3
NITROGLYCERIN
DOT: UN 0143/UN 0144/UN 1204/UN 3064
mf: $C_3H_5N_3O_9$ mw: 227.11
PROP: Colorless to yellow liquid; sweet burning taste; sensitive to shock. Mp: 13°, bp: explodes @ 218°, d: 1.599 @ 15°/15°, vap press: 1 mm @ 127°, vap d: 7.84, autoign temp: 518°F, decomp @ 50–60°, fp: 13°. Volatile @ 100°. Misc with ether, acetone, glacial acetic acid, ethyl acetate, benzene, nitrobenzene, pyridine, chloroform, ethylene bromide, dichloroethylene; sltly sol in pet ether, glycerin. Misc in most org solvs; prac insol in H_2O. IDLH 75 mg/m^3.
SYNS: ANGIBID ◻ ANGININE ◻ ANGIOLINGUAL ◻ ANGORIN ◻ BLASTING GELATIN (DOT) ◻ BLASTING OIL ◻ CARDAMIST ◻ GILUCOR NITRO ◻ GLONOIN ◻ GLYCERIN-TRINITRATE (CZECH) ◻ GLYCEROL, NITRIC ACID TRIESTER ◻ GLYCEROLTRINITRAAT (DUTCH) ◻ GLYCEROL TRINITRATE ◻ GLYCEROL (TRINITRATE de) (FRENCH) ◻ GLYCERYL NITRATE ◻ GLYCERYL TRINITRATE ◻ GTN ◻ KLAVI KORDAL ◻ LENITRAL ◻ MYOCON ◻ MYOGLYCERIN ◻ NG ◻ NIGLYCON ◻ NIONG ◻ NITORA ◻ NITRIC ACID TRIESTER OF GLYCEROL ◻ NITRIN ◻ NITRINE ◻ NITRINE-TDC ◻ NITRO-DUR ◻ NITROGLICERINA (ITALIAN) ◻ NITRO-GLICERYNA (POLISH) ◻ NITROGLYCERIN, desensitized, not <40% non-volatile water insoluble phlegmatizer (UN 0143) (DOT) ◻ NITROGLYCERIN, liquid, not desensitized (DOT) ◻ NITRO-GLYCERIN, solution in alcohol, with >1% but not >5% nitroglycerin (UN 3064) (DOT) ◻ NITROGLYCERIN, solution in alcohol, with >1% but not >10% nitroglycerin (UN 0144) (DOT) ◻ NITROGLY-CERIN, solution in alcohol, with not >1% nitroglycerin (UN 1204) (DOT) ◻ NITROGLYCERINE ◻ NITROGLYCERIN, SPIRITS OF ◻ NITROGLYCEROL ◻ NITROGLYN ◻ NITROL ◻ NITROLAN ◻ NITRO-LENT ◻ NITROLETTEN ◻ NITROLINGUAL ◻ NITROLOWE ◻ NITROMEL ◻ NITRONET ◻ NITRONG ◻ NITRORECTAL ◻ NITROSTABILIN ◻ NITROSTAT ◻ NITROZELL RETARD ◻ NK-843 ◻ NTG ◻ NYSCONITRINE ◻ PERGLOTTAL ◻ PROPANETRIOL TRINITRATE ◻ 1,2,3-PROPANETRIOL, TRINITRATE ◻ 1,2,3-PROPANETRIYL NITRATE ◻ RCRA WASTE NUMBER P081 ◻ SK-106N ◻ S.N.G ◻ SOLUTION GLYCERYL TRINITRATE ◻ SOUP ◻ SPIRIT OF GLONOIN ◻ SPIRIT OF GLYCERYL TRINITRATE ◻ SPIRIT OF TRINITROGLYCERIN ◻ TEMPONITRIN ◻ TNG ◻ TRINALGON ◻ TRINITRIN ◻ TRINITROGLYCERIN ◻ TRINITROGLYCEROL ◻ TRINITROL ◻ VASOGLYN
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD NTIS** AD-B011-150
mma-sat 50 µg/well CBINA8 19,77,77
ivn-man TDLo:51,429 µg/kg/2D-I:CNS,EYE AIMEAS 101,500,84
orl-rat LD50:105 mg/kg YACHDS 13,3649,85
ipr-rat LD50:102 mg/kg IYKEDH 13,90,82
scu-rat LD50:94 mg/kg YACHDS 13,3649,85
ivn-rat LD50:23,200 µg/kg JJATDK 3,161,83
orl-mus LD50:115 mg/kg YACHDS 13,3649,85
ipr-mus LD50:104 mg/kg IYKEDH 13,90,82
scu-mus LD50:110 mg/kg YACHDS 13,3649,85
ivn-mus LD50:10,600 µg/kg IYKEDH 13,90,82
skn-mus LD50:>35,200 µg/kg DRUGAY -,786,90
skn-rbt LD50:>280 mg/kg DRUGAY -,786,90
ivn-dog LD50:19 mg/kg OYYAA2 22,629,81
scu-cat LDLo:150 mg/kg AEPPAE 200,271,42
scu-rbt LDLo:400 mg/kg AEPPAE 200,271,42
ivn-rbt LD50:45 mg/kg NIIRDN 6,547,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Community Right-To-Know List.
OSHA PEL: STEL 0.1 mg/m^3 (skin)
ACGIH TLV: TWA 0.05 ppm (skin)
DFG MAK: 0.05 ppm (0.47 mg/m^3) (skin)
NIOSH REL: CL (Nitroglycerin or EGDN) 0.1 mg/m^3/20M
DOT CLASSIFICATION: EXPLOSIVE 1.1D; Label: EXPLOSIVE 1.1D, Poison (UN 0143); DOT Class: Forbidden (not desensitized); DOT Class: 3; Label: Flammable Liquid (UN 3064, UN 1204); DOT Class: EXPLOSIVE 1.1D; Label: EXPLOSIVE 1.1D (UN 0144)
SAFETY PROFILE: Human poison by an unspecified route. Poison experimentally by ingestion, intraperitoneal, subcutaneous, and intravenous routes. An experimental teratogen. Other experimental reproductive effects. A skin irritant. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. It can cause respiratory difficulties and death due to respiratory paralysis by ingestion. The acute symptoms of nitroglycerin poisoning are headaches, nausea, vomiting, abdominal cramps, convulsions, methemoglobinemia, circulatory collapse and reduced blood pressure,

excitement, vertigo, fainting, respiratory rales, and cyanosis. Toxic effects may occur by ingestion, inhalation of dust, or absorption through intact skin. Human systemic effects by intravenous route: encephalitis, miosis, corneal damage. Used as a vasodilator and as an explosive.

A very dangerous fire hazard when exposed to heat, flame, or by spontaneous chemical reaction. A severe explosion hazard when shocked or exposed to O_3, heat, or flame. Nitroglycerin is a powerful explosive, very sensitive to mechanical shock, heat, or UV radiation. Small quantities of it can readily be detonated by a hammer blow on a hard surface, particularly when it has been absorbed in filter paper. It explodes when heated to 215°C. Frozen nitroglycerin is somewhat less sensitive than the liquid. However, a half-thawed or partially thawed mixture is more sensitive than either one. When heated to decomposition it emits toxic fumes of NO_x. See also EXPLOSIVES, HIGH; and DYNAMITE.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #43 or NIOSH: Nitroglycerin and Ethylene Glycol Dinitrate, 2507.

NGY500 CAS: 53569-64-5 HR: 3
NITROGLYCERIN mixed with ETHYLENE GLYCOL DINITRATE (1:1)

mf: $C_3H_5N_3O_9 \bullet C_2H_4N_2O_6$ mw: 379.19

SYN: ETHYLENE GLYCOL DINITRATE mixed with NITROGLYCERIN (1:1)

TOXICITY DATA with REFERENCE:
scu-cat LDLo:75 mg/kg AEPPAE 200,271,42
scu-rbt LDLo:300 mg/kg AEPPAE 200,271,42

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

ACGIH TLV: TWA 0.05 ppm (skin)

NIOSH REL: CL (Nitroglycerin or EGDN) 0.1 mg/m^3/20M

SAFETY PROFILE: A human poison. Poison by subcutaneous route. A high explosive. When heated to decomposition it emits very toxic fumes of NO_x. See also EXPLOSIVES, HIGH; and individual components.

NGY700 CAS: 10339-31-8 HR: 3
N-NITROGLYCINE

mf: $C_2H_4N_2O_4$ mw: 120.08

PROP: A solid. Mp: 106°.

SYNS: NITRAMINOACETIC ACID □ N-NITROGLICIN

TOXICITY DATA with REFERENCE:
orl-mus LD50:40 mg/kg 85GDA2 4(1),56,80
ipr-mus LD50:43 mg/kg 85GDA2 4(1),56,80
ivn-mus LD50:32 mg/kg 85GDA2 4(1),56,80

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

NHA000 CAS: 3251-56-7 HR: 2
4-NITROGUAIACOL

mf: $C_7H_7NO_4$ mw: 169.15

PROP: Yellow needles from water. Mp: 104−105°.

TOXICITY DATA with REFERENCE:
ipr-mus LDLo:500 mg/kg CBCCT* 6,221,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NHA500 CAS: 556-88-7 HR: 3
α-NITROGUANIDINE

DOT: UN 0282/UN 1336

mf: $CH_4N_4O_2$ mw: 104.09

PROP: Two forms: (more stable, þ&□ -form) long, thin, flat needles or prisms from H_2O; fan-like clusters of small, thin, elongated plates from H_2O. Mp: 246°, decomp: 225−250°. Sltly sol in alc, concentrated acids, cold solns of alkalies; sol in water; very sltly sol in ether.

SYNS: GUANIDINE, NITRO- □ NITROGUANIDINE □ 2-NITROGUANIDINE □ NITROGUANIDINE, dry or wetted with <20% water, by weight (UN 0282) (DOT) □ NITROGUANIDINE, wetted (UN 1336) (DOT) □ PICRITE (the explosive) □ PICRITE, dry or wetted with <20% water, by weight (UN 0282) (DOT) □ PICRITE, wetted with not <20% water, by weight (UN 1336) (DOT)

TOXICITY DATA with REFERENCE:
cyt-ham:fbr 4 g/L/24H MUREAV 48,337,77
ipr-mus LD50:48 mg/kg PCJOAU 10,1504,76
orl-mus LD50:3850 mg/kg GISAAA 45(1),18,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: EXPLOSIVE 1.1D; Label: EXPLOSIVE 1.1D (UN 0282); DOT Class: 4.1; Label: Flammable Solid (UN 1336)

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. A very dangerous fire hazard when exposed to heat, flame, or by chemical reaction with oxidizers. A severe explosion hazard when shocked or exposed to heat or flame. It is about as powerful as TNT. It is normally mixed with colloided nitrocellulose or ammonium nitrate and paraffin wax. Can react vigorously with oxidizing materials and the derivatives can be explosive. The mercury and silver salts and other derivatives are much more impact-sensitive. When heated to decomposition it emits highly toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHB000 CAS: 6065-14-1 HR: 3
2-NITRO-2-HEPTENE

mf: $C_7H_{13}NO_2$ mw: 143.21

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:940 mg/kg IMSUAI 34,800,65
ipr-rat LDLo:280 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:940 mg/kg IMSUAI 34,800,65

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. A severe eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHB500 CAS: 6065-13-0 HR: 3
3-NITRO-2-HEPTENE

mf: $C_7H_{13}NO_2$ mw: 143.21

TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:420 mg/kg IMSUAI 34,800,65
ipr-rat LDLo:280 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:1400 mg/kg IMSUAI 34,800,65
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. A severe eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHB600 CAS: 141511-29-7 HR: D
2-NITRO-7,8,9,10,11,12-HEXAHYDRO-CHRYSENE
mf: $C_{18}H_{17}NO_2$ mw: 279.36
SYNS: CHRYSENE, 1,2,3,4,5,6-HEXAHYDRO-8-NITRO- (9CI) □ CHRYSENE, 7,8,9,10,11,12-HEXAHYDRO-2-NITRO- □ 7,8,9,10,11,12-HEXAHYDRO-2-NITROCHRYSENE
TOXICITY DATA with REFERENCE:
mic-sat 5 µLg/plate MUREAV 283,45,1992
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHD000 CAS: 6065-17-4 HR: 3
2-NITRO-2-HEXENE
mf: $C_6H_{11}NO_2$ mw: 129.18
TOXICITY DATA with REFERENCE:
eye-hmn 2500 ng/L IMSUAI 27,375,58
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:420 mg/kg IMSUAI 34,800,65
ipr-rat LDLo:120 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:1400 mg/kg IMSUAI 34,800,65
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. A severe eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHE000 CAS: 4812-22-0 HR: 3
3-NITRO-3-HEXENE
mf: $C_6H_{11}NO_2$ mw: 129.18
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:420 mg/kg IMSUAI 34,800,65
ipr-rat LDLo:80 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:940 mg/kg IMSUAI 34,800,65
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. A severe eye and skin irritant. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHE100 CAS: 2825-15-2 HR: 3
1-NITROHYDANTOIN
mf: $C_3H_3N_3O_4$ mw: 145.09
SYNS: 2,4-IMIDAZOLIDINEDIONE, 1-NITRO- □ HYDANTOIN, 1-NITRO-
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: An unstable substance forbidden from transport. When heated to decomposition it emits toxic vapors of NO_x.

NHE500 HR: 3
NITROHYDRENE
PROP: An oil. Composition: nitroglycerin + nitrosucrose.
SAFETY PROFILE: A very dangerous fire hazard when exposed to heat or flame or by chemical reaction. A severe explosion hazard when shocked or exposed to heat. It is a powerful explosive, about as powerful as nitroglycerin, and is used to stretch glycerin supplies. It is made by dissolving up to 25% of sucrose in glycerin and nitrating the resulting mixture to give an explosive oil. This procedure saves considerable quantities of glycerin. The material is almost exactly like nitroglycerin. Shock and heat will explode it. Incompatible with oxidizing materials. When heated to decomposition it emits highly toxic fumes of NO_x. See also NITROGLYCERIN, and EXPLOSIVES, HIGH.

NHE550 CAS: 77280-93-4 HR: 3
1-NITRO-9-(HYDROXYETHYLAMINO)-ACRIDINE HYDROCHLORIDE
mf: $C_{15}H_{13}N_3O_3$•ClH mw: 319.77
SYNS: C 857 □ ETHANOL, 2-((1-NITRO-9-ACRIDINYL)AMINO)-, MONOHYDROCHLORIDE □ 2-((1-NITRO-9-ACRIDINYL)-AMINO)ETHANOL HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
dnd-hmn-hla 2500 nmol/L CBINA8 49,311,84
dni-hmn-hla 3 nmol/L BBACAQ 825,244,85
hma-mus-hla 8 mg/kg BCPCA6 38,1301,89
uns-ham-lng 100 µg/L MUREAV 170,119,86
cyt-ham-lng 200 µg/L MUREAV 170,119,86
ipr-mus LD50:1210 µg/kg AITEAT 30,385,82
ivn-pgn LD50:1200 µg/kg AITEAT 28,777,80
SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. Human mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and HCl.

NHE600 CAS: 102107-61-9 HR: 3
3-NITRO-4-HYDROXYPHENYLARSENOUS ACID
mf: $C_6H_4AsNO_4$ mw: 229.03
SYNS: 4-ARSENOSO-2-NITROPHENOL □ PHENOL, 4-ARSENOSO-2-NITRO-
TOXICITY DATA with REFERENCE:
ivn-rat LD50:5 mg/kg JACSAT 70,1762,48
ivn-mus LDLo:7500 µg/kg PHBUA9 2,19,54
OSHA PEL: TWA 0.5 mg(As)/m^3
ACGIH TLV: BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and As.

NHF500 CAS: 4008-48-4 HR: 3
5-NITRO-8-HYDROXYQUINOLINE
mf: $C_9H_6N_2O_3$ mw: 190.17

PROP: Yellow crystals from EtOH, or AcOH. Mp: 179.5−181.5°.
SYN: 5-NITRO-8-QUINOLINOL
TOXICITY DATA with REFERENCE:
orl-rat LD50:510 mg/kg ATXKA8 20,313,65
orl-mus LD50:104 mg/kg ATXKA8 20,313,65
ivn-mus LD50:8300 µg/kg ATXKA8 20,313,65
SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NHG000 CAS: 527-73-1 HR: 3
2-NITROIMIDAZOLE
mf: $C_3H_3N_3O_2$ mw: 113.09
PROP: Pale-yellow crystals from EtOH. Mp: 282° (decomp).
SYNS: 11A □ AMICIN □ AZOMYCIN □ 2-NITRO-1H-IMIDAZOLE □ Ro 05-9129
TOXICITY DATA with REFERENCE:
mmo-sat 1 nmol/plate MUREAV 58,1,78
mmo-omi 1 mg/plate JGAMA9 11,129,65
orl-mus LD50:316 mg/kg AACHAX -,478,65
ipr-mus LD50:80 mg/kg 85ERAY 1,745,78
scu-mus LD50:316 mg/kg AACHAX -,478,65
ivn-mus LD50:80 mg/kg JAJAAA 6,182,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NHG100 CAS: 3034-38-6 HR: 2
4-NITRO-1H-IMIDAZOLE (9CI)
mf: $C_3H_3N_3O_2$ mw: 113.09
SYN: IMIDAZOLE, 4-NITRO-
TOXICITY DATA with REFERENCE:
mmo-klp 500 µmol/L/20H MUREAV 66,207,79
orl-rat LD50:600 mg/kg TXAPA9 89,175,87
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHG200 CAS: 17306-43-3 HR: D
2-NITROIMIDAZOLE RIBOSIDE
mf: $C_8H_{11}N_3O_6$ mw: 245.22
SYNS: AZOMYCIN RIBOSIDE □ 1H-IMIDAZOLE, 2-NITRO-1-β-d-RIBOFURANOSYL- □ IMIDAZOLE, 2-NITRO-1-β-d-RIBOFURANOSYL- □ 2-NITRO-1-β-d-RIBOFURANOSYL-IMIDAZOLE
TOXICITY DATA with REFERENCE:
mic-esc 5 µmol/L RAREAE 105,227,1986
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHH000 CAS: 6506-37-2 HR: 2
4-(2-(5-NITROIMIDAZOL-1-YL)ETHYL)-MORPHOLINE
mf: $C_9H_{14}N_4O_3$ mw: 226.27
PROP: Crystals from H_2O. Mp: 110−111°. Spar sol in H_2O; sol in Me_2CO, EtOH, and $CHCl_3$.
SYNS: ACTEROL □ ESCLAMA □ 1-(N-p-ETHYLMORPHOLINE)-5-NITROIMIDAZOLE □ K 1900 □ N-2-MORPHOLINOETHYL-5-NITROIMIDAZOLE □ 1-(2-N-MORPHOLINYLETHYL)-5-NITROIMIDAZOLE □ NAXOFEM □ NAXOGIN □ NIMORAZOLE □ NIMORAZOLO □ NITRIMIDAZINE □ NULOGYL □ SIRLEDI
TOXICITY DATA with REFERENCE:
mmo-sat 1 µmol/L TCMUD8 3,429,83
mma-sat 50 µg/plate MUREAV 77,301,80
mmo-esc 1 mmol/L MUREAV 26,483,74
mmo-klp 50 µmol/L/20H MUREAV 66,207,79
mmo-omi 250 µmol/L MUREAV 26,483,74
orl-rat LD50:1540 mg/kg KSRNAM 5,1403,71
ipr-rat LD50:1200 mg/kg KSRNAM 5,1403,71
scu-rat LD50:1090 mg/kg KSRNAM 5,1403,71
orl-mus LD50:1530 mg/kg JMCMAR 21,781,78
ipr-mus LD50:1200 mg/kg KSRNAM 5,1408,71
scu-mus LD50:1140 mg/kg KSRNAM 5,1408,71
SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal and subcutaneous routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS of AROMATIC HYDROCARBONS.

NHH500 CAS: 13551-87-6 HR: 2
1-(2-NITROIMIDAZOL-1-YL)-3-METHOXY-PROPAN-2-OL
mf: $C_7H_{11}N_3O_4$ mw: 201.21
SYNS: 1-(2-HYDROXY-3-METHOXYPROPYL)-2-NITROIMIDAZOLE □ α-(METHOXYMETHYL)-2-NITRO-1H-IMIDAZOLE-1-ETHANOL (9CI) □ α-(METHOXYMETHYL)-2-NITROIMIDAZOLE-1-ETHANOL □ α-(METHOXYMETHYL)-2-NITRO-1H-IMIDAZOLE-1-ETHANOL □ MISONIDAZOLE □ 1-(2-NITRO-1-IMIDAZOLYL)-3-METHOXY-2-PROPANOL □ NSC-261037 □ Ro 7-0582 □ SR 1354 □ SRI 1354
TOXICITY DATA with REFERENCE:
cyt-mus-ipr 1 g/kg CNREA8 43,2210,83
sce-mus:emb 3 mmol/L IOBPD3 6,915,80
unr-man TDLo:228 mg/kg/3W-I:SKN CTRRDO 63,123,79
orl-rat LD50:2131 mg/kg NTIS** PB81-121212
orl-mus LD50:1869 mg/kg NCISP* JAN86
ipr-mus LD50:1340 mg/kg RAREAE 91,186,82
scu-mus LD50:1414 mg/kg AACHAX -,513,67
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by ingestion, intraperitoneal, and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NHI000 CAS: 13551-92-3 HR: 2
3-(2-NITROIMIDAZOL-1-YL)-1,2-PROPANEDIOL
mf: $C_6H_9N_3O_4$ mw: 187.18
SYNS: DEMETHYLMISONIDAZOLE □ DESMETHYLMISONIDAZOLE □ 3-(2-NITRO-1H-IMIDAZOL-1-YL)-1,2-PROPANEDIOL □ NSC-261036 □ RO 5-9963
TOXICITY DATA with REFERENCE:

mmo-klp 20 μmol/L/20H MUREAV 66,207,79
otr-mus:emb 1 mmol/L/3D-C 45OJAG -,146,80
orl-rat LD50:5076 mg/kg NTIS** PB81-121212
ivn-rat LD50:2532 mg/kg NTIS** PB81-121212
ipr-mus LD50:2730 mg/kg RAREAE 91,186,82
ivn-dog LDLo:1800 mg/kg NTIS** PB81-121204
SAFETY PROFILE: Moderately toxic by intravenous and intraperitoneal routes. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NHI500 CAS: 7046-61-9 HR: 3
NITROIMINODIETHYLENEDIISOCYANIC ACID
mf: $C_6H_8N_4O_4$ mw: 200.18
SYN: 3-NITRO-3-AZAPENTANE-1,5-DIISOCYANATE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#05191
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
NIOSH REL: (Diisocyanates) TWA 0.005 ppm; CL 0.02 ppm/10M
SAFETY PROFILE: Poison by intravenous route. A sensitizer. When heated to decomposition it emits toxic fumes of NO_x.

NHI600 CAS: 99-69-4 HR: 3
3,3′-NITROIMINODIPROPIONIC ACID
mf: $C_6H_{10}N_2O_6$ mw: 206.18
SYNS: N-(2-CARBOXYETHYL)-N-NITRO-β-ALANINE □ PROPIONIC ACID, 3,3'-NITROIMINODI-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:355 mg/kg PCJOAU 10,1504,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

NHJ000 CAS: 34701-14-9 HR: 3
4-NITROINDANE
mf: $C_9H_9NO_2$ mw: 163.17
PROP: A solid. Mp: 44−44.5°, bp: 139° @ 10 mm.
SAFETY PROFILE: A heat-sensitive explosive. Residue from distillation explodes with admission of air. Upon decomposition it emits toxic fumes of NO_x.

NHJ009 CAS: 7436-07-9 HR: 3
5-NITROINDANE
mf: $C_9H_9NO_2$ mw: 163.17
PROP: Yellow solid. Mp: 40−40.5°, bp: 152° @ 14 mm.
SAFETY PROFILE: A heat-sensitive explosive. Residue from distillation explodes with admission of air. Upon decomposition it emits toxic fumes of NO_x.

NHK000 CAS: 2942-42-9 HR: D
7-NITROINDAZOLE
mf: $C_7H_5N_3O_2$ mw: 163.15
PROP: Crystals from MeOH. Mp: 186.5−187.5°.
SYN: 7-NITRO-1H-INDAZOLE
TOXICITY DATA with REFERENCE:
mmo-sat 100 nmol/plate MUREAV 173,169,86
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHK500 CAS: 6146-52-7 HR: D
5-NITROINDOLE
mf: $C_8H_6N_2O_2$ mw: 162.16
SYN: 5-NITRO-1H-INDOLE
TOXICITY DATA with REFERENCE:
mmo-sat 50 nmol/plate MUREAV 173,169,86
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHK600 CAS: 4693-02-1 HR: D
6-NITRO-ISATOIC ANHYDRIDE
mf: $C_8H_4N_2O_5$ mw: 208.14
PROP: Yellow crystalline solid. Mp: 259−263° (decomposes).
SYNS: 2H-3,1-BENZOXAZINE-2,4(1H)-DIONE, 6-NITRO- □ 6-NITRO IA
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

NHK650 CAS: 20820-44-4 HR: 3
NITROISOBUTYL GLYCERYL TRINITRATE
mf: $C_4H_6N_4O_{11}$ mw: 286.14
SYNS: 1,3-PROPANEDIOL, 2-(HYDROXYMETHYL)-2-NITRO-, TRINITRATE (ester) □ NITRO ISOBUTANE TRIOL TRINITRATE (DOT) □ NITROISOBUTYL GLYCOL TRINITRATE □ TRIMETHYLOL NITROMETHANE TRINITRATE (DOT)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: An unstable substance forbidden from transport. When heated to decomposition it emits toxic vapors of NO_x.

NHK800 CAS: 24458-48-8 HR: 2
NITROL
mf: $C_{10}H_{13}N_3O_3$ mw: 223.26
SYNS: BENZENAMINE, N-(2-METHYL-2-NITROPROPYL)-p-NITROSO-(9CI) □ CP 25017 □ N-(2-METHYL-2-NITROPROPYL)-p-NITROSOANILINE □ N-(2-METHYL-2-NITROPROPYL)-4-NITROSOBENZAMINE □ NITROL (PROMOTER) □ N-(p-NITROSOANILINOMETHYL)-2-NITROPROPANE
TOXICITY DATA with REFERENCE:
orl-rat LD50:2730 mg/kg CHIP** 27DEC83
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

NHK850 CAS: 23255-03-0 HR: 2
NITROLOTRIACETIC ACID DISODIUM SALT MONOHYDRATE
mf: $C_6H_7NO_6$•2Na•H_2O mw: 271.16
SYNS: ACETIC ACID, NITRILOTRI-, DISODIUM SALT, MONOHYDRATE □ DISODIUM HYDROGEN NITRILOTRIACETATE, MONOHYDRATE □ DISODIUM NITRILOTRIACETIC ACID MONOHYDRATE □ GLYCINE, N,N-BIS(CARBOXYMETHYL)-, DISODIUM SALT, MONOHYDRATE □ NTA DISODIUM SALT, MONOHYDRATE
CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 48,181,90; Animal Sufficient Evidence IMEMDT 48,181,90; Human No Adequate Data IMEMDT 48,181,90.
SAFETY PROFILE: Questionable carcinogen. When heated to decomposition it emits toxic vapors of NO_x and NaO.

NHK900 CAS: 133-58-4 HR: 3
NITROMERSOL
mf: $C_7H_5HgNO_3$ mw: 351.72
PROP: Yellow powder or granules, odorless and tasteless. Sol in boiling glacial acetic acid, insol in water, ether, acetone, or alc.
SYNS: MERCURY, (2-METHYL-5-NITROPHENOLATO(2-)-C^6,O^1)-(9CI) □ METAPHEN □ 5-METHYL-2-NITRO-7-OXA-8-MERCURABICYCLO(4.2.0)OCTA-1,3,5-TRIENE □ 4-NITRO-5-HYDROXYMERCURIORTHOCRESOL □ NITROMERSOL SOLUTION □ 7-OXA-8-MERCURABICYCLO(4.2.0)OCTA-1,3,5-TRIENE, 5-METHYL-2-NITRO-
TOXICITY DATA with REFERENCE:
ipr-rat LD50:3 mg/kg JAPMA8 38,270,49
ivn-dog LDLo:3500 µg/kg JPETAB 44,423,32
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
NIOSH REL: (Mercury, Organo) TWA 0.01 mg/m^3; STEL 0.03 mg/m^3 (skin)
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and Hg.

NHM000 CAS: 603-71-4 HR: 3
NITROMESITYLENE
mf: $C_9H_{11}NO_2$ mw: 165.19
PROP: Prisms from EtOH. Mp: 44°, bp: 255°.
SAFETY PROFILE: Can explode in preparation. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NHM500 CAS: 75-52-5 HR: 3
NITROMETHANE
DOT: UN 1261
mf: CH_3NO_2 mw: 61.05
PROP: A poisonous oily liquid; moderate to strong disagreeable odor. Bp: 101°, lel: 7.3%, fp: −29°, flash p: 95°F (CC), d: 1.1322 @ 25°/4°, autoign temp: 785°F, vap press: 27.8 mm @ 20°, vap d: 2.11. Sol in EtOH, Et_2O, DMF; sltly sol in H_2O. IDLH 750 ppm.
SYNS: NITROCARBOL □ NITROMETAN (POLISH)
TOXICITY DATA with REFERENCE:
orl-rat LD50:940 mg/kg GISAAA 32(9),9,67
orl-mus LD50:950 mg/kg GISAAA 32(9),9.67
ipr-mus LD50:110 mg/kg KHFZAN 10(6),53,76
orl-dog LDLo:125 mg/kg AMIHAB 11,102,55
ivn-dog LDLo:800 mg/kg AMIHAB 11,102,55
ihl-mky LCLo:1000 ppm INMEAF 16,441,47
orl-rbt LDLo:750 mg/kg JIHTAB 22,315,40
ivn-rbt LDLo:750 mg/kg AMIHAB 11,102,55
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 100 ppm
ACGIH TLV: TWA 20 ppm; Confirmed Animal Carcinogen with Unknown Relevance to Humans
DFG MAK: 100 ppm (250 mg/m^3)
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by intravenous route. Mildly toxic by inhalation. In humans it may cause anorexia, nausea, vomiting, diarrhea, kidney injury, and liver damage.

A very dangerous fire hazard when exposed to heat, oxidizers, or flame. May explode by detonation, heat, or shock. Its sensitivity is increased when mixed with acids, bases, acetone, aluminum powder, ammonium salts + organic solvents, bis(2-aminoethyl)amine, 1,2-diaminoethane + N,2,4,6-tetranitro-N-methyl aniline, haloforms (e.g., chloroform, bromoform), hydrazine + methanol. Ignites when mixed with alkyl metal halides (e.g., diethylaluminum bromide, dimethylaluminum bromide, ethylaluminum bromide iodide, methyl zinc iodide, methylaluminum diiodide). Can react violently with $AlCl_3$ + organic matter, $Ca(OH)_2$, m-methyl aniline, $Ca(OCl)_2$, hexamethylbenzene, hydrocarbons, inorganic bases, hydroxides, organic amines, KOH, formaldehyde, nitric acid, metal oxides, 1,2-diaminomethane, lithium perchlorate, sodium hydride. Reacts with aqueous silver nitrate to form the explosive silver fulminate. When heated to decomposition it emits toxic fumes of NO_x. See also NITROALKANES.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Nitromethane, 2527.

NHN500 CAS: 598-57-2 HR: 2
N-NITROMETHYLAMINE
mf: $CH_4N_2O_2$ mw: 76.07
PROP: Plates from Et_2O. Very sol in H_2O, EtOH, C_6H_6, and $CHCl_3$; less sol in Et_2O; spar sol in pet ether.
SYNS: METHANAMINE, N-NITRO-(9CI) □ METHYLNITRAMINE □ METHYL NITRAMINE (dry) (DOT) □ NITRAMINE, METHYL- □ N-NITROMETHANAMINE
TOXICITY DATA with REFERENCE:
dnd-rat:lvr 12,500 nmol/L JCREA8 111,123,86
ipr-mus LD50:500 mg/kg PCJOAU 10,1505,76
DOT CLASSIFICATION: Forbidden
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Questionable carcinogen with carcinogenic data. Mutation data reported. Explodes on contact with concentrated sulfuric acid. When heated to

decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS and AMINES.

NHN550 CAS: 33094-74-5 HR: D
2-NITRO-3-METHYL-5-CHLOROBENZOFURAN
mf: $C_9H_6ClNO_3$ mw: 211.61
SYN: 5-CHLORO-3-METHYL-2-NITROBENZOFURAN
TOXICITY DATA with REFERENCE:
mmo-sat 1 nmol/plate MUREAV 88,355,81
pic-sat 1 nmol/plate MUREAV 104,1,82
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

NHN575 CAS: 61532-76-1 HR: 3
2-(NITROMETHYLENE)-1-(PHENYLMETHYL)-IMIDAZOLIDINE
mf: $C_{11}H_{13}N_3O_2$ mw: 219.27
TOXICITY DATA with REFERENCE:
ipr-mus LD :>50 mg/kg PCBPBS 58,77,1997
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

NHN600 CAS: 58350-08-6 HR: 2
2-(NITROMETHYLENE)-2,3,4,5-TETRAHYDRO-1H-3-BENZAZEPINE
mf: $C_{11}H_{12}N_2O_2$ mw: 204.25
SYN: 1H-3-BENZAZEPINE, 2,3,4,5-TETRAHYDRO-2-(NITRO-METHYLENE)-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:>800 mg/kg IJOCAP 13,893,1975
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

NHN700 CAS: 41663-84-7 HR: 2
4-NITRO-N-METHYLPHTHALIMIDE
mf: $C_9H_6N_2O_4$ mw: 206.17
SYNS: AI3-28673 □ 1H-ISOINDOLE-1,3(2H)-DIONE, 2-METHYL-5-NITRO- □ 2-METHYL-5-NITRO-1H-ISOINDOLE-1,3(2H)-DIONE □ N-METHYL-4-NITROPHTHALIMIDE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD NTIS** OTS0540086
orl-rat LD50:2800 mg/kg NTIS** OTS0540086
skn-rbt LD :>2 g/kg NTIS** OTS0540086
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A mild skin irritant. When heated to decomposition it emits toxic vapors of NO_x.

NHO500 CAS: 77-49-6 HR: 3
2-NITRO-2-METHYL-1,3-PROPANEDIOL
mf: $C_4H_9NO_4$ mw: 135.14
PROP: Crystals. Mp: 148±1°, bp: decomp.
SYNS: 1,1-DIMETHYLOL-1-NITROETHANE □ 2-METHYL-2-NITROPROPANE-1,3-DIOL
TOXICITY DATA with REFERENCE:
orl-rat LDLo:2000 mg/kg JIHTAB 22,315,40
orl-mus LD50:6300 mg/kg JPETAB 93,26,48
skn-mus LD50:>10 g/kg JPETAB 93,26,48
ipr-mus LD50:1600 mg/kg KHFZAN 11(1),73,77
orl-rbt LDLo:1000 mg/kg JIHTAB 22,315,40
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion, skin contact, and intraperitoneal routes. Flammable when exposed to heat, flame or powerful oxidizers. When heated to decomposition it emits toxic fumes of NO_x.

NHP000 CAS: 76-39-1 HR: 2
2-NITRO-2-METHYL-1-PROPANOL
mf: $C_4H_9NO_3$ mw: 119.14
PROP: Crystals, needles or plates from MeOH. Mp: 91°, bp: 95° @ 10 mm. Sol in EtOH and Et_2O; spar sol in H_2O.
TOXICITY DATA with REFERENCE:
orl-rbt LDLo:1000 mg/kg JIHTAB 22,315,40
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHP050 CAS: 75567-58-7 HR: D
3-NITRO-1-METHYL-5H-PYRIDO(4,3-B)INDOLE
mf: $C_{12}H_9N_3O_2$ mw: 227.24
SYNS: 1-METHYL-3-NITRO-5H-PYRIDO(4,3-B)INDOLE □ 5H-PYRIDO(4,3-B)INDOLE, 1-METHYL-3-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 1 nmol/plate CRNGDP 4,1547,1983
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHP100 HR: D
NITROMIDE and SULFANITRAN
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

NHP500 CAS: 5863-35-4 HR: 2
NITROMIFENE CITRATE
mf: $C_{27}H_{28}N_2O_4 \bullet C_6H_8O_7$ mw: 636.71
PROP: Yellow crystals from Me_2CO. Mp: 85°.
SYNS: CI-628 □ CI-628 CITRATE □ CN-55945-27 □ 1-(2-(p-(α-(p-METHOXYPHENYL)-β-NITROSTYRYL)PHENOXY)ETHYL)-PYRROLIDINE CITRATE (1:1) □ 1-(2-(p-(α-(p-METHOXY-PHENYL)-β-NITROSTYRYL)PHENOXY)ETHYL)PYRROLIDINE MONOCITRATE □ PARKE DAVIS CI-628
TOXICITY DATA with REFERENCE:
orl-dog TDLo:3750 µg/kg (female 1-15D post):REP TJADAB 7,199,73
orl-dog TDLo:3750 µg/kg (female 1-15D post):TER TJADAB 7,199,73
orl-rat LD50:1778 mg/kg NATUAS 211,538,66
orl-mus LD50:832 mg/kg NATUAS 211,538,66
SAFETY PROFILE: Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

NHP990 CAS: 27254-36-0 HR: 3
NITRONAPHTHALENE
DOT: UN 2538

mf: $C_{10}H_7NO_2$ mw: 173.18
PROP: Yellow crystals. Mp: 59−61°, bp: (sublimes). Insol in water.
SYNS: MONONITRONAPHTHALENE □ NAPHTHALENE, MONONITRO- □ NAPHTHALENE, NITRO- □ NITRONAPHTHALENE □ NITRONAPHTHALENE (DOT)
TOXICITY DATA with REFERENCE:
ipr-mus LD50:3400 mg/kg GTPZAB 24(2),39,80
unr-mus LD50:3400 mg/kg GTPZAB 24(12),36,80
DOT CLASSIFICATION: 4.1; Label: Flammable Solid CFRGBR 49,172.101,92
SAFETY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal route. A skin, eye, and mucous membrane irritant. A flammable solid when exposed to heat or flame. To fight fire, use CO_2, dry chemical, or water spray. Explosive reaction with nitric acid + sulfuric acid above 60°C. Forms a sensitive explosive mixture with tetranitromethane. When heated to decomposition it emits toxic fumes of NO_x. See also 1-NITRONAPHTHALENE, 2-NITRONAPHTHALENE, and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NHQ000 CAS: 86-57-7 HR: 3
1-NITRONAPHTHALENE
mf: $C_{10}H_7NO_2$ mw: 173.18
PROP: Yellow crystals. Bp: 304°, flash p: 327°F (CC), d: 1.331 @ 4°/4°, vap d: 5.96, mp: 59−61°. Insol in water; sol in CS_2, alc, chloroform, and ether.
SYNS: NCI-C01956 □ α-NITRONAPHTHALENE
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 122,243,83
mma-sat 3300 ng/plate ENMUDM 7(Suppl 5),1,85
ipr-rat LD50:86 mg/kg JJATDK 4,253,84
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 46,291,89; Animal Inadequate Evidence IMEMDT 46,291,89; Human No Adequate Data IMEMDT 46,291,89. NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-64,78. Reported in EPA TSCA Inventory.
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. A skin, eye, and mucous membrane irritant. Flammable solid and combustible liquid when exposed to heat or flame. To fight fire, use CO_2, dry chemical, or water spray. Explosive reaction with nitric acid + sulfuric acid above 60°C. Forms a sensitive explosive mixture with tetranitromethane. When heated to decomposition it emits toxic fumes of NO_x. See also 2-NITRONAPHTHALENE and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NHQ500 CAS: 581-89-5 HR: 3
2-NITRONAPHTHALENE
mf: $C_{10}H_7NO_2$ mw: 173.18
PROP: Colorless solution when dissolved in ethanol. Mp: 79°, bp: 165° @ 15 mm. Insol in water; very sol in alc and ether.
SYN: β-NITRONAPHTHALENE
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 122,243,83
mrc-smc 1 pph JJIND8 62,901,79
orl-dog TDLo:2400 mg/kg/34/W-I:ETA XPHCI* 17DEC76
orl-rat LD50:4400 mg/kg 34ZIAG -,428,69
ipr-mus LD50:1300 mg/kg JJIND8 62,911,79
orl-rbt LD50:2650 mg/kg 34ZIAG -,428,693
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 46,303,89; Animal Inadequate Evidence IMEMDT 46,303,89; Human No Adequate Data IMEMDT 46,303,89. EPA Genetic Toxicology Program.
DFG MAK: DFG TRK: Animal Carcinogen, Suspected Human Carcinogen
NIOSH REL: (2-Nitronaphthalene) lowest feasible conc
SAFETY PROFILE: Confirmed carcinogen with experimental tumorigenic data. Moderately toxic by ingestion and intraperitoneal routes. Mutation data reported. A skin and lung irritant. For explosion and disaster hazards, see NITRATES. Combustible when exposed to heat or flame. When heated to decomposition it emits toxic fumes of NO_x. See also 1-NITRONAPHTHALENE.

NHQ950 CAS: 69267-51-2 HR: 2
2-NITRONAPHTHO(2,1-b)FURAN
mf: $C_{12}H_7NO_3$ mw: 213.20
SYN: R6597
TOXICITY DATA with REFERENCE:
mmo-sat 1 nmol/plate MUREAV 88,355,81
mma-sat 1 nmol/plate MUREAV 88,355,81
pic-sat 100 pmol/plate MUREAV 104,1,82 CNREA8 44,1969,84
msc-ham:lng 500 µg/L CNREA8 44,1969,84
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NHR100 CAS: 101688-07-7 HR: 3
1-(2-NITRONAPHTHO(2,1-b)FURAN-7-YL)-ETHANONE
mf: $C_{14}H_9NO_4$ mw: 255.24
SYNS: ETHANONE, 1-(2-NITRONAPHTHO(2,1-b)FURAN-7-YL)- □ KETONE, METHYL 2-NITRONAPHTHO(2,1-b)FURAN-7-YL □ R 7542
TOXICITY DATA with REFERENCE:
oth-esc 1 nmol/tube MUTAEX 1,217,86
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Mutation data reported. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

NHR200 CAS: 23245-64-9 HR: D
5-NITRO-1-NAPHTHONITRILE
mf: $C_{11}H_6N_2O_2$ mw: 198.19
SYNS: 1-NAPHTHALENECARBONITRILE, 5-NITRO- □ 1-NAPHTHONITRILE, 5-NITRO- □ N-NITROSONORNICOTINE □ NNN
TOXICITY DATA with REFERENCE:
mic-sat 10 µLg/plate EQSFAP 4,226,1975
mic-sat 100 µLg/plate MUREAV 116,185,1983
mic-esc 50 µLg/plate MUREAV 40,19,1976

uns-esc 20 mg/L MUREAV 131,101,1984
dnr-bcs 20 ug/disc MUREAV 40,19,1976
mic-sat 250 µLg/plate/20M MUREAV 492,13,2001
mic-uns 1.95 mg/L/16H MUREAV 492,13,2001
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHR500 CAS: 13115-28-1 HR: 2
3-NITRO-2-NAPHTHYLAMINE
mf: $C_{10}H_8N_2O_2$ mw: 188.20
PROP: Red needles from pet ether. Mp: 115−116°.
TOXICITY DATA with REFERENCE:
orl-rat TDLo:38 g/kg/51W-I:CAR,REP JNCIAM 41,985,68
orl-rat TD:130 mg/kg/1Y-I:NEO JNCIAM 41,985,68
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also AMINES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NHR550 CAS: 140456-78-6 HR: 2
NITRONITRAMIDE AMMONIUM SALT
mf: $H_4N_4O_4$ mw: 124.08
SYN: NITRAMIDE, NITRO-, AMMONIUM SALT
TOXICITY DATA with REFERENCE:
orl-rat LD50:588 mg/kg STGNBT-,12,1999
ihl-rat LC :>210 mg/m^3/4H STGNBT-,12,1999
orl-mus LD50:667 mg/kg STGNBT-,12,1999
SAFETY PROFILE: Moderately toxic by ingestion and inhalation. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

NHR600 CAS: 55758-10-6 HR: D
4-NITRO-2-(p-NITROBENZYLIDENAMINO)-DIPHENYLAMINE
mf: $C_{19}H_{14}N_4O_4$ mw: 362.37
SYNS: 1,2-BENZENEDIAMINE, 4-NITRO-N^2)-((4-NITROPHENYL)METHYLENE)-N^1)-PHENYL- □ 4-NITRO-N^2)-((4-NITROPHENYL)METHYLENE)-N^1)-PHENYL-1,2-BENZENEDIAMINE
TOXICITY DATA with REFERENCE:
mic-bcs 10 mmol/L FAVUAI 6,118,1974
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHR620 CAS: 51042-51-4 HR: D
(E)-1-NITRO-3-(2-(4-NITROPHENYL)ETHENYL)-BENZENE
mf: $C_{14}H_{10}N_2O_4$ mw: 270.26
SYNS: BENZENE, 1-NITRO-3-(2-(4-NITROPHENYL)ETHENYL)-, (E)- □ (E)-3,4'-DINITROSTILBENE
TOXICITY DATA with REFERENCE:
mic-sat 1 nmol/plate MUREAV 341,57,1994
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHR640 CAS: 55720-16-6 HR: D
4-NITRO-2-(3′-NITROSALICYLIDENAMINO)-DIPHENYLAMINE
mf: $C_{19}H_{14}N_4O_5$ mw: 378.37
SYNS: o-(((2-ANILINO-5-NITROPHENYL)IMINO)METHYL)-6-NITROPHENOL □ PHENOL, 2-(((2-ANILINO-5-NITROPHENYL)-IMINO)METHYL)-6-NITRO- □ PHENOL, 2-NITRO-6-(((5-NITRO-2-(PHENYLAMINO)PHENYL)IMINO)METHYL)-
TOXICITY DATA with REFERENCE:
mic-bcs 10 mmol/L FAVUAI 6,118,1974
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHS000 CAS: 13010-07-6 HR: D
3-NITRO-1-NITROSO-1-PROPYLGUANIDINE
mf: $C_4H_9N_5O_3$ mw: 175.18
SYN: N-NITROSO-N'-NITRO-N-PROPYLGUANIDINE
TOXICITY DATA with REFERENCE:
mmo-sat 100 mmol/plate IDZAAW 50,403,75
pic-esc 500 µg/L ESKHA5 88,118,70
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and NITRO COMPOUNDS.

NHS100 CAS: 101043-65-6 HR: D
1-NITRO-6-NITROSOPYRENE
mf: $C_{16}H_8N_2O_3$ mw: 276.26
SYNS: 1-NITROSO-6-NITROPYRENE □ 1,6-NONP □ PYRENE, 1-NITRO-6-NITROSO-
TOXICITY DATA with REFERENCE:
mic-sat 40 pmol/plate CRNGDP 7,65,1986
msc-ham-ovr 10 µmol/L CRNGDP 7,65,1986
mic-esc 10 µmol/L/1H MUREAV 484,19,2001
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHS120 CAS: 100593-23-5 HR: D
1-NITRO-8-NITROSOPYRENE
mf: $C_{16}H_8N_2O_3$ mw: 276.26
SYNS: 1,8-NONP □ 1-NITROSO-8-NITROPYRENE □ PYRENE, 1-NITRO-8-NITROSO-
TOXICITY DATA with REFERENCE:
mic-sat 8 pmol/plate CRNGDP 7,65,1986
mic-esc 25 µmol/L CRNGDP 12,879,1991
add-esc 25 µmol/L CRNGDP 12,879,1991
msc-ham-ovr 5 µmol/L CRNGDP 7,65,1986
add-rbt-oth 5 µmol/L CRNGDP 10,1323,1989
mic-esc 10 µmol/L/1H MUREAV 484,19,2001
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHS500 CAS: 13826-86-3 HR: 3
NITRONIUM TETRAFLUOROBORATE(1$^-$)
mf: BF_4NO_2 mw: 132.82
PROP: Colorless crystals; easily hydrolyized. Spar sol in MeCN and $MeNO_2$.
TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#05621
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2.5 mg(F)/m^3

ACGIH TLV: TWA 2.5 mg(F)/m^3; BEI: 3 mg/g creatinine of fluorides in urine prior to shift; 10 mg/g creatinine of fluorides in urine at end of shift.
NIOSH REL: (Inorganic Fluorides) TWA 2.5 mg(F)/m^3
SAFETY PROFILE: Poison by intravenous route. A powerful nitrating agent when dissolved in sulfolane. Incompatible with tetrahydrothiophene-1,1-dioxide, organics, α-propanol, methane, ethane @ −78° or higher. When heated to decomposition it emits very toxic fumes of F^- and NO_x. See also BORON COMPOUNDS.

NHT000 CAS: 4812-25-3 HR: 3
2-NITRO-2-NONENE
mf: $C_9H_{17}NO_2$ mw: 171.27
TOXICITY DATA with REFERENCE:
eye-hmn 10 μg/L IMSUAI 27,375,58
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:2100 mg/kg IMSUAI 34,800,65
ipr-rat LDLo:180 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:620 mg/kg IMSUAI 34,800,65
ihl-ckn LCLo:43 ppm AMIHAB 18,312,58
SAFETY PROFILE: Poison by inhalation and intraperitoneal routes. Moderately toxic by ingestion and skin contact. A severe eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHU000 CAS: 6065-04-9 HR: 2
3-NITRO-3-NONENE
mf: $C_9H_{17}NO_2$ mw: 171.27
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:2100 mg/kg IMSUAI 34,800,65
ipr-rat LDLo:420 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:420 mg/kg IMSUAI 34,800,65
SAFETY PROFILE: Moderately toxic by ingestion, skin contact and intraperitoneal routes. A severe eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHV500 CAS: 6065-01-6 HR: 3
5-NITRO-4-NONENE
mf: $C_9H_{17}NO_2$ mw: 171.27
TOXICITY DATA with REFERENCE:
orl-rat LDLo:940 mg/kg IMSUAI 34,800,65
ipr-rat LDLo:280 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:420 mg/kg IMSUAI 34,800,65
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHW000 CAS: 6065-11-8 HR: 3
2-NITRO-2-OCTENE
mf: $C_8H_{15}NO_2$ mw: 157.24
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:1400 mg/kg IMSUAI 34,800,65
ipr-rat LDLo:280 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:620 mg/kg IMSUAI 34,800,65
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. A severe skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHW500 CAS: 6065-10-7 HR: 3
3-NITRO-2-OCTENE
mf: $C_8H_{15}NO_2$ mw: 157.24
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:620 mg/kg IMSUAI 34,800,65
ipr-rat LDLo:180 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:620 mg/kg IMSUAI 34,800,65
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. A severe skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHX000 CAS: 6065-09-4 HR: 3
3-NITRO-3-OCTENE
mf: $C_8H_{15}NO_2$ mw: 157.24
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:620 mg/kg IMSUAI 34,800,65
ipr-rat LDLo:180 mg/kg IMSUAI 34,800,65
skn-rbt LDLo:940 mg/kg IMSUAI 34,800,65
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion and skin contact. A severe skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHX100 CAS: 103-94-6 HR: 2
4′-NITROOXANILIC ACID
mf: $C_8H_6N_2O_5$ mw: 210.16
SYNS: ACETIC ACID, ((4-NITROPHENYL)AMINO)OXO-(9CI) □ KYSELINA N-(4-NITROFENYL)OXAMOVA □ ((4-NITROPHENYL)AMINO)OXOACETIC ACID □ N-(4-NITROPHENYL)OXAMIC ACID
TOXICITY DATA with REFERENCE:
orl-mus LDLo:500 mg/kg 85JCAE -,741,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NHY100 CAS: 600-26-0 HR: 3
1-NITRO-1-OXIMINOETHANE
mf: $C_2H_4N_2O_3$ mw: 104.07
SYN: ETHYLNITROLIC ACID
SAFETY PROFILE: An explosive solid. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHY250 CAS: 625-49-0 HR: 3
NITROOXIMINOMETHANE
mf: $CH_2N_2O_3$ mw: 90.04
PROP: Needles from Et_2O or unstable liquid. Mp: 68° (decomp). Sol in H_2O.
SYN: METHYLNITROLIC ACID
SAFETY PROFILE: An unstable and explosive solid. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NHY500 CAS: 53663-14-2 HR: 3
7-NITRO-3-OXO-3H-2,1-BENZOXAMERCUROLE
mf: $C_7H_3HgNO_4$ mw: 365.70
PROP: IDLH 10 mg/m^3 (as Hg).
SYNS: 2-HYDROXYMERCURI-3-NITROBENZOIC ACID-1,2-CYCLIC ANHYDRIDE □ 7-NITRO-3H-2,1-BENZOXAMERCUROL-3-ONE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:31,300 µg/kg CBCCT* 5,284,53
ivn-mus LD50:56 mg/kg CSLNX* NX#05674
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m^3 (skin)
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also NITRO COMPOUNDS and MERCURY COMPOUNDS.

NHY600 CAS: 55720-11-1 HR: D
4-NITRO-2-(p-OXYBENZYLIDENAMINO)-DIPHENYLAMINE
mf: $C_{19}H_{15}N_3O_3$ mw: 333.37
SYNS: 4-(((2-ANILINO-5-NITROPHENYL)IMINO)METHYL)-PHENOL □ PHENOL, 4-(((2-ANILINO-5-NITROPHENYL)-IMINO)METHYL)- □ PHENOL, 4-(((5-NITRO-2-(PHENYL-AMINO)PHENYL)IMINO)METHYL)-
TOXICITY DATA with REFERENCE:
mic-bcs 10 mmol/L FAVUAI 6,118,1974
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHY700 CAS: 55720-15-5 HR: D
4-NITRO-2-(2′-OXYBENZYLIDENAMINO)-DIPHENYLAMINE
mf: $C_{19}H_{15}N_3O_3$ mw: 333.37
SYNS: o-(((2-ANILINO-5-NITROPHENYL)IMINO)METHYL)-PHENOL □ PHENOL, 2-(((2-ANILINO-5-NITROPHENYL)-IMINO)METHYL)- □ PHENOL, 2-(((5-NITRO-2-(PHENYL-AMINO)PHENYL)IMINO)METHYL)-
TOXICITY DATA with REFERENCE:
mic-bcs 10 mmol/L FAVUAI 6,118,1974
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NHZ000 CAS: 6065-19-6 HR: 3
2-NITRO-2-PENTENE
mf: $C_5H_9NO_2$ mw: 115.15
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:280 mg/kg IMSUAI 34,800,65
ipr-rat LDLo:80 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:940 mg/kg IMSUAI 34,800,65
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Moderately toxic by skin contact. A severe skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NIA000 CAS: 6065-18-5 HR: 3
3-NITRO-2-PENTENE
mf: $C_5H_9NO_2$ mw: 115.15
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open SEV AMIHAB 18,312,58
eye-rbt 50 mg SEV AMIHAB 18,312,58
orl-rat LDLo:420 mg/kg IMSUAI 34,800,65
ihl-rat LCLo:268 ppm/5H AMIHAB 18,312,58
ipr-rat LDLo:55 mg/kg TXAPA9 1,156,59
skn-rbt LDLo:620 mg/kg IMSUAI 34,800,65
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion, inhalation, and skin contact. A severe eye and skin irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NIA700 CAS: 20731-44-6 HR: 3
3-NITROPERCHLORYLBENZENE
mf: $C_6H_4ClNO_5$ mw: 205.55
$O_2NC_6H_4ClO_3$
SAFETY PROFILE: A shock-sensitive explosive. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also PERCHLORATES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIB000 CAS: 943-39-5 HR: 2
p-NITROPEROXYBENZOIC ACID
mf: $C_7H_5NO_5$ mw: 183.13
PROP: Crystals from $CHCl_3$. Mp: 138°.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also PEROXIDES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIB500 CAS: 20589-63-3 HR: 2
3-NITROPERYLENE
mf: $C_{20}H_{11}NO_2$ mw: 297.32
SYN: PERYLENE, 3-NITRO-
TOXICITY DATA with REFERENCE:
mic-bac-sat 1 nmol/plate SCIEAS 202,515,78
mic-bac-sat 200 ng/plate CRNGDP 5,925,84
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 46,313,89; Human No Adequate Data IMEMDT 46,313,89; Animal Inadequate Evidence IMEMDT 46,313,89.

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

NIB600 CAS: 17024-17-8 HR: D
1-NITROPHENANTHRENE
mf: $C_{14}H_9NO_2$ mw: 223.24
SYN: PHENANTHRENE, 1-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 1 nmol/plate MUREAV 349,137,1996
dnd-uns 100 nmol/tube MUREAV 349,137,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIC000 CAS: 17024-18-9 HR: D
2-NITROPHENANTHRENE
mf: $C_{14}H_9NO_2$ mw: 223.24
PROP: Pale-yellow crystals from EtOH. Mp: 99°.
TOXICITY DATA with REFERENCE:
mmo-sat 125 mg/plate CBINA8 26,11,79
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NIC100 CAS: 17024-19-0 HR: D
3-NITROPHENANTHRENE
mf: $C_{14}H_9NO_2$ mw: 223.24
SYN: PHENANTHRENE, 3-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 1 nmol/plate MUREAV 349,137,1996
dnd-uns 100 nmol/tube MUREAV 349,137,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIC200 CAS: 136-79-8 HR: 2
5-NITRO-o-PHENETIDINE
mf: $C_8H_{10}N_2O_3$ mw: 182.20
SYNS: 1-AETHOXY-2-AMINO-4-NITROBENZOL □ ANILINE, 2-ETHOXY-5-NITRO- □ BENZENAMINE, 2-ETHOXY-5-NITRO- □ DOUXAN □ 2-ETHOXY-5-NITROANILINE □ NEO-DOUXAN □ 1-OXY-2-AMINO-4-NITROBENZOL AETHYL ETHER □ o-PHENETIDINE, 5-NITRO-(8CI)
TOXICITY DATA with REFERENCE:
ipr-rat LD50:470 mg/kg AEPPAE 208,178,1949
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

NIC990 CAS: 610-67-3 HR: D
o-NITROPHENETOLE
mf: $C_8H_9NO_3$ mw: 167.18
SYNS: 1-ETHOXY-2-NITROBENZENE □ PHENETOLE, p-NITRO-
TOXICITY DATA with REFERENCE:
mmo-sat 1 µmol/plate MUREAV 58,11,78
dnr-bcs 500 nL/disc MUREAV 170,11,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NID000 CAS: 100-29-8 HR: 2
p-NITROPHENETOLE
mf: $C_8H_9NO_3$ mw: 167.18
PROP: Colorless monoclinic prisms from Et_2O or EtOH (aq). D: 1.18 @ 15°, mp: 59−60°, bp: 283° @ 758 mm. Very sltly sol in water; very sol in hot alc, ether.
SYNS: 1-ETHOXY-4-NITROBENZENE □ p-NITROPHENETOL (GERMAN)
TOXICITY DATA with REFERENCE:
mmo-sat 250 µg/plate CRNGDP 3,167,82
dnr-bcs 5 mg/disc MUREAV 170,11,86
ipr-rat LD50:2100 mg/kg AGGHAR 17,217,59
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIE600 CAS: 554-84-7 HR: 3
3-NITROPHENOL
DOT: UN 2648
mf: $C_6H_5NO_3$ mw: 139.12
PROP: Monoclinic crystals from HCl. Mp: 97°, bp: 194° @ 70 mm, d: 1.485 @ 20°/4°. Decomposes when distilled at ordinary pressure. Sol in hot water and dil acids, caustic solns; insol in pet ether.
SYNS: m-HYDROXYNITROBENZENE □ 3-HYDROXY-NITROBENZENE □ m-NITROFENOL □ m-NITROPHENOL (DOT)
TOXICITY DATA with REFERENCE:
skn-rbt 20 mg/24H MOD 85JCAE -,675,86
eye-rbt 5 mg/24H SEV 85JCAE -,675,86
orl-rat LD50:328 mg/kg GTPPAF 8,145,72
scu-rat LDLo:500 mg/kg RMSRA6 16,449,1896
orl-mus LD50:1070 mg/kg GTPZAB 25(8),50,81
ipr-mus LDLo:70 mg/kg RBPMAZ 22,1,52
scu-gpg LDLo:500 mg/kg RMSRA6 16,449,1896
scu-frg LDLo:160 mg/kg RMSRA6 16,449,1896
orl-mam LD50:250 mg/kg GISAAA 45(10),16,80
skn-mam LD50:543 mg/kg GISAAA 45(10),16,80
CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraperitoneal routes. Moderately toxic by skin contact. A skin and severe eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also other nitrophenol entries.

NIF000 CAS: 100-02-7 HR: 3
4-NITROPHENOL
DOT: UN 1663
mf: $C_6H_5NO_3$ mw: 139.12
PROP: Colorless to sltly yellow; odorless crystals, sweet then burning taste. D: 1.270 @ 120°/4°, mp: 113−114° (subl). Sltly sol in cold water; very sol in alc, chloroform, ether; sol in alkali solns, hydroxides, and carbonates.
SYNS: 4-HYDROXYNITROBENZENE □ NCI-C55992 □ 4-NITROFENOL (DUTCH) □ p-NITROPHENOL (DOT) □

PARANITROFENOL (DUTCH) □ PARANITROFENOLO (ITALIAN) □ PARANITROPHENOL (FRENCH, GERMAN) □ RCRA WASTE NUMBER U170

TOXICITY DATA with REFERENCE:
dnd-esc 50 µmol/L MUREAV 89,95,81
dni-hmn:fbr 1 mmol/L CNREA8 35,1392,75
scu-rat LDLo:200 mg/kg RMSRA6 16,449,1896
orl-mus LD50:380 mg/kg GTPZAB 25(8),50,81
ipr-mus LD50:75 mg/kg NTIS** AD691-490
ivn-dog LDLo:10 mg/kg XPHBAO 271,131,41
scu-gpg LDLo:200 mg/kg RMSRA6 16,449,1896
ims-pgn LDLo:65 mg/kg JPETAB 49,187,33

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Poison by ingestion, subcutaneous, intraperitoneal, intravenous, and intramuscular routes. Moderately toxic by skin contact. Human mutation data reported. Its exothermic decomposition causes a dangerously fast pressure increase. Mixtures with diethyl phosphite may explode when heated. When heated to decomposition it emits toxic fumes of NO_x. See also other nitrophenol entries and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIF010 CAS: 88-75-5 HR: 3
o-NITROPHENOL

DOT: UN 1663

mf: $C_6H_5NO_3$ mw: 139.12

PROP: Light-yellow crystals, needles, or prisms from EtOH or Et_2O; aromatic odor. Mp: 45°, bp: 214.5°, d: 1.495 @ 20°, vap press: 1 mm @ 49.3°. Sol in water; very sol in alc, ether, benzene, CS; volatile with steam.

SYNS: 2-HYDROXYNITROBENZENE □ o-NITROFENOL □ 2-NITROPHENOL

TOXICITY DATA with REFERENCE:
orl-rat LD50:334 mg/kg GTPPAF 8,145,72
scu-rat LDLo:1100 mg/kg RMSRA6 16,449,1896
orl-mus LD50:1300 mg/kg TXAPA9 42,417,77
ipr-mus LD50:378 mg/kg JMCMAR 18,868,75
ims-mus LDLo:600 mg/kg HBTXAC 5,120,59
ivn-dog LD50:100 mg/kg 85JCAE -,675,86
scu-cat LDLo:600 mg/kg HBTXAC 5,120,59
scu-rbt LDLo:1700 mg/kg HBTXAC 5,120,59
scu-gpg LDLo:900 mg/kg RMSRA6 16,449,1896
scu-frg LDLo:300 mg/kg HBTXAC 5,120,59

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory. Community Right-To-Know List.

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Moderately toxic by intramuscular route. Can cause liver and kidney damage. The liquid phenol reacts violently with KOH. Product of reaction with chlorosulfuric acid decomposes violently at 24°C. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIF100 CAS: 64047-79-6 HR: 3
p-NITROPHENOL, ALUMINUM SALT

mf: $C_{18}H_{12}N_3O_9$•Al mw: 441.31

TOXICITY DATA with REFERENCE:
ipr-rat LDLo:250 mg/kg NCNSA6 5,36,1953

ACGIH TLV: TWA 2 mg(Al)/m^3

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

NIG500 CAS: 22098-38-0 HR: 3
p-NITROPHENOL, MERCURY(II) SALT

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

TOXICITY DATA with REFERENCE:
orl-rat LD:>500 mg/kg NCNSA6 5,31,53
ipr-rat LDLo:50 mg/kg NCNSA6 5,36,53

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

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m^3 (skin)

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY and 4-NITROPHENOL.

NIG600 CAS: 57936-22-8 HR: 3
p-NITROPHENOL, TIN(II) SALT

TOXICITY DATA with REFERENCE:
ipr-rat LDLo:250 mg/kg NCNSA6 5,36,1953

ACGIH TLV: TWA 2 mg(Sn)/m^3

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

NIH000 CAS: 64047-82-1 HR: 3
p-NITROPHENOL TIN(IV) SALT

TOXICITY DATA with REFERENCE:
orl-rat LDLo:250 mg/kg NCNSA6 5,36,53
ipr-rat LDLo:100 mg/kg NCNSA6 5,36,53

OSHA PEL: TWA 2 mg(Sn)/m^3

ACGIH TLV: TWA 2 mg(Sn)/m^3

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also TIN COMPOUNDS and 4-NITROPHENOL.

NIH500 CAS: 64047-83-2 HR: 3
p-NITROPHENOL ZINC SALT

TOXICITY DATA with REFERENCE:
orl-rat LDLo:250 mg/kg NCNSA6 5,36,53
ipr-rat LDLo:250 mg/kg NCNSA6 5,36,53

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

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and ZnO. See also ZINC COMPOUNDS and 4-NITROPHENOL.

NII000 CAS: 1798-11-4 HR: 2
p-NITROPHENOXYACETIC ACID
mf: $C_8H_7NO_5$ mw: 197.16
PROP: Leaflets from MeOH or EtOH. Mp: 187.2−187.5°.
SYN: (4-NITROPHENOXY)ACETIC ACID
TOXICITY DATA with REFERENCE:
ipr-mus LD50:936 mg/kg CHTPBA 5,211,70
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NII100 CAS: 59485-08-4 HR: D
(4-NITROPHENOXY)OXIRANE
mf: $C_8H_7NO_4$ mw: 181.16
SYNS: 2'-(4-NITROPHENOXY)OXIRANE □ OXIRANE, (4-NITROPHENOXY)-
TOXICITY DATA with REFERENCE:
mic-sat 3 µLg/plate CRNGDP 18,431,1997
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NII200 CAS: 3644-32-4 HR: 3
p-NITROPHENOXYTRIBUTYLTIN
mf: $C_{18}H_{31}NO_3Sn$ mw: 428.19
SYN: STANNANE, (p-NITROPHENOXY)TRIBUTYL-
TOXICITY DATA with REFERENCE:
ivn-mus LD50:10 mg/kg CSLNX* NX#05585
OSHA PEL: TWA 0.1 mg(Sn)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Sn)/m^3; STEL 0.2 mg/m^3 (skin)
NIOSH REL: (Organotin Compound) 10H TWA 0.1 mg(Sn)/m^3
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and Sn.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Organotin Compounds 5504.

NII500 CAS: 3740-52-1 HR: D
(o-NITROPHENYL)ACETIC ACID
mf: $C_8H_7NO_4$ mw: 181.16
PROP: Yellow needles from EtOH. Mp: 141−142.5°.
SYNS: 2-NITROBENZENEACETIC ACID □ (2-NITROPHENYL)ACETIC ACID □ 2-(o-NITROPHENYL)ACETIC ACID
TOXICITY DATA with REFERENCE:
mmo-sat 500 µg/plate MUREAV 170,11,86
mmo-sat 10 µmol/plate MUREAV 58,11,78
dnr-bcs 5 mg/disc MUREAV 170,11,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. Forms an explosive mixture with thionyl chloride. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NII510 CAS: 104-03-0 HR: 2
(p-NITROPHENYL)ACETIC ACID
mf: $C_8H_7NO_4$ mw: 181.16
SYNS: ACETIC ACID, (p-NITROPHENYL)- □ BENZENEACETIC ACID, 4-NITRO-(9CI) □ 4-NITROBENZENEACETIC ACID □ (4-NITROPHENYL)ACETIC ACID □ 2-(p-NITROPHENYL)ACETIC ACID
TOXICITY DATA with REFERENCE:
dnr-bcs 500 µg/disc MUREAV 170,11,86
ipr-mus LD50:830 mg/kg FRPSAX 13,286,58
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIJ000 CAS: 555-21-5 HR: 3
p-NITROPHENYLACETONITRILE
mf: $C_8H_6N_2O_2$ mw: 162.16
PROP: Plates or leaves from alc. Mp: 116−117°. Insol in water; sol in alc.
SYNS: p-NITROBENZENEACETONITRILE □ 4-NITRO-BENZENEACETONITRILE □ 4-NITRO-BENZYL-CYANID (GERMAN) □ p-NITROBENZYLCYANIDE □ 4-NITROBENZYL CYANIDE □ 4-NITROPHENYLACETONITRILE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:32 mg/kg CSLNX* NX#02093
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
ACGIH TLV: CL 5 mg(CN)/m^3 (skin)
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x and CN^-. See also NITRILES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIJ200 CAS: 22751-23-1 HR: 3
2-NITROPHENYLACETYL CHLORIDE
mf: $C_8H_6ClNO_3$ mw: 199.59
$O_2NC_6H_4CH_2CO{\bullet}Cl$
SAFETY PROFILE: Explodes when heated. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also CHLORIDES and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIJ300 HR: 3
NITROPHENYL ACETYLENE
mf: $C_8H_5NO_6$ mw: 211.13
SAFETY PROFILE: An explosive. When heated to decomposition it emits toxic fumes of NO_x. See also ACETYLENE COMPOUNDS and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIJ350 CAS: 37151-16-9 HR: D
2-(4-NITROPHENYL)ADENOSINE
mf: $C_{16}H_{16}N_6O_6$ mw: 388.38
SYN: ADENOSINE, 2-(4-NITROPHENYL)-
TOXICITY DATA with REFERENCE:
mic-sat 10 µLg/plate MUREAV 263,93,1991
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIJ400 CAS: 51-58-1 HR: 3
1-p-NITROPHENYL-3-AMIDINOUREA HYDROCHLORIDE
mf: $C_8H_9N_5O_3$•ClH mw: 259.68
SYNS: 3-AMIDINO-1-p-NITROPHENYLUREA HYDROCHLORIDE □ N-(AMINOIMINOMETHYL)-N'-(4-NITROPHENYL)UREA MONOHYDROCHLORIDE □ NITROGUANIL □ UREA, 1-AMIDINO-3-(p-NITROPHENYL)-, MONOHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ivn-rat LD50:240 mg/kg PJPPAA 38,425,86
ipr-mus LD50:225 mg/kg JMCMAR 10,521,67
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NIJ450 CAS: 5933-35-7 HR: 3
2-(2-NITROPHENYLAMINO)BENZOIC ACID
mf: $C_{13}H_{10}N_2O_4$ mw: 258.25
SYNS: ANTHRANILIC ACID, N-o-NITROPHENYL- □ BENZOIC ACID, 2-((2-NITROPHENYL)AMINO)-(9CI) □ N-o-NITROPHENYLANTHRANILIC ACID
TOXICITY DATA with REFERENCE:
ivn-mus LD50:202 mg/kg YKKZAJ 89,1392,1969
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

NIJ500 CAS: 98-72-6 HR: 3
4-NITROPHENYLARSONIC ACID
mf: $C_6H_6AsNO_5$ mw: 247.05
PROP: Pale-yellow leaflets from H_2O. Mp: 298−300°. Spar sol in cold MeOH, H_2O, and EtOH.
SYNS: NITARSONE □ 4-NITROBENZENEARSONIC ACID □ p-NITROPHENYLARSONIC ACID □ RAS-26
TOXICITY DATA with REFERENCE:
orl-rat LDLo:100 mg/kg NCNSA6 5,13,53
ivn-mus LD50:18 mg/kg CSLNX* NX#01192
CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List.
OSHA PEL: TWA 0.5 mg(As)/m^3
ACGIH TLV: BEI: 35 µ (As)/L inorganic arsenic and methylated metabolites in urine
SAFETY PROFILE: Poison by ingestion and intravenous routes. When heated to decomposition it emits very toxic fumes of NO_x and As. See also ARSENIC COMPOUNDS and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIK000 CAS: 2581-69-3 HR: 2
4-((p-NITROPHENYL)AZO)DIPHENYLAMINE
mf: $C_{18}H_{14}N_4O_2$ mw: 318.36
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NIK500 CAS: 63019-77-2 HR: 2
7-((p-NITROPHENYLAZO))METHYLBENZ(c)ACRIDINE
mf: $C_{24}H_{16}N_4O_2$ mw: 392.44
SYN: 9-METHYL-ω-(p-NITROBENZENEAZO)-3,4-BENZACRIDINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NIL500 CAS: 4752-02-7 HR: 3
1-(p-NITROPHENYL)BIGUANIDE HYDROCHLORIDE
mf: $C_8H_{10}N_6O_2$•ClH mw: 258.70
SYN: N-(4-NITROPHENYL)-IMIDODICARBONIMIDIC DIAMIDE MONOHYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:165 mg/kg JMCMAR 10,521,67
ivn-mus LD50:180 mg/kg CSLNX* NX#04028
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

NIL625 CAS: 51138-16-0 HR: 3
N-(2-NITROPHENYL)-1,3-DIAMINOETHANE
mf: $C_8H_{11}N_3O_2$ mw: 181.19
SAFETY PROFILE: May explode during vacuum distillation. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIM000 CAS: 1224-64-2 HR: 3
p-NITROPHENYLDI-N-BUTYLPHOSPHINATE
mf: $C_{14}H_{22}NO_4P$ mw: 299.34
SYNS: DIBUTYL-PHOSPHINIC ACID, 4-NITROPHENYL ESTER □ NIBUFIN □ p-NITROPHENYLDIBUTYLPHOSPHINATE
TOXICITY DATA with REFERENCE:
ipr-rat LD50:12,300 µg/kg TXAPA9 49,23,79
ims-rat LD50:3360 µg/kg TXAPA9 49,23,79
scu-mus LD50:7200 µg/kg RPTOAN 42,106,79
ivn-mus LD50:4800 µg/kg RPTOAN 42,106,79
ims-mus LD50:8900 µg/kg TXAPA9 49,23,79
ivn-rbt LD50:660 µg/kg FATOAO 14,32,51
ims-rbt LD50:560 µg/kg TXAPA9 49,23,79
SAFETY PROFILE: A deadly poison by intraperitoneal, intramuscular, intravenous, and subcutaneous routes. When heated to decomposition it emits very toxic fumes of PO_x and NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIM500 CAS: 311-45-5 HR: 3
p-NITROPHENYL DIETHYLPHOSPHATE
mf: $C_{10}H_{14}NO_6P$ mw: 275.22
PROP: Reddish-yellow oily liquid; with slt odor. Bp: 160° @ 0.5 mm, d: 1.2736 @ 20°/4°. Sltly water-sol; freely sol in org solvs.
SYNS: CHINORTA □ O,O'-DIAETHYL-p-NITROPHENYL-PHOSPHAT (GERMAN) □ DIAETHYL-p-NITROPHENYL-PHOSPHORSAEUREESTER (GERMAN) □ DIETHYL-p-NITRO-FENYL ESTER KYSELINY FOSFORECNE (CZECH) □ O,O-DIETHYL-o-p-NITROFENYLFOSFAT (CZECH) □ DIETHYL p-NITROPHENYL PHOSPHATE □ O,O-DIETHYL O-p-NITRO-PHENYL PHOSPHATE □ DIETHYL PARAOXON □ O,O-

DIETHYL PHOSPHORIC ACID O-p-NITROPHENYL ESTER □ E 600 □ ENT 16,087 □ ESTER 25 □ ETHYL p-NITROPHENYL ETHYLPHOSPHATE □ ETHYL PARAOXON □ ETICOL □ FOSFAKOL □ HC 2072 □ MINTACO □ MINTACOL □ MIOTISAL □ MIOTISAL A □ P-NITROPHENOL, ESTER with DIETHYL PHOSPHATE □ OXYPARATHION □ PARAOXON □ PARAOXONE □ PAROXAN □ PESTOX 101 □ PHOSPHACOL □ PHOSPHORIC ACID DIETHYL 4-NITROPHENYL ESTER □ RCRA WASTE NUMBER P401 □ SOLUGLACIT □ TS 219

TOXICITY DATA with REFERENCE:
mmo-ssp 5 mmol/L MUREAV 117,139,83
sce-ham:ovr 100 µmol/L JTEHD6 8,939,81
orl-man TDLo:14 mg/kg:EYE,BAH ATXKA8 25,329,69
orl-rat LD50:1800 µg/kg BCPCA6 16,1183,67
ipr-rat LD50:716 µg/kg PCBPBS 26,202,86
scu-rat LD50:230 µg/kg NIIRDN 6,113,82
ivn-rat LD50:240 µg/kg CJBPAZ 34,197,56
ims-rat LD50:446 µg/kg BJIMAG 22,317,65
orl-mus LD50:760 µg/kg HPFSDS FDA-80-1076,212,80
ipr-mus LD50:330 µg/kg FATOAO 35,494,72
scu-mus LD50:270 µg/kg JPPMAB 34,603,82
ivn-mus LD50:520 µg/kg TXAPA9 22,684,72
ims-mus LD50:710 µg/kg AEPPAE 237,211,59
par-mus LDLo:600 µg/kg GUCHAZ 6,388,73
scu-rbt LD50:230 µg/kg NIIRDN 6,113,82
ivn-rbt LDLo:100 µg/kg BJPCAL 8,208,53

SAFETY PROFILE: A deadly poison by ingestion, intraperitoneal, intravenous, subcutaneous, intramuscular, and parenteral routes. Mutation data reported. Human systemic effects: coma, convulsions, miosis. A cholinesterase inhibitor. An insecticide. When heated to decomposition it emits toxic fumes of PO_x and NO_x. See also PARATHION.

NIM525 CAS: 3694-52-8 HR: D
3-NITRO-o-PHENYLENEDIAMINE
mf: $C_6H_7N_3O_2$ mw: 153.16
SYN: o-PHENYLENEDIAMINE, 3-NITRO-

TOXICITY DATA with REFERENCE:
mic-sat 59 µmol/L ENMUDM 3,11,1981
mic-sat 30 µLg/plate EMMUEG 27,67,1996
msc-mus-lym 50 mg/L MUREAV 125,291,1984
cyt-ham-ovr 87 mg/L EMMUEG 27,67,1996
mic-sat 300 µLg/plate FCTOD7 38,1,2000

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

NIM550 CAS: 5131-58-8 HR: 2
4-NITRO-m-PHENYLENEDIAMINE
mf: $C_6H_7N_3O_2$ mw: 153.16
PROP: Yellow compound in hair dyes.
SYNS: 1,3-BENZENEDIAMINE, 4-NITRO- □ C.I. 76030 □ 2,4-DIAMINONITROBENZENE □ 4-NITRO-1,3-FENYLENDIAMIN □ 4-NITRO-1,3-PHENYLENEDIAMINE □ m-PHENYLENEDIAMINE, 4-NITRO-

TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate EMMUEG 11(Suppl 12),1,88
orl-rat LD50:4500 mg/kg GTPZAB 35(2),42,91
orl-mus LD50:500 mg/kg 85JCAE -,754,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NIM560 CAS: 15121-84-3 HR: D
2-(2-NITROPHENYL)ETHANOL
mf: $C_8H_9NO_3$ mw: 167.18
SYNS: BENZENEETHANOL, 2-NITRO- □ 2-(o-NITROPHENYL)ETHYL ALCOHOL □ o-NITROPHENETHYL ALCOHOL □ 2-NITROPHENETHYL ALCOHOL □ 2-(o-NITROPHENYL)-ETHANOL □ PHENETHYL ALCOHOL, o-NITRO-

TOXICITY DATA with REFERENCE:
mic-sat 3333 µLg/plate EMMUEG 19(Suppl 21),2,1992

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NIM575 CAS: 4629-58-7 HR: D
4-(2-(4-NITROPHENYL)ETHENYL)BENZENAMINE
mf: $C_{14}H_{12}N_2O_2$ mw: 240.28
SYN: BENZENAMINE, 4-(2-(4-NITROPHENYL)ETHENYL)-

TOXICITY DATA with REFERENCE:
mic-bac-sat 10 nmol/plate MUREAV 268,255,92
cyt-ipr-mus 25 mg/kg MUREAV 268,255,92

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

NIM605 CAS: 74518-94-8 HR: D
(E)-4-(2-(4-NITROPHENYL)ETHENYL)-sBENZONITRILE
mf: $C_{15}H_{10}N_2O_2$ mw: 250.27
SYNS: (E)-4-CYANO-4'-NITROSTILBENE □ BENZONITRILE, 4-(2-(4-NITROPHENYL)ETHENYL)-, (E)-

TOXICITY DATA with REFERENCE:
mic-sat 5 nmol/plate MUREAV 341,57,1994
uns-ipr-mus 100 mg/kg MUREAV 341,57,1994
cyt-ipr-mus 100 mg/kg MUREAV 341,57,1994

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

NIM610 CAS: 159394-72-6 HR: D
(Z)-3-(2-(4-NITROPHENYL)ETHENYL)BENZONITRILE
mf: $C_{15}H_{10}N_2O_2$ mw: 250.27
SYNS: BENZONITRILE, 3-(2-(4-NITROPHENYL)ETHENYL)-, (Z)- □ (Z)-3-CYANO-4'-NITROSTILBENE

TOXICITY DATA with REFERENCE:
mic-sat 5 nmol/plate MUREAV 341,57,1994
uns-ipr-mus 100 mg/kg MUREAV 341,57,1994
cyt-ipr-mus 100 mg/kg MUREAV 341,57,1994

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

NIM620 CAS: 159394-73-7 HR: D
(Z)-4-(2-(4-NITROPHENYL)ETHENYL)BENZONITRILE
mf: $C_{15}H_{10}N_2O_2$ mw: 250.27
SYNS: (Z)-4-CYANO-4'-NITROSTILBENE □ BENZONITRILE, 4-(2-(4-NITROPHENYL)ETHENYL)-, (Z)-

TOXICITY DATA with REFERENCE:
mic-sat 5 nmol/plate MUREAV 341,57,1994
uns-ipr-mus 100 mg/kg MUREAV 341,57,1994
cyt-ipr-mus 100 mg/kg MUREAV 341,57,1994
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIM630 CAS: 6307-17-1 HR: D
4-NITRO-5-(2-PHENYLETHENYL)-1H-IMIDAZOLE
mf: $C_{11}H_{19}N_3O_2$ mw: 225.33
SYN: 1H-IMIDAZOLE, 4-NITRO-5-(2-PHENYLETHENYL)-
TOXICITY DATA with REFERENCE:
mic-sat 477 pmol/plate MUREAV 397,293,1998
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIM640 CAS: 72079-76-6 HR: D
4-NITRO-5-(2-PHENYLETHENYL)-1-(PHENYLMETHYL)-1H-IMIDAZOLE
mf: $C_{18}H_{15}N_3O_2$ mw: 305.36
SYN: 1H-IMIDAZOLE, 4-NITRO-5-(2-PHENYLETHENYL)-1-(PHENYLMETHYL)-
TOXICITY DATA with REFERENCE:
mic-sat 176 pmol/plate MUREAV 397,293,1998
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIM600 CAS: 101-63-3 HR: D
p-NITROPHENYL ETHER
mf: $C_{12}H_8N_2O_5$ mw: 260.22
SYNS: BENZENE, 1,1'-OXYBIS(4-NITRO)- (9CI) □ BIS(p-NITROPHENYL)ETHER □ BIS(4-NITROPHENYL)ETHER □ p,p'-DINITRODIPHENYL ETHER □ 4,4'-DINITRODIPHENYL ETHER □ 4,4'-DINITRODIPHENYL OXIDE □ DI-4-NITROPHENYL ETHER □ ETHER, BIS(p-NITROPHENYL) □ OXYBIS(4-NITROBENZENE) □ 1,1'-OXYBIS(4-NITROBENZENE)
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate CRNGDP 6,1811,85
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIN000 CAS: 3015-74-5 HR: 3
p-NITROPHENYL ETHYLBUTYLPHOSPHONATE
mf: $C_{12}H_{18}NO_5P$ mw: 287.28
TOXICITY DATA with REFERENCE:
scu-mus LD50:1200 µg/kg RPTOAN 42,106,79
ivn-mus LD50:1000 µg/kg RPTOAN 42,106,79
ivn-rbt LD50:72 µg/kg BCPCA6 13,1229,64
scu-rat LD50:1200 µg/kg FATOAO 42(3),299,79
ivn-rat LD50:1 mg/kg FATOAO 42(3),299,79
SAFETY PROFILE: A deadly poison by intravenous and subcutaneous routes. When heated to decomposition it emits very toxic fumes of PO_x and NO_x.

NIN050 CAS: 5255-75-4 HR: D
p-NITROPHENYL GLYCIDYL ETHER
mf: $C_9H_9NO_4$ mw: 195.19
SYNS: 1,2-EPOXY-3(p-NITROPHENOXY)-PROPANE □ GLYCIDYL p-NITROPHENYL ETHER □ GLYCIDYL 4-NITROPHENYL ETHER □ ((4-NITROPHENOXY)METHYL)-OXIRANE □ NITROPHENYL GLYCIDYL ETHER □ OXIRANE, ((4-NITROPHENOXY)METHYL)-(9CI) □ PROPANE, 1,2-EPOXY-3-(p-NITROPHENOXY)-
TOXICITY DATA with REFERENCE:
mmo-sat 66 nmol/plate MUREAV 93,297,82
dnd-mus-ipr 300 mg/kg MUREAV 242,187,90
cyt-mus-ipr 25 mg/kg MUREAV 299,19,93
sce-ham:lng 20 µmol/L MUREAV 249,55,91
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIN100 CAS: 619-91-0 HR: 2
N-(p-NITROPHENYL)GLYCINE
mf: $C_8H_8N_2O_4$ mw: 196.18
SYN: GLYCINE, N-(p-NITROPHENYL)-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:632 mg/kg JAPMA8 48,419,59
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.

NIQ500 CAS: 21658-26-4 HR: 3
p-NITROPHENYL-p′-GUANIDINOBENZOATE
mf: $C_{14}H_{12}N_4O_4$ mw: 300.30
SYNS: p-GUANIDINOBENZOIC ACID p-NITROPHENYL ESTER □ p-NITROPHENYL p-GUANIDINO-BENZOATE □ 4-NITROPHENYL 4-GUANIDINOBENZOATE □ NPGB
TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate MUREAV 67,81,79
mma-sat 100 µg/plate MUREAV 67,81,79
ipr-mus LD50:180 mg/kg BIREBV 20,1045,79
SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NIQ550 CAS: 2719-13-3 HR: 3
2-(p-NITROPHENYL)HYDRAZIDEACETIC ACID
mf: $C_8H_9N_3O_3$ mw: 195.20
TOXICITY DATA with REFERENCE:
orl-mus LD50:400 mg/kg PCJOAU 14,162,80
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NIQ600 CAS: 6632-39-9 HR: 2
2-(p-NITROPHENYL)HYDRAZIDE FORMIC ACID
mf: $C_7H_7N_3O_3$ mw: 181.17
TOXICITY DATA with REFERENCE:
orl-mus LD50:500 mg/kg PCJOAU 14,162,80
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NIQ800 CAS: 3034-19-3 HR: 3
2-NITROPHENYLHYDRAZINE
mf: $C_6H_7N_3O_2$ mw: 153.16
PROP: Dark-red needles from C_6H_6. Mp: 90°.
SYN: (o-NITROPHENYL)HYDRAZINE
TOXICITY DATA with REFERENCE:
mmo-sat 4 mmol/L AEMIDF 44,801,82
mmo-omi 7 mg/L MUREAV 173,233,86
ivn-mus LD50:178 mg/kg CSLNX* NX#00632
SAFETY PROFILE: Poison by intravenous route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIR000 CAS: 100-16-3 HR: 3
p-NITROPHENYLHYDRAZINE
mf: $C_6H_7N_3O_2$ mw: 153.16
PROP: Orange-red leaflets or needles. Mp: approx 157° (decomp). Sltly sol in cold water; sol in hot water, hot benzene, alc, ether, chloroform, ethyl acetate.
SYNS: p-HYDRAZINONITROBENZENE □ 4-NITROPHENYLHYDRAZINE
TOXICITY DATA with REFERENCE:
mmo-sat 2 mmol/L AEMIDF 44,801,82
mmo-omi 780 µg/L MUREAV 173,233,86
ipr-mus LDLo:250 mg/kg CBCCT* 6,57,54
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIR050 CAS: 16169-16-7 HR: D
4-NITROPHENYLHYDROXYLAMINE
mf: $C_6H_6N_2O_3$ mw: 154.14
SYNS: BENZENAMINE, N-HYDROXY-4-NITRO- □ N-HYDROXY-4-NITROBENZENAMINE □ HYDROXYLAMINE, N-(p-NITROPHENYL)- □ p-NITROPHENYLHYDROXYLAMINE □ N-(p-NITROPHENYL)HYDROXYLAMINE □ N-(4-NITROPHENYL)HYDROXYLAMINE
TOXICITY DATA with REFERENCE:
mic-sat 1 µLg/plate MUREAV 151,201,1985
mic-sat 5 µLg/plate CRNGDP 6,727,1985
mic-esc 50 µmol/L MUREAV 151,201,1985
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIR075 CAS: 61001-13-6 HR: D
2-(4-NITROPHENYL)IMIDAZO(2,1-A)ISO-QUINOLINE
mf: $C_{17}H_{11}N_3O_2$ mw: 289.31
SYNS: IMIDAZO(2,1-A)ISOQUINOLINE, 2-(p-NITROPHENYL)- □ 2-(p-NITROPHENYL)IMIDAZO(2,1-A)ISOQUINOLINE
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x.

NIR100 CAS: 100-28-7 HR: 3
4-NITROPHENYL ISOCYANATE
mf: $C_7H_4N_2O_3$ mw: 164.13
SYNS: AI3-28253 □ BENZENE, 1-ISOCYANATO-4-NITRO- □ 1-ISOCYANATO-4-NITROBENZENE □ ISOCYANIC ACID, p-NITROPHENYL ESTER □ p-NITROPHENYL ISOCYANATE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1600 mg/kg NTIS** OTS0528342
ipr-rat LD50:100 mg/kg NTIS** OTS0528342
SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NIR200 CAS: 2008-59-5 HR: 2
m-NITROPHENYL ISOCYANIDE
mf: $C_7H_4N_2O_2$ mw: 148.13
SYNS: 1-ISOCYANO-3-NITROBENZENE □ BENZENE, 1-ISOCYANO-3-NITRO- □ PHENYL ISOCYANIDE, m-NITRO-
TOXICITY DATA with REFERENCE:
orl-mus LD :>5 g/kg USXXAM #3422190
scu-mus LD :>1 g/kg USXXAM #3422190
SAFETY PROFILE: Moderately toxic by subcutaneous route. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NIR550 CAS: 38753-50-3 HR: 2
o-NITROPHENYL ISOPROPYL ETHER
mf: $C_9H_{11}NO_3$ mw: 181.21
SYNS: o-ISOPROPOXYNITROBENZENE □ 2-ISOPROPOXYNITROBENZENE □ ISOPROPYL o-NITROPHENYL ETHER □ o-IZOPROPOKSYNITROBENZEN (CZECH)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg MLD MEPAAX 29,293,78
eye-rbt 100 mg MLD MEPAAX 29,293,78
orl-rat LD50:2500 mg/kg MEPAAX 29,293,78
ipr-rat LD50:800 mg/kg MEPAAX 29,293,78
SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. A skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIS000 CAS: 63868-95-1 HR: 3
o-NITROPHENYL MERCURY ACETATE
mf: $C_8H_7HgNO_4$ mw: 381.75
PROP: IDLH 10 mg/m^3 (as Hg).
SYN: o-NITROPHENYL MERCURY (ACETATO)
TOXICITY DATA with REFERENCE:
orl-rat LDLo:100 mg/kg NCNSA6 5,30,53
ipr-rat LDLo:25 mg/kg NCNSA6 5,30,53
CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List.
OSHA PEL: CL 0.1 mg(Hg)/m^3 (skin)
ACGIH TLV: TWA 0.1 mg(Hg)/m^3 (skin); BEI: 35 µg/g creatinine total inorganic mercury in urine preshift; 15 µg/g creatinine total inorganic mercury in blood at end of shift at end of workweek.
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH REL: (Mercury, Aryl and Inorganic) CL 0.1 mg/m^3 (skin)
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of Hg and NO_x. See also MERCURY and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIS298 CAS: 37141-32-5 HR: D
3-(4-NITROPHENYL)OXIRANEMETHANOL trans-(+)-
mf: $C_9H_9NO_4$ mw: 195.19
SYNS: (2R,3R)-(+)-2,3-EPOXY-3-(4-NITROPHENYL)-1-PROPANOL □ OXIRANEMETHANOL, 3-(4-NITROPHENYL)-, trans-(+)-
TOXICITY DATA with REFERENCE:
sce-ham-lng 2500 μmol/L MUREAV 278,289,92
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIS300 CAS: 1885-07-0 HR: D
3-(4-NITROPHENYL)OXIRANEMETHANOL trans-(−)-
mf: $C_9H_9NO_4$ mw: 195.19
SYNS: (2S,3S)-(−)-2,3-EPOXY-3-(4-NITROPHENYL)-1-PROPANOL □ OXIRANEMETHANOL, 3-(4-NITROPHENYL)-, trans-(−)-
TOXICITY DATA with REFERENCE:
sce-ham-lng 2500 μmol/L MUREAV 278,289,92
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIT500 CAS: 2216-12-8 HR: 2
2-NITROPHENYL PHENYL ETHER
mf: $C_{12}H_9NO_3$ mw: 215.22
PROP: Yellow oil. D: 1.258 @ 15°, mp: <−20°, bp: 235° @ 60 mm. Insol in water; sol in abs alc and benzene.
SYN: 2-NITRODIPHENYL ETHER
TOXICITY DATA with REFERENCE:
ivn-mus LD50:838 mg/kg TXCYAC 8,347,77
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intravenous route. When heated to decomposition it emits toxic fumes of NO_x. See also ETHERS and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIU000 CAS: 620-88-2 HR: 1
p-NITROPHENYL PHENYLETHER
mf: $C_{12}H_9NO_3$ mw: 215.22
PROP: Plates from MeOH or Et_2O. Mp: 61−61.5°.
SYNS: 4-NITROBIPHENYL ESTER □ 4-NITRODIFENYLETHER (CZECH) □ p-NITRODIPHENYL ETHER □ 4-NITRODIPHENYL ETHER □ 1-NITRO-4-PHENOXYBENZENE (9CI) □ 4-NITROPHENYL PHENYL ETHER
TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H MLD 28ZPAK -,118,72
mmo-sat 100 μg/plate MUREAV 67,123,79
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also ETHERS and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIV000 CAS: 61785-70-4 HR: D
4-NITRO-5-(4-PHENYL-1-PIPERAZINYL)BENZO-FURAZAN OXIDE
mf: $C_{16}H_{15}N_5O_4$ mw: 341.36
SYN: B2734
TOXICITY DATA with REFERENCE:
mmo-sat 100 μg/plate MUREAV 48,145,77
mma-sat 50 μg/well CBINA8 19,77,77
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NIV050 CAS: 315706-80-0 HR: 3
3-(4-NITROPHENYL)-N-(4-PROPYLCYCLO-HEXYL)-2-PROPENAMIDE
mf: $C_{18}H_{24}N_2O_3$ mw: 316.40
TOXICITY DATA with REFERENCE:
orl-mus TDLo:23.7 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.

NIV100 CAS: 17893-55-9 HR: 3
(p-NITROPHENYLSELENYL)ACETIC ACID
mf: $C_8H_7NO_4Se$ mw: 260.12
SYN: ACETIC ACID, (p-NITROPHENYLSELENYL)-
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:250 mg/kg NCNSA6 5,8,1953
ACGIH TLV: TWA 0.2 mg(Se)/m^3
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and Se.

NIV150 CAS: 119034-09-2 HR: 3
4-(p-NITROPHENYL)SEMICARBAZONE 1-METHYL-1H-PYRROLE-2-CARBOX-ALDEHYDE
mf: $C_{13}H_{13}N_5O_3$ mw: 287.31
SYNS: HYDRAZINECARBOXAMIDE, 2-((1-METHYL-1H-PYRROL-2-YL)METHYLENE)-N-(4-NITROPHENYL)- (9CI) □ SEMICARBAZIDE, 1-((1-METHYL-2-PYRROLYL)METHYLENE)-4-(p-NITROPHENYL)-
TOXICITY DATA with REFERENCE:
orl-mus LD50:7506 μg/kg YHHPAL 24,822,1989
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NIV200 CAS: 119034-08-1 HR: 2
4-(p-NITROPHENYL)SEMICARBAZONE-1H-PYRROLE-2-CARBOXALDEHYDE
mf: $C_{12}H_{11}N_5O_3$ mw: 273.28
SYNS: HYDRAZINECARBOXAMIDE, N-(4-NITROPHENYL)-2-(1H-PYRROL-2-YLMETHYLENE)- (9CI) □ SEMICARBAZIDE, 4-(p-NITROPHENYL)-1-(2-PYRROLYLMETHYLENE)-
TOXICITY DATA with REFERENCE:

orl-mus LD50:1995 mg/kg YHHPAL 24,822,1989
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NIW300 CAS: 49558-46-5 HR: 3
2-NITROPHENYL SULFONYL DIAZOMETHANE
mf: $C_7H_5N_3O_4S$ mw: 227.19
$O_2NC_6H_4SO_2CHN_2$
SAFETY PROFILE: Explodes at room temperature. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NIW400 CAS: 3704-42-5 HR: 2
4-(4-NITROPHENYL)THIAZOLE
mf: $C_9H_6N_2O_2S$ mw: 206.23
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x and SO_x.

NIW450 CAS: 15119-62-7 HR: 2
p-NITROPHENYLTHIOL ACETATE
mf: $C_8H_7NO_3S$ mw: 197.22
SYNS: ACETIC ACID, THIO-, S-(p-NITROPHENYL) ESTER □ BENZENETHIOL, p-NITRO-, ACETATE □ ETHANETHIOIC ACID, S-(4-NITROPHENYL) ESTER □ S-(p-NITROPHENYL) THIOACETATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:3 g/kg YKKZAJ 89,1179,1969
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NIW500 CAS: 1836-77-7 HR: 1
p-NITROPHENYL-2,4,6-TRICHLOROPHENYL ETHER
mf: $C_{12}H_6Cl_3NO_3$ mw: 318.54
PROP: Pale yellow needles. Mp: 105−106°.
SYNS: CHLORNITROFEN □ CNP □ CNP 1032 □ MC 338 □ MC 1478 □ MO □ MO 338 □ 2',4',6'-TRICHLORO-4-NITROBIPHENYL ETHER □ 2,4,6-TRICHLORO-4'-NITRODIPHENYL ETHER □ 1,3,5-TRICHLORO-2-(4-NITROPHENOXY)BENZENE □ 2,4,6-TRICHLOROPHENYL-4-NITROPHENYL ETHER
TOXICITY DATA with REFERENCE:
mma-sat 100 µg/plate CBINA8 44,133,83
orl-rat LD50:10,800 mg/kg 85ARAE 2,195,77
skn-rat LD50:>10 g/kg FMCHA2 -,C77,91
orl-mus LD50:>10 g/kg FMCHA2 -,C77,91
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. Mutation data reported. Used as an herbicide. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-. See also ETHERS.

NIX000 CAS: 15457-05-3 HR: 1
p-NITROPHENYL-α,α,α-TRIFLUORO-2-NITRO-p-TOLYL ETHER
mf: $C_{13}H_7F_3N_2O_5$ mw: 328.22
PROP: Yellowish-brown crystals. Mp: 94°. Sol org solvs; very spar sol in H_2O.
SYNS: C-6989 □ 2.4'-DINITRO-4-TRIFLUOROMETHYL-DIPHENYL ETHER □ FLUORODIFEN □ 2-NITRO-1-(4-NITROPHENOXY)-4-(TRIFLUOROMETHYL)BENZENE □ p-NITROPHENYL-2-NITRO-4-(TRIFLUOROMETHYL) PHENYL ETHER □ PREFORAN □ SOYEX
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg MOD CIGET* -,-,77
orl-rat LD50:9000 mg/kg FMCHA2 -,C194,83
CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. An eye irritant. Used as an herbicide. When heated to decomposition it emits very toxic fumes of NO_x and F^-.

NIX100 CAS: 89-40-7 HR: D
4-NITROPHTHALIMIDE
mf: $C_8H_4N_2O_4$ mw: 192.14
PROP: Yellow powder. Mp: 180−182°. Insol in water.
SYNS: 1H-ISOINDOLE-1,3(2H)-DIONE, 5-NITRO- □ PHTHALIMIDE, 4-NITRO-
TOXICITY DATA with REFERENCE:
mmo-sat 333 µg/plate EMMUEG 11(Suppl 12),1,88
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIX500 CAS: 108-03-2 HR: 3
1-NITROPROPANE
mf: $C_3H_7NO_2$ mw: 89.11
$O_2NCH_2CH_2CH_3$
PROP: Colorless oily liquid; irritant to mucous membranes. Fp: −108°, bp: 132°, flash p: 93°F (TCC), d: 1.003 @ 20°/20°, autoign temp: 789°F, vap press: 7.5 mm @ 20°, vap d: 3.06, lel: 2.2%. Sltly sol in water; misc with alc, ether, and many org solvs. IDLH 1000 ppm.
SYN: 1-NP
TOXICITY DATA with REFERENCE:
eye-hmn 150 ppm/15M JIHTAB 28,262,46
dns-rat:lvr 1 µmol/L MUREAV 221,263,89
ihl-hmn TCLo:150 ppm:EYE JIHTAB 28,262,46
orl-rat LD50:455 mg/kg NPIRI* 1,91,74
ihl-rat LC50:3100 ppm/8H NPIRI* 1,91,74
orl-mus LD50:800 mg/kg GISAAA 32(9),9,67
ipr-mus LD50:250 mg/kg KHFZAN 10(6),53,76
orl-rbt LDLo:250 mg/kg JIHTAB 22,315,40
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 25 ppm
ACGIH TLV: TWA 25 ppm; Not Classifiable as a Human Carcinogen
DFG MAK: 25 ppm (92 mg/m^3)
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. Mildly toxic by inhalation. A human eye irritant. Human systemic effects by inhalation: conjunctiva irritation. Mutation data reported. Very dangerous fire hazard when exposed to heat, open flame, or oxidizers. Reacts violently with $Ca(OH)_2$, hydrocarbons, hydroxides, inorganic bases. May explode on heating. Metal oxides increase its sensitivity to thermal

ignition. To fight fire, use alcohol foam, CO_2, dry chemical, water spray. When heated to decomposition it emits toxic fumes of NO_x. See also 2-NITROPROPANE, NITROALKANES, and NITRO COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #46.

NIY000 CAS: 79-46-9 HR: 3
2-NITROPROPANE
DOT: UN 2608
mf: $C_3H_7NO_2$ mw: 89.11
$O_2NCH(CH_3)_2$
PROP: Colorless liquid. Bp: 120°, fp: −93°, flash p: 82°F (TCC), d: 0.992 @ 20°/20°, autoign temp: 802°F, vap press: 10 mm @ 15.8°, vap d: 3.06, lel: 2.6%. Misc with org solvs; sol in water, alc, and ether. IDLH 100 ppm.
SYNS: DIMETHYLNITROMETHANE □ ISONITROPROPANE □ NIPAR S-20 □ NIPAR S-20 SOLVENT □ NIPAR S-30 SOLVENT □ NITROISOPROPANE □ NITROPROPANE □ NITROPROPANE (DOT) □ β-NITROPROPANE □ 2-NP □ RCRA WASTE NUMBER U171
TOXICITY DATA with REFERENCE:
mmo-sat 1 mg/plate ENMUDM 5(Suppl 1),3,83
mma-sat 1 mg/plate ENMUDM 5(Suppl 1),3,83
orl-rat TDLo:4277 mg/kg/16W-I:CAR CRNGDP 8,1947,87
ihl-rat TCLo:207 ppm/7H/26W-I:CAR JEPTDQ 2(5),233,79
ihl-man TCLo:20 ppm:CNS,GIT INMEAF 16,441,47
orl-rat LD50:720 mg/kg 34ZIAG -,430,69
ihl-rat LC50:400 ppm/6H JEPTDQ 2(2),233,78
ihl-mus LC50:10 g/m^3/2H 85GMAT -,94,82
ipr-mus LD50:75 mg/kg NTIS** AD691-490
ihl-cat LCLo:714 ppm/5H AMIHBC 5,52,52
orl-rbt LDLo:500 mg/kg JIHTAB 22,315,40
ihl-rbt LCLo:2381 ppm/5H AMIHBC 5,52,52
ihl-gpg LCLo:4622 ppm/5H AMIHBC 5,52,52
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Human Inadequate Evidence IMEMDT 29,331,82; Animal Sufficient Evidence IMEMDT 29,331,82. Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
OSHA PEL: TWA 10 ppm
ACGIH TLV: TWA 10 ppm; Animal Carcinogen
DFG MAK: DFG TRK: Animal Carcinogen, Suspected Human Carcinogen
NIOSH REL: (2-Nitropropane) TWA reduce to lowest feasible level
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Poison by intraperitoneal route. Moderately toxic by ingestion and inhalation. Human systemic effects by inhalation: anorexia, hypermotility, diarrhea, nausea or vomiting. An experimental teratogen. Other experimental reproductive effects. Mutation data reported. Can cause liver and kidney injury, methemoglobinemia, and cyanosis. Very dangerous fire hazard when exposed to heat, open flame, or oxidizers. May explode on heating. Violent reactions with chlorosulfonic acid, oleum. May react with amines + heavy metal oxides (e.g., mercury oxide or silver oxide) to form explosive salts. May ignite on contact with mixtures of carbon + hopcalite, which are used in some respirators. Hopcalite is a catalyst consisting of coprecipitated copper(II) oxide and manganese(IV) oxide. To fight fire, use alcohol foam, CO_2, dry chemical, water spray. When heated to decomposition it emits toxic fumes of NO_x.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #46 or NIOSH: 2-Nitropropane, 2528.

NIY025 CAS: 20846-00-8 HR: D
2-NITROPROPANE NITRONATE
mf: $C_3H_6NO_2$ mw: 88.10
SYNS: 2-NITROPROPANE ION □ PROPANE, 2-NITRO-, ION (1-) □ PROPANE-2-NITRONATE
TOXICITY DATA with REFERENCE:
mic-sat 12 μmol/L FAATDF 13,341,1989
mic-sat 6900 nmol/plate MUREAV 179,15,1987
dnr-ham-lng 100 μmol/L CRNGDP 21,295,2000
dnr-dom-oth 5 mmol/L MUREAV 413,69,1998
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NIY050 CAS: 25182-84-7 HR: 3
3-NITROPROPANOL
mf: $C_3H_7NO_3$ mw: 105.11
SYN: 1-PROPANOL, 3-NITRO-
TOXICITY DATA with REFERENCE:
orl-rat LD50:77 mg/kg TOLED5 19,171,1983
ipr-rat LD50:61 mg/kg TXAPA9 78,310,1985
scu-mus LD50:190 mg/kg TOLED5 27,83,1985
SAFETY PROFILE: A poison by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits toxic vapors of NO_x.

NIY100 CAS: 3156-70-5 HR: 3
1-NITROPROPENE
mf: $C_3H_5NO_2$ mw: 87.09
SYNS: PROPENE, 1-NITRO- □ TL 1146
TOXICITY DATA with REFERENCE:
ihl-mus LCLo:500 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 NO_x.

NIY200 CAS: 4749-28-4 HR: 2
2-NITROPROPENE
mf: $C_3H_5NO_2$ mw: 87.08
$H_2C{=}C(NO_2)CH_3$
PROP: Highly lachrymatory yellowish-green liquid. Bp: 57° @ 100 mm. Sol in Et_2O.
SAFETY PROFILE: Potentially dangerous polymerization reaction on contact with alkalies. When heated to decomposition it emits toxic fumes of NO_x. See also NITROALKANES.

NIY500 CAS: 504-88-1 HR: 3
3-NITROPROPIONIC ACID
mf: $C_3H_5NO_4$ mw: 119.09

PROP: Crystals from $CHCl_3$. Very sol in H_2O, EtOH, Et_2O; sol in warm $CHCl_3$; insol in ligroin.
SYNS: BNP □ BOVINOCIDIN □ HIPTAGENIC ACID □ NCI-C03076 □ β-NITROPROPIONIC ACID
TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate IAPUDO 27,283,80
mma-sat 100 µg/plate ENMUDM 7(Suppl 5),1,85
otr-rat:emb 970 ng/plate JJATDK 1,190,81
dns-rat:lvr 100 mg/L MUREAV 97,359,82
ipr-rat LD50:67 mg/kg TXAPA9 78,310,85
ivn-mus LD50:50 mg/kg 85ERAY 2,925,78
CONSENSUS REPORTS: NTP Carcinogenesis Studies (gavage): No Evidence: Mouse, Rat. EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NIY525 CAS: 553-79-7 HR: D
5-NITRO-2-n-PROPOXYANILINE
mf: $C_9H_{12}N_2O_3$ mw: 196.20
PROP: Artificial sweetner.
SYN: P-4000
SAFETY PROFILE: When heated to decomposition emits toxic fumes of NO_x.

NIY600 CAS: 315706-72-0 HR: 3
4-NITRO-N-(4-PROPYLCYCLOHEXYL)BENZ-AMIDE
mf: $C_{16}H_{22}N_2O_3$ mw: 290.36
TOXICITY DATA with REFERENCE:
orl-mus TDLo:21.8 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.

NIY700 CAS: 63021-86-3 HR: D
NITROPYRENE
mf: $C_{16}H_9NO_2$ mw: 247.26
SYNS: NP □ PYRENE, NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 2500 ng/plate GDIKAN 29,278,1981
mic-sat 2.5 µLg/plate/20M MUREAV 498,19,2001
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NJA000 CAS: 5522-43-0 HR: 3
3-NITROPYRENE
mf: $C_{16}H_9NO_2$ mw: 247.26
PROP: Yellow needles from MeCN. Mp: 151−152°.
SYN: 1-NITROPYRENE
TOXICITY DATA with REFERENCE:
mmo-esc 3 µg/plate MUREAV 142,163,85
otr-hmn:fbr 3 µmol/L CRNGDP 4,353,83
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 46,321,89; Animal Sufficient Evidence IMEMDT 46,321,89; Human No Adequate Data IMEMDT 46,321,89. Reported in EPA TSCA Inventory.
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NJA100 CAS: 57835-92-4 HR: 3
4-NITROPYRENE
mf: $C_{16}H_9NO_2$ mw: 247.26
PROP: Orange needles from Me_2CO/MeOH. Mp: 196−197.5°.
TOXICITY DATA with REFERENCE:
mmo-sat 1 nmol/plate MUREAV 143,173,85
dnr-bcs 100 ng/disc MUREAV 174,89,86
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 46,367,89; Animal Sufficient Evidence IMEMDT 46,367,89; Human No Adequate Data IMEMDT 46,367,89.
DFG MAK: Confirmed Animal Carcinogen with Unknown Relevance to Humans
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NJA200 CAS: 91254-96-5 HR: D
1-NITRO-4-PYRENOL
mf: $C_{16}H_9NO_3$ mw: 263.26
SYNS: 1-NITROPYREN-4-OL □ 4-PYRENOL, 1-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 10 ng/plate MUREAV 369,209,1996
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NJA500 CAS: 1124-33-0 HR: 3
4-NITROPYRIDINE-N-OXIDE
mf: $C_5H_4N_2O_3$ mw: 140.11
PROP: Pale-yellow rhombic crystals from EtOH. Mp: 159−160°.
$O_2NC_5H_4N{:}O$
SYN: 4-NITROPYRIDINE-1-OXIDE
TOXICITY DATA with REFERENCE:
mmo-esc 500 µmol/L GANNA2 70,799,79
dnd-mus:fbr 50 µmol/L CNREA8 35,521,75
orl-rat LD50:107 mg/kg JWMAA9 29,830,65
orl-dog LDLo:34 mg/kg 34ZIAG -,430,69
skn-rbt LDLo:360 mg/kg 34ZIAG -,430,69
orl-ckn LDLo:23 mg/kg 34ZIAG -,430,69
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and skin contact. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Mixtures with diethyl-1,4-dihydro-2,6-dimethylpyridine-3,5-dicarboxylate explode when heated above 130°C. When heated to decomposition it emits toxic fumes of NO_x.

NJB500 CAS: 18714-34-6 HR: 2

2-NITROQUINOLINE
mf: $C_9H_6N_2O_2$ mw: 174.17
PROP: Crystals from EtOH. Mp: 125°.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also other nitroquinoline entries.

NJC000 CAS: 607-34-1 HR: D
5-NITROQUINOLINE
mf: $C_9H_6N_2O_2$ mw: 174.17
PROP: Plates from EtOH (aq). Mp: 70°.
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate MUREAV 92,29,82
dnd-mus:fbr 500 µmol/L CNREA8 35,521,75
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also other nitroquinoline entries.

NJC500 CAS: 613-50-3 HR: D
6-NITROQUINOLINE
mf: $C_9H_6N_2O_2$ mw: 174.17
PROP: Needles from water or alc. Mp: 149−150°; bp: subl. Sltly sol in cold water, cold alc and ether; sol in benzene. Sparingly sol in Et_2O.
TOXICITY DATA with REFERENCE:
mma-sat 100 µmol/plate MUREAV 58,11,78
mmo-esc 5700 nmol/L ENMUDM 3,11,81
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also other nitroquinoline entries.

NJD500 CAS: 607-35-2 HR: 3
8-NITROQUINOLINE
mf: $C_9H_6N_2O_2$ mw: 174.17
PROP: Monoclinic crystals from alcohol. Mp: 91−92°. Sol in hot water, alc, ether, and benzene.
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate MUREAV 39,285,77
mma-sat 100 nmol/plate MUREAV 58,11,78
dnr-sat 350 µg/disc MUREAV 39,285,77
orl-rat TD:36,400 mg/kg/2Y-C:CAR,REP CALEDQ 14,115,81
ipr-mus LDLo:125 mg/kg CBCCT* 6,149,54
CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also other nitroquinoline entries.

NJF000 CAS: 56-57-5 HR: 3
4-NITROQUINOLINE-N-OXIDE
mf: $C_9H_6N_2O_3$ mw: 190.17
PROP: Yellow brown crystals or powder. Mp: 154°. Sltly sol in water.
SYNS: 4-NITROCHINOLIN N-OXID (SWEDISH) □ 4-NITROQUINOLINE-1-OXIDE □ 4-NQO
TOXICITY DATA with REFERENCE:
mmo-smc 1 mg/L GNKAA5 21,914,85
dns-hmn:oth 1 µmol/L JJIND8 69,557,82
scu-mus TDLo:80 mg/kg/20W-I:CAR application DTESD7 13,253,86
scu-mus TDLo:25 mg/kg (17D preg):CAR,TER CNREA8 34,3373,74
ipr-rat LDLo:40 mg/kg BCPCA6 13,285,64
scu-rat LD50:12,600 µg/kg JJPAAZ 20,264,70
ipr-mus LD50:190 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 and subcutaneous routes. An experimental teratogen. Other experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NJF100 CAS: 619-19-2 HR: 3
4-NITROSALICYLIC ACID
mf: $C_7H_5NO_5$ mw: 183.13
SYNS: BENZOIC ACID, 2-HYDROXY-4-NITRO- □ p-NITRO-SALICYLIC ACID □ 4-NITRO-SALICYLSAEURE □ SALICYLIC ACID, 4-NITRO-
TOXICITY DATA with REFERENCE:
orl-mus LD50:650 mg/kg ZNTFA2 6B,183,51
ipr-mus LD50:375 mg/kg ZNTFA2 6B,183,51
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NJH000 HR: 3
NITROSAMINES
PROP: Compounds that have the chemical group ═N─N═O attached to an alkyl or aryl group. They are formed by reaction between an amine and NO_x or nitrites.
SAFETY PROFILE: Confirmed carcinogen of the lung, nasal sinus, brain, esophagus, stomach, liver, bladder, and kidney. They are often produced in food as by-products from processing and preparation. They are found in whiskey, herbicides, and cosmetics, as well as in tanneries, rubber factories, and iron foundries. They can be formed within the body by reaction of amine-containing foods or drugs with the nitrites resulting from bacterial conversion of nitrates. See also N-NITROSO COMPOUNDS.

NJH500 CAS: 20661-60-3 HR: 3
N-NITROSARCOSINE
mf: $C_3H_6N_2O_4$ mw: 134.11
SYN: N-METHYL-N-NITROGLYCINE
TOXICITY DATA with REFERENCE:
mma-sat 300 µmol/plate JMCMAR 20,1588,77
ipr-mus LD50:247 mg/kg JMCMAR 20,1588,77
SAFETY PROFILE: Poison by intraperitoneal route. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJH750 HR: D
NITROSATED COAL DUST EXTRACT
SYN: COAL DUST, EXTRACT, NITROSATED
TOXICITY DATA with REFERENCE:
sce-hmn:lym 10 g/L ENMUDM 5,440,83
sce-ham:ovr 3300 mg/L ENMUDM 5,440,83
SAFETY PROFILE: Human mutation data reported.

NJI700 CAS: 938-81-8 HR: 3
N-NITROSOACETANILIDE
mf: $C_8H_8N_2O_2$ mw: 164.16
$C_6H_5N(NO)CO{\bullet}CH_3$
PROP: Pale-yellow crystals from pet ether. Mp: 51° (decomp).
SAFETY PROFILE: Many N-nitroso compounds are carcinogens. Explodes on contact with piperidine. Mixture with thiophene explodes at room temperature. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJI850 CAS: 101831-59-8 HR: 3
NITROSO-4-ACETYL-3,5-DIMETHYLPIPERAZINE
mf: $C_8H_{15}N_3O_2$ mw: 185.26
SYN: KETONE, 3,5-DIMETHYL-4-NITROSO-1-PIPERAZINYL METHYL
TOXICITY DATA with REFERENCE:
mma-sat 250 µg/plate TCMUD8 1,295,80
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Mutation data reported. A flammable liquid. When heated to decomposition it emits toxic fumes of NO_x.

NJI900 CAS: 75881-17-3 HR: 2
1-NITROSO-4-ACETYL-3,5-DIMETHYLPIPERAZINE
mf: $C_8H_{15}N_3O_2$ mw: 185.26
SYNS: 1-ACETYL-4-NITROSO-2,6-DIMETHYLPIPERAZINE □ PIPERAZINE, 1-ACETYL-2,6-DIMETHYL-4-NITROSO-
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic vapors of NO_x.

NJJ500 CAS: 57644-85-6 HR: 2
NITROSOALDICARB
mf: $C_7H_{13}N_3O_3S$ mw: 219.29
SYNS: 2-METHYL-2-(METHYLTHIO)PROPANAL-o-((METHYL-NITROSOAMINO)CARBONYL)OXIME □ 2-METHYL-2-(METH-YLTHIO)PROPIONALDEHYDE-o-((METHYLNITROSO)-CARBAMOYL) OXIME
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate TCMUE9 1,13,84
dnd-hmn:fbr 10 µmol/L MUREAV 44,1,77
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Human mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also N-NITROSO COMPOUNDS and CARBANOLATE.

NJJ875 HR: 2
N-NITROSOALLYLETHANOLAMINE
mf: $C_5H_{10}N_2O_2$ mw: 130.17
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate TCMUE9 1,13,84
mma-sat 10 µg/plate TCMUE9 1,13,84
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NJJ950 CAS: 91308-70-2 HR: 2
N-NITROSOALLYL-2-HYDROXYPROPYLAMINE
mf: $C_6H_{12}N_2O_2$ mw: 144.20
SYNS: NAHP □ NITROSO-ALLYL-2-HYDROXYPROPYLAMINE □ N-NITROSO-N-ALLYL-N-(2-HYDROXYPROPYL)AMINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NJK000 CAS: 760-56-5 HR: 2
NITROSOALLYLUREA
mf: $C_4H_7N_3O_2$ mw: 129.14
SYNS: 1-ALLYL-1-NITROSOUREA □ N-NITROSO-N-2-PROPENYLUREA
TOXICITY DATA with REFERENCE:
mma-sat 25 µg/plate TCMUE9 1,13,84
pic-esc 4 mg/L TCMUE9 1,91,84
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. Questionable carcinogen with experimental carcinogenic data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJK150 CAS: 1133-64-8 HR: 2
1-NITROSOANABASINE
mf: $C_{10}H_{13}N_3O$ mw: 191.26
SYNS: NAB □ N-NITROSOANABASINE □ N'-NITROSOANA-BASINE □ N-NITROSO-2-(3'-PYRIDYL)PIPERIDINE □ PYRIDINE, 3-(1-NITROSO-2-PIPERIDINYL)-, (S)-(9CI)
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x.

NJK200 CAS: 84237-39-8 HR: 3
(+−)-N-NITROSOANABASINE
mf: $C_{10}H_{13}N_3O$ mw: 191.26
SYNS: (+−)-1-NITROSOANABASINE □ (+−)-3-(1-NITROSO-2-PIPERIDINYL)PYRIDINE □ PYRIDINE, 3-(1-NITROSO-2-PIPERIDINYL)-, (+−)-
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Human No Adequate Data IMEMDT 37,225,85; Animal Limited Evidence IMEMDT 37,225,85.
SAFETY PROFILE: Suspected carcinogen with experimental animal data. When heated to decomposition it emits toxic vapors of NO_x.

NJK300 CAS: 71267-22-6 HR: 2
N'-NITROSOANATABINE

mf: $C_{10}H_{11}N_3O$ mw: 189.24
SYNS: 2,3'-BIPYRIDINE, 1,2,3,6-TETRAHYDRO-1-NITROSO- □ 1,2,3,6-TETRAHYDRO-1-NITROSO-2,3'-BIPYRIDINE
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 37,233,85; Human No Adequate Data IMEMDT 37,233,85.
SAFETY PROFILE: Questionable carcinogen. When heated to decomposition it emits toxic vapors of NO_x.

NJK500 CAS: 40580-89-0 HR: 2
1-NITROSOAZACYCLOTRIDECANE
mf: $C_{12}H_{24}N_2O$ mw: 212.38
SYNS: NDMI □ N-NITROSODODECAMETHYLENEIMINE □ NITROSODODECAMETHYLENIMINE □ N-NITROSODO-DECAMETHYLENIMINE
TOXICITY DATA with REFERENCE:
mma-sat 10 µg/plate TCMUE9 1,13,84
mma-esc 7500 µmol/L IAPUDO 41,543,82
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJL000 CAS: 15216-10-1 HR: 2
1-NITROSOAZETIDINE
mf: $C_3H_6N_2O$ mw: 86.11
SYNS: N-NITROSAZETIDINE □ NITROSO-AZETIDIN (GERMAN) □ NITROSOAZETIDINE □ N-NITROSOAZETIDINE □ NITROSOTRIMETHYLENEIMINE □ N-NITROSOTRIMETHY-LENEIMINE
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 51,319,78
mma-sat 250 µg/plate MUREAV 67,21,79
orl-rat LDLo:1600 mg/kg NATWAY 54,518,67
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJL850 CAS: 61034-40-0 HR: 2
1-NITROSO-4-BENZOYL-3,5-DIMETHYL-PIPERAZINE
mf: $C_{13}H_{18}N_3O_2$ mw: 248.34
SYNS: 4-BENZOYL-3,5-DIMETHYL-N-NITROSOPIPERAZINE □ N-NITROSO-4-BENZOYL-3,5-DIMETHYLPIPERAZINE □ PIPERAZINE, 1-BENZOYL-2,6-DIMETHYL-4-NITROSO-(9CI)
TOXICITY DATA with REFERENCE:
mma-sat 250 µg/plate MUREAV 111,135,83
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NJM000 CAS: 775-11-1 HR: 2
NITROSOBENZYLUREA
mf: $C_8H_9N_3O_2$ mw: 179.20
SYNS: 1-BENZYL-1-NITROSOUREA □ N-NITROSO-N-(PHENYLMETHYL)UREA
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 68,1,79
mma-sat 250 µg/plate TCMUE9 1,13,84
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJM100 CAS: 21711-71-7 HR: D
2-NITROSOBIPHENYL
mf: $C_{12}H_9NO$ mw: 183.22
SYNS: BIPHENYL, 2-NITROSO- □ 1,1'-BIPHENYL, 2-NITROSO- □ 1,1'-BIPHENYL, 2-NITROSO- □ o-NITROSOBIPHENYL □ 2-NITROSO-1,1'-BIPHENYL □ 2-NITROSODIPHENYL
TOXICITY DATA with REFERENCE:
mic-sat 40 µLg/plate CRNGDP 10,1403,1989
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NJM395 CAS: 105361-86-2 HR: D
3-NITROSOBIPHENYL
mf: $C_{12}H_9NO$ mw: 183.22
SYNS: 1,1'-BIPHENYL, 3-NITROSO- □ m-NITROSOBIPHENYL
TOXICITY DATA with REFERENCE:
mic-bac-sat 1 µg/plate CRNGDP 10,1403,89
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NJM400 CAS: 10125-76-5 HR: D
4-NITROSOBIPHENYL
mf: $C_{12}H_9NO$ mw: 183.22
SYN: 4-NITROSO-1,1'-BIPHENYL
TOXICITY DATA with REFERENCE:
mmo-sat 5500 nmol/L ENMUDM 3,11,81
dns-rat:lvr 5 µmol/L ENMUDM 3,11,81
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJM500 CAS: 60414-81-5 HR: 2
N-NITROSOBIS(2-ACETOXYPROPYL)AMINE
mf: $C_{10}H_{18}N_2O_5$ mw: 246.30
SYNS: BAP □ 1,1-(N-NITROSOIMINO)DI-2-PROPANOL, DIACETATE
TOXICITY DATA with REFERENCE:
mma-sat 1 mg/palte CRNGDP 6,415,85
dns-rat:lvr 1 mmol/L MUREAV 144,197,85
scu-mus LD50:4898 mg/kg CALEDQ 9,257,80
scu-ham LD50:6500 mg/kg CALEDQ 1,197,76
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJN000 CAS: 60599-38-4 HR: 3
N-NITROSOBIS(2-OXOPROPYL)AMINE

mf: $C_6H_{10}N_2O_3$ mw: 158.18

SYNS: BIS-(2-OXOPROPYL)-N-NITROSAMINE □ BOP □ DI-OXO-DI-N-PROPYLNITROSAMINE □ 2,2'-DIOXO-DI-N-PROPYLNITROSAMINE □ 2,2'-DIOXO-N-NITROSODIPROPYL-AMINE □ N,N-DI(2-OXOPROPYL)NITROSAMINE □ 2,2'-DIOXOPROPYL-N-PROPYLNITROSAMINE □ DOPN □ N-NITROSO-N,N-DI(2-OXYPROPYL)AMINE □ (NITROSOIMINO)-DIACETONE

TOXICITY DATA with REFERENCE:

mma-sat 250 µg/plate MUREAV 111,135,83
otr-hmn:oth 200 µg/L BANRDU 12,15,82
dns-rat:lvr 1 µmol/L MUREAV 144,197,85
mma-ham:lng 20 µmol/L CNREA8 45,5219,85
scu-rat LD50:100 mg/kg CALEDQ 5,13,78
scu-gpg LD50:205 mg/kg CALEDQ 5,31,78
orl-ham LD50:142 mg/kg CALEDQ 2,323,77
scu-ham LD50:89 mg/kg JNCIAM 58,1449,77

SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic data. Poison by ingestion and subcutaneous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJN300 CAS: 83335-32-4 HR: 2
N-NITROSO-BIS-(4,4,4-TRIFLUORO-n-BUTYL)AMINE

mf: $C_8H_{12}F_6N_2O$ mw: 266.22

SYNS: F-6-NDBA □ 4,4,4,4',4',4'-HEXAFLUORO-N-NITROSO-DIBUTYLAMINE □ N-NITROSO-4,4,4,4',4',4'-HEXAFLUORO-DIBUTYLAMINE

TOXICITY DATA with REFERENCE:

mma-sat 1 µmol/plate CRNGDP 3,781,82
dnd-esc 100 nmol/tube CRNGDP 3,781,82
orl-rat TDLo:960 g/kg/32W-I:CAR CRNGDP 3,1219,82
orl-rat TD:3150 mg/kg/32W-I:CAR CRNGDP 3,1219,82
orl-rat LD50:750 mg/kg CRNGDP 3,1219,82

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F^- and NO_x. See also N-NITROSO COMPOUNDS.

NJN500 CAS: 69113-02-6 HR: D
NITROSOBROMOETHYLUREA

mf: $C_3H_6BrN_3O_2$ mw: 196

SYN: 1-(2-BROMOETHYL)-1-NITROSOUREA

TOXICITY DATA with REFERENCE:

mmo-sat 1 µg/plate MUREAV 68,1,79
dnr-esc 320 µmol/L MUREAV 202,193,88

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of Br^- and NO_x. See also N-NITROSO COMPOUNDS.

NJO000 CAS: 56375-33-8 HR: D
N-NITROSOBUTYLAMINE

mf: $C_4H_{10}N_2O$ mw: 102.16

SYNS: BUTYLNITROSAMINE □ N-NITROSOBUTANAMINE

TOXICITY DATA with REFERENCE:

cyt-rat-orl 350 mg/kg ZKKOBW 86,47,76

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJO150 CAS: 78455-93-3 HR: 2
N-NITROSO-N-BUTYLBUTYRAMIDE

mf: $C_8H_{16}N_2O_2$ mw: 172.26

SYNS: N-BUTYL-N-NITROSOBUTYRAMIDE □ N-BUTYL-N-(1-OXOBUTYL)NITROSAMINE □ NBBA □ N-NITROSO-N-BUTYROXY-BUTYLAMINE

TOXICITY DATA with REFERENCE:

scu-rat TD:70,500 µg/kg/10W-I:ETA GANNA2 73,687,82

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

NJO200 CAS: 73487-24-8 HR: 2
N-NITROSO-N-(BUTYL-N-BUTYROLACTONE)-AMINE

mf: $C_8H_{14}N_2O_3$ mw: 186.24

SYNS: BBAL □ N-n-BUTYL-N-4-(1,4-BUTYROLACTONE)-NITROSAMINE □ 4-(N-BUTYLNITROSAMINO)-4-HYDROXY-BUTYRIC ACID LACTONE

TOXICITY DATA with REFERENCE:

mmo-sat 50 nmol/plate CNREA8 40,162,80
mmo-esc 500 nmol/plate CNREA8 40,162,80
dnr-bcs 100 nmol/plate CNREA8 40,162,80
dns-rat:oth 1 mmol/L CBINA8 53,99,85

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJO300 CAS: 46061-25-0 HR: 2
N-NITROSO-4-tert-BUTYLPIPERIDINE

mf: $C_9H_{18}N_2O$ mw: 170.29

SYNS: 4-tert-BUTYL-1-NITROSOPIPERIDINE □ PIPERIDINE, 4-tert-BUTYL-1-NITROSO

TOXICITY DATA with REFERENCE:

mma-sat 250 µg/plate MUREAV 111,135,83

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

NJO500 CAS: 71752-66-4 HR: 2
NITROSO-sec-BUTYLUREA

mf: $C_5H_{11}N_3O_2$ mw: 145.19

SYN: 1-sec-BUTYL-1-NITROSOUREA

TOXICITY DATA with REFERENCE:

mmo-sat 100 µg/plate MUREAV 68,1,79
mma-sat 500 µg/plate TCMUE9 1,13,84

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJP000 CAS: 62573-59-5 HR: 2
NITROSO-BUX-TEN

SYN: 3-(1-ETHYLPROPYL)PHENOL METHYLNITROSO-CARBAMATE mixed with 3-(1-METHYLBUTYL)PHENYL METHYLNITROSOCARBAMATE

CONSENSUS REPORTS: EPA Genetic Toxicology Program. EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.

NJP300 CAS: 122130-63-6 HR: 2
S-NITROSOCAPTOPRIL

mf: $C_9H_{14}N_2O_4S$ mw: 246.29

SYN: l-PROLINE, 1-(2-METHYL-3-(NITROSOTHIO)-1-OXO-PROPYL)-, (S)-

TOXICITY DATA with REFERENCE:

orl-mus LD50:2078 mg/kg FCTOD7 39,1135,2001
ipr-mus LD50:674 mg/kg FCTOD7 39,1135,2001
orl-rat TDLo:2000 mg/kg FCTOD7 39,1135,2001

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

NJP500 CAS: 101418-02-4 HR: D
N-NITROSOCARBANILIC ACID ISOPROPYL-ESTER

mf: $C_{10}H_{12}N_2O_3$ mw: 208.24

SYN: NITROSOPROPHAM

TOXICITY DATA with REFERENCE:

mmo-sat 1 µL/plate MUREAV 48,225,77

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJQ000 CAS: 13256-15-0 HR: 3
N-NITROSO-N′-CARBETHOXYPIPERAZINE

mf: $C_7H_{13}N_3O_3$ mw: 187.23

SYNS: ETHYL 4-NITROSO-1-PIPERAZINECARBOXYLATE □ N-NITROSO-N'-CARBAETHOXYPIPERAZIN (GERMAN)

TOXICITY DATA with REFERENCE:

scu-rat LD50:400 mg/kg ZEKBAI 69,103,67

SAFETY PROFILE: Poison by subcutaneous route. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJQ500 CAS: 62593-23-1 HR: 2
NITROSOCARBOFURAN

mf: $C_{12}H_{14}N_2O_4$ mw: 250.28

SYNS: 2,3-DIHYDRO-2,2-DIMETHYL-7-BENZOFURANYL NITROSO-METHYL CARBAMATE □ METHYLNITROSO-CARBAMIC ACID-2,3-DIHYDRO-2,3-DIMETHYL-7-BENZO-FURANYL ESTER

TOXICITY DATA with REFERENCE:

mmo-sat 2500 ng/plate TCMUE9 1,13,84
dnd-hmn:fbr 10 µmol/L MUREAV 44,1,77

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.

NJR000 CAS: 69113-00-4 HR: 2
NITROSOCHLOROETHYLDIETHYLUREA

mf: $C_7H_{14}ClN_3O_2$ mw: 207.69

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also N-NITROSO COMPOUNDS.

NJR500 CAS: 59960-30-4 HR: 2
NITROSOCHLOROETHYLDIMETHYLUREA

mf: $C_5H_{10}ClN_3O_2$ mw: 179.63

SYN: 1-NITROSO-1-(2-CHLOROETHYL)-3,3-DIMETHYLUREA

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also N-NITROSO COMPOUNDS.

NJS300 CAS: 73785-40-7 HR: 2
NITROSOCIMETIDINE

mf: $C_{10}H_{15}N_7OS$ mw: 281.38

SYN: N-NITROSOCIMETIDINE

TOXICITY DATA with REFERENCE:

mma-sat 1 mg/plate TOLED5 12,281,82
sce-hmn:lym 260 µmol/L MUREAV 156,117,85
orl-mus TDLo:1316 mg/(pre-post):CAR,TER CNREA8 45,3561,85

SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. An experimental teratogen. Human mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also N-NITROSO COMPOUNDS.

NJS500 CAS: 33904-55-1 HR: D
NITROSO-dl-CITRULLINE

mf: $C_6H_{12}N_4O_4$ mw: 204.22

SYNS: dl-N^5-(AMINOCARBONYL)-N^5-NITROSOORNITHINE □ dl-N^5-CARBAMOYL-N^5-NITROSOORNITHINE

TOXICITY DATA with REFERENCE:

mmo-sat 1500 µmol/L MUREAV 48,131,77

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJT000 CAS: 42713-66-6 HR: D
NITROSO-l-CITRULLINE

mf: $C_6H_{12}N_4O_4$ mw: 204.22

SYNS: l-N^5-(AMINOCARBONYL)-N^5-NITROSOORNITHINE □ l-N^5-CARBAMOYL-N^5-NITROSOORNITHINE

TOXICITY DATA with REFERENCE:

mmo-sat 1500 µmol/L MUREAV 48,131,77

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJT500 HR: 3
NITROSO COMPOUNDS
PROP: Compounds of the form C—N═O or N—N═O. Organic nitrogen compounds.
SAFETY PROFILE: Usually highly toxic carcinogens, teratogens, and mutagens by almost all routes of exposure. Some of these compounds may have hazardous instabilities under the appropriate conditions. When heated to decomposition they emit very toxic fumes of NO_x. See also specific compounds.

NJT550 HR: 3
N-NITROSO COMPOUNDS
PROP: A class of organic compounds of the form R_2—N—N═O or R═N—N═O.
SAFETY PROFILE: Many members of this class are toxins, carcinogens, teratogens, and mutagens. Sources of exposure to N-nitroso compounds are: formation in the environment and absorption from food, water, air, or industrial and consumer products; formation in the body from precursors in food, water, or air; from tobacco; and from naturally occurring compounds. Some are used in the production of rubber and they may be formed as by-products in industrial processes. Nitrosamines have been found in food and cosmetics. N-nitroso compounds can be formed from the reaction of nitrates with nitrites under acidic conditions. These conditions can occur in the environment, mouth, and stomach. Nitrites are formed in the mouth by the action of bacteria on nitrates. Nitrosatable substances in the environment include secondary and tertiary amines, quaternary ammonium compounds, ureas, carbamates, and guanidines. Many of the resulting N-nitroso compounds are experimental carcinogens and mutagens. See also individual compounds, NITROSAMINES, CARBAMATES, and SMOKELESS TOBACCO.

NJU000 CAS: 100700-20-7 HR: D
4-(NITROSOCYANAMIDO)BUTYRAMIDE
mf: $C_5H_8N_4O_2$ mw: 156.17
SYN: γ-GUANIDINOBUTYRIC ACID AMIDE, NITROSATED
TOXICITY DATA with REFERENCE:
mmo-sat 156 μmol/L GANNA2 65,45,74
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJU500 CAS: 102584-88-3 HR: D
5-(NITROSOCYANAMIDO)-2-HYDROXYVALERAMIDE
mf: $C_6H_{10}N_4O_3$ mw: 186.20
SYN: l-ARGININE, nitrosated
TOXICITY DATA with REFERENCE:
mmo-sat 10 mmol/L GANNA2 65,45,74
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJV000 CAS: 877-31-6 HR: 2
NITROSOCYCLOHEXYLUREA
mf: $C_7H_{13}N_3O_2$ mw: 171.23
SYN: 1-CYCLOHEXYL-1-NITROSOUREA
TOXICITY DATA with REFERENCE:
mmo-sat 100 μg/plate MUREAV 68,1,79
mma-sat 250 μg/plate TCMUE9 1,13,84
pic-esc 10 mg/L TCMUE9 1,91,84
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJV500 CAS: 16338-97-9 HR: 2
N-NITROSODIALLYL AMINE
mf: $C_6H_{10}N_2O$ mw: 126.18
SYNS: DIALLYINITROSAMIN (GERMAN) □ DIALLYL-NITROSAMINE
TOXICITY DATA with REFERENCE:
mma-sat 10 μg/plate MUREAV 66,1,79
mma-esc 5 mmol/L MUREAV 89,209,81
mmo-omi 1 pph/48H-C SOGEBZ 10,522,74
dni-mus-ipr 20 g/kg ARGEAR 51,605,81
scu-ham TDLo:500 mg/kg:NEO JNCIAM 59,1569,77
orl-rat LD50:800 mg/kg ZEKBAI 69,103,67
scu-ham LD50:1230 mg/kg JNCIAM 59,1569,77
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NJV600 CAS: 5336-53-8 HR: 2
N-NITROSODIBENZYLAMINE
mf: $C_{14}H_{14}N_2O$ mw: 226.30
SYNS: BENZENEMETHANAMIDE, N-NITROSO-N-(PHENYL-METHYL)- (9CI) □ DIBENZYLAMINE, N-NITROSO- □ DIBENZYLNITROSAMIN □ DIBENZYLNITROSAMINE □ N,N-DIBENZYLNITROSAMINE
TOXICITY DATA with REFERENCE:
mic-sat 500 μLg/plate EMMUEG 15,190,1990
mic-ham-lng 10 mg/L MUREAV 241,379,1990
orl-rat LD50:900 mg/kg ZEKBAI 69,103,1967
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NJW000 CAS: 5350-17-4 HR: 2
NITROSODI-sec-BUTYLAMINE
mf: $C_8H_{18}N_2O$ mw: 158.28
SYN: N-NITROSO-DI-sec-BUTYLAMINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NJW100 CAS: 947-92-2 HR: 1
N-NITROSODICYCLOHEXYLAMINE

mf: $C_{12}H_{22}N_2O$ mw: 210.36
SYNS: DICYCLOHEXYLAMINE, N-NITROSO- □ DICYCLOHEXYLNITROSAMIN □ DICYCLOHEXYLNITROSAMINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:5 g/kg ZEKBAI 69,103,67
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NJW500 CAS: 55-18-5 HR: 3
N-NITROSODIETHYLAMINE
mf: $C_4H_{10}N_2O$ mw: 102.16
PROP: Yellow oil. D: 0.9422 @ 20°/4°, bp: 176.9°. Sol in water, alc, and ether.
SYNS: DANA □ DEN □ DENA □ DIAETHYLNITROSAMIN (GERMAN) □ DIETHYLNITROSAMINE □ N,N-DIETHYLNITROSAMINE □ DIETHYLNITROSOAMINE □ N-ETHYL-N-NITROSO-ETHANAMINE □ NDEA □ N-NITROSODIAETHYLAMIN (GERMAN) □ NITROSODIETHYLAMINE □ RCRA WASTE NUMBER U174
TOXICITY DATA with REFERENCE:
mma-esc 2 µmol/plate MUREAV 135,87,84
otr-hmn:oth 1 g/L/9W-I PAACA3 25,135,84
orl-ham TDLo:150 mg/kg (lactating female 30D post):REP PSEBAA 136,1007,71
orl-rat TDLo:158 mg/kg (female 22D post):TER IARCCD 4,45,73
orl-rat TDLo:150 mg/kg (22D post):CAR,TER IARCCD 4,92,73
scu-rat TDLo:480 mg/kg/12D-I:ETA,TER NATWAY 54,47,67
ivn-rat TDLo:150 mg/kg (22D post):CAR,TER IARCCD 4,45,73
ipr-mus TDLo:120 mg/kg (21D post):NEO,REP VOONAW 17(1),45,71
scu-mus TDLo:80 mg/kg (15-20D post):NEO,REP ZEKBAI 67,152,65
orl-ham TDLo:150 mg/kg (post):ETA,REP PSEBAA 136,1007,71
ipr-ham TDLo:30 mg/kg (15D post):ETA,TER ZAPPAN 121,82,77
scu-ham TDLo:1250 µg/kg (15D post):NEO,TER CNREA8 47,5112,87
orl-rat LD50:280 mg/kg ARZNAD 13,841,63
ipr-rat LD50:216 mg/kg BIJOAK 85,72,62
scu-rat LD50:195 mg/kg EXPADD 27,171,85
ivn-rat LD50:280 mg/kg IARCCD 4,45,73
ipr-mus LD50:132 mg/kg JJIND8 62,911,79
orl-gpg LD50:250 mg/kg ZEKBAI 69,103,67
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2A IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 1,107,72, IMEMDT 17,83,78, IMEMDT 28,151,82; Human Limited Evidence IMEMDT 17,83,78. NCI Carcinogenesis Studies (ipr); Clear Evidence: mouse, rat RRCRBU 52,1,75. Reported in EPA TSCA Inventory. Community Right-To-Know List.
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by ingestion, intravenous, intraperitoneal, and subcutaneous routes. An experimental teratogen. Other experimental reproductive effects. Human mutation data reported. A transplacental carcinogen. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #27 or NIOSH: Nitrosamines, 2522.

NJW600 CAS: 120-22-9 HR: D
p-NITROSODIETHYLANILINE
mf: $C_{10}H_{14}N_2O$ mw: 178.26
SYNS: ANILINE, N,N-DIETHYL-p-NITROSO- □ BENZENAMINE, N,N-DIETHYL-4-NITROSO-(9CI) □ 4-DIETHYLAMINONITROSOBENZENE □ N,N-DIETHYL-4-NITROSOBENZENAMINE
TOXICITY DATA with REFERENCE:
mmo-sat 3 µmol/L XENOBH 16,587,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NJW700 CAS: 49540-32-1 HR: 2
1-NITROSO-1,3-DIETHYLUREA
mf: $C_5H_{11}N_3O_2$ mw: 145.19
SYNS: N,N'-DIETHYL-N-NITROSOUREA □ 1,1'-DIETHYL-1-NITROSOUREA □ 1,3-DIETHYL-1-NITROSOUREA □ NITROSODIETHYLUREA □ N-NITROSODIETHYLUREA □ N-NITROSO-N,N'-DIETHYLUREA □ NSC 82190 □ UREA, N,N'-DIETHYL-N-NITROSO-
TOXICITY DATA with REFERENCE:
mic-sat 1 mg/plate MUREAV 178,157,87
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NJX000 CAS: 3276-41-3 HR: 2
N-NITROSO-3,6-DIHYDRO-1,2-OXAZINE
mf: $C_4H_6N_2O_2$ mw: 114.12
SYNS: 3,6-DIHYDRO-2-NITROSO-2H-1,2-OXAZINE □ N-NITROSO-3,6-DIHYDROOXAZIN-1,2 (GERMAN)
TOXICITY DATA with REFERENCE:
orl-rat LD50:900 mg/kg ZKKOBW 79,114,73
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental neoplastigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJX500 CAS: 62641-67-2 HR: D
1-NITROSO-5,6-DIHYDROTHYMINE
mf: $C_5H_7N_3O_3$ mw: 157.15
SYNS: DIHYDRO-5-METHYL-1-NITROSO-2,4(1H,3H)-PYRIMIDINEDIONE □ 5,6-DIHYDRO-1-NITROSOTHYMINE
TOXICITY DATA with REFERENCE:
mmo-sat 38 µmol/L MUREAV 48,131,77
dnd-rat-ipr 700 µmol/kg PAACA3 24,73,83
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NJY000 CAS: 16813-36-8 HR: 2
1-NITROSO-5,6-DIHYDROURACIL
mf: $C_4H_5N_3O_3$ mw: 143.12
SYNS: DIHYDRO-1-NITROSO-2,4(1H,3H)-PYRIMIDINEDIONE □ 5,6-DIHYDRO-1-NITROSOURACIL □ NDHU □ NO-DHU
TOXICITY DATA with REFERENCE:
mmo-sat 2900 nmol/L MUREAV 48,131,77
dnd-rat-ipr 1 mg/kg BBRCA9 53,773,73
dns-rat:lvr 7 mmol/L JJIND8 73,515,84
ipr-rat LD50:850 mg/kg ZKKOBW 79,304,73
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
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. See also N-NITROSO COMPOUNDS.

NJY500 CAS: 88208-16-6 HR: 2
N-NITROSO-2,3-DIHYDROXYPROPYLALLYL-AMINE
mf: $C_6H_{12}N_2O_3$ mw: 160.20
SYNS: 3-(ALLYLNITROSAMINO)-1,2-PROPANEDIOL □ N-NITROSOALLYL-2,3-DIHYDROXYPROPYLAMINE □ 1,2-PROPANEDIOL, 3-(NITROSO-2-PROPENYLAMINO)-
TOXICITY DATA with REFERENCE:
mma-sat 250 µg/plate MUREAV 111,135,83
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NJY550 HR: 2
NITROSO-DIHYDROXYPROPYLOXOPROPYL-AMINE
mf: $C_6H_{12}N_2O_4$ mw: 176.20
SYNS: 1-((2,3-DIHYDROXYPROPYL)NITROSAMINO)-2-PROPANONE □ N-NITROSODIHYDROXYPROPYL-2-OXOPROPYLAMINE □ N-NITROSO-2-OXOPROPYL-2,3-DIHYDROXYPROPYLAMINE
TOXICITY DATA with REFERENCE:
mma-sat 50 µg/plate TCMUE9 1,13,84
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKA000 CAS: 601-77-4 HR: 3
N-NITROSODIISOPROPYLAMINE
mf: $C_6H_{14}N_2O$ mw: 130.22
SYNS: DIISOPROPYLNITROSAMIN (GERMAN) □ N-NITROSODI-i-PROPYLAMINE (MAK)
TOXICITY DATA with REFERENCE:
orl-rat LD50:850 mg/kg ZEKBAI 69,103,67
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #38.

NKA500 CAS: 63124-33-4 HR: D
NITROSODIMETHOATE
mf: $C_5H_{11}N_2O_4PS_2$ mw: 258.27
SYN: PHOSPHORODITHIOIC ACID-O,O-DIMETHYL ESTER, S-ESTER with 2-MERCAPTO-N-METHYL-N-NITROSO ACETAMIDE
TOXICITY DATA with REFERENCE:
mmo-sat 1 µL/plate MUREAV 48,225,77
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of SO_x, PO_x, and NO_x. See also N-NITROSO COMPOUNDS and MERCAPTANS.

NKA600 CAS: 62-75-9 HR: 3
N-NITROSODIMETHYLAMINE
mf: $C_2H_6N_2O$ mw: 74.10
PROP: Yellow liquid; sol in water, alc, and ether. Bp: 152°, d: 1.005 @ 20°/4°.
SYNS: DIMETHYLNITROSAMIN (GERMAN) □ DIMETHYL-NITROSAMINE □ N,N-DIMETHYLNITROSAMINE □ DIMETHYLNITROSOAMINE □ DMN □ DMNA □ N-METHYL-N-NITROSOMETHANAMINE □ NDMA □ NITROSODI-METHYLAMINE □ RCRA WASTE NUMBER P082
TOXICITY DATA with REFERENCE:
mma-sat 100 µg/plate ENMUDM 6(Suppl 2),1,84
msc-hmn:lym 14 mmol/L MUREAV 128,221,84
orl-rat TDLo:30 mg/kg (female 21D post):NEO,TER BEXBAN 78,1308,74
orl-wmn LDLo:20 mg/kg/2.5Y:GIT,MET ONCOBS 37,273,80
orl-rat LD50:37 mg/kg GISAAA 50(8),81,85
ihl-rat LC50:78 ppm/4H AMIHAB 12,617,55
ipr-rat LD50:26,500 µg/kg BJIMAG 11,167,54
scu-rat LD50:45 mg/kg ZKKOBW 80,17,73
ivn-rat LDLo:40 mg/kg BJIMAG 11,167,54
ihl-mus LC50:57 ppm/4H AMIHAB 12,617,55
ipr-mus LD50:19 mg/kg EXPEAM 32,495,76
orl-dog LDLo:20 mg/kg BJIMAG 11,167,54
ihl-dog LCLo:16 ppm/4H AMIHAB 12,617,55
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2A IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 17,125,78; IMEMDT 1,95,72; Human Limited Evidence IMEMDT 17,125,78; Human Inadequate Evidence IMEMDT 1,95,72. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. Community Right-To-Know List. EPA Extremely Hazardous Substances List.
OSHA PEL: Cancer Suspect Agent
ACGIH TLV: Animal Carcinogen
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic, and teratogenic data. A transplacental carcinogen. Human poison by ingestion. Experimental poison by ingestion, inhalation, intraperitoneal, subcutaneous, and intravenous

routes. Human systemic effects by ingestion: ulceration or bleeding from small intestine, nausea or vomiting, and fever. Experimental reproductive effects. Human mutation data reported. Has caused fatal liver disease in humans. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #27.

NKA695 CAS: 69091-16-3 HR: 2
cis-NITROSO-2,6-DIMETHYLMORPHOLINE
mf: $C_6H_{12}N_2O_2$ mw: 144.20
SYNS: MORPHOLINE, 2,6-DIMETHYL-N-NITROSO-, (cis)- ◻ MORPHOLINE, 2,6-DIMETHYL-4-NITROSO-, (Z)- ◻ cis-N-NITROSO-2,6-DIMETHYLMORPHOLINE
TOXICITY DATA with REFERENCE:
mma-sat 100 nmol/plate MUREAV 77,215,80
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NKA700 CAS: 69091-15-2 HR: 2
trans-NITROSO-2,6-DIMETHYLMORPHOLINE
mf: $C_6H_{12}N_2O_2$ mw: 144.20
SYN: trans-N-NITROSO-2,6-DIMETHYLMORPHOLINE
TOXICITY DATA with REFERENCE:
mma-sat 1 mg/plate TCMUD8 1,295,80
pic-esc 100 mg/L TCMUE9 1,91,84
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKA850 CAS: 67774-31-6 HR: 2
1-NITROSO-3,5-DIMETHYLPIPERAZINE
mf: $C_6H_{13}N_3O$ mw: 143.22
SYNS: 3,5-DIMETHYL-1-NITROSOPIPERAZINE ◻ NITROSO-3,5-DIMETHYLPIPERAZINE ◻ N-NITROSO-3,5-DIMETHYLPIPERAZINE
TOXICITY DATA with REFERENCE:
mma-sat 10 µg/plate TCMUE9 1,13,84
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NKB000 HR: D
NITROSODIOCTYLAMINE
mf: $C_{16}H_{34}N_2O$ mw: 270.52
SYN: N-NITROSO-DI-N-OCTYLAMINE
TOXICITY DATA with REFERENCE:
mma-sat 250 µg/plate MUREAV 51,319,78
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKB500 CAS: 156-10-5 HR: 3
p-NITROSODIPHENYLAMINE
mf: $C_{12}H_{10}N_2O$ mw: 198.24
PROP: Green plates with bluish luster (from benzene) or steel-blue prisms or plates (from ether + H_2O). Mp: 144−145°. Sltly sol in water or pet ether; very sol in alc, ether, benzene, chloroform.
SYNS: NAUGARD TKB ◻ NCI-C02244 ◻ p-NITROSODIFENYL-AMIN (CZECH) ◻ 4-NITROSODIPHENYLAMINE ◻ p-NITROSO-N-PHENYLANILINE ◻ 4-NITROSO-N-PHENYLANILINE ◻ 4-NITROSO-N-PHENYLBENZENAMINE ◻ N-PHENYL-p-NITROSOANILINE ◻ TKB
TOXICITY DATA with REFERENCE:
eye-rbt 100 mg/24H MOD 28ZPAK -,133,72
mma-sat 200 µg/plate ENMUDM 5(Suppl 1),3,83
dns-mus:ast 50 µmol/L MUREAV 89,95,81
ivn-mus LD50:178 mg/kg CSLNX* NX#00267
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 27,227,82. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse, rat NCITR* NCI-CG-TR-190,79. Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Suspected carcinogen with experimental carcinogenic and neoplastigenic data. Moderately toxic by ingestion. Mutation data reported. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKB600 CAS: 26457-81-8 HR: D
N-NITROSODIPROPARGYLAMINE
mf: $C_6H_6N_2O$ mw: 122.14
SYNS: DIPROPARGYLNITROSAMINE ◻ DI-2-PROPYNYL-NITROSAMINE ◻ 2-PROPYN-1-AMINE, N-NITROSO-N-2-PROPYNYL- ◻ DI-2-PROPYNYLAMINE, N-NITROSO-
TOXICITY DATA with REFERENCE:
mic-uns 5000 ppm/48H-C SOGEBZ 10,522,1974
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NKB700 CAS: 621-64-7 HR: 3
N-NITROSODI-N-PROPYLAMINE
mf: $C_6H_{14}N_2O$ mw: 130.22
SYNS: DI-n-PROPYLNITROSAMINE ◻ DIPROPYLNITROSO-AMINE ◻ DPN ◻ DPNA ◻ NDPA ◻ N-NITROSODIPROPYL-AMINE ◻ N-NITROSO-N-DIPROPYLAMINE ◻ N-NITROSO-N-PROPYLPROPANAMINE ◻ N-NITROSO-N-PROPYL-1-PROPANAMINE ◻ RCRA WASTE NUMBER U111
TOXICITY DATA with REFERENCE:
mma-sat 1 µmol/plate GANNA2 75,8,84
dns-hmn:hla 100 µmol/L CNREA8 38,2621,78
scu-ham TDLo:100 mg/kg (14D preg):NEO,TER ZKKOBW 90,79,77
orl-rat LD50:480 mg/kg ZEKBAI 69,103,67
scu-rat LD50:487 mg/kg JNCIAM 54,937,75
scu-mus LD50:689 mg/kg ZKKOBW 90,253,77
scu-ham LD50:600 mg/kg JNCIAM 51,1019,73
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 17,177,78; Human Limited Evidence IMEMDT 17,177,78. EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic data. Moderately toxic by ingestion and subcutaneous routes. An experimental teratogen. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSAMINES.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #27 or NIOSH: Nitrosamines 2522.

NKC000 CAS: 17608-59-2 HR: 3
N-NITROSOEPHEDRINE
mf: $C_{10}H_{14}N_2O_2$ mw: 194.26
SYNS: α-(1-(N-METHYL-N-NITROSOAMINO)ETHYL)BENZYL ALCOHOL ◻ 2-(N-METHYL-N-NITROSOAMINO)-1-PHENYL-1-PROPANOL
TOXICITY DATA with REFERENCE:
mma-sat 50 µg/plate CALEDQ 21,63,83
otr-ham:kdy 80 µg/L BJCAAI 37,873,78
ipr-mus LD50:392 mg/kg CNREA8 35,1981,75
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic data. Poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKC300 CAS: 71785-87-0 HR: 2
N-NITROSO-3,4-EPOXYPIPERIDINE
mf: $C_5H_8N_2O_2$ mw: 128.15
SYN: 3-NITROSO-7-OXA-3-AZABICYCLO(4.1.0)HEPTANE
TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate TCMUE9 1,13,84
mma-sat 50 µg/plate TCMUE9 1,13,84
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. An experimental carcinogenic. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKC500 CAS: 56235-95-1 HR: 2
NITROSOETHOXYETHYLAMINE
mf: $C_4H_{10}N_2O_2$ mw: 118.16
SYNS: O,N-DIETHYL-N-NITROSOHYDROXYLAMINE ◻ N-NITROSO-O,N-DIAETHYLHYDROXYLAMIN (GERMAN) ◻ N-NITROSO-O,N-DIETHYLHYDROXYLAMINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1000 mg/kg ZKKOBW 83,205,75
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKD000 CAS: 612-64-6 HR: 3
N-NITROSO-N-ETHYL ANILINE
mf: $C_8H_{10}N_2O$ mw: 150.20
PROP: Yellow oil. D: 1.087 @ 20°/4°, bp: 119−120° @ 15 mm. Insol in water.
SYNS: ETHYLNITROSOANILINE ◻ N-ETHYL-N-NITROSO-BENZENAMINE ◻ NEA ◻ NITROSOETHYLANILINE ◻ N-NITROSOETHYLPHENYLAMINE (MAK)
TOXICITY DATA with REFERENCE:
otr-mus:fbr 400 µg/L JJIND8 67,1303,81
otr-ham:emb 6300 µg/L JJIND8 67,1303,81
orl-rat LD50:180 mg/kg VOONAW 14(3),37,68
ipr-rat LD50:180 mg/kg VOONAW 14(3),37,68
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
SAFETY PROFILE: Confirmed carcinogen. Poison by ingestion and intraperitoneal routes. An experimental teratogen. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKD500 CAS: 3398-69-4 HR: 2
N-NITROSOETHYL-tert-BUTYLAMINE
mf: $C_6H_{14}N_2O$ mw: 130.22
SYNS: AETHYL-tert-BUTYL-NITROSOAMIN (GERMAN) ◻ EBNA ◻ ETHYL-tert-BUTYLNITROSAMINE ◻ N-ETHYL-N-NITROSO-tert-BUTANAMINE ◻ N-NITROSO-tert-BUTYLETHYLAMINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1600 mg/kg NATWAY 50,100,63
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKE000 CAS: 54897-63-1 HR: 2
N-NITROSO-ETHYL(3-CARBOXYPROPYL)AMINE
mf: $C_6H_{12}N_2O_3$ mw: 160.20
SYNS: ECPN ◻ N-ETHYL-N-(3-CARBOXYPROPYL)-NITROSOAMINE ◻ 4-(ETHYLNITROSOAMINO)BUTYRIC ACID ◻ N-NITROSO-N-(3-CARBOXYPROPYL)ETHYLAMINE
TOXICITY DATA with REFERENCE:
mma-sat 10 µmol/plate CNREA8 37,399,77
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKE100 CAS: 72479-23-3 HR: 2
1-NITROSO-1-ETHYL-3-METHYLUREA
mf: $C_4H_9N_3O_2$ mw: 131.16
SYNS: N-ETHYL-N'-METHYL-N-NITROSOUREA ◻ UREA, N-ETHYL-N'-METHYL-N-NITROSO-
TOXICITY DATA with REFERENCE:
mic-sat 1 mg/plate MUREAV 178,157,87
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NKE120 CAS: 110559-84-7 HR: 2
1-NITROSO-1-ETHYL-3-(2-OXOPROPYL)UREA
mf: $C_6H_{11}N_3O_3$ mw: 173.20
SYNS: N-ETHYL-N-NITROSO-N'-(2-OXOPROPYL)UREA □ UREA, N-ETHYL-N-NITROSO-N'-(2-OXOPROPYL)-
TOXICITY DATA with REFERENCE:
mic-sat 50 µg/plate MUREAV 178,157,87
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NKE500 CAS: 614-95-9 HR: 3
N-NITROSO-N-ETHYLURETHAN
mf: $C_5H_{10}N_2O_3$ mw: 146.17
SYNS: AETHYLNITROSOURETHAN (GERMAN) □ ENU □ ETHYLESTER KYSELINY N-ETHYL-N-NITROSOKARB-AMINOVE □ ETHYL N-ETHYLNITROSOCARBAMATE □ ETHYLNITROSOCARBAMIC ACID, ETHYL ESTER □ N-ETHYL-N-NITROSOCARBAMIC ACID ETHYL ESTER □ ETHYL NITROSOURETHAN □ N-ETHYL-N-NITROSOURETHAN □ ETHYL NITROSOURETHANE □ N-ETHYL-N-NITROSO-URETHANE □ NEU □ NITROSOETHYLURETHAN □ N-NITROSO-N-ETHYLURETHAN □ NITROSO-N-ETHYL-URETHANE □ NSC-24890
TOXICITY DATA with REFERENCE:
mma-sat 5 µg/plate TCMUE9 1,13,84
slt-mus-ipr 150 mg/kg MUREAV 92,193,82
ivn-rat LD50:160 mg/kg IARCCD 4,45,73
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intravenous route. Experimental teratogenic effects. Mutation data reported. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.

NKF000 CAS: 13256-13-8 HR: 3
N-NITROSO-N-ETHYLVINYLAMINE
mf: $C_4H_8N_2O$ mw: 100.14
SYNS: AETHYL-VINYL-NITROSOAMIN (GERMAN) □ N-ETHYL-N-NITROSOETHENAMINE □ N-ETHYL-N-NITROSO-ETHENYLAMINE □ N-ETHYL-N-NITROSOVINYLAMINE □ ETHYLVINYLNITROSAMINE □ N-NITROSOETHYLVINYL-AMINE □ VINYLETHYLNITROSAMIN (GERMAN) □ VINYLETHYLNITROSAMINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:88 mg/kg NATWAY 50,100,63
ivn-rat LD50:88 mg/kg ZEKBAI 69,103,67
scu-ham LD50:109 mg/kg JNCIAM 58,439,77
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion, intravenous, and subcutaneous routes. Experimental teratogenic effects. Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKF500 CAS: 2508-20-5 HR: 2
2-NITROSOFLUORENE
mf: $C_{13}H_9NO$ mw: 195.23
TOXICITY DATA with REFERENCE:
mmo-sat 50 ng/plate CBINA8 54,71,85
dnd-esc 10 µmol/L MUREAV 89,95,81
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NKG000 CAS: 69112-98-7 HR: 2
NITROSOFLUOROETHYLUREA
mf: $C_3H_6FN_3O_2$ mw: 135.12
SYN: 1-(2-FLUOROETHYL)-1-NITROSO-UREA
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 68,1,79
mma-sat 2500 ng/plate TCMUE9 1,13,84
pic-esc 2 mg/L TCMUE9 1,91,84
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of F^- and NO_x. See also N-NITROSO COMPOUNDS.

NKG450 CAS: 29291-35-8 HR: 2
NITROSOFOLIC ACID
mf: $C_{19}H_{18}N_8O_7$ mw: 470.45
SYN: GLUTAMIC ACID, N-NITROSO-N-PTEROYL-, l-
TOXICITY DATA with REFERENCE:
mma-sat 100 µg/plate BJCAAI 37,873,78
otr-ham:kdy 10 mg/L BJCAAI 37,873,78
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 7,217,78.
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NKG500 CAS: 56516-72-4 HR: D
NITROSOGLYPHOSATE
mf: $C_3H_7N_2O_6P$ mw: 198.09
SYN: N-NITROSO-N-(PHOSPHONOMETHYL)GLYCINE
TOXICITY DATA with REFERENCE:
mmo-sat 1 µL/plate MUREAV 48,225,77
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of PO_x and NO_x. See also N-NITROSO COMPOUNDS.

NKH000 CAS: 674-81-7 HR: 3
NITROSOGUANIDINE
mf: CH_4N_4O mw: 88.09
PROP: A solid.
SYNS: INITIATING EXPLOSIVE NITROSOGUANIDINE □ NITROSOGUANIDIN (GERMAN) □ N-NITROSOGUANIDINE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:21 mg/kg TXAPA9 23,288,72

SAFETY PROFILE: Poison by intraperitoneal route. Many N-nitroso compounds are carcinogens. An explosive. Dangerous when stored in sealed containers as it decomposes to release nitrogen. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and EXPLOSIVES, HIGH.

NKH500 CAS: 55557-02-3 HR: 2
NITROSOGUVACOLINE
mf: $C_7H_{10}N_2O_3$ mw: 170.19
SYNS: N-NITROSOGUVACINE ◻ N-NITROSOGUVACOLINE ◻ 1-NITROSO-1,2,5,6-TETRAHYDRONICOTINIC ACID METHYL ESTER ◻ 1,2,5,6-TETRAHYDRO-1-NITROSO-3-PYRIDINECARBOXYLIC ACID METHYL ESTER
TOXICITY DATA with REFERENCE:
mma-sat 10 µg/plate MUREAV 111,135,83
sce-hmn:lym 1 mmol/L TCMUE9 1,129,84
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 37,263,85. EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKI000 CAS: 932-83-2 HR: 3
N-NITROSOHEXAHYDROAZEPINE
mf: $C_6H_{12}N_2O$ mw: 128.20
SYNS: HEXAHYDRO-1-NITROSO-1H-AZEPINE ◻ N-6-MI ◻ N-NITROSOAZACYCLOHEPTANE ◻ N-NITROSOHEXAMETHYL-ENEIMINE ◻ NITROSOHEXAMETHYLENIMINE ◻ N-NITROSOPERHYDROAZEPINE
TOXICITY DATA with REFERENCE:
mma-sat 10 µg/plate TCMUE9 1,13,84
mma-esc 7500 µmol/L IAPUDO 41,543,82
pic-esc 100 mg/L TCMUE9 1,91,84
scu-ham TDLo:80 mg/kg (8-15D preg):CAR,TER ZKKOBW 86,69,76
orl-rat LD50:336 mg/kg CNREA8 28,1217,68
ipr-rat LDLo:300 mg/kg CNREA8 28,1217,68
scu-mus LD50:65 mg/kg ZKKOBW 78,78,72
scu-ham LD50:142 mg/kg JNCIAM 50,323,73
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Poison by ingestion, intraperitoneal, and subcutaneous routes. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKI500 CAS: 60391-92-6 HR: 3
NITROSO HYDANTOIC ACID
mf: $C_3H_5N_3O_4$ mw: 147.11
SYNS: N-(AMINOCARBONYL)-N-NITROGLYCINE ◻ N-CARBAMOYL-N-NITROSOGLYCINE ◻ CARBOXYMETHYL-NITROSOUREA ◻ 1-(CARBOXYMETHYL)-1-NITROSOUREA
TOXICITY DATA with REFERENCE:
mmo-esc 5 mmol/L GANNA2 70,705,79
cyt-ham:fbr 125 mg/L/48H MUREAV 48,337,77
cyt-ham:lng 50 mg/L GMCRDC 27,95,81
ipr-rat LD50:210 mg/kg JJIND8 62,1523,79
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental carcinogenic and neoplastigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKJ000 CAS: 42579-28-2 HR: 2
1-NITROSOHYDANTOIN
mf: $C_3H_3N_3O_3$ mw: 129.09
SYN: NHYD
TOXICITY DATA with REFERENCE:
mmo-sat 12 µmol/L/48H MUREAV 48,131,77
ipr-rat LD50:470 mg/kg JJIND8 62,1523,79
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. Many nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NKJ050 CAS: 96806-34-7 HR: 2
1-NITROSO-1-HYDROXYETHYL-3-CHLORO-ETHYLUREA
mf: $C_5H_{10}ClN_3O_3$ mw: 195.63
SYNS: CHNU-I ◻ 1-NITROSO-1-(2-HYDROXYETHYL)-3-(2-CHLOROETHYL)UREA
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate MUREAV 178,157,87
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and Cl^-.

NKJ100 CAS: 96806-35-8 HR: 2
1-NITROSO-1-HYDROXYPROPYL-3-CHLOROETHYLUREA
mf: $C_6H_{12}ClN_3O_3$ mw: 209.66
SYNS: CPNU-I ◻ 1-NITROSO-1-(2-HYDROXYPROPYL)-3-(2-CHLOROETHYL)UREA
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate MUREAV 178,157,87
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x and Cl^-.

NKK000 CAS: 71752-70-0 HR: 2
NITROSO-3-HYDROXYPROPYLUREA
mf: $C_4H_9N_3O_3$ mw: 147.16
SYNS: 1-(3-HYDROXYPROPYL)-1-NITROSOUREA ◻ NITROSO-3-HYDROXY-N-PROPYLUREA
TOXICITY DATA with REFERENCE:
mmo-sat 25 µg/plate MUREAV 68,1,79
dnr-esc 1500 µmol/L MUREAV 202,193,88
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits

toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKK500 CAS: 3715-92-2 HR: 3
N-NITROSOIMIDAZOLIDINETHIONE
mf: $C_3H_5ON_3S$ mw: 131.17
SYNS: N-NITROSOETHYLENETHIOUREA □ NO-ETU
TOXICITY DATA with REFERENCE:
mnt-mus-ipr 120 mg/kg MUREAV 48,225,77
dlt-mus-orl 500 mg/kg/5D-I MUREAV 54,258,78
sce-ham:lng 50 μmol/L MUREAV 78,177,80
orl-mus LDLo:400 mg/kg MUREAV 56,335,78
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by ingestion. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also N-NITROSO COMPOUNDS.

NKL000 CAS: 3844-63-1 HR: 3
1-NITROSOIMIDAZOLIDINONE
mf: $C_3H_5N_3O_2$ mw: 115.11
PROP: A solid. Mp: 101.5−101.8°.
SYNS: ETHYLENENITROSOUREA □ N-NITRO-2-IMIDAZOLID-ONE □ 1-NITRO-2-IMIDAZOLIDONE □ 1-NITROSO-2-IMIDAZOLIDINONE □ N-NITROSO-IMIDAZOLIDON (GERMAN) □ N-NITROSOIMIDAZOLIDONE □ NSC-73438 □ SRI 1869
TOXICITY DATA with REFERENCE:
mmo-sat 16 μmol/L/48H MUREAV 48,131,77
mmo-smc 400 mg/L/30M GENTAE 78,1101,74
mrc-smc 5 mmol/L ZEVBA5 98,230,66
scu-rat LD50:250 mg/kg ZEKBAI 69,103,67
ipr-mus LD50:28,200 μg/kg NCISP* JAN86
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Mutation data reported. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKL300 CAS: 77698-19-2 HR: 3
1,1′-(NITROSOIMINO)BIS-2-BUTANONE
mf: $C_8H_{14}N_2O_3$ mw: 186.24
SYNS: BOB □ N-NITROSOBIS(2-OXOBUTYL)AMINE
TOXICITY DATA with REFERENCE:
mma-sat 5 mg/plate JJCREP 77,107,86
scu-ham LD50:282 mg/kg CALEDQ 12,223,81
SAFETY PROFILE: Poison by subcutaneous route. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and KETONES.

NKL500 CAS: 16339-18-7 HR: 3
2,2′-(N-NITROSOIMINO)DIACETONITRILE
mf: $C_4H_4N_4O$ mw: 124.12
SYNS: N-NITROSAMINO DIACETONITRIL (GERMAN) □ NITROSIMINODIACETONITRILE □ N-NITROSODIACETONITRILE □ N-NITROSODI(CYANOMETHYL)AMINE □ 2,2'-(NITROSOIMINO)BISACETONITRILE
TOXICITY DATA with REFERENCE:
orl-rat TDLo:1584 mg/kg/2Y-C:ETA,REP ZEKBAI 69,103,67
orl-rat LD50:163 mg/kg ZEKBAI 69,103,67
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. Experimental reproductive effects. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x and CN^-. See also N-NITROSO COMPOUNDS and NITRILES.

NKM000 CAS: 1116-54-7 HR: 3
NITROSOIMINO DIETHANOL
mf: $C_4H_{10}N_2O_3$ mw: 134.16
SYNS: BIS(β-HYDROXYAETHYL)NITROSAMIN (GERMAN) □ BIS(β-HYDROXYETHYL)NITROSAMINE □ DIAETHANOL-NITROSAMIN (GERMAN) □ DIETHANOLNITROSOAMINE □ 2,2'-DIHYDROXY-N-NITROSODIETHYLAMINE □ 2,2'-IMINODI-N-NITROSOETHANOL □ NCI-C55583 □ NDELA □ N-NITROSOAMINODIETHANOL □ N-NITROSOBIS(2-HYDROXY-ETHYL)AMINE □ N-NITROSODIAETHANOLAMIN (GERMAN) □ N-NITROSODIETHANOLAMINE (MAK) □ 2,2'-(NITROSO-IMINO)BISETHANOL □ RCRA WASTE NUMBER U173
TOXICITY DATA with REFERENCE:
mmo-sat 100 μmol/plate MUREAV 158,141,85
sln-dmg-skn 2 mmol/L TCMUD8 4,437,84
orl-rat LD50:7500 mg/kg GISAAA 40(1),81,75
scu-ham LDLo:11 g/kg CALEDQ 4,55,77
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 17,77,78; Human Limited Evidence IMEMDT 17,77,78. Reported in EPA TSCA Inventory.
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Mildly toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and ALCOHOLS.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #31.

NKM500 CAS: 13256-19-4 HR: 2
N-NITROSO-2,2′-IMINODIETHANOLDIACETATE
mf: $C_8H_{14}N_2O_5$ mw: 218.24
SYNS: ACETIC ACID, ESTER with N-NITROSO-2,2'-IMINO-DIETHANOL □ BIS-(ACETOXYAETHYL)NITROSAMIN (GERMAN) □ N-NITROSOBIS(ACETOXYETHYL)AMINE
TOXICITY DATA with REFERENCE:
mmo-sat 100 μg/plate MUREAV 89,217,81
orl-rat LD50:5000 mg/kg ZEKBAI 69,103,67
SAFETY PROFILE: Mildly toxic by ingestion. Questionable carcinogen with experimental tumorigenic

data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and ESTERS.

NKN000 CAS: 7633-57-0 HR: 3
N-NITROSOINDOLINE
mf: $C_8H_8N_2O$ mw: 148.18
PROP: A solid. Mp: 81−82°.
SYNS: N-NITROSOINDOLIN (GERMAN) □ 1-NITROSOINDOLINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:320 mg/kg ZEKBAI 69,103,67
SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKN500 CAS: 72505-67-0 HR: D
N-NITROSOISOBUTYLTHIAZOLIDINE
mf: $C_7H_{14}N_2OS$ mw: 174.2
SYN: 2-ISOBUTYL-3-NITROSOTHIAZOLIDINE
TOXICITY DATA with REFERENCE:
mmo-sat 1 mg/L JAFCAU 28,62,80
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also N-NITROSO COMPOUNDS.

NKO000 CAS: 6238-69-3 HR: D
N-NITROSOISONIPECTOIC ACID
mf: $C_6H_{10}N_2O_3$ mw: 158.18
SYN: 1-NITROSO-4-PIPERIDINECARBOXYLIC ACID
TOXICITY DATA with REFERENCE:
mma-sat 5 mmol/L MUREAV 57,85,78
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKO400 CAS: 71752-69-7 HR: 3
NITROSOISOPROPANOLUREA
mf: $C_4H_9N_3O_3$ mw: 147.16
SYNS: 1-(2-HYDROXYPROPYL)-1-NITROSOUREA □ NITROSO-2-HYDROXY-N-PROPYLUREA □ N-NITROSO-2-HYDROXY-N-PROPYLUREA
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 68,1,79
mma-sat 1 µg/plate TCMUE9 1,13,84
dnd-mam:lym 10 mmol/L CBINA8 48,169,84
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKO425 CAS: 16830-14-1 HR: 2
NITROSOISOPROPYLUREA
mf: $C_4H_9N_3O_2$ mw: 131.16
SYNS: 1-ISOPROPYL-1-NITROSOUREA □ N-(1-METHYL-ETHYL)-N-NITROSO-UREA (9CI)
TOXICITY DATA with REFERENCE:
mmo-sat 100 µg/plate TCMUE9 1,13,84
pic-esc 4 mg/L TCMUE9 1,91,84
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKO500 HR: D
NITROSO LINURON
mf: $C_9H_9Cl_2N_3O_2$ mw: 262.11
SYN: 3-(3,4-DICHLOROPHENYL)-1,1-DIMETHYL-3-NITROSOUREA
TOXICITY DATA with REFERENCE:
mmo-sat 1 µL/plate MUREAV 48,225,77
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also N-NITROSO COMPOUNDS.

NKO600 CAS: 73239-98-2 HR: 2
N-NITROSO-2-METHOXY-2,6-DIMETHYL-MORPHOLINE
mf: $C_7H_{14}N_2O_3$ mw: 174.23
SYN: 2,6-DIMETHYL-2-METHOXY-4-NITROSO-MORPHOLINE
TOXICITY DATA with REFERENCE:
mma-sat 200 nmol/plate JJIND8 64,157,80
bfa-ham/sat 100 mg/kg JJIND8 64,157,80
par-ham LDLo:1000 mg/kg CALEDQ 13,233,81
SAFETY PROFILE: Moderately toxic by parenteral route. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKO900 CAS: 108278-70-2 HR: 2
1-NITROSOMETHOXYETHYLUREA
mf: $C_4H_9N_3O_3$ mw: 147.16
SYNS: N-(2-METHOXYETHYL)-N-NITROSOUREA □ 1-(2-METHOXYETHYL)-1-NITROSOUREA □ NITROSO-2-METHOXYETHYLUREA □ UREA, N-(2-METHOXYETHYL)-N-NITROSO-
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate MUREAV 178,157,87
pic-esc 250 mg/L MUREAV 178,157,87
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NKP000 CAS: 53198-46-2 HR: D
N-NITROSO-N-METHYL-N-α-ACETOXYBENZYL-AMINE
mf: $C_{10}H_{12}N_2O_3$ mw: 208.24
SYNS: N-METHYL-N-(α-ACETOXYBENZYL)NITROSAMINE □ α-METHYLNITROSOAMINOBENZYL ALCOHOL ACETATE (ESTER)
TOXICITY DATA with REFERENCE:
mma-sat 250 ng/plate CALEDQ 2,305,77

msc-ham:lng 1 μmol/L GANNA2 73,517,82

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKP500 CAS: 52977-61-4 HR: D
o-(N-NITROSO-N-METHYL-β-ALANYL)-l-SERINE

mf: $C_7H_{13}N_3O_5$ mw: 219.23

TOXICITY DATA with REFERENCE:

dnr-esc 200 μg/disc CNREA8 34,1658,74

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKQ000 CAS: 16219-98-0 HR: 3
2-NITROSOMETHYLAMINOPYRIDINE

mf: $C_6H_7N_3O$ mw: 137.16

SYNS: 2-(METHYLNITROSAMINO)PYRIDINE □ N-METHYL-N-NITROSO-2-AMINOPYRIDINE □ N-NITROSO-N-METHYL-2-AMINOPYRIDINE

TOXICITY DATA with REFERENCE:

mma-sat 20 mmol/L CRNGDP 3,415,82

hma-mus/esc 60 mg/kg CRNGDP 3,415,82

orl-rat LD50:60 mg/kg JJIND8 62,153,79

SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKQ100 CAS: 16219-99-1 HR: 3
N-NITROSO-N-METHYL-4-AMINOPYRIDINE

mf: $C_6H_7N_3O$ mw: 137.16

SYNS: 4-NITROSOMETHYLAMINOPYRIDINE □ 4-PYRIDINAMINE, N-METHYL-N-NITROSO- □ PYRIDINE, 4-NITROSOMETHYLAMINO- □ PYRIDINE, 4-(METHYLNITROSAMINO)- □ N-METHYL-N-NITROSO-4-AMINOPYRIDINE

TOXICITY DATA with REFERENCE:

mic-sat 5 mmol/L CRNGDP 3,415,1982

orl-rat LD50:200 mg/kg JJIND8 62,153,1979

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

NKQ500 CAS: 13256-21-8 HR: 2
N-NITROSOMETHYLAMINOSULFOLANE

mf: $C_5H_{10}N_2O_3S$ mw: 178.23

SYNS: 3-(N-NITROSOMETHYLAMINO)SULFOLAN (GERMAN) □ TETRAHYDRO-N-METHYL-N-NITROSO-3-THIOPHENAMINE 1,1-DIOXIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:750 mg/kg ZEKBAI 69,103,67

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also N-NITROSO COMPOUNDS.

NKR000 CAS: 51542-33-7 HR: 3
N-NITROSO-N-METHYL-N′-(2-BENZOTHIAZOLYL)UREA

mf: $C_9H_8N_4OS$ mw: 220.27

SYNS: N-(2-BENZOTHIAZOLYL)-N'-METHYLN'NITROSOUREA □ N-METHYL-N-NITROSO-N'-(2-BENZOTHIAZOLYL)-HARNSTOFF (GERMAN) □ N-METHYL-N-NITROSO-N'-(2-BENZOTHIAZOLYL)-UREA □ N-NITROSOBENZTHIAZURON

TOXICITY DATA with REFERENCE:

slt-smc 4 mmol/L/16H MUREAV 22,121,74

orl-rat LDLo:500 mg/kg ZKKOBW 81,217,74

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of SO_x and NO_x. See also N-NITROSO COMPOUNDS.

NKR500 CAS: 62783-48-6 HR: 3
N-NITROSO-N-(2-METHYLBENZYL)METHYLAMINE

mf: $C_9H_{12}N_2O$ mw: 164.23

SYNS: N,o-DIMETHYL-N-NITROSOBENZYLAMINE □ N-NITROSO-N-(2-METHYLBENZYL)-METHYLAMIN (GERMAN)

TOXICITY DATA with REFERENCE:

orl-rat LD50:90 mg/kg ZKKOBW 88,231,77

SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKS000 CAS: 62783-49-7 HR: 2
N-NITROSO-N-(3-METHYLBENZYL)METHYLAMINE

mf: $C_9H_{12}N_2O$ mw: 164.23

SYNS: N,m-DIMETHYL-N-NITROSOBENZYLAMINE □ N-NITROSO-N-(3-METHYLBENZYL)-METHYLAMIN (GERMAN)

TOXICITY DATA with REFERENCE:

mma-sat 100 μg/plate JMCMAR 29,40,86

orl-rat LD50:600 mg/kg ZKKOBW 88,231,77

SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKS500 CAS: 62783-50-0 HR: 3
N-NITROSO-N-(4-METHYLBENZYL)METHYLAMINE

mf: $C_9H_{12}N_2O$ mw: 164.23

SYNS: N,p-DIMETHYL-N-NITROSOBENZYLAMINE □ N-NITROSO-N-(4-METHYLBENZYL)-METHYLAMIN (GERMAN)

TOXICITY DATA with REFERENCE:

mma-sat 500 μg/plate JMCMAR 26,309,83

orl-rat LD50:400 mg/kg ZKKOBW 88,231,77

SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKT000 CAS: 69112-99-8 HR: 2
NITROSOMETHYLBIS(CHLOROETHYL)UREA
mf: $C_6H_{11}Cl_2N_3O_2$ mw: 228.10
SYN: 1-NITROSO-1-METHYL-3,3-BIS-(2-CHLOROETHYL)UREA
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also NITROSO COMPOUNDS.

NKT090 CAS: 75016-36-3 HR: 2
NITROSOMETHYL-d³-n-BUTYLAMINE
mf: $C_5H_9D_3N_2O$ mw: 119.19
SYN: NMBA-d3
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NKT100 CAS: 75016-34-1 HR: 2
N-NITROSO-N-METHYL-N-n-BUTYL-1-d²-AMINE
SYN: NMBA-d2
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NKT500 CAS: 5432-28-0 HR: 3
N-NITROSO-N-METHYLCYCLOHEXYLAMINE
mf: $C_7H_{14}N_2O$ mw: 142.23
SYNS: METHYLCYCLOHEXYLNITROSAMIN (GERMAN) □ METHYLCYCLOHEXYLNITROSAMINE □ N-METHYL-N-NITROSOCYCLOHEXYLAMINE □ N-NITROSOMETHYL-CYCLOHEXYLAMINE
TOXICITY DATA with REFERENCE:
mma-sat 1 µg/plate MUREAV 51,319,78
pic-esc 100 mg/L TCMUE9 1,91,84
orl-rat LD50:30 mg/kg ZEKBAI 69,103,67
ipr-rat LD50:28 mg/kg TXAPA9 17,426,70
ivn-rat LD50:30 mg/kg ZEKBAI 69,103,67
orl-mus LD50:57 mg/kg TXAPA9 17,426,70
orl-ham LD50:168 mg/kg TXAPA9 17,426,70
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKU000 CAS: 55090-44-3 HR: 3
NITROSOMETHYL-n-DODECYLAMINE
mf: $C_{13}H_{28}N_2O$ mw: 228.43
SYNS: N-METHYL-N-NITROSOLAURYLAMINE □ N-NITROSO-N-METHYL-N-DODECYLAMIN (GERMAN) □ N-NITROSO-N-METHYL-N-DODECYLAMINE □ NMDDA
TOXICITY DATA with REFERENCE:
mma-sat 1 µg/plate MUREAV 51,319,78
orl-ham LD50:930 mg/kg ZKKOBW 90,227,77
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKU350 CAS: 26921-68-6 HR: 2
N-NITROSOMETHYLETHANOLAMINE
mf: $C_3H_8N_2O_2$ mw: 104.13
SYNS: METHYL-2-HYDROXYETHYLNITROSAMINE □ METHYL-2-HYDROXYETHYLNITROSOAMINE □ 2-(METHYL-NITROSOAMINO)ETHANOL □ N-NITROSOMETHYL-(2-HYDROXYETHYL)AMINE
TOXICITY DATA with REFERENCE:
dnd-rat-orl 30 µmol/kg PAACA3 27,105,86
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NKU370 CAS: 72479-13-1 HR: 2
1-NITROSO-1-METHYL-3-ETHYLUREA
mf: $C_4H_9N_3O_2$ mw: 131.16
SYNS: N'-ETHYL-N-METHYL-N-NITROSOUREA □ UREA, N'-ETHYL-N-METHYL-N-NITROSO-
TOXICITY DATA with REFERENCE:
mic-sat 1 mg/plate MUREAV 178,157,87
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NKU400 CAS: 28538-70-7 HR: 2
NITROSOMETHYL-n-HEXYLAMINE
mf: $C_7H_{16}N_2O$ mw: 144.25
SYNS: N-METHYL-N-NITROSO-1-HEXANAMINE □ N-METHYL-N-NITROSOHEXYLAMINE □ NITROSO-n-HEXYLMETHYLAMINE
TOXICITY DATA with REFERENCE:
mma-sat 10 µg/plate TCMUE9 1,13,84
pic-esc 50 mg/L TCMUE9 1,91,84
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKU420 CAS: 66398-63-8 HR: 2
N-NITROSOMETHYL-(2-HYDROXYETHYL)-AMINE p-TOLUENESULFONATE ESTER
mf: $C_{10}H_{14}N_2O_4S$ mw: 258.32
SYNS: ETHANOL, 2-(METHYLNITROSOAMINO)-, 4-METHYL-BENZENESULFONATE (ESTER) □ 2-(METHYLNITROSO-AMINO)ETHANOL 4-METHYLBENZENESULFONATE (ESTER)
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NKU500 CAS: 75411-83-5 HR: 2
N-NITROSOMETHYL-(2-HYDROXYPROPYL)-AMINE
mf: $C_4H_{10}N_2O_2$ mw: 118.16
SYNS: 2-HYDROXYPROPYLMETHYLNITROSAMINE □ 1-(METHYLNITROSOAMINO)-2-PROPANOL □ MHP □ NMHP

TOXICITY DATA with REFERENCE:
mmo-sat 500 µg/plate TCMUE9 1,13,84
dns-rat:lvr 1 mmol/L MUREAV 144,197,85
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKU520 CAS: 70415-59-7 HR: 2
N-NITROSOMETHYL-(3-HYDROXYPROPYL)-AMINE
mf: $C_4H_{10}N_2O_2$ mw: 118.16
SYNS: 3-(METHYLNITROSOAMINO)-1-PROPANOL □ 1-PROPANOL, 3-(METHYLNITROSOAMINO)-
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic vapors of NO_x.

NKU550 CAS: 75881-16-2 HR: 2
NITROSO-2-METHYLMORPHOLINE
mf: $C_5H_{10}N_2O_2$ mw: 130.17
SYNS: 2-METHYL-4-NITROSOMORPHOLINE □ N-NITROSO-2-METHYLMORPHOLINE
TOXICITY DATA with REFERENCE:
mmo-sat 1 mg/plate TCMUD8 1,295,80
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKU570 CAS: 31820-22-1 HR: 2
NITROSOMETHYLNEOPENTYLAMINE
mf: $C_6H_{14}N_2O$ mw: 130.22
SYNS: NMNA □ N,2,2-TRIMETHYL-N-NITROSO-1-PROPYLAMINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NKU580 CAS: 75881-19-5 HR: 2
NITROSO-N-METHYL-n-NONYLAMINE
mf: $C_{10}H_{22}N_2O$ mw: 186.34
SYNS: NITROSOMETHYL-n-NONYLAMINE □ N-NITROSO-METHYL-n-NONYLAMINE □ 1-NONYLAMINE, N-METHYL-N-NITROSO-
TOXICITY DATA with REFERENCE:
mma-sat 25 µg/plate TCMUD8 1,295,80
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NKU590 CAS: 34423-54-6 HR: 2
NITROSO-N-METHYL-n-OCTYLAMINE
mf: $C_9H_{20}N_2O$ mw: 172.31
SYNS: N-METHYL-N-NITROSOOCTYLAMINE □ NITROSO-METHYL-n-OCTYLAMINE □ N-NITROSOMETHYL-n-OCTYLAMINE □ 1-OCTYLAMINE, N-METHYL-N-NITROSO-
TOXICITY DATA with REFERENCE:
mma-sat 50 µg/plate TCMUD8 1,295,80
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NKU600 CAS: 39884-53-2 HR: 2
NITROSO-2-METHYL-1,3-OXAZOLIDINE
mf: $C_4H_8N_2O_2$ mw: 116.14
SYNS: 2-METHYL-3-NITROSO-1,3-OXAZOLIDINE □ N-NITROSO-2-METHYL-1,3-OXAZOLIDINE
TOXICITY DATA with REFERENCE:
mmo-sat 500 µg/plate TCMUD8 1,295,80
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKU875 CAS: 35631-27-7 HR: 3
NITROSO-5-METHYLOXAZOLIDONE
mf: $C_4H_8N_2O_2$ mw: 116.14
SYNS: 5-METHYL-3-NITROSO-1,3-OXAZOLIDINE □ NITROSO-5-METHYL-1,3-OXAZOLIDINE □ N-NITROSO-5-METHYL-1,3-OXAZOLIDINE
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate TCMUE9 1,13,84
mma-sat 5 µg/plate TCMUE9 1,13,84
pic-esc 10 mg/L TCMUE9 1,91,84
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKV000 CAS: 55984-51-5 HR: 3
N-NITROSOMETHYL-2-OXOPROPYLAMINE
mf: $C_4H_8N_2O_2$ mw: 116.14
SYNS: 1-(METHYLNITROSOAMINO)2-PROPANONE □ MOP □ NMOP
TOXICITY DATA with REFERENCE:
dnd-rat-ipr 60 mg/kg CRNGDP 5,565,84
dns-rat:lvr 100 µmol/L MUREAV 144,197,85
scu-ham LD50:35,400 µg/kg CNREA8 40,3585,80
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Poison by subcutaneous route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKV050 CAS: 85502-23-4 HR: 2
N-NITROSO-N-METHYL-N-OXOPROPYLAMINE
mf: $C_4H_8N_2O_2$ mw: 116.14
SYNS: 3-(METHYLNITROSAMINO)PROPIONALDEHYDE □ 3-(N-NITROSOMETHYLAMINO)PROPIONALDEHYDE □ PROPANAL, 3-(METHYLNITROSOAMINO)-
TOXICITY DATA with REFERENCE:
mic-bac-esc 10 mmol/L CRNGDP 12,1161,91
dnd-hmn-oth 300 µmol/L CNREA8 49,5294,89
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal No Adequate Data IMEMDT 37,263,85; Human No Adequate Data IMEMDT 37,263,85.

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

NKV100 HR: 3
N-NITROSOMETHYLPENTYLNITROSAMINE
mf: $C_6H_{13}N_3O_2$ mw: 159.22
SYNS: MPN □ N-NITROSO-N-(NITROSOMETHYL)-PENTYLAMINE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:50 mg/kg SACAB7 25,66,81
orl-mky LDLo:142 mg/kg SACAB7 25,66,81
SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKV500 CAS: 68426-46-0 HR: 2
NITROSOMETHYLPHENYLCARBAMATE
mf: $C_8H_8N_2O_3$ mw: 180.18
SYNS: N-METHYL-N-NITROSOCARBAMIC ACID, PHENYL ESTER □ N-NITROSO-N-METHYLPHENYLCARBAMATE □ PHENYL METHYLNITROSOCARBAMATE
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 68,1,79
mma-sat 5 µg/plate TCMUE9 1,13,84
pic-esc 100 µg/L TCMUE9 1,91,84
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.

NKW000 CAS: 68690-89-1 HR: 2
N-NITROSO-N-METHYL-1-(1-PHENYL)ETHYL-AMINE
mf: $C_9H_{12}N_2O$ mw: 164.23
SYNS: α,N-DIMETHYL-N-NITROSOBENZYLAMINE □ N-METHYL-N-NITROSO-1-PHENYLETHYLAMINE □ N-NITROSO-N-METHYL-(1-PHENYL)-ETHYLAMIN (GERMAN)
TOXICITY DATA with REFERENCE:
orl-rat TDLo:610 mg/kg/59W-C:ETA ZKKOBW 92,235,78
orl-rat LD50:600 mg/kg ZKKOBW 92,235,78
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKW500 CAS: 16339-07-4 HR: 3
1-NITROSO-4-METHYLPIPERAZINE
mf: $C_5H_{11}N_3O$ mw: 129.19
SYNS: N'-METHYL-N-NITROSOPIPERAZINE □ 1-METHYL-4-NITROSOPIPERAZINE □ N-NITROSO-N'-METHYLPIPERAZIN (GERMAN) □ N-NITROSO-N'-METHYLPIPERAZINE
TOXICITY DATA with REFERENCE:
mma-sat 50 nmol/plate MUREAV 57,1,78
mma-smc 50 µmol/plate MUREAV 77,143,80
orl-rat LD50:100 mg/kg ZEKBAI 69,103,67
SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NKW800 CAS: 75881-20-8 HR: 2
N-NITROSO-N-METHYL-n-TETRADECYLAMINE
mf: $C_{15}H_{32}N_2O$ mw: 256.49
TOXICITY DATA with REFERENCE:
mma-sat 50 µg/plate MUREAV 111,135,83
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NKX000 CAS: 57117-24-5 HR: 2
NITROSO-2-METHYLTHIOPROPIONALDEHYDE-o-METHYL CARBAMOYL-OXIME
mf: $C_5H_9N_3O_3S$ mw: 191.23
SYNS: N-((METHYLNITROSOCARBAMOYL)OXY)-2-METHYL-THIOACETIMIDIC ACID □ NITROSO-METHOMYL
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate TCMUE9 1,13,84
dnd-hmn:fbr 10 µmol/L MUREAV 44,1,77
orl-rat TDLo:500 mg/kg/10W-I:CAR EESADV 2,413,78
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also NITROSO COMPOUNDS.

NKX300 CAS: 819-35-2 HR: 2
NITROSOMETHYL-2-TRIFLUOROETHYLAMINE
mf: $C_3H_5F_3N_2O$ mw: 142.10
TOXICITY DATA with REFERENCE:
mmo-sat 250 µg/plate TCMUD8 1,295,80
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of F^- and NO_x. See also NITROSO COMPOUNDS and AMINES.

NKX500 CAS: 68107-26-6 HR: 2
NITROSOMETHYLUNDECYLAMINE
mf: $C_{12}H_{26}N_2O$ mw: 214.40
SYN: N-METHYL-N-NITROSOUNDECYLAMINE
TOXICITY DATA with REFERENCE:
mma-sat 1 µg/plate MUREAV 51,319,78
orl-rat TDLo:5600 mg/kg/30W-I:CAR CALEDQ 5,209,78
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKY000 CAS: 4549-40-0 HR: 3
N-NITROSOMETHYLVINYLAMINE
mf: $C_3H_6N_2O$ mw: 86.11

SYNS: N-METHYL-N-NITROSO-ETHENYLAMINE □ N-METHYL-N-NITROSOVINYLAMINE □ METHYLVINYL-NITROSAMIN (GERMAN) □ METHYLVINYLNITROSAMINE □ MVNA □ NMVA □ RCRA WASTE NUMBER P084

TOXICITY DATA with REFERENCE:
orl-rat LD50:24 mg/kg ZEKBAI 69,103,67
ihl-rat LD50:22 mg/kg ZEKBAI 69,103,67

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 17,257,78; Human Limited Evidence IMEMDT 17,257,78. Community Right-To-Know List. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen with experimental tumorigenic data. Poison by ingestion and inhalation. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NKY500 CAS: 102433-74-9 HR: D
NITROSOMETOXURON
mf: $C_{10}H_{12}ClN_3O_3$ mw: 257.70

SYN: 3-(3-CHLORO-4-METHOXYPHENYL)-1,1-DIMETHYL-3-NITROSOUREA

TOXICITY DATA with REFERENCE:
mmo-sat 1 µL/plate MUREAV 48,225,77

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also N-NITROSO COMPOUNDS.

NKZ000 CAS: 59-89-2 HR: 3
4-NITROSOMORPHOLINE
mf: $C_4H_8N_2O_2$ mw: 116.14

SYNS: N-NITROSOMORPHOLIN (GERMAN) □ NITROSO-MORPHOLINE □ N-NITROSOMORPHOLINE (MAK) □ NMOR

TOXICITY DATA with REFERENCE:
slt-dmg-orl 210 µmol/kg MUREAV 144,177,85
dns-hmn:fbr 160 µg/L PMRSDJ 1,528,81
orl-mus TDLo:3140 mg/kg/28W-C:NEO JNCIAM 46,1029,71
orl-rat TD:180 mg/kg/I:ETA,REP ZEKBAI 66,1,64
orl-rat LD50:282 mg/kg NATWAY 48,134,61
ipr-rat LD50:282 mg/kg BJIMAG 19,276,62
scu-rat LD50:170 mg/kg ZKKOBW 80,17,73
ivn-rat LD50:98 mg/kg ZEKBAI 69,103,67
ihl-mus LCLo:1000 mg/m^3/10M NDRC** NDCrc-132,Sept,42
ipr-mus LD50:64 mg/kg PMRSDJ 1,682,81
orl-ham LD50:956 mg/kg CALEDQ 17,333,83
scu-ham LD50:491 mg/kg ZEKBAI 81,251,74

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 17,263,78; Human Limited Evidence IMEMDT 17,263,78. Community Right-To-Know List. EPA Genetic Toxicology Program.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. Moderately toxic by inhalation. Human mutation data reported. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #27 or NIOSH: Nitrosamines 2522.

NLA000 CAS: 21711-65-9 HR: 2
1-NITROSONAPHTHALENE
mf: $C_{10}H_7NO$ mw: 157.18

PROP: Pale-yellow crystals from Me_2CO. Mp: 98° (decomp).

TOXICITY DATA with REFERENCE:
mma-sat 1 µg/plate MUREAV 94,315,82

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLA500 CAS: 6610-08-8 HR: 2
2-NITROSONAPHTHALENE
mf: $C_{10}H_7NO$ mw: 157.18

TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate PNASA6 69,3128,72
mma-sat 100 µg/plate PNASA6 72,5135,75
dni-sat 100 µmol/L CNREA8 34,3102,74
pic-sat 100 µmol/L/2M CNREA8 34,3102,74

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Mutation data reported. Many nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLB000 CAS: 131-91-9 HR: 2
1-NITROSO-2-NAPHTHOL
mf: $C_{10}H_7NO_2$ mw: 173.18

PROP: Orange prisms or plates from EtOH, or C_6H_6. Mp: 109.5°. Sol in AcOH.

SYNS: C.I. 10000 □ α-NITROSO-β-NAFTOL □ 1-NITROSO-2-NAFTOL □ NITROSO-β-NAPHTHOL □ α-NITROSO-β-NAPHTHOL □ ZELEN MORIDLOVA 4

TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate ENMUDM 3,499,81
dnr-bcs 10 mmol/L JNSVA5 25,317,79
orl-rat LDLo:500 mg/kg NCNSA6 5,35,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion. Many nitroso compounds are carcinogens. Ignites when heated to 124°C. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLB500 CAS: 132-53-6 HR: 2
2-NITROSO-1-NAPHTHOL
mf: $C_{10}H_7NO_2$ mw: 173.18

PROP: Yellow needles from H_2O or C_6H_6. Sol in AcOH, EtOH and alkalies.

TOXICITY DATA with REFERENCE:
orl-rat LD:>500 mg/kg NCNSA6 5,35,53
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Many nitroso compounds are carcinogens. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLB700 HR: 3
1-NITROSO-2-NITROAMINO-2-IMIDAZOLINE
mf: $C_3H_5N_5O_3$ mw: 159.13
SYNS: 4,5-DIHYDRO-N-NITRO-1-NITROSO-1H-IMIDAZOL-2-AMINE □ NSC-25958
TOXICITY DATA with REFERENCE:
orl-mus LD50:624 mg/kg NCISP* JAN86
ipr-mus LD50:249 mg/kg NCISP* JAN86
scu-mus LD50:175 mg/kg NCISP* JAN86
SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. Moderately toxic by ingestion. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLC000 CAS: 13010-08-7 HR: 2
1-NITROSO-3-NITRO-1-BUTYLGUANIDINE
mf: $C_5H_{11}N_5O_3$ mw: 189.21
SYNS: N-BUTYL-N'-NITRO-N-NITROSOGUANIDINE □ N-NITROSO-N'-NITRO-N-BUTYLGUANIDINE □ NSC-24639
TOXICITY DATA with REFERENCE:
mmo-sat 100 nmol/plate IDZAAW 50,403,75
mmo-omi 500 ppm SOGEBZ 11,183,75
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLC500 CAS: 13010-10-1 HR: 2
1-NITROSO-3-NITRO-1-PENTYLGUANIDINE
mf: $C_6H_{13}N_5O_3$ mw: 203.24
SYNS: N-(n-AMYL)-N'-NITRO-N-NITROSOGUANIDINE □ GUANIDINE, N'-NITRO-N-NITROSO-N-PENTYL- □ NSC-34699 □ 1-PENTYL-3-NITRO-1-NITROSOGUANIDINE
TOXICITY DATA with REFERENCE:
mmo-sat 100 nmol/plate IDZAAW 50,403,75
mmo-esc 5 mg/L ESKHA5 88,118,70
pic-esc 10 mg/L ESKHA5 88,118,70
dnr-smc 2 µmol/well IDZAAW 50,403,75
cyt-ham:fbr 30 mg/L/24H MUREAV 48,337,77
cyt-ham:lng 16 mg/L GMCRDC 27,95,81
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLC600 CAS: 111955-14-7 HR: D
N-NITROSO-N-p-NITROPHENYL-d-RIBOSYL-AMINE
mf: $C_{11}H_{13}N_3O_7$ mw: 299.27
SYNS: N-(p-NITROPHENYL)-N-NITROSO-d-RIBOPYRANOSYLAMINE □ d-RIBOPYRANOSYLAMINE, N-(p-NITROPHENYL)-N-NITROSO-
TOXICITY DATA with REFERENCE:
mic-sat 500 ug/plate FCTOD7 25,669,1987
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NLD000 CAS: 71598-10-2 HR: 2
3-NITROSO-1-NITRO-1-PROPYLGUANIDINE
mf: $C_4H_9N_5O_3$ mw: 175.18
SYNS: NSC-33674 □ PNNG □ N-PROPYL-N'-NITRO-N-NITROSOGUANIDINE
TOXICITY DATA with REFERENCE:
mmo-sat 300 nmol/L ENMUDM 3,11,81
dns-rat-orl 1 g/kg BANRDU 13,123,82
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and NITRO COMPOUNDS.

NLD500 CAS: 16543-55-8 HR: 3
N′-NITROSONORNICOTINE
mf: $C_9H_{11}N_3O$ mw: 177.23
SYNS: NICOTINE, 1'-NITROSO-1'-DEMETHYL- □ 1'-NITROSO-1'-DEMETHYLNICOTINE □ 1-NITROSO-2-(3-PYRIDYL)PYRROLIDINE □ 3-(1-NITROSO-2-PYRROLIDINYL)-PYRIDINE □ PYRIDINE, 3-(1-NITROSO-2-PYRROLIDINYL)-, (S)-
TOXICITY DATA with REFERENCE:
mma-sat 50 µg/plate MUREAV 40,19,76
dnd-rat-ivn 360 µg/kg CNREA8 42,2877,82
ipr-mus LD50:1 g/kg CALEDQ 46,173,89
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 17,281,78; Human Limited Evidence IMEMDT 17,281,78. Community Right-To-Know List. EPA Genetic Toxicology Program.
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Low toxicity by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLD525 HR: 2
N′-NITROSONORNICOTINE-1-N-OXIDE
mf: $C_9H_{11}N_3O_2$ mw: 193.23
SYNS: NICOTINE, 1'-DEMETHYL-1'-NITROSO-, 1-OXIDE □ NNN-1-N-OXIDE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NLD800 CAS: 18207-29-9 HR: 2
1-NITROSO-1-OCTYLUREA

mf: $C_9H_{19}N_3O_2$ mw: 201.31
SYN: n-OCTYL NITROSUREA
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NLE000 CAS: 39884-52-1 HR: 3
N-NITROSOOXAZOLIDINE
mf: $C_3H_6N_2O_2$ mw: 102.11
SYNS: N-NITROSOOXAZOLIDIN (GERMAN) □ N-NITROSO-1,3-OXAZOLIDINE □ 3-NITROSOOXAZOLIDINE □ NITROSOOXAZOLIDONE
TOXICITY DATA with REFERENCE:
mmo-sat 2500 ng/plate TCMUE9 1,13,84
mma-sat 1 µg/plate TCMUE9 1,13,84
pic-esc 100 mg/L TCMUE9 1,191,84
orl-rat LD50:1500 mg/kg ZKKOBW 88,25,76
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLE400 CAS: 77698-20-5 HR: 3
N-NITROSO(2-OXOBUTYL)(2-OXOPROPYL)-AMINE
mf: $C_7H_{12}N_2O_3$ mw: 172.21
SYN: OBOB
TOXICITY DATA with REFERENCE:
scu-ham LD50:174 mg/kg CALEDQ 12,223,81
SAFETY PROFILE: Poison by subcutaneous route. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NLE440 CAS: 110559-85-8 HR: 2
1-NITROSO-1-OXOPROPYL-3-CHLORO-ETHYLUREA
mf: $C_6H_{10}ClN_3O_3$ mw: 207.64
SYNS: N'-(2-CHLOROETHYL)-N-NITROSO-N-(2-OXOPROPYL)UREA □ UREA, N'-(2-CHLOROETHYL)-N-NITROSO-N-(2-OXOPROPYL)-
TOXICITY DATA with REFERENCE:
mic-sat 50 µg/plate MUREAV 178,157,87
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

NLE500 CAS: 61734-86-9 HR: 2
N-NITROSO-N-PENTYL-(4-HYDROXYBUTYL)-AMINE
mf: $C_9H_{20}N_2O_2$ mw: 188.31
SYNS: N-PENTYL-N-(4-HYDROXYBUTYL)NITROSAMINE □ 4-(PENTYLNITROSAMINO)-1-BUTANOL
TOXICITY DATA with REFERENCE:
mma-sat 10 µmol/plate CNREA8 37,399,77
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLE550 HR: 3
N-NITROSOPHENACETIN
mf: $C_{10}H_{12}N_2O_3$ mw: 208.24
TOXICITY DATA with REFERENCE:
mmo-sat 100 ng/plate JJIND8 72,863,84
mma-sat 100 ng/plate JJIND8 72,863,84
mmo-omi 5 µg/plate JJIND8 72,863,84
orl-rat LD50:21 mg/kg JJIND8 72,863,84
SAFETY PROFILE: Poison by ingestion. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLF000 CAS: 38241-20-2 HR: D
2-NITROSOPHENANTHRENE
mf: $C_{14}H_9NO$ mw: 207.24
TOXICITY DATA with REFERENCE:
mmo-sat 5 µg/plate PNASA6 69,3128,72
SAFETY PROFILE: Mutation data reported. Many nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLF200 CAS: 104-91-6 HR: 3
NITROSOPHENOL
mf: $C_6H_5NO_2$ mw: 123.12
PROP: Pale-yellow, orthorhombic needles. Mp: 144° (decomp). Sltly sol in water; sol in dilute alkalies, alc, ether, and acetone.
SYNS: p-NITROSOPHENOL □ 4-NITROSOPHENOL □ QUINONE MONOXIME □ QUINONE OXIME
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate FCTXAV 18,523,80
cyt-rat :lvr 750 µg/L MUREAV 153,57,85
ipr-mus LDLo:250 mg/kg CBCCT* 6,148,54
par-mus LDLo:200 mg/kg CBCCT* 7,692,55
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by parenteral and intraperitoneal routes. Mutation data reported. An irritant and sensitizer. Many nitroso compounds are carcinogens. A very dangerous fire and explosion hazard. When exposed to heat or flame, it burns explosively. Contamination by acid or alkali may cause ignition. Can heat spontaneously and cause fire. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLF300 CAS: 13168-78-0 HR: 3
2-NITROSOPHENOL
mf: $C_6H_5NO_2$ mw: 123.11
PROP: Green needles from pet ether.
SYN: 1,2-BENZOQUINONE MONOXIME
SAFETY PROFILE: Many nitroso compounds are carcinogens. Explodes when heated or on contact with concentrated acids. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLG000 CAS: 777-79-7 HR: D
NITROSOPHENYLETHYLUREA
mf: $C_9H_{11}N_3O_2$ mw: 193.23
SYNS: 1-NITROSO-1-PHENETHYLUREA ◻ N-NITROSO-N-(2-PHENYLETHYL)UREA
TOXICITY DATA with REFERENCE:
mma-sat 10 µg/plate TCMUE9 1,13,84
pic-esc 2 mg/L TCMUE9 1,91,84
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLG500 CAS: 6268-32-2 HR: 3
NITROSOPHENYLUREA
mf: $C_7H_7N_3O_2$ mw: 165.17
SYNS: N-NITROSO-N-PHENYLUREA ◻ PHENYL-NITROSO-HANRSTOFF (GERMAN) ◻ N-PHENYL-N-NITROSOUREA
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate TCMUE9 1,13,84
mma-sat 10 µg/plate TCMUE9 1,13,84
scu-rat LD50:150 mg/kg ZEKBAI 71,63,68
SAFETY PROFILE: Poison by subcutaneous route. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLH000 CAS: 13256-23-0 HR: 3
N-NITROSO-4-PICOLYLETHYLAMINE
mf: $C_8H_{11}N_3O$ mw: 165.22
SYNS: AETHYL-4-PICOLYLNITROSAMIN (GERMAN) ◻ 4-((ETHYLNITROSAMINO)METHYL)PYRIDINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:40 mg/kg ZEKBAI 69,103,67
ivn-rat LD50:35 mg/kg ZEKBAI 69,103,67
SAFETY PROFILE: Poison by ingestion and intravenous routes. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NLH500 CAS: 4515-18-8 HR: 3
1-NITROSOPIPECOLIC ACID
mf: $C_6H_{10}N_2O_3$ mw: 158.18
SYNS: N-NITROSOPIPECOLIC ACID ◻ 1-NITROSO-2-PIPERIDINECARBOXYLIC ACID
TOXICITY DATA with REFERENCE:
mma-sat 5 µmol/plate MUREAV 57,85,78
sce-hmn:lym 10 mmol/L TCMUE9 1,129,84
ipr-mus LD50:203 mg/kg JMCMAR 16,583,73
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intraperitoneal route. Human mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLI000 CAS: 7247-89-4 HR: 2
1-NITROSO-2-PIPECOLINE
mf: $C_6H_{12}N_2O$ mw: 128.20
SYN: 2-METHYLNITROSOPIPERIDINE
TOXICITY DATA with REFERENCE:
sln-dmg-orl 5 mmol/L/24H MUREAV 67,27,79
mma-smc 50 mmol/L/24H MUREAV 57,155,78
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLI500 CAS: 14026-03-0 HR: 2
R(−)-N-NITROSO-α-PIPECOLINE
mf: $C_6H_{12}N_2O$ mw: 128.20
SYNS: R(−)-N-NITROSO-2-METHYL-PIPERIDIN (GERMAN) ◻ R(−)-N-NITROSO-2-METHYLPIPERIDINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:600 mg/kg ZKKOBW 79,118,73
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLJ000 CAS: 36702-44-0 HR: 2
S(+)-N-NITROSO-α-PIPECOLINE
mf: $C_6H_{12}N_2O$ mw: 128.20
SYNS: S(+)-N-NITROSO-2-METHYL-PIPERIDIN (GERMAN) ◻ S(+)-N-NITROSO-2-METHYLPIPERIDINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:600 mg/kg ZKKOBW 79,118,73
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLJ500 CAS: 100-75-4 HR: 3
N-NITROSOPIPERIDINE
mf: $C_5H_{10}N_2O$ mw: 114.17
PROP: Light-yellow oil. D: 1.063 @ 18.5°/4°, bp: 217−218°. Sol in water; very sol in acid solns.
SYNS: NITROSOPIPERIDIN ◻ N-NITROSO-PIPERIDIN ◻ 1-NITROSOPIPERIDINE ◻ N-N-PIP ◻ NO-Pip ◻ NPIP ◻ PYRIDINE, HEXAHYDRO-N-NITROSO- ◻ RCRA WASTE NUMBER U179 ◻ TL 266
TOXICITY DATA with REFERENCE:
trn-dmg-orl 425 ppm ENMUDM 7,349,85
sce-hmn:lym 10 mmol/L TCMUE9 1,129,84
scu-ham TDLo:100 mg/kg (14D preg):NEO,TER ZKKOBW 90,71,77
orl-rat LD50:200 mg/kg ZEKBAI 69,103,67
scu-rat LD50:100 mg/kg ZKKOBW 80,17,73
ivn-rat LD50:60 mg/kg ZEKBAI 69,103,67
orl-ham LD50:617 mg/kg CALEDQ 21,219,83
scu-ham LD50:324 mg/kg ZKKOBW 81,251,74
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Human Limited Evidence IMEMDT 17,287,78; Animal Sufficient Evidence IMEMDT 17,287,78; IMEMDT 28,151,82. Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by ingestion, intravenous, and subcutaneous routes. An experimental teratogen. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #27 or NIOSH: Nitrosamines, 2522.

NLK000 CAS: 55556-85-9 HR: 2
NITROSO-3-PIPERIDINOL
mf: $C_5H_{10}N_2O_2$ mw: 130.17
SYNS: N-NITROSO-3-HYDROXYPIPERIDINE □ N-NITROSO-3-PIPERIDINOL
TOXICITY DATA with REFERENCE:
mma-sat 1 µmol/plate MUREAV 56,131,77
sce-hmn:lym 10 mmol/L TCMUE9 1,129,84
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Human mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLK500 CAS: 55556-93-9 HR: 2
NITROSO-4-PIPERIDINOL
mf: $C_5H_{10}N_2O_2$ mw: 130.17
TOXICITY DATA with REFERENCE:
mma-sat 1 µmol/plate MUREAV 56,131,77
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLL000 CAS: 55556-91-7 HR: 2
NITROSO-4-PIPERIDONE
mf: $C_5H_8N_2O_2$ mw: 128.15
SYNS: N-NITROSO-4-PIPERIDINONE □ NITROSO-4-PIPERIDINONE □ 1-NITROSO-4-PIPERIDONE
TOXICITY DATA with REFERENCE:
mma-sat 250 µg/plate TCMUE9 1,13,84
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and KETONES.

NLL500 CAS: 7519-36-0 HR: 3
1-NITROSO-l-PROLINE
mf: $C_5H_8N_2O_3$ mw: 144.15
SYNS: N-NITROSO-l-PROLINE □ NO-Pro □ NPRO
TOXICITY DATA with REFERENCE:
ipr-mus LD50:203 mg/kg JMCMAR 16,583,73
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 17,303,78.
SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental tumorigenic data. Many nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLM000 CAS: 67809-15-8 HR: D
N-NITROSO-N-PROPYLACETAMIDE
mf: $C_5H_{10}N_2O_2$ mw: 130.17
SYN: N-NITROSO-N(N-PROPYL)ACETAMIDE
TOXICITY DATA with REFERENCE:
mma-sat 200 nmol/plate/48H CNREA8 39,1328,79
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLM500 CAS: 39603-53-7 HR: 3
1-(NITROSOPROPYLAMINO)-2-PROPANOL
mf: $C_6H_{14}N_2O_2$ mw: 146.22
SYNS: 2-HPPN □ β-HPPN □ β-HYDROXYPROPYLPROPYLNITROSAMINE □ (2-HYDROXY-PROPYL)PROPYLNITROSOAMINE □ N-NITROSO-2-HYDROXY-n-PROPYL-n-PROPYLAMINE
TOXICITY DATA with REFERENCE:
mma-sat 500 nmol/plate ZKKOBW 86,293,76
scu-ham TDLo:100 mg/kg/(14D preg):NEO,TER ZKKOBW 90,119,77
scu-rat LD50:1273 mg/kg JNCIAM 54,937,75
scu-mus LD50:1235 mg/kg ZKKOBW 91,189,78
scu-ham LD50:1500 mg/kg JNCIAM 52,1245,74
CONSENSUS REPORTS: IARC Cancer Review: Animal Sufficient Evidence IMEMDT 17,177,78.
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Moderately toxic by subcutaneous route. An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLN000 CAS: 51938-12-6 HR: 2
N-NITROSO-N-PROPYL-(4-HYDROXYBUTYL)-AMINE
mf: $C_7H_{16}N_2O_2$ mw: 160.25
SYNS: PHBN □ PROPYL(4-HYDROXYBUTYL)NITROSAMINE □ 4-(PROPYLNITROSAMINO)-1-BUTANOL
TOXICITY DATA with REFERENCE:
mma-sat 20 µmol/plate CNREA8 37,399,77
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLN500 CAS: 65792-56-5 HR: 3
N-NITROSO-N-PROPYLPROPIONAMIDE
mf: $C_6H_{12}N_2O_2$ mw: 144.20
SYNS: N-NITROSO-N-PROPYL-PROPRIONAMID (GERMAN) □ 1-OXOPROPYLPROPYLNITROSAMIN (GERMAN) □ 1-OXO-PROPYLPROPYLNITROSAMINE

TOXICITY DATA with REFERENCE:
scu-ham TDLo:125 mg/kg:ETA,REP ZKKOBW 90,221,77
scu-ham LD50:308 mg/kg ZKKOBW 90,221,77
SAFETY PROFILE: Poison by subcutaneous route. Experimental reproductive effects. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLO000 HR: D
3-NITROSO-2-PROPYLTHIAZOLIDINE
mf: $C_6H_{12}N_2OS$ mw: 160.26
SYNS: N-NITROSO-2-N-PROPYLTHIAZOLIDINE ◻ 2-PROPYL-N-NITROSOTHIAZOLIDINE
TOXICITY DATA with REFERENCE:
mmo-sat 1 mg/L JAFCAU 28,62,80
mma-sat 1 mg/L JAFCAU 28,62,80
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also N-NITROSO COMPOUNDS.

NLO500 CAS: 816-57-9 HR: 3
N-NITROSO-N-PROPYLUREA
mf: $C_4H_9N_3O_2$ mw: 131.16
SYNS: NITROSOPROPYLUREA ◻ NITROSO-N-PROPYLUREA ◻ NPU ◻ PNU ◻ N-PROPYLNITROSOHARNSTOFF (GERMAN) ◻ N-PROPYLNITROSOUREA ◻ 1-PROPYL-1-NITROSOUREA
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 68,1,79
cyt-ham:fbr 125 mg/L/48H MUREAV 48,337,77
cyt-ham:lng 68 mg/L GMCRDC 27,95,81
sce-ham:lng 1 g/L CNREA8 44,3270,84
par-rat TDLo:80 mg/kg (9D preg):TER IARCCD 4,112,73
orl-rat TDLo:120 mg/kg (19D preg):ETA,TER ARGEAR 40,99,72
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic, neoplastigenic, tumorigenic data. An experimental teratogen. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLP000 CAS: 29291-35-0 HR: 3
N-NITROSO-N-PTEROYL-l-GLUTAMIC ACID
mf: $C_{19}H_{18}N_8O_7$ mw: 470.45
SYNS: N-(p-(((2-AMINO-4-OXO-6-PTERIDINYL)METHYL)-N-NITROSOAMINO)BENZOYL)-l-GLUTAMIC ACID ◻ NITROSOFOLIC ACID
TOXICITY DATA with REFERENCE:
mma-sat 100 µg/plate BJCAAI 37,873,78
otr-ham:kdy 80 µg/L BJCAAI 37,873,78
ipr-mus LD50:327 mg/kg CNREA8 35,1981,75
CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 17,217,78.
SAFETY PROFILE: Poison by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLP375 CAS: 86674-51-3 HR: 2
1-NITROSOPYRENE
mf: $C_{16}H_{19}NO$ mw: 241.36
TOXICITY DATA with REFERENCE:
mmo-sat 500 ng/plate CNREA8 43,3132,83
dnd-hmn:fbr 900 nmol/L CRNGDP 7,1279,86
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NLP480 CAS: 35884-45-8 HR: 2
NITROSOPYRROLIDINE
mf: $C_4H_8N_2O$ mw: 100.14
SYN: PYRROLIDINE, NITROSO-
TOXICITY DATA with REFERENCE:
mma-sat 10 µg/plate TCMUE9 1,13,84
pic-esc 20 mg/L TCMUE9 1,91,84
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NLP500 CAS: 930-55-2 HR: 3
N-NITROSOPYRROLIDINE
mf: $C_4H_8N_2O$ mw: 100.14
SYNS: N-NITROSOPYRROLIDIN (GERMAN) ◻ 1-NITROSOPYRROLIDINE ◻ N-N-PYR ◻ NO-PYR ◻ NPYR ◻ RCRA WASTE NUMBER U180 ◻ TETRAHYDRO-N-NITROSOPYRROLE
TOXICITY DATA with REFERENCE:
mma-esc 7500 µmol/L IAPUDO 41,543,82
dnd-hmn:lng 100 µmol/plate JNCIAM 59,1401,77
orl-rat LD50:900 mg/kg ZEKBAI 69,103,67
orl-mus LD50:125 mg/kg 85DUA4 -,129,70
scu-mus LD50:125 mg/kg 85DUA4 -,129,70
orl-ham LD50:1023 mg/kg JCROD7 104,75,82
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 17,313,78; Human Limited Evidence IMEMDT 17,313,78. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Poison by ingestion and subcutaneous routes. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.
ANALYTICAL METHOD: For occupational chemical analysis use OSHA: #27 or NIOSH: Nitrosamines 2522.

NLP600 CAS: 54634-49-0 HR: 3
N-NITROSO-2-PYRROLIDINE
mf: $C_4H_6N_2O_2$ mw: 114.12

SYN: 1-NITROSO-2-PYRROLIDINONE

TOXICITY DATA with REFERENCE:
dnr-bcs 1500 µg/disc YKKZAJ 97,320,77
orl-mus LD50:291 mg/kg YKKZAJ 97,320,77

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLP700 CAS: 56222-35-6 HR: 2
1-NITROSO-3-PYRROLIDINOL
mf: $C_4H_8N_2O_2$ mw: 116.14

SYNS: 3-HYDROXYNITROSOPYRROLIDINE □ N-NITROSO-3-HYDROXYPYRROLIDINE

TOXICITY DATA with REFERENCE:
mma-sat 500 µg/plate MUREAV 89,35,81

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

NLP800 CAS: 84237-38-7 HR: 3
(+−)-3-(1-NITROSO-2-PYRROLIDINYL)PYRIDINE
mf: $C_9H_{11}N_3O$ mw: 177.23

SYNS: (+−)-1'-DIMETHYL-1'-NITROSONICOTINE □ (+−)-N'-NITROSONORNICOTINE □ PYRIDINE, 3-(1-NITROSO-2-PYRROLIDINYL)-, (+−)-

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Human No Adequate Data IMEMDT 37,241,85; Animal Sufficient Evidence IMEMDT 37,241,85.

SAFETY PROFILE: Confirmed carcinogen. When heated to decomposition it emits toxic vapors of NO_x.

NLQ000 CAS: 10552-94-0 HR: 2
N-NITROSO-3-PYRROLINE
mf: $C_4H_6N_2O$ mw: 98.12

SYNS: 2,5-DIHYDRO-1-NITROSO-1H-PYRROLE □ NITROSO-3-PYRROLIN (GERMAN)

TOXICITY DATA with REFERENCE:
mma-sat 1 µg/plate MUREAV 51,319,78

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLQ500 CAS: 1130-69-4 HR: 2
4-NITROSOQUINOLINE-1-OXIDE
mf: $C_9H_6N_2O_2$ mw: 174.17

TOXICITY DATA with REFERENCE:
mmo-esc 10 µmol/L CPBTAL 34,1755,86

SAFETY PROFILE: Many nitroso compounds are carcinogens. Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLR000 CAS: 3565-26-2 HR: 3
5-NITROSO-8-QUINOLINOL
mf: $C_9H_6N_2O_2$ mw: 174.17

PROP: Needles from EtOH. Mp: 245° (decomp). Sol in alc.

SYN: 8-HYDROXY-5-NITROSOQUINOLINE

TOXICITY DATA with REFERENCE:
mmo-sat 1 µmol/plate MUREAV 164,263,86
mmo-esc 1 µmol/plate MUREAV 164,263,86
ipr-mus LD50:296 mg/kg NYKZAU 60,52,64
ivn-mus LD50:56 mg/kg CSLNX* NX#01332

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Many nitroso compounds are carcinogens. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLR500 CAS: 13256-22-9 HR: 3
N-NITROSOSARCOSINE
mf: $C_3H_6N_2O_3$ mw: 118.11

SYNS: GLYCINE, N-METHYL-N-NITROSO- □ N-METHYL-N-NITROSOGLYCINE □ N-NITROSOMETHYLGLYCINE □ NITROSO SARKOSIN □ NSAR

TOXICITY DATA with REFERENCE:
ipr-mus LD50:184 mg/kg CNREA8 35,1981,75

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 17,327,78; Human Limited Evidence IMEMDT 17,327,78.

SAFETY PROFILE: Confirmed carcinogen with experimental tumorigenic data. Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLS000 CAS: 13344-50-8 HR: 2
N-NITROSOSARCOSINE, ETHYL ESTER
mf: $C_5H_{10}N_2O_3$ mw: 146.17

SYN: NITROSO-SARKOSIN-AETHYLESTER

TOXICITY DATA with REFERENCE:
orl-rat LD50:4000 mg/kg ZEKBAI 69,103,67
ivn-rat LD50:4000 mg/kg ZEKBAI 69,103,67

SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. Many N-nitroso compounds are carcinogens. Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS and ESTERS.

NLS500 CAS: 53051-16-4 HR: D
o-(N-NITROSOSARCOSYL)-l-SERINE
mf: $C_6H_{11}N_3O_5$ mw: 205.20

SYN: l-SERINE, ESTER with N-METHYL-N-NITROSOGLYCINE

TOXICITY DATA with REFERENCE:
dnr-esc 250 µg/disc CNREA8 34,1658,74

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to

decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLT000 CAS: 38241-21-3 HR: D
4-NITROSO-trans-STILBENE
mf: $C_{14}H_{11}NO$ mw: 209.26
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate PNASA6 69,3128,72
SAFETY PROFILE: Mutation data reported. Many nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLT500 CAS: 40548-68-3 HR: 2
N-NITROSO-TETRAHYDRO-1,2-OXAZINE
mf: $C_4H_8N_2O_2$ mw: 116.14
SYNS: N-NITROSO-TETRAHYDROOXAZIN-1,2 (GERMAN) □ N-NITROSOTETRAHYDRO-1,2-OXAZIN □ 2-NITROSOTETRA-HYDRO-2H-1,2-OXAZINE □ TETRAHYDRO-2-NITROSO-2H-1,2-OXAZINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:830 mg/kg ZKKOBW 79,114,73
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLU000 CAS: 35627-29-3 HR: 2
N-NITROSO-TETRAHYDRO-1,3-OXAZINE
mf: $C_4H_8N_2O_2$ mw: 116.14
SYNS: N-NITROSOTETRAHYDROOXAZIN-1,3 (GERMAN) □ 3-NITROSO-TETRAHYDRO-1,3-OXAZINE
TOXICITY DATA with REFERENCE:
mma-sat 250 µg/plate TCMUE9 1,13,84
orl-rat LD50:600 mg/kg ZKKOBW 82,257,74
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLU480 CAS: 70501-82-5 HR: 2
N-NITROSO-1,2,3,4-TETRAHYDROPYRIDINE
mf: $C_5H_8N_2O$ mw: 112.15
SYNS: N-NITROSO-Δ^2-PIPERIDINE □ N-NITROSO-Δ^2-TETRAHYDROPYRIDINE □ 1-NITROSO-1,2,3,4-TETRA-HYDROPYRIDINE
TOXICITY DATA with REFERENCE:
mmo-sat 25 µg/plate TCMUE9 1,13,84
mma-sat 25 µg/plate TCMUD8 1,295,80
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NLU500 CAS: 55556-92-8 HR: 2
N-NITROSO-1,2,3,6-TETRAHYDROPYRIDINE
mf: $C_5H_8N_2O$ mw: 112.15
SYNS: N-NITROSO-Δ^3-PIPERIDINE □ N-NITROSO-Δ^3-TETRAHYDROPYRIDINE
TOXICITY DATA with REFERENCE:
mmo-sat 50 µg/plate TCMUE9 1,13,84
mma-sat 1 µg/plate MUREAV 51,319,78
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLU600 CAS: 81795-07-5 HR: 2
N-NITROSOTHIALDINE
mf: $C_6H_{12}N_2OS_2$ mw: 192.32
SYNS: DIHYDRO-5-NITROSO-2,4,6-TRIMETHYL-4H-1,3,5-DITHIAZINE □ 4H-1,3,5-DITHIAZINE, DIHYDRO-5-NITROSO-2,4,6-TRIMETHYL-
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data reported. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NLV500 CAS: 73870-33-4 HR: 2
N-NITROSOTHIAZOLIDINE
mf: $C_3H_6N_2OS$ mw: 118.17
SYNS: 3-NITROSOTHIAZOLIDINE □ NT
TOXICITY DATA with REFERENCE:
mmo-sat 2500 ng/plate FCTOD7 22,253,84
mma-sat 2500 ng/plate FCTOD7 22,253,84
dnr-bcs 2500 µg/disc FCTOD7 22,1013,84
dns-rat:lvr 200 µmol FCTOD7 22,1013,84
orl-rat LD50:1950 mg/kg JTEHD6 13,595,84
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also N-NITROSO COMPOUNDS.

NLW000 CAS: 26541-51-5 HR: 2
N-NITROSOTHIOMORPHOLINE
mf: $C_4H_8N_2OS$ mw: 132.20
SYN: 4-NITROSOTHIOMORPHOLINE
TOXICITY DATA with REFERENCE:
mma-sat 1 µmol/plate MUREAV 57,1,78
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x. See also N-NITROSO COMPOUNDS.

NLW500 CAS: 611-23-4 HR: 2
2-NITROSOTOLUENE
mf: C_7H_7NO mw: 121.15
PROP: Needles or prisms. Mp: 72.5°. Very sol in chloroform, alc, and ether.
SYNS: BENZENE, 1-METHYL-2-NITROSO-(9CI) □ o-METHYLNITROSOBENZENE □ 1-METHYL-2-NITROSO-BENZENE □ NITROSOTOLUENE □ o-NITROSOTOLUENE
TOXICITY DATA with REFERENCE:
mmo-sat 1 µmol/plate IJEBA6 25,618,87
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. Many nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLW600 CAS: 111858-68-5 HR: D
N-NITROSO-N-p-TOLYL-d-FRUCTOPYRANOSYLAMINE
mf: $C_{13}H_{18}N_2O_6$ mw: 298.33
SYNS: d-FRUCTOPYRANOSE, 1-DEOXY-1-((4-METHYLPHENYL)NITROSOAMINO)- □ d-FRUCTOPYRANOSYLAMINE, N-NITROSO-N-p-TOLYL- □ N-NITROSO-N-p-METHYLPHENYL-1-DEOXY-d-FRUCTOSYLAMINE
TOXICITY DATA with REFERENCE:
mic-sat 2 mg/plate FCTOD7 25,669,1987
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NLX000 CAS: 71752-68-6 HR: 2
NITROSOTRIDECYLUREA
mf: $C_{14}H_{29}N_3O_2$ mw: 271.46
SYN: 1-NITROSO-1-TRIDECYLUREA
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 68,1,79
mma-sat 100 µg/plate TCMUE9 1,13,84
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLX500 CAS: 50285-70-6 HR: 2
NITROSOTRIETHYLUREA
mf: $C_7H_{15}N_3O_2$ mw: 173.25
SYNS: NITROSOTRIAETHYLHARNSTOFF (GERMAN) □ 1,1,3-TRIETHYL-3-NITROSOUREA
TOXICITY DATA with REFERENCE:
mma-sat 1 µg/plate MUREAV 51,319,78
orl-rat TDLo:150 mg/kg:CAR,REP CRNGDP 9,573,88
ivn-rat TDLo:150 mg/kg:NEO,REP CRNGDP 9,573,88
orl-rat TD:2550 mg/kg/31W-C:ETA,REP JJIND8 65,451,80
SAFETY PROFILE: Experimental reproductive effects. Questionable carcinogen with experimental carcinogenic, neoplastigenic, and tumorigenic data. Mutation data reported. Many nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also NITROSO COMPOUNDS.

NLX700 CAS: 82018-90-4 HR: 2
N-NITROSO-2,2,2-TRIFLUORODIETHYLAMINE
mf: $C_4H_7F_3N_2O$ mw: 156.13
SYN: N-NITROSO-2,2,2-TRIFLUOROETHYL-ETHYLAMINE
TOXICITY DATA with REFERENCE:
mma-sat 20 µmol/plate CRNGDP 3,155,82
orl-rat LD50:960 mg/kg CRNGDP 4,755,83
SAFETY PROFILE: Moderately toxic by ingestion. Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of F^- and NO_x. See also N-NITROSO COMPOUNDS and AMINES.

NLY000 CAS: 16339-14-3 HR: 3
1-NITROSO-1,2,2-TRIMETHYLHYDRAZINE
mf: $C_3H_9N_3O$ mw:103.15
SYNS: N-NITROSOTRIMETHYLHYDRAZIN (GERMAN) □ N-NITROSO-N,N',N'-TRIMETHYLHYDRAZINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:95 mg/kg ZEKBAI 69,103,67
SAFETY PROFILE: Poison by ingestion. Questionable carcinogen with experimental tumorigenic data. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLY500 CAS: 62178-60-3 HR: 2
NITROSOTRIMETHYLPHENYL-N-METHYL-CARBAMATE
mf: $C_{11}H_{14}N_2O_3$ mw: 222.27
SYNS: LANDRIN, NITROSO DERIVATIVE □ N-METHYL-N-NITROSOCARBAMIC ACID, TRIMETHYLPHENYL ESTER □ NITROSO-LANDRIN
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 68,1,79
mma-sat 111 ng/plate MUREAV 56,1,77
dnd-hmn:fbr 10 µmol/L MUREAV 44,1,77
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS, CARBAMATES, and ESTERS.

NLY750 CAS: 88208-15-5 HR: 3
NITROSO-3,4,5-TRIMETHYLPIPERAZINE
mf: $C_7H_{15}N_3O$ mw: 157.25
SYNS: N-NITROSO-3,4,5-TRIMETHYLPIPERAZINE □ 1-NITROSO-3,4,5-TRIMETHYLPIPERAZINE
TOXICITY DATA with REFERENCE:
mma-sat 10 µg/plate TCMUE9 1,13,84
SAFETY PROFILE: Suspected carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NLZ000 CAS: 69113-01-5 HR: 2
NITROSOTRIS(CHLOROETHYL)UREA
mf: $C_7H_{12}Cl_3N_3O_2$ mw: 276.57
SYN: 1-NITROSO-1,3,3-TRIS-(2-CHLOROETHYL)UREA
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Many nitroso compounds are carcinogens. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x. See also NITROSO COMPOUNDS.

NMA000 CAS: 71752-67-5 HR: 2
NITROSOUNDECYLUREA
mf: $C_{12}H_{25}N_3O_2$ mw: 243.40
SYN: N-NITROSO-N-UNDECYLUREA
TOXICITY DATA with REFERENCE:
mmo-sat 1 µg/plate MUREAV 68,1,79
mma-sat 100 µg/plate TCMUE9 1,13,84
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NMA500 CAS: 13010-20-3 HR: D

NITROSOUREA
mf: $CH_3N_3O_2$ mw: 89.07
TOXICITY DATA with REFERENCE:
cyt-mus-ipr 3200 µg/kg MUREAV 38,106,76
spm-mus-ipr 3200 µg/kg MUREAV 38,106,76
SAFETY PROFILE: Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NMB000 CAS: 9056-38-6 HR: 3
NITROSTARCH
DOT: UN 0146/UN 1337
PROP: Solid.
SYNS: NITROSTARCH, dry or wetted with <20% water, by weight (UN 0146) (DOT) □ NITROSTARCH, wetted with not <20% water, by weight (UN 1337) (DOT)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: EXPLOSIVE 1.1D; Label: EXPLOSIVE 1.1D (UN 0146); DOT Class: 4.1; Label: Flammable Solid (UN 1337)
SAFETY PROFILE: A very dangerous fire and explosion hazard when exposed to heat, flame, shock, or oxidizers. It is a powerful high explosive. Nitrostarch is not a definite compound, but a mixture of various nitric acid esters of starch with different degrees of nitration. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS.

NMC000 CAS: 4003-94-5 HR: 2
4-NITROSTILBENE
mf: $C_{14}H_{11}NO_2$ mw: 225.26
SYN: 4-NITROSTILBEN (GERMAN)
TOXICITY DATA with REFERENCE:
mmo-sat 5 µg/plate CBINA8 26,11,79
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NMC050 CAS: 1694-20-8 HR: 3
trans-4-NITROSTILBENE
mf: $C_{14}H_{11}NO_2$ mw: 225.26
SYNS: BENZENE, 1-NITRO-4-(2-PHENYLETHENYL)-, (E)- □ trans-p-NITROSTILBENE □ (E)-1-NITRO-4-(2-PHENYLETHENYL)BENZENE □ (E)-4-NITROSTILBENE □ STILBENE, 4-NITRO-, (E)-
TOXICITY DATA with REFERENCE:
mic-sat 1 µLg/plate MUREAV 188,267,1987
mic-sat 12.5 µLg/plate/48H MUREAV 491,195,2001
ipr-rat LDLo:>200 mg/kg ARTODN 56,151,1985
SAFETY PROFILE: A poison by intraperitoneal route. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NMC100 CAS: 102-96-5 HR: 2
β-NITROSTYRENE
mf: $C_8H_7NO_2$ mw: 149.16
SYNS: BNS □ NCI-C02211 □ γ-NITROSTYRENE □ STYRENE, β-NITRO-
TOXICITY DATA with REFERENCE:
orl-mus LDLo:710 mg/kg AECTCV 14,111,85
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NMD500 CAS: 63021-48-7 HR: 2
7-(m-NITROSTYRYL)BENZ(c)ACRIDINE
mf: $C_{25}H_{16}N_2O_2$ mw: 376.43
SYN: m-NITROBENZYLIDENE-3,4-BENZ-9-METHYLACRIDINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NME000 CAS: 63021-49-8 HR: 2
7-(o-NITROSTYRYL)BENZ(c)ACRIDINE
mf: $C_{25}H_{16}N_2O_2$ mw: 376.43
SYN: o-NITROBENZYLIDENE-3,4-BENZ-9-METHYLACRIDINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NME500 CAS: 63021-50-1 HR: 2
7-(p-NITROSTYRYL)BENZ(c)ACRIDINE
mf: $C_{25}H_{16}N_2O_2$ mw: 376.43
SYN: p-NITROBENZYLIDENE-3,4-BENZ-9-METHYLACRIDINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NMF000 CAS: 63021-46-5 HR: 2
12-(m-NITROSTYRYL)BENZ(a)ACRIDINE
mf: $C_{25}H_{16}N_2O_2$ mw: 376.43
SYN: m-NITROBENZYLIDENE-1,2-BENZ-9-METHYLACRIDINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NMF500 CAS: 63021-47-6 HR: 2
12-(o-NITROSTYRYL)BENZ(a)ACRIDINE
mf: $C_{25}H_{16}N_2O_2$ mw: 376.43
SYN: o-NITROBENZYLIDENE-1,2-BENZ-9-METHYLACRIDINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NMG000 CAS: 22188-15-4 HR: 2
12-(p-NITROSTYRYL)BENZ(a)ACRIDINE
mf: $C_{25}H_{16}N_2O_2$ mw: 376.43
SYN: p-NITROBENZYLIDENE-1,2-BENZ-9-METHYLACRIDINE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NMG500 CAS: 62316-46-5 HR: 3
NITROSYL AZIDE
mf: N_4O mw: 72.03
$O{:}NN_3$

PROP: Yellow compound. Mp: −66°.
SAFETY PROFILE: Probably poison by inhalation and ingestion. Spontaneous decomposition at −50° may be explosive. Has exploded during preparation. Upon decomposition it emits very toxic fumes of NO_x and N_3. See also AZIDES.

NMH000 CAS: 2696-92-6 HR: 3
NITROSYL CHLORIDE
DOT: UN 1069
mf: ClNO mw: 65.46
O:NCl
PROP: Orange-yellow gas condensing to a deep red liquid; irritating odor. The dry gas slowly attacks glass. Mp: −61.5°, bp: −6.4°, d (liquid): 1.250 @ 30°, vap d: 2.3, vap press: 76 mm @ 50°. Non-explosive, very corrosive. Liquid @ −5.5°, solid @ −61.5°. Sol in fuming H_2SO_4.
SYN: NITROGEN OXYCHLORIDE
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 2.3; Label: Poison Gas, Corrosive
SAFETY PROFILE: Poison by inhalation and ingestion. A corrosive irritant to skin, eyes, and mucous membranes. Inhalation may cause pulmonary edema and hemorrhage. Potentially explosive reaction with acetone + platinum. Mixtures with hydrogen + oxygen ignite spontaneously. When heated to decomposition it emits very toxic fumes of Cl^- and NO_x.

NMH275 CAS: 4343-68-4 HR: 3
NITROSYL CYANIDE
mf: CN_2O mw: 56.02
O═NC≡N
CONSENSUS REPORTS: Cyanide and its compounds are on the Community Right-To-Know List.
SAFETY PROFILE: The impure gas explodes below −20°C. Handle as the gas only! When heated to decomposition it emits toxic fumes of CN^- and NO_x. See also CYANIDE.

NMH500 CAS: 7789-25-5 HR: 3
NITROSYL FLUORIDE
mf: FNO mw: 49.01
O:NF
PROP: Colorless gas (stable in glass containers) often bluish because of impurities. Hydrolyzes rapidly to HF + HNO_2. Mp: −132.5°, bp: −59.9°; d: (liquid @ bp) 1.326, (solid) 1.719.
SYN: NITROGEN OXYFLUORIDE
SAFETY PROFILE: A poison. A severe irritant to skin, eyes, and mucous membranes. Reacts vigorously with glass; corrodes quartz. Explosive reaction with alkenes, oxygen difluoride. Incandescent reaction with metals (e.g., antimony, bismuth, tin, sodium); nonmetals (e.g., arsenic, boron, red phosphorus, silicon). When heated to decomposition it emits highly toxic fumes of F^- and NO_x. See also FLUORIDES and HYDROFLUORIC ACID.

NMI000 CAS: 15605-28-4 HR: 3
NITROSYL PERCHLORATE
mf: $ClNO_5$ mw: 129.46
O:$NOClO_3$
PROP: White crystals.
SAFETY PROFILE: A powerful oxidizer. Below 100° it slowly decomposes; at about 115−120°C the process accelerates and explodes. Explosive reaction with pentaamineazidocobalt(III) perchlorate + phenyl isocyanate. organic materials (e.g., pinene, acetone, ethanol, ether), primary aromatic amines (e.g., aniline, toluidines, xylidines, mesidine). Ignition on mixing with urea. Incompatible with metal salts. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-. See also PERCHLORATES.

NMI500 CAS: 18902-42-6 HR: 3
NITROSYLRUTHENIUM TRICHLORIDE
mf: Cl_3NORu mw: 237.44
O:$NRuCl_3$
SAFETY PROFILE: Very unstable. Decomposes violently at 400°C. When heated to decomposition it emits highly toxic fumes of NO_x, Cl^-, and RuO_4. See also RUTHENIUM COMPOUNDS.

NMJ000 CAS: 7782-78-7 HR: 3
NITROSYLSULFURIC ACID
mf: HNO_5S mw: 127.07
O:$NOSO_2OH$
PROP: White crystals or prisms, stable in dry air. Mp: 73.5°, decomp @ 73.5°. Sol in sulfuric acid, decomp in water.
SYNS: CHAMBER CRYSTALS □ NITRO ACID SULFITE □ NITROSONIUM BISULFITE □ NITROSYL HYDROGEN SULFATE □ NITROSYL SULFATE □ SULFURIC ACID, MONOANHYDRIDE with NITROUS ACID
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison. A corrosive irritant to skin, eyes, and mucous membranes. Explosive reaction above 50°C with 2-chloro-4,6-dinitroaniline and 4-chloro-2,6-dinitroaniline. Potentially explosive reaction with dinitroaniline. When heated to decomposition it emits toxic fumes of SO_x and NO_x. See also SULFATES and NITRATES.

NMJ400 CAS: 13444-89-8 HR: 2
NITROSYL TRIBROMIDE
mf: Br_3NO mw: 269.73
SAFETY PROFILE: Probably very toxic. A severe skin, eye, and mucous membrane irritant. Ignites on contact with sodium-antimony alloy. When heated to decomposition it emits very toxic fumes of Br^- and NO_x. See also BROMIDES.

NMJ500 CAS: 603-11-2 HR: 2
NITROTEREPHTHALIC ACID
mf: $C_8H_5NO_6$ mw: 211.14
PROP: Pale-yellow crystals from H_2O. Mp: 218°. Sol in H_2O.
SAFETY PROFILE: A preparative hazard. When heated to decomposition it emits toxic fumes of NO_x.

NMK000 CAS: 55011-46-6 HR: 3
5-NITROTETRAZOL
mf: CHN_5O_2 mw: 115.05
SAFETY PROFILE: The silver and mercury salts are explosive. When heated to decomposition it emits toxic fumes of NO_x.

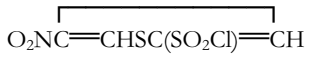
NMK100 CAS: 298-83-9 HR: 2
p-NITROTETRAZOLIUM BLUE
mf: $C_{40}H_{30}N_{10}O_6$•2Cl mw: 817.70
SYNS: NITROTETRAZOLIUM BLUE □ NITRO TETRAZOLIUM BT □ NITROTETRAZOLIUM CHLORIDE BLUE □ NBT (DYE) □ NITRO BLUE TETRAZOLIUM □ p-NITRO BLUE TETRAZOLIUM □ NITRO BLUE TETRAZOLIUM CHLORIDE □ p-NITRO BLUE TETRAZOLIUM CHLORIDE □ NITRO BT □ NITRO BLUE TETRAZOLIUM SALT □ TETRAZOLIUM NITRO BLUE □ TETRAZOLIUM NITRO BT □ 2H-TETRAZOLIUM, 3,3'-(3,3'-DIMETHOXY(1,1'-BIPHENYL)-4,4'-DIYL)BIS(2-(4-NITROPHENYL)-5-PHEN YL-,DICHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:2 g/kg YAKUD5 32,614,1990
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

NML000 CAS: 61-57-4 HR: 3
NITROTHIAZOLE
mf: $C_6H_6N_4O_3S$ mw: 214.22
PROP: Yellow crystals from DMF/MeOH. Mp: 261−263°.
SYNS: AMBILHAR □ BA 32644 □ BA 32644 CIBA □ CIBA 32644 □ CIBA 32644-BA □ NIRIDAZOLE □ NITRIDAZOLE □ NITROTHIAMIDAZOL □ NITROTHIAMIDAZOLE □ 1-(5-NITRO-2-THIAZOLYL)IMIDAZOLIDIN-2-ONE □ 1-(5-NITRO-2-THIAZOLYL)-2-IMIDAZOLIDINONE □ 1-(5-NITRO-2-THIAZOLYL)-2-IMIDAZOLINONE □ 1-(5-NITRO-2-THIAZOLYL)-2-OXOTETRAHYDROIMIDAZOL □ 1-(5-NITRO-2-THIAZOLYL)-2-OXOTETRAHYDROIMIDAZOLE □ NTOI
TOXICITY DATA with REFERENCE:
mma-sat 33 ng/plate ENMUDM 7,429,85
bfa-hmn/sat 25 mg/kg CMMUAO 4,171,76
orl-mus TDLo:175 mg/kg (male 5D pre):REP JRPFA4 46,217,76
orl-rat TDLo:8 g/kg/90W-I:NEO CALEDQ 4,305,78
orl-mus TDLo:15 g/kg/49W-C:CAR CALEDQ 1,69,75
orl-mus TD:16 g/kg/75W-C:CAR JNCIAM 59,1625,77
orl-rat LD50:900 mg/kg FAZMAE 17,108,73
orl-mus LD50:2500 mg/kg YHHPAL 15,456,80
ipr-mus LD50:220 mg/kg JPETAB 228,662,84
CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 7,56,87; Animal Sufficient Evidence IMEMDT 13,123,77. EPA Genetic Toxicology Program.
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and neoplastigenic data. Poison by intraperitoneal route. Moderately toxic by ingestion. Experimental reproductive effects. Human mutation data reported. Used as an amoebicide and schistosomicidal agent. When heated to decomposition it emits very toxic fumes of SO_x and NO_x.

NML100 CAS: 39565-00-9 HR: 3
1-(5-NITRO-2-THIENYL)ETHANONE
mf: $C_6H_5NO_2S$ mw: 155.18
SYNS: 2-ACETYL-5-NITROTHIOPHENE □ ETHANONE, 1-(5-NITRO-2-THIENYL)-(9CI) □ KETONE, METHYL (5-NITRO-2-THIENYL) □ THIOPHENE, 2-ACETYL-5-NITRO-
TOXICITY DATA with REFERENCE:
mmo-sat 2500 ng/plate CNREA8 35,3611,75
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Mutation data reported. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x and SO_x.

NMO000 CAS: 609-40-5 HR: D
2-NITROTHIOPHENE
mf: $C_4H_3NO_2S$ mw: 129.14
PROP: Monoclinic crystals. Mp: 41°, bp: 224−225°. Insol in alkali; sol in alc and ether.
TOXICITY DATA with REFERENCE:
mmo-sat 2 µmol/L MUREAV 118,153,83
mmo-klp 20 µmol/L MUREAV 118,153,83
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and SO_x.

NMO400 CAS: 40358-04-1 HR: 3
4-NITROTHIOPHENE-2-SULFONYL CHLORIDE
mf: $C_4H_2ClNO_4S_2$ mw: 224.64



SAFETY PROFILE: Residue left from distillation decomposes vigorously at 147°C. When heated to decomposition it emits toxic fumes of Cl^-, SO_x, and NO_x.

NMO500 CAS: 99-08-1 HR: 3
m-NITROTOLUENE
DOT: UN 1664
mf: $C_7H_7NO_2$ mw: 137.15
PROP: Crystals or liquid. Mp: 16°, flash p: 233°F (CC), d: 1.1630 @ 15°/4°, vap press: 1 mm @ 50.2°, vap d: 4.72, bp: 231.9°. Misc with alc, ether; sol in benzene; sol in water @ 30°. IDLH 200 ppm.
SYNS: m-METHYLNITROBENZENE □ 3-METHYLNITROBENZENE □ MNT □ 3-NITROTOLUENE □ 3-NITROTOLUOL
TOXICITY DATA with REFERENCE:
orl-rat LD50:1072 mg/kg NTIS** PB214-270
ihl-rat LC50:693 mg/m^3 GTPZAB 22(7),52,78
ihl-mus LC50:425 mg/m^3 GTPZAB 22(7),52,78
orl-rbt LD50:1750 mg/kg GTPZAB 22(7),52,78
orl-mus LD50:330 mg/kg CHABA8 73,91015e,70
orl-rbt LD50:2400 mg/kg CHABA8 73,91015e,70
orl-gpg LD50:3600 mg/kg CHABA8 73,91015e,70
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 ppm (skin)
ACGIH TLV: TWA 2 ppm (skin)
DFG MAK: 5 ppm (28 mg/m^3)
DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by ingestion. Moderately toxic by inhalation. Combustible when exposed to heat, flame, or oxidizers. To fight fire, use water, CO_2, dry chemical. Probably an explosive. When heated to decomposition it emits toxic fumes of NO_x. See also other methylnitrobenzene entries and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: nitrobenzenes, 2005.

NMO510 CAS: 1321-12-6 HR: 3
mixo-NITROTOLUENE
mf: $C_7H_7NO_2$ mw: 137.14
$O_2NC_6H_4CH_3$
DFG MAK: 5 ppm (30 mg/m^3)
SAFETY PROFILE: A poison. May decompose explosively if heated above 190°C. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NMO525 CAS: 88-72-2 HR: 3
o-NITROTOLUENE
DOT: UN 1664
mf: $C_7H_7NO_2$ mw: 137.15
PROP: Yellowish oily liquid. Crystals in two forms; transparent needles or snow white crystals. Mp: −10°, bp: 222.3°, flash p: 223°F (CC), d: 1.1622 @ 19°/15°, vap press: 1 mm @ 50°, vap d: 4.72. Insol in water; sol in SO_2 and pet ether; misc in alc, benzene, and ether. Sltly sol in NH_3. IDLH 200 ppm.
SYNS: 2-METHYLNITROBENZENE □ o-METHYLNITROBENZENE □ 2-NITROTOLUENE □ ONT
TOXICITY DATA with REFERENCE:
dns-rat-orl 150 mg/kg CBINA8 52,131,84
dns-rat-orl 200 mg/kg CNREA8 43,2836,83
orl-rat LD50:891 mg/kg NTIS** PB214-270
orl-mus LD50:970 mg/kg GTPZAB 25(8),50,81
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 ppm (skin)
ACGIH TLV: TWA 2 ppm (skin)
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: Confirmed carcinogen. A poison. Moderately toxic by ingestion. Mucous membrane effects by inhalation. Mutation data reported. Combustible when exposed to heat or open flame. To fight fire, use water spray, fog, foam, CO_2. Potentially explosive reaction with alkali (e.g., sodium hydroxide). When heated to decomposition it emits toxic fumes of NO_x. See also other methylnitrobenzene entries and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Nitrobenzenes 2005.

NMO550 CAS: 99-99-0 HR: 3
p-NITROTOLUENE
DOT: UN 1664
mf: $C_7H_7NO_2$ mw: 137.15
PROP: Yellowish crystals from alc. Bp: 238.3°, flash p: 223°F (CC), d: 1.286, vap press: 1 mm @ 53.7°, vap d: 4.72. Mp: 53−54°. Insol in water; sol in alc, benzene, ether, chloroform, and acetone. IDLH 200 ppm.
SYNS: 4-METHYLNITROBENZENE □ p-METHYL NITROBENZENE □ NCI-C60537 □ 4-NITROTOLUENE □ 4-NITROTOLUOL □ PNT
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate ENMUDM 4,163,82
mma-sat 10 µg/plate ENMUDM 4,163,82
orl-rat LD50:1960 mg/kg GTPZAB 25(8),50,81
skn-rat LD50:16,000 mg/kg GISAAA 24(9),15,59
ipr-rat LD50:940 mg/kg GISAAA 24(9),15,59
orl-mus LD50:1231 mg/kg NTIS** PB214-270
ihl-mus LC50:419 mg/m^3 GTPZAB 22(7),52,78
orl-rbt LD50:1750 mg/kg GTPZAB 22(7),52,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 2 ppm (skin)
ACGIH TLV: TWA 2 ppm (skin)
DFG MAK: 5 ppm (28 mg/m^3)
DOT CLASSIFICATION: 6.1; Label: Poison
SAFETY PROFILE: A poison. Moderately toxic by ingestion, inhalation, and intraperitoneal routes. Mildly toxic by skin contact. Mutation data reported. Combustible when exposed to heat or flame. To fight fire, use CO_2, dry chemical, foam. The residue from vacuum distillation may explode spontaneously. Reacts with sodium to form an ignitable product. Violent reaction with concentrated sulfuric acid (above 160°C), sulfuric acid + sulfur trioxide (above 52°C). Mixtures with tetranitromethane are sensitive high explosives. May explode on standing. It has been involved in plant scale explosions. When heated to decomposition it emits toxic fumes of NO_x. See also other methylnitrobenzene entries and NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.
ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Nitrobenzenes 2005.

NMO700 CAS: 455-90-3 HR: D
4-NITRO-o-TOLUENEDIAZONIUM TETRAFLUOROBORATE
mf: $C_7H_6N_3O_2{\bullet}BF_4$ mw: 250.97
SYNS: BENZENEDIAZONIUM, 2-METHYL-4-NITRO-, TETRAFLUOROBORATE(1$^-$) (9CI) □ DIAZOLE RED 4S □ DIAZOL RED S □ o-TOLUENEDIAZONIUM, 4-NITRO-, TETRAFLUOROBORATE(1$^-$)
TOXICITY DATA with REFERENCE:
mmo-omi 400 ppm/2H-C SOGEBZ 4,1466,68
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of boron, NO_x, and F^-.

NMP000 CAS: 119-32-4 HR: 3
5-NITRO-4-TOLUIDINE
mf: $C_7H_8N_2O_2$ mw: 152.17

PROP: Clear liquid or yellow needles from water. Mp: 78°, flash p: 315°F (CC), d: 1.312, vap d: 5.80. Sltly sol in hot water, sol in alc.
SYNS: 4-AMINO-2-NITROTOLUENE ◻ 4-METHYL-3-NITROANILINE ◻ 2-NITRO-4-AMINOTOLUENE ◻ 3-NITRO-4-METHYLANILINE ◻ 3-NITRO-4-TOLUIDIN (CZECH) ◻ m-NITRO-p-TOLUIDINE ◻ 3-NITRO-p-TOLUIDINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:6860 mg/kg 28ZPAK -,133,72
ivn-mus LD50:180 mg/kg CSLNX* NX#04522
orl-bwd LD50:3 mg/kg TXAPA9 21,315,72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by ingestion and intravenous routes. Combustible when exposed to heat or flame. To fight fire, use CO_2, spray, foam. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NMP500 CAS: 99-55-8 HR: 3
5-NITRO-o-TOLUIDINE
mf: $C_7H_8N_2O_2$ mw: 152.17
PROP: Yellow prisms from EtOH. Mp: 107°.
SYNS: AMARTHOL FAST SCARLET G BASE ◻ AMARTHOL FAST SCARLET G SALT ◻ 1-AMINO-2-METHYL-5-NITROBENZ-ENE ◻ 2-AMINO-4-NITROTOLUENE ◻ AZOENE FAST SCARLET GC BASE ◻ AZOENE FAST SCARLET GC SALT ◻ AZOFIX SCARLET G SALT ◻ AZOGENE FAST SCARLET G ◻ AZOIC DIAZO COMPONENT 12 ◻ BENZENAMINE, 2-METH-YL-5-NITRO- ◻ C.I. 37105 ◻ C.I. AZOIC DIAZO COMPON-ENT 12 ◻ DAINICHI FAST SCARLET G BASE ◻ DAITO SCARLET BASE G ◻ DEVOL SCARLET B ◻ DEVOL SCARLET G SALT ◻ DIABASE SCARLET G ◻ DIAZO FAST SCARLET G ◻ FAST RED SG BASE ◻ FAST SCARLET BASE G ◻ FAST SCARLET BASE J ◻ FAST SCARLET G ◻ FAST SCARLET G BASE ◻ FAST SCARLET GC BASE ◻ FAST SCARLET M4NT BASE ◻ FAST SCARLET T BASE ◻ FAST SCARLET G SALT ◻ FAST SCARLET J SALT ◻ HILTONIL FAST SCARLET G BASE ◻ HILTONIL FAST SCARLET GC BASE ◻ HILTONIL FAST SCARLET G SALT ◻ KAYAKU SCARLET G BASE ◻ LAKE SCARLET G BASE ◻ LITHOSOL ORANGE R BASE ◻ 2-METHYL-5-NITROANILINE ◻ 6-METHYL-3-NITROANILINE ◻ 2-METHYL-5-NITROBENZ-ENE-AMINE ◻ MITSUI SCARLET G BASE ◻ NAPHTHANIL SCARLET G BASE ◻ NAPHTOELAN FAST SCARLET G BASE ◻ NAPHTOELAN FAST SCARLET G SALT ◻ NCI-C01843 ◻ 4-NITRO-2-AMINOTOLUENE ◻ 3-NITRO-6-METHYLANILINE ◻ 5-NITRO-2-METHYLANILINE ◻ 5-NITRO-2-TOLUIDINE ◻ PNOT ◻ RCRA WASTE NUMBER U181 ◻ SCARLET BASE CIBA II ◻ SCARLET BASE IRGA II ◻ SCARLET BASE NSP ◻ SCARLET G BASE ◻ SUGAI FAST SCARLET G BASE ◻ SYMULON SCARLET G BASE
TOXICITY DATA with REFERENCE:
mmo-sat 10 µg/plate ENMUDM 4,163,82
mma-sat 33,300 ng/plate ENMUDM 7(Suppl 5),1,85
otr-rat:emb 41 µg/plate JJATDK 1,190,81
orl-rat LD50:574 mg/kg NCIMR* NIH-71-E-2144,73
CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 48,169,90; Animal Limited Evidence IMEMDT 48,169,90. NCI Carcinogenesis Bioassay (feed); Clear Evidence: mouse NCITR* NCI-CG-TR-107,78. Reported in EPA TSCA Inventory.
DFG MAK: Animal Carcinogen, Suspected Human Carcinogen
SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic data. Moderately toxic by ingestion. Mutation data reported. Decomposes exothermically when heated to 150°C. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NMP550 CAS: 578-46-1 HR: D
6-NITRO-m-TOLUIDINE
mf: $C_7H_8N_2O_2$ mw: 152.17
SYNS: 3-AMINO-4-NITROTOLUENE ◻ BENZENAMINE, 3-METHYL-6-NITRO- ◻ m-TOLUIDINE, 6-NITRO-
TOXICITY DATA with REFERENCE:
mic-sat 500 µLg/plate ENMUDM 4,163,1982
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NMP600 CAS: 51085-52-0 HR: 2
5-NITRO-o-TOLUIDINE HYDROCHLORIDE
mf: $C_7H_8N_2O_2$•ClH mw: 188.63
SYNS: BENZENAMINE, 2-METHYL-5-NITRO-, MONOHYDROCHLORIDE ◻ o-TOLUIDINE, 5-NITRO-, HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:1800 mg/kg NYKZAU 50,1,54
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 HCl.

NMP620 CAS: 932-64-9 HR: 3
NITROTRIAZOLONE
DOT: UN 0490
SYNS: 3-NITRO-1,2,4-TRIAZOL-5-ONE ◻ NTO ◻ NTO (DOT) ◻ 1,2,4-TRIAZOL-5-ONE, 3-NITRO-
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD NTIS** DE86-003296
eye-rbt 100 mg MLD NTIS** DE86-003296
orl-rat LD50:>5 g/kg NTIS** DE86-003296
orl-mus LD50:>5 g/kg NTIS** DE86-003296
DOT CLASSIFICATION: Explosive 1.1D; Label: Explosive 1.1D
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin and eye irritant. An unstable explosive. When heated to decomposition it emits toxic vapors of NO_x.

NMQ000 CAS: 464-10-8 HR: 3
NITROTRIBROMOMETHANE
mf: CBr_3NO_2 mw: 297.75
PROP: Crystals or liquid. Mp: 10°, bp: 127°, d: 2.79 @ 20°.
SYN: TRIBROMONITROMETHANE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:15 mg/kg KHFZAN 10(6),53,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intraperitoneal route. In vapor form it is highly toxic by ingestion and inhalation and on contact with skin, eyes, and mucous membranes. An explosive. When heated to decomposition it emits very toxic fumes of Br^- and NO_x. See also NITRO COMPOUNDS and BROMIDES.

NMQ025 CAS: 17700-09-3 HR: D
4-NITRO-1,2,3-TRICHLOROBENZENE
mf: $C_6H_2Cl_3NO_2$ mw: 226.44
SYNS: BENZENE, 4-NITRO-1,2,3-TRICHLORO- □ 1,2,3-TRICHLORO-4-NITROBENZENE □ 2,3,4-TRICHLORO-NITROBENZENE
TOXICITY DATA with REFERENCE:
mic-sat 410 µLg/plate MUREAV 116,217,1983
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

NMQ050 CAS: 82-62-2 HR: 3
2-NITRO-3,4,6-TRICHLOROPHENOL
mf: $C_6H_2Cl_3NO_3$ mw: 242.44
SYNS: PHENOL, 2-NITRO-3,4,6-TRICHLORO- □ 3,4,6-TRICHLORO-2-NITROPHENOL
TOXICITY DATA with REFERENCE:
ivn-mus LD50:56 mg/kg CSLNX* NX#05670
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x and Cl^-.

NMQ100 CAS: 400-99-7 HR: 2
2-NITRO-α-α-α-TRIFLUORO-p-CRESOL
mf: $C_7H_4F_3NO_3$ mw: 207.12
SYN: p-CRESOL, 2-NITRO-α-α-α-TRIFLUORO-
TOXICITY DATA with REFERENCE:
ipr-mus LD50:800 mg/kg JPMSAE 57,1763,68
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x and F^-.

NMQ500 CAS: 556-89-8 HR: 3
NITROUREA
DOT: UN 0147
mf: $CH_3N_3O_3$ mw: 105.06
PROP: Crystals or leaflets or prisms from EtOH; or platelets from EtOH/ligroin. Mp: 159°. Sol in hot H_2O (aq solns, unstable). Very sol in Me_2CO, AcOH; sol in EtOH; spar sol in $CHCl_3$, C_6H_6, and ligroin.
SYNS: N-NITROCARBAMIDE □ N-NITROUREA □ 1-NITROUREA
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: EXPLOSIVE 1.1D; Label: EXPLOSIVE 1.1D
SAFETY PROFILE: A very dangerous fire hazard when exposed to heat or flame. A severe explosion hazard when shocked or exposed to heat. Can react vigorously with oxidizing materials. It is a high explosive. Incompatible with mercuric and silver salts. When heated to decomposition it emits highly toxic fumes of NO_x. See also EXPLOSIVES, HIGH; and NITRATES.

NMR000 CAS: 7782-77-6 HR: 3
NITROUS ACID
mf: HNO_2 mw: 47.02
PROP: Known only as pale blue aq soln. Stable in the forms of its many salts. Dehydration yields N_2O_3.
SYNS: KYSELINA DUSITE □ NITROSYL HYDROXIDE
TOXICITY DATA with REFERENCE:
mmo-omi 20 mmol/L EJMBA2 16,133,81
dnr-ssp 132 µmol/L CNJGA8 24,771,82
CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mutation data reported. Flammable by chemical reaction; a powerful oxidizer. Explodes on contact with phosphorus trichloride. Reacts violently with PH_3 and PCl_3. Reactions with 1-amino-5-nitrophenol, ammonium decahydroborate(2−), hydrazine (product is hydrogen azide) may give explosive products. Incompatible with anilines (e.g., 4-bromoaniline, 2-chloroaniline, 3-chloroaniline, 2-nitroaniline, 3-nitroaniline, 4-nitroaniline, aniline), semicarbazone, silver nitrate. When heated to decomposition it emits highly toxic fumes of NO_x. See also NITRIC OXIDE.

NMR100 CAS: 3316-24-3 HR: 2
2-(2-NITROVINYL)ANISOLE
mf: $C_9H_9NO_3$ mw: 179.19
SYNS: ANISOLE, o-(2-NITROVINYL)- (7CI,8CI) □ BENZENE, 1-METHOXY-2-(2-NITROETHENYL)- □ 1-METHOXY-2-(2-NITROETHENYL)BENZENE □ 1-(2-METHOXYPHENYL)-2-NITROETHENE
TOXICITY DATA with REFERENCE:
orl-mus LD50:1059 mg/kg AECTCV 14,111,1985
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NMR300 CAS: 77492-93-4 HR: D
3-NITRO-1-VINYLPYRAZOLECARBOXYLIC ACID
mf: $C_6H_5N_3O_4$ mw: 183.14
SYN: PYRAZOLECARBOXYLIC ACID, 3-NITRO-1-VINYL-
TOXICITY DATA with REFERENCE:
mic-sat 100 nmol/L ENMUDM 3,11,1981
mic-esc 100 µmol/L ENMUDM 3,11,1981
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NMS000 CAS: 25168-04-1 HR: 3
NITROXYLENE
DOT: NA 1665
mf: $C_8H_9NO_2$ mw: 151.18
PROP: Light-yellow liquid. Mp: 2°, bp: 244°, d: 1.135 g/cm^3 @ 15°/4°.
SYNS: NITRODIMETHYLBENZENE □ NITROXYLENE □ NITROXYLENES (o-, m-, p-) (DOT)
TOXICITY DATA with REFERENCE:
orl-rat LD50:2440 mg/kg MarJV# 29MAR77
DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A poison. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NMS500 CAS: 81-20-9 HR: 3
2-NITRO-m-XYLENE
mf: $C_8H_7NO_2$ mw: 149.16
PROP: A liquid. D: 1.11 @ 15°, bp: 225° @ 744 mm.
SYN: 2,6-DIMETHYLNITROBENZENE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:45 mg/kg CSLNX* NX#00236
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of NO_x. See also NITRO COMPOUNDS OF AROMATIC HYDROCARBONS.

NMS520 CAS: 89-58-7 HR: 2
NITRO-p-XYLENE
mf: $C_8H_9NO_2$ mw: 151.18
SYNS: BENZENE, 1,4-DIMETHYL-2-NITRO- □ 1,4-DIMETHYL-2-NITROBENZENE □ p-XYLENE, 2-NITRO-
TOXICITY DATA with REFERENCE:
mma-sat 250 µg/plate SAIGBL 29,34,87
orl-rat LD50:2440 mg/kg 85JCAE -,420,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.

NMT000 CAS: 13444-90-1 HR: 3
NITRYL CHLORIDE
mf: $ClNO_2$ mw: 81.46
PROP: Corrosive, toxic, colorless gas darkens on storage. Decomp >120°, vap d: 2.81 g/L @ 100°, mp: −145°, bp: −14.3°, d: (liquid), 1.37 @ 0°. Hydrol by H_2O to HCl + HNO_3.
SYN: NITROXYL CHLORIDE
SAFETY PROFILE: A poison by inhalation. A corrosive irritant to skin, eyes, and mucous membranes. A powerful oxidizer. The gas or liquid may attack organic matter with explosive violence. Violent reaction with ammonia or sulfur dioxide. Incompatible with tin(II) bromide or tin(II) iodide. Reacts with water or steam to produce corrosive fumes. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also CHLORIDES.

NMT500 CAS: 10022-50-1 HR: 3
NITRYL FLUORIDE
mf: FNO_2 mw: 65.01
PROP: Colorless gas; pungent odor; stable in glass vessels. Hydrol to HNO_3 and HF; highly reactive. Mp: −166.0°, bp: −72.4°, d: (liquid) 1.796 @ bp, d: (solid) 1.924.
SAFETY PROFILE: Poison by inhalation. A severe irritant to skin, eyes, and mucous membranes. A powerful oxidizing agent. This gas is intensely reactive. Explosive reaction with hydrogen at 200−300°C. Ignites on contact with antimony, arsenic, boron, iodine, phosphorus, selenium. Ignites when warmed with bismuth, carbon, chromium, lead, sulfur. Incandescent reaction with aluminum, cadmium, cobalt, iron, molybdenum, nickel, potassium, sodium, thorium, titanium, tungsten, uranium, vanadium, zinc, zirconium, lithium (at 200−300°C), manganese (at 200−300°C). Incompatible with metals, nonmetals. When heated to decomposition it emits toxic fumes of F^- and NO_x. See also FLUORIDES.

NMU000 CAS: 7789-26-6 HR: 3
NITRYL HYPOFLUORITE
mf: FNO_3 mw: 81.00
PROP: Colorless gas, acrid odor. Hydrol to OF_2, O_2, HF and HNO_3. D: (liquid) 1.507 @ −45.9°, (solid) 1.951 @ −193.2°, mp: −175°, bp: −45.9°.
SYN: FLUORINE NITRATE
SAFETY PROFILE: Probably a poison irritant to skin, eyes, mucous membranes. A powerful oxidant and dangerous explosive. Explodes on contact with organic materials (e.g., alcohol; ether; grease). Ignites on mixing with ammonia; dinitrogen oxide; and hydrogen sulfide. When heated to decomposition it emits toxic fumes of F^- and NO_x. See also FLUORIDES and NITRATES.

NMU500 HR: 3
NITRYL PERCHLORATE
mf: $ClNO_6$ mw: 145.46
SAFETY PROFILE: Explosive reaction with org solvs (e.g., benzene; acetone; ether). A common impurity in ammonium perchlorate. The mixture is more sensitive than pure ammonium perchlorate. When heated to decomposition it emits highly toxic fumes of NO_x and Cl^-. See also PERCHLORATES.

NMV000 CAS: 23282-20-4 HR: 3
NIVALENOL
mf: $C_{15}H_{20}O_7$ mw: 312.35
PROP: Crystals from MeOH. Mp: 223−225°. A toxic substance from moldy rice infected by *Fusarium nivale* (CNREA8 28,2393,68).
SYNS: (3-α,4-β,7-α)-12,13-EPOXY-3,4,7,15-TETRAHYDROXY-TRICHOTHEC-9-EN-8-ONE □ 12,13-EPOXY-3,4,7,15-TETRAHYDROXYTRICHOTHEC-9-EN-8-ONE □ 3-α,4-β,7-α,15-TETRAHYDROXYSCIRP-9-EN-8-ONE
TOXICITY DATA with REFERENCE:
skn-gpg 3124 ng MLD FAATDF 4(2, Pt 2),S124,84
dni-mus:ast 1 mg/L EXPEAM 24,1032,68
ipr-mus LD50:4 mg/kg CNREA8 28,2393,68
scu-mus LD50:5200 µg/kg JJEMAG 42,91,72
ivn-mus LD50:6300 µg/kg FAATDF 4(2, Pt 2),S124,84
SAFETY PROFILE: Poison by intravenous, intraperitoneal, and subcutaneous routes. Mutation data reported. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NMV200 CAS: 75680-27-2 HR: D
NIVEUSIN C
mf: $C_{20}H_{26}O_7$ mw: 378.46

SYN: 2-BUTENOIC ACID, 2-METHYL-, 2,3,3A,4,5,6,7,8,9,11A-DECAHYDRO-7,9-DIHYDROXY-6,10-DIMETHYL-3-METHYLENE-2-OXO-6,9-EPOXYCYCLODECA(B)FURAN-4-YL ESTER, (3ar-(3ar*,4R*(Z),6R*,7S*,9R*,10Z, 11ar*))-

TOXICITY DATA with REFERENCE:
dni-mus ast 20 mg/L ZNCBDA 37,1087,1982
uns-mus ast 20 mg/L ZNCBDA 37,1087,1982

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

NMV300 CAS: 90-26-6 HR: 3
NIVONORM
mf: $C_{10}H_{13}NO$ mw: 163.24

SYNS: BENZENEACETAMIDE, α-ETHYL- □ BUTYRAMIDE, α-PHENYL- □ BUTYRAMIDE, 2-PHENYL- □ EUSTEROL □ GERIAPAN □ GERISTEROL □ HYPOSTEROL □ LIPILISOL □ NORMOSTEROLO □ PHENETAMID □ PHENETAMIDE □ PHENEXAN □ 2-PHENYLBUTANAMIDE □ α-PHENYLBUTYR-AMIDE □ 2-PHENYLBUTYRAMIDE □ REDUSTEROL □ SUBSTERINA □ TH 4128

TOXICITY DATA with REFERENCE:
orl-rat LD :>500 mg/kg NCNSA6 5,9,1953
ivn-mus LD50:180 mg/kg CSLNX* NX#02424

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

NMV400 HR: 3
NIZOFENONE FUMARATE
mf: $C_{21}H_{21}ClN_4O_3 \bullet C_4H_4O_4$ mw: 528.99

SYN: 1-(2-(2-CHLOROBENZOYL)-4-NITROPHENYL)-2-(DIETHYLAMINOMETHYL)IMIDAZOLE FUMARATE

TOXICITY DATA with REFERENCE:
ivn-rat TDLo:110 mg/kg (female 7-17D post):TER IYKEDH 16,1,85
orl-rat LD50:1580 mg/kg OYYAA2 30,727,85
scu-rat LD50:1629 mg/kg OYYAA2 30,627,85
ivn-rat LD50:63 mg/kg OYYAA2 30,627,85
orl-mus LD50:495 mg/kg OYYAA2 30,627,85
scu-mus LD50:270 mg/kg OYYAA2 30,627,85
ivn-mus LD50:62 mg/kg OYYAA2 30,627,85

SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of Cl^- and NO_x.

NMV425 CAS: 147526-32-7 HR: 3
NK 104 (ACID)
mf: $C_{50}H_{46}F_2N_2O_8 \bullet Ca$ mw: 881.06

SYN: 6-HEPTENOIC ACID, 7-(2-CYCLOPROPYL-4-(4-FLUOROPHENYL)-3-QUINOLINYL)-3,5-DIHYDROXY-,CALCIUM SALT (2:1), (3R,5S,6E)-

TOXICITY DATA with REFERENCE:
orl-rat LDLo:500 mg/kg OYYAA2 56,67,1998
orl-dog LDLo:100 mg/kg OYYAA2 56,67,1998

SAFETY PROFILE: A poison by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic vapors of NO_x and F^-.

NMV450 CAS: 86451-37-8 HR: 2
NMDHP

SYNS: 3-(METHYLNITROSAMINO)-1,2-PROPANEDIOL □ N-NITROSOMETHYL(2,3-DIHYDROXYPROPYL)AMINE

TOXICITY DATA with REFERENCE:
mmo-sat 500 μg/plate TCMUE9 1,13,84
mma-sat 100 μg/plate TCMUE9 1,13,84
dns-rat:lvr 5 mmol/L MUREAV 144,197,85
orl-rat TDLo:580 mg/kg/40W-I:ETA CALEDQ 22,83,84

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Mutation data reported. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NMV460 CAS: 57228-01-0 HR: 3
o-(2′-(N″-METHYLPIPERAZINE)-N′-ETHYL)-N-(p-CHLOROBENZOYL)-dl-TYROSYLDI-N-PROPYLAMIDE CITRATE
mf: $C_{29}H_{41}ClN_4O_3 \bullet C_6H_8O_7$ mw: 721.33

SYNS: CR 733 □ HYDROCINNAMAMIDE, α-((p-CHLORO-BENZOYL)AMINO)-N,N-DIPROPYL-4-(2-(4-METHYL-1-PIPERA-ZINYL) ETHOXY)-, CITRATE, (+-)-

TOXICITY DATA with REFERENCE:
ivn-rat LD50:43,500 μg/kg USXXAM #4004008

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

NMV480 CAS: 76631-42-0 HR: 3
NOCARDICIN COMPLEX
mf: $C_{16}H_{17}N_3O_3$ mw: 299.36

SYN: FR-1923

TOXICITY DATA with REFERENCE:
orl-mus LD50:10 g/kg 85GDA2 4(1),114,80
ipr-mus LD50:2500 mg/kg 85GDA2 4(1),114,80
ivn-mus LD50:100 mg/kg 85GDA2 4(1),114,80

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

NMV500 CAS: 1404-15-5 HR: 3
NOGALAMYCIN
mf: $C_{39}H_{49}O_{16}$ mw: 773.88

PROP: Orange-red solid from MeOH. Mp: 195−196° (decomp).

SYNS: ANTIBIOTIC NSC 70845 □ ANTIBIOTIC 205T3 □ NOGALOMYCIN □ NSC-70845 □ U-15167

TOXICITY DATA with REFERENCE:
pic-esc 250 ng/plate CNREA8 43,2819,83
dni-hmn:oth 410 nmol/L HXPHAU 38(Pt 2),623,75
ipr-rat LD50:500 μg/kg ADTEAS 3,181,68
ivn-rat LDLo:4600 μg/kg NCIRI* -,192,66
ipr-mus LD50:13,750 μg/kg IJEBA6 17,595,79
ivn-mus LDLo:8500 μg/kg NCIRI* -,192,66
ivn-dog LDLo:250 μg/kg NCIRI* -,192,66

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

NMV600 CAS: 64267-46-5 HR: D
NOGAMYCIN

mf: $C_{37}H_{47}NO_{14}$ mw: 729.85
PROP: Crystals from MeOH/EtOAc. Mp: 210–215° (decomp).
SYN: DISNOGAMYCIN
TOXICITY DATA with REFERENCE:
dni-mus:leu 3200 nmol/L JANTAJ 34,1596,81
dnd-mam:lym 12 µmol/L CBINA8 36,1,81
SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NMV700 CAS: 24526-64-5 HR: 3
NOMIFENSINE
mf: $C_{16}H_{18}N_2$ mw: 238.33
PROP: Mp: 179–181°.
SYNS: 8-AMINO-2-METHYL-4-PHENYL-1,2,3,4-TETRAHYDROISOQUINOLINE □ NOMIFENSIN □ 1,2,3,4-TETRAHYDRO-2-METHYL-4-PHENYL-8-ISOQUINOLINAMINE (9CI)
TOXICITY DATA with REFERENCE:
orl-wmn TDLo:7 mg/kg/7D-I:BLD BMJOAE 288,830,84
orl-wmn TDLo:56 mg/kg/4W-I:LIV BMJOAE 289,1268,84
ivn-rat LD50:72 mg/kg DRUGAY 18,1,79
orl-mus LD50:260 mg/kg ARZNAD 32,873,82
ivn-mus LD50:90 mg/kg DRUGAY 18,1,79
ivn-gpg LD50:264 mg/kg DRUGAY 18,1,79
SAFETY PROFILE: Poison by ingestion and intravenous routes. Human systemic effects by ingestion: diffuse hepatitis, hemorrhage and decrease in the number of blood platelets (thrombocytopenia). When heated to decomposition it emits toxic fumes of NO_x. See also NOMIFENSINE MALEATE.

NMV725 CAS: 32795-47-4 HR: 3
NOMIFENSINE MALEATE
mf: $C_{16}H_{18}N_2 \bullet C_4H_4O_4$ mw: 354.44
PROP: Crystals from EtOH. Mp: 199–201°.
SYNS: ALIVAL □ ALIVAL (ANTIDEPRESSANT) □ 8-AMINO-2-METHYL-4-PHENYL-1,2,3,4-TETRAHYDROISOQUINOLINE MALEATE □ 8-AMINO-1,2,3,4-TETRAHYDRO-2-METHYL-4-PHENYLISOQUINOLINE MALEATE □ (Z)-2-BUTENEDIOATE (1:1) 1,2,3,4-TETRAHYDRO-2-METHYL-4-PHENYL-8-ISOQUINOLINAMINE □ HOE 984 □ HOSTALIVAL □ MERITAL □ NOMIFENSIN □ NOMIFENSINE HYDROGEN MALEATE □ NOMIFENSIN HYDROGEN MALEATE □ PSICRONIZER
TOXICITY DATA with REFERENCE:
orl-man TDLo:66,429 µg/kg/31D-I CMAJAX 133,207,85
ivn-man TDLo:1429 µg/kg/20M-C:CVS,BPR CLPTAT 41,88,87
orl-rat LD50:430 mg/kg ARZNAD 23,45,73
ipr-rat LD50:112 mg/kg OYYAA2 27,1019,84
scu-rat LD50:193 mg/kg OYYAA2 27,1019,84
ivn-rat LD50:66 mg/kg OYYAA2 27,1019,84
orl-mus LD50:300 mg/kg OYYAA2 27,1019,84
ipr-mus LD50:140 mg/kg OYYAA2 27,1019,84
scu-mus LD50:195 mg/kg OYYAA2 27,1019,84
ivn-mus LD50:68 mg/kg OYYAA2 27,1019,84
orl-rbt LD50:854 mg/kg ARZNAD 23,45,73
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. Human systemic effects by intravenous route: heart rate changes, blood pressure elevation. Experimental reproductive effects. An antidepressant. When heated to decomposition it emits toxic fumes of NO_x. See also NOMIFENSINE.

NMV735 CAS: 27753-52-2 HR: 2
NONABROMOBIPHENYL
mf: $C_{12}HBr_9$ mw: 864.32
SYNS: 1,1-BIPHENYL, NONABROMO- □ BROMKAL 80-9D
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of Br^-.

NMV740 CAS: 20982-74-5 HR: 3
NONACARBONYL DIIRON
mf: $C_9Fe_2O_9$ mw: 363.79
SYN: IRON CARBONYL
SAFETY PROFILE: The commercial product ignites on contact with brass when heated above 93°C. When heated to decomposition it emits acrid smoke and irritating fumes.

NMV750 CAS: 49780-10-1 HR: 3
NONACHLAZINE
mf: $C_{22}H_{24}ClN_3OS \bullet 2ClH$ mw: 486.92
PROP: Creamish or yellow-green crystals. Mp: 218–228°.
SYNS: AY-25,329 □ 2-CHLORO-10-(3-(HEXAHYDROPYRROLO-(1,2-a)PYRAZIN-2(1H)-YL)-PROPIONYL)PHENO-THIAZINE 2HCl □ 10'-(β-(1,4-DIAZABICYCLO(4.3.0)-NONANYL-4)-PROPIONYL)-2'-CHLOROPHENTHIAZIN DICHLORIDE
TOXICITY DATA with REFERENCE:
orl-mus LD50:160 mg/kg FATOAO 42,243,79
scu-mus LD50:210 mg/kg FATOAO 44,342,81
ivn-mus LD50:55 mg/kg FATOAO 38(6),732,75
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of SO_x, NO_x, and HCl.

NMV755 CAS: 39765-80-5 HR: 2
trans-NONACHLOR
mf: $C_{10}H_5Cl_9$ mw: 444.20
SYN: 4,7-METHANO-1H-INDENE, 1,2,3,4,5,6,7,8,8-NONACHLOR-2,3,3A,4,7,7A-HEXAHYDRO-, (1-α-2-β, 3-α-3A-α-4-β,7-β,7Aα)-
TOXICITY DATA with REFERENCE:
orl-rat LD50:500 mg/kg NTIS** PB85-143766
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of Cl^-.

NMV760 CAS: 557-48-2 HR: 1
trans,cis-2,6-NONADIENAL
mf: $C_9H_{14}O$ mw: 138.23
PROP: Sltly yellow liquid; powerful, violet-cucumber odor. D: 0.850–0.870, refr index: 1.470, bp: 94–98° @ 11 mm. Sol in alc, fixed oils; insol in water.
SYNS: CUCUMBER ALDEHYDE □ FEMA No. 3317 □ 2,6-NONADIENAL □ trans,cis-2,6-NONADIENAL □ trans-2,cis-6-NONADIENAL □ VIOLET LEAF ALDEHYDE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTOD7 20,769,82

orl-rat LD50:>5 g/kg FCTOD7 20,769,82
skn-rbt LD50:>5 g/kg FCTOD7 20,769,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A moderate skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NMV775 CAS: 5910-87-2 HR: D
trans,trans-2,4-NONADIENAL
mf: $C_9H_{14}O$ mw: 138.21
PROP: Slightly yellow liquid; strong, fatty, floral odor. D: 0.850−0.870, bp: 97−98° @ 10 mm, refr index: 1.522. Sol in alc, fixed oils; insol in water.
SYN: FEMA No. 3212
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

NMV780 CAS: 28069-72-9 HR: 1
trans,cis-2,6-NONADIENOL
mf: $C_9H_{16}O$ mw: 140.25
PROP: White to yellow liquid; powerful, vegetable odor. D: 0.860−0.880, bp: 98−100° @ 11 mm, refr index: 1.464. Insol in water.
SYNS: CUCUMBER ALCOHOL □ FEMA No. 2780 □ NONADIENOL □ 2-trans-6-cis-NONADIEN-1-OL □ VIOLET LEAF ALCOHOL
TOXICITY DATA with REFERENCE:
skn-gpg 100%/24H MOD FCTOD7 20,771,82
orl-mus LD50:>5 g/kg FCTOD7 20,771,82
skn-gpg LD50:>5 g/kg FCTOD7 20,771,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NMV790 HR: D
Δ-NONALACTONE
mf: $C_9H_{16}O_2$ mw: 156.25
SYNS: ALDEHYDE C-18 □ Δ-N-AMYLBUTYROLACTONE □ FEMA No. 3356 □ 5-HYDROXYNONANOIC ACID, LACTONE □ 1,5-NONALOLIDE
PROP: Colorless to pale yellow liquid; coconut odor. D: 0.980, refr index: 1.452.
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

NMV800 CAS: 19430-93-4 HR: 1
3,3,4,4,5,5,6,6-NONAFLUORO-1-HEXENE
mf: $C_6H_3F_9$ mw: 246.09
SYNS: 1-HEXENE, 3,3,4,4,5,5,6,6-NONAFLUORO- □ (PERFLUOROBUTYL)ETHENE □ PERFLUOROBUTYLETHYLENE (ACGIH)
TOXICITY DATA with REFERENCE:
orl-rat LD:>25 g/kg CRTXB2 21,149,90
ihl-mus LC:>7178 ppm/1H CRTXB2 21,149,90
ACGIH TLV: (Proposed: 100 ppm)
SAFETY PROFILE: Low toxicity by ingestion and inhalation routes. When heated to decomposition it emits toxic vapors of F^-.

NMW500 CAS: 124-19-6 HR: 2
1-NONANAL
mf: $C_9H_{18}O$ mw: 142.27
PROP: Colorless to light-yellow liquid; citrus-rose odor. D: 0.820−0.830, refr index: 1.422−1.429, flash p: 162°F, bp: 190−192°. Found in at least 20 essential oils, including rose and citrus oils and several species of pine oil (FCTXAV 11, 95,73). Sol in alc, fixed oils, propylene glycol; insol in glycerin.
SYNS: ALDEHYDE C-9 □ C-9 ALDEHYDE □ FEMA No. 2782 □ NCI-C61018 □ 1-NONALDEHYDE □ 1-NONYL ALDEHYDE □ PELARGONIC ALDEHYDE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV FCTXAV 11,1079,73
sce-rat:lvr 100 nmol/L MUREAV 290,183,93
msc-ham:lng 100 μmol/L MUTAEX 4,277,89
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A severe skin irritant. Combustible liquid. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

NMX000 CAS: 111-84-2 HR: 3
NONANE
mf: C_9H_{20} mw: 128.29
PROP: Colorless liquid. Mp: −53.7°, fp: −51°, bp: 150.7°, lel: 0.8%, uel: 2.9%, flash p: 88°F (CC), d: 0.718 @ 20°/4°, autoign temp: 374°F, vap press: 10 mm @ 38.0°, vap d: 4.41. Insol in water; sol in abs alc and ether.
SYN: SHELLSOL 140
TOXICITY DATA with REFERENCE:
ihl-rat LC50:3200 ppm/4H TXAPA9 44,53,78
ivn-mus LD50:218 mg/kg JPMSAE 67,566,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
OSHA PEL: TWA 200 ppm
ACGIH TLV: TWA 200 ppm
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Poison by intravenous route. Mildly toxic by inhalation. Irritating to respiratory tract. Narcotic in high concentrations. A very dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. Emitted from modern building materials (CENEAR 69,22,91). To fight fire, use CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

NMX500 CAS: 31080-39-4 HR: 2
4-NONANECARBOXYLIC ACID
mf: $C_{10}H_{20}O_2$ mw: 172.30
SYNS: 2-PROPYLHEPTANIC ACID □ 2-PROPYLHEPTANSAEURE (GERMAN)
TOXICITY DATA with REFERENCE:
orl-rat LDLo:2500 mg/kg ARZNAD 3,86,53
ipr-rat LDLo:1 g/kg ARZNAD 3,86,53
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

NMX550 CAS: 39864-15-8 HR: 1
1,3-NONANEDIOL ACETATE
mf: $C_{13}H_{24}O_4$ mw: 244.37
SYNS: JASMONYL □ NONANEDIOL-1,3 ACETATE □ NONANEDIOL, DIACETATE □ NONANEDIOL DIACETATE
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MLD FCTOD7 20,773,1982
orl-rat LD50:>5 g/kg FCTOD7 20,773,1982
skn-rbt LD50:>5 g/kg FCTOD7 20,773,1982
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

NMX600 CAS: 20190-95-8 HR: 1
NONANOHYDROXAMIC ACID
mf: $C_9H_{19}NO_2$ mw: 173.29
SYNS: N-HYDROXYNONANAMIDE □ NONANAMIDE, N-HYDROXY- □ PELARGONHYDROXAMIC ACID □ PELARGON-YL HYDROXAMIC ACID
TOXICITY DATA with REFERENCE:
orl-rat LD50:>16 g/kg GISAAA 42(3),99,77
orl-mus LD50:15 g/kg GISAAA 42(3),99,77
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NMY000 CAS: 112-05-0 HR: 3
NONANOIC ACID
mf: $C_9H_{18}O_2$ mw: 158.27
PROP: Oily, irritant, colorless liquid, with characteristic odor. Fp: 12.24°, mp: 12°, bp: 254°, d: 0.9055 @ 20°/4°. Very sltly sol in water.
SYNS: CIRRASOL 185A □ EMFAC 1202 □ HEXACID C-9 □ n-NONOIC ACID □ n-NONYLIC ACID □ 1-OCTANECARBOXYLIC ACID □ PELARGIC ACID □ PELARGON (RUSSIAN) □ PELARGONIC ACID
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 16,839,78
eye-rbt 91 mg SEV EMERY* S3B,-,64
skn-gpg 100% SEV FCTXAV 16,839,78
orl-rat LDLo:3200 mg/kg 14CYAT 2,1788,63
orl-mus LD50:15 g/kg GISAAA 42(3),99,77
ivn-mus LD50:224 mg/kg APTOA6 18,141,61
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. A severe skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NMY500 CAS: 821-55-6 HR: 2
2-NONANONE
mf: $C_9H_{18}O$ mw: 142.27
PROP: Colorless liquid. Mp: −9°, fp: −15°, bp: 194°, flash p: 160°F (CC), vap d: 4.9, d: 0.832 @ 30°. Insol in water; sol in alc, ether.
SYNS: HEPTYL METHYL KETONE □ METHYL HEPTYL KETONE □ NONAN-2-ONE
TOXICITY DATA with REFERENCE:
orl-rat LD50:3200 mg/kg KODAK* -,-,71
orl-mus LD50:7994 mg/kg TOLED5 30,13,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO_2, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes.

NMZ000 CAS: 502-56-7 HR: 3
5-NONANONE
mf: $C_9H_{18}O$ mw: 142.27
PROP: A liquid. Bp: 181−182°.
SYNS: BUTYL KETONE □ DIBUTYL KETONE □ NONAN-5-ONE □ 5-OXONONANE
TOXICITY DATA with REFERENCE:
orl-rat LDLo:1000 mg/kg CTOXAO 17,271,80
ivn-mus LD50:1379 mg/kg JPMSAE 67,566,78
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Moderately toxic by ingestion and intravenous routes. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

NNA000 CAS: 63021-51-2 HR: 2
1-NONANOYLAZIRIDINE
mf: $C_{11}H_{21}NO$ mw: 183.33
SYN: NONANOYLETHYLENEIMINE
SAFETY PROFILE: Questionable carcinogen with experimental neoplastigenic and tumorigenic data. When heated to decomposition it emits toxic fumes of NO_x.

NNA100 CAS: 762-13-0 HR: 1
NONANOYL PEROXIDE
DOT: UN 2130
mf: $C_{18}H_{34}O_4$ mw: 314.52
SYNS: DIPELARGONYL PEROXIDE □ PELARGONOYL PEROXIDE □ PELARGONYL PEROXIDE □ PELARGONYL PEROXIDE, technically pure (DOT) □ PEROXIDE, BIS(1-OXONONYL)
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: A peroxide. Handle with care. When heated to decomposition it emits acrid smoke and irritating vapors.

NNA300 CAS: 2463-53-8 HR: 2
2-NONENAL
mf: $C_9H_{16}O$ mw: 140.25
PROP: White to sltly yellow liquid; fatty, violet odor. D: 0.850−0.870, refr index: 1.457. Sol in alc, fixed oils; insol in water.
SYNS: FEMA No. 3213 □ β-HEXYLACROLEIN □ NON-2-ENAL □ 2-NONEN-1-AL □ α-NONENYL ALDEHYDE □ trans-2-NONENAL (FCC)
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV FCTOD7 20(Suppl),775,82
orl-rat LD50:5 g/kg FCTOD7 20(Suppl),775,82
msc-ham:lng 10 μmol/L MUREAV 244,153,90
orl-rat LD50:5 g/kg FCTOD7 20,775,82
skn-rbt LD50:3700 mg/kg FCTOD7 20(Suppl),775,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by skin contact. Mildly toxic by ingestion. A severe skin irritant. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES.

NNA325 CAS: 2277-19-2 HR: 3
6-NONENAL, (Z)-
mf: $C_9H_{16}O$ mw: 140.25
PROP: A liquid. Flash p: 130°F.
SYNS: cis-6-NONENAL □ cis-6-NONEN-1-AL □ (Z)-6-NONENAL
TOXICITY DATA with REFERENCE:
skn-gpg 100%/24H MLD FCTOD7 20,777,82
orl-mus LD50:>5 g/kg FCTOD7 20,777,82
skn-gpg LD50:>5 g/kg FCTOD7 20,777,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. Flammable liquid when exposed to heat, sparks, or flame. When heated to decomposition it emits acrid smoke and irritating fumes.

NNA530 HR: D
cis-6-NONEN-1-OL
mf: $C_9H_{18}O$ mw: 142.23
PROP: White to slightly yellow liquid; powerful, melonlike odor. D: 0.850−0.870, refr index: 1.448. Insol in water.
SYN: FEMA No. 3465
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

NNA532 HR: D
trans-2-NONEN-1-OL
mf: $C_9H_{18}O$ mw: 142.23
PROP: White liquid; fatty, violet odor. D: 0.830−0.850, refr index: 1.444−1.448. Insol in water.
SYN: FEMA No. 3379
SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

NNA600 CAS: 67292-57-3 HR: 3
2-NONEN-2-OL-4-ONE-1,1,1-TRIFLUORODI-METHYLTHALLIUM SALT
mf: $C_{11}H_{18}F_3O_2Tl$ mw: 443.66
PROP: IDLH 15 mg/m^3 (as Tl).
SYNS: 2-NONEN-2-OL, 4-OXO-1,1,1-TRIFLUORO-, DIMETHYL-THALLIUMSALT □ THALLIUM, DIMETHYL(1,1,1-TRIFLUORO-2,4-NONANEDIONATO-O,O')-, (T-4)- (9CI) □ TL 364
TOXICITY DATA with REFERENCE:
ihl-mus LCLo:2170 µ/m^3/10M NDRC** NDCrc-132,DEC1942
ACGIH TLV: TWA 0.1 mg(Tl)/m^3 (skin)
SAFETY PROFILE: A poison by inhalation. When heated to decomposition it emits toxic vapors of Tl and F^-.

NNB000 HR: 3
2-NONEN-4,6,8-TRIYN-1-AL
mf: C_9H_4O mw: 128.13
$H(C{\equiv}C)_3CH{=}CHCO{\bullet}H$
SAFETY PROFILE: Very unstable. Can explode at room temperature. Upon decomposition it emits acrid smoke and irritating fumes. See also ALDEHYDES and ACETYLENE COMPOUNDS.

NNB300 CAS: 26027-38-3 HR: 3
NONOXYNOL-9
mf: $(C_2H_4O)_n{\bullet}C_{15}H_{24}O$
PROP: Very stable. Compounds with *n*<15 are yellow to almost colorless liquids; *n*>20 are pale-yellow to off-white pastes or waxes. Compounds with *n*<6 are sol in oil; higher *n*'s are sol in water. Almost colorless liquid. D: 1.06, fp: 26°F, pour point: 37°F, flash p: 535−555°F, visc (25°): 175−250 cp. Sol in water, ethanol, ethylene glycol, ethylene dichloride, xylene, corn oil. Insol in Stoddard solvent, deodorized kerosene, low-viscosity white mineral oil.
SYNS: N-9 □ NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL □ NP-9
TOXICITY DATA with REFERENCE:
otr-mus:fbr 10 ppm CRNGDP 3,553,82
ipr-mus LD50:150 mg/kg CCPTAY 33,1,86
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. Experimental reproductive effects. Mutation data reported. An active ingredient in contraceptive jellies, foams, and creams. Combustible when exposed to heat or flames. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.

NNB400 CAS: 143-13-5 HR: 2
NONYL ACETATE
mf: $C_{11}H_{22}O_2$ mw: 186.29
PROP: Colorless liquid; fruity odor. D: 0.864, refr index: 1.422, flash p: 153°F. Sol in alc, ether; insol in water.
SYN: FEMA No. 2788
SAFETY PROFILE: Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

NNB500 CAS: 143-08-8 HR: 2
n-NONYL ALCOHOL
mf: $C_9H_{20}O$ mw: 144.29
PROP: Colorless to yellow liquid; rose-citrus odor. D: 0.827 @ 20°/4°, refr index: 1.43−1.435, mp: −5°, bp: 213.5°, flash p: 169°F. Insol in water; misc in alc, ether, chloroform.
SYNS: ALCOHOL C-9 □ FEMA No. 2789 □ NONALOL □ NONAN-1-OL □ 1-NONANOL □ NONYL ALCOHOL □ OCTYL CARBINOL □ PELARGONIC ALCOHOL
TOXICITY DATA with REFERENCE:
ipr-rat LD50:800 mg/kg 38MKAJ 2C,4628,82
orl-mus LD50:6400 mg/kg 38MKAJ 2C,4628,82
orl-mus LDLo:10 g/kg TPKVAL 5,51,63
ihl-mus LC50:5500 mg/m^3/2H 85GMAT -,94,82
skn-rbt LD50:5660 mg/kg FCTXAV 11,95,73
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion, skin contact, and inhalation. Experimental reproductive effects. Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.

NNB600 CAS: 60254-68-4 HR: 1
NONYL N,N-DIETHYLOXAMATE
mf: $C_{15}H_{29}NO_3$ mw: 271.45
SYNS: ACETIC ACID, (DIETHYLAMINO)OXO-, NONYL ESTER ☐ NONYL (DIETHYLAMINO)OXOACETATE
TOXICITY DATA with REFERENCE:
orl-mus LD50:20 g/kg VETNAL 52(5),42,1975
SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NNC100 CAS: 63885-67-6 HR: 3
o-NONYL-HARMOL HYDROCHLORIDE
mf: $C_{21}H_{27}N_2O$•ClH mw: 359.92
SYN: 1-METHYL-7-(NONYLOXY)-9H-PYRIDO(3,4-b)INDOLE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:150 mg/kg QJPPAL 5,63,32
ipr-gpg LDLo:200 mg/kg QJPPAL 5,63,32
scu-frg LDLo:210 mg/kg QJPPAL 5,63,32
SAFETY PROFILE: Poison by subcutaneous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NNC500 CAS: 25154-52-3 HR: 2
NONYL PHENOL (mixed isomers)
mf: $C_{15}H_{24}O$ mw: 220.39
PROP: Clear, straw-colored, viscous liquid; slt phenolic odor. Bp: 293–297°, pour point: 2°, vap d: 7.59, flash p: 285°F, d: 0.949 @ 20°/4°. Insol in water, dil aq NaOH; sol in benzene, chlorinated solvents, aniline, heptane, aliphatic alc, ethylene glycol.
SYNS: 2,6-DIMETHYL-4-HEPTYLPHENOL, (o and p) ☐ HYDROXY No. 253
TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H SEV AMIHBC 4,119,51
skn-rbt 500 mg open MOD UCDS** 6/9/59
eye-rbt 50 µg SEV AMIHBC 4,119,51
orl-rat LD50:1620 mg/kg UCDS** 6/9/59
skn-rbt LD50:2140 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A severe skin and eye irritant. Combustible when exposed to heat or flame. When heated to decomposition it emits acrid smoke and irritating fumes.

NNC510 CAS: 104-40-5 HR: 2
4-NONYLPHENOL
mf: $C_{15}H_{24}O$ mw: 220.39
SYNS: PARA-NONYL PHENOL ☐ PHENOL, p-NONYL-
TOXICITY DATA with REFERENCE:
orl-rat LD50:1620 mg/kg NTIS** PB85-143766
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

NNC600 CAS: 84852-15-3 HR: 2
p-NONYLPHENOL, BRANCHED
mf: $C_{15}H_{24}O$ mw: 220.39
SYNS: NONYLPHENOL ☐ PHENOL, 4-NONYL-, BRANCHED
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H SEV JACTDZ 1,70,90
eye-rbt 100 mg SEV JACTDZ 1,70,90
orl-rat LD50:1300 mg/kg JACTDZ 1,70,90
skn-rbt LDLo:3160 mg/kg JACTDZ 1,70,90
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A severe skin and eye irritant. When heated to decomposition it emits acrid smoke and irritating vapors.

NNC650 CAS: 127087-87-0 HR: D
NONYLPHENOL POLYETHYLENE GLYCOL ETHER
mf: $C_{23}H_{40}O_5$ mw: 396.63
SYNS: NONYLPHENOL ETHOXYLATE ☐ TERGITOL NP-4 SURFACTANT
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

NNC700 CAS: 41506-14-3 HR: 2
23-(4-NONYLPHENOXY)-3,6,9,12,15,18,21-HEPTAOXATRICOSAN-1-OL
mf: $C_{31}H_{56}O_9$ mw: 572.87
SYNS: ALFENOLU 8 ☐ ALPHENOL 8 ☐ 3,6,9,12,15,18,21-HEPTAOXATRICOSAN-1-OL, 23-(4-NONYLPHENOXY)-
TOXICITY DATA with REFERENCE:
par-rat LD50:5585 mg/kg ANNPHR 10,23,73
par-mus LD50:1110 mg/kg ANNPHR 10,23,73
SAFETY PROFILE: Moderately toxic by parenteral route. When heated to decomposition it emits acrid smoke and irritating vapors.

NND000 CAS: 11096-42-7 HR: 2
NONYLPHENOXYPOLYETHYLENEOXY ETHANOL-IODINE COMPLEX
mf: $(C_2H_4O)_n$•$C_{15}H_{24}O$•xI_2
SYNS: BIOPAL CVL-10 ☐ BIOPAL NR-20 ☐ BIOPAL VRO 10 ☐ BIOPAL VRO 20
TOXICITY DATA with REFERENCE:
orl-rat LD50:2100 mg/kg 28ZEAL 4,301,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. A disinfecting cleaner. When heated to decomposition it emits toxic fumes of I^-. See also IODIDES.

NND100 CAS: 64128-32-1 HR: 2
1-(4-NONYLPHENYL)ETHANONE OXIME
mf: $C_{17}H_{27}NO$ mw: 261.45
SYNS: ETHANONE, 1-(4-NONYLPHENYL)-, OXIME ☐ MOC-45 ☐ NONYL ACETOPHENONE OXIME
TOXICITY DATA with REFERENCE:

skn-rbt 500 µL/24H SEV NTIS** OTS0545418
SAFETY PROFILE: A severe skin irritant. When heated to decomposition it emits toxic vapors of NO_x.

NND200 CAS: 127087-87-0 HR: D
α-(4-NONYLPHENYL)-OMEGA-HYDROXYPOLY-(OXY-1,2-ETHANEDIYL)-BRANCHED
SYNS: POLY(OXY-1,2-ETHANEDIYL)-, α-(4-NONYLPHENYL)-OMEGA-HYDROXY-, BRANCHED □ TERGITOL NP-4 SURFACTANT
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

NND500 CAS: 9016-45-9 HR: 2
NONYL PHENYL POLYETHYLENE GLYCOL ETHER
mf: $(C_2H_4O)_n$•$C_{15}H_{24}O$
SYNS: CHEMAX NP SERIES □ GLYCOLS, POLYETHYLENE, MONO(NONYLPHENYL) ETHER □ NONOXYNOL □ NONYLPHENOL, POLYOXYETHYLENE ETHER □ NONYL PHENYL POLYETHYLENE GLYCOL □ POLYOXYETHYLENE NONYLPHENOL □ TERGITOL NPX □ TRITON N-100 □ TRYCOL NP-1
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg open MLD UCDS** 6/16/65
eye-rbt 5 mg SEV UCDS** 6/16/65
orl-rat LD50:1310 mg/kg UCDS** 6/16/65
skn-rbt LD50:2000 mg/kg UCDS** 6/16/65
CONSENSUS REPORTS: Glycol ether compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin and severe eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. See also GLYCOL ETHERS.

NNE000 CAS: 5283-67-0 HR: 2
NONYLTRICHLOROSILANE
DOT: UN 1799
mf: $C_9H_{19}Cl_3Si$ mw: 261.72
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 8; Label: Corrosive
SAFETY PROFILE: A corrosive irritant to skin, eyes, and mucous membranes. When heated to decomposition it emits toxic fumes of Cl^-. See also CHLOROSILANES.

NNE100 CAS: 13257-44-8 HR: 1
2-NONYNAL DIMETHYLACETAL
mf: $C_{11}H_{20}O_2$ mw: 184.31
SYNS: 2-NONYN-1-AL DIMETHYLACETAL □ 2-NONYNAL, DIMETHYL ACETAL □ PARMAVERT
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTOD7 20,779,82
orl-rat LD50:>5 g/kg FCTOD7 20,779,82
skn-rbt LD50:>5 g/kg FCTOD7 20,779,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Low toxicity by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NNE400 CAS: 7491-74-9 HR: 1
NOOTROPYL
mf: $C_6H_{10}N_2O_2$ mw: 142.18
PROP: Crystals from isopropanol. Mp: 151.5−152.5°
SYNS: 1-ACETAMIDO-2-PYRROLIDINONE □ CEREBROFORTE □ ENCETROP □ EUVIFOR □ GABACET □ GENOGRIS □ 2-KETOPYRROLIDINE-1-YLACETAMIDE □ NOOTRON □ NOOTROPIL □ NORMABRAIN □ NORZETAM □ 2-OXOPYRROLIDINE ACETAMIDE □ 2-OXO-1-PYRROLIDINE-ACETAMIDE □ 2-OXOPYRROLIDIN-1-YLACETAMIDE □ PIRACETAM □ PIRAZETAM □ PIRROXIL □ PYRACETAM □ PYRAMEM □ 2-PYRROLIDINONEACETAMIDE □ 2-PYRROLIDONEACETAMIDE □ UCB 6215
TOXICITY DATA with REFERENCE:
orl-rat LDLo:5600 mg/kg FRPPAO 32,47,77
orl-mus LDLo:10 g/kg FRPPAO 32,47,77
scu-mus LD50:12 g/kg KHFZAN 11(8),132,77
ivn-mus LD50:10 g/kg KHFZAN 11(8),132,77
SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

NNE500 CAS: 101975-70-6 HR: 3
NOPCO 2272-R
PROP: Sulfated butyl oleate (JAPMA8 38,428,49).
TOXICITY DATA with REFERENCE:
eye-rbt 1% MLD JAPMA8 38,428,49
orl-mus LD50:8750 mg/kg JAPMA8 38,428,49
ivn-mus LD50:63 mg/kg JAPMA8 38,428,49
SAFETY PROFILE: Low toxicity by ingestion. Poison by intravenous route. An eye irritant. When heated to decomposition it emits toxic fumes of SO_x.

NNE525 CAS: 3414-63-9 HR: 3
(+−)-NORADRENALINE BITARTRATE
mf: $C_8H_{11}NO_3$•$C_4H_6O_6$ mw: 319.30
SYNS: (+−)-ARTERENOL BITARTRATE □ BENZYL ALCOHOL, α-(AMINOMETHYL)-3,4-DIHYDROXY-, (+−)-, TARTRATE (1:1) (SALT) □ 1,2-BENZENEDIOL, 4-(2-AMINO-1-HYDROXYETHYL)-, (+−)-, (R-(R*,R*))-2,3-DIHYDROXYBUTANEDIOATE (1:1) (SALT) □ dl-NORADRENALINE BITARTRATE □ (+−)-NOREPINEPHRINE BITARTRATE □ dl-NOREPINEPHRINE BITARTRATE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:31 mg/kg VHTODE 39,214,1997
SAFETY PROFILE: A poison by intraperitoneal route. When heated to decomposition it emits toxic vapors of NO_x.

NNE550 CAS: 360-70-3 HR: D
NORANDROSTENOLONE DECANOATE
mf: $C_{28}H_{44}O_3$ mw: 428.72
PROP: Crystals from EtOH (aq). Mp: 38−39°.
SYNS: DECA-DURABOL □ DECA-DURABOLIN □ ESTR-4-EN-3-ONE, 17-β-HYDROXY-, DECANOATE □ ESTR-4-EN-3-ONE, 17-((1-OXODECYL)OXY)-, (17-β)- (9CI) □ 17-β-HYDROXYESTR-4-EN-3-ONE DECANOATE □ NANDROLONE DECANOATE □ 19-NORANDROSTENOLONE DECANOATE □ NORTESTO-

STERONE DECANOATE □ 19-NORTESTOSTERONE DECANOATE □ RETABOLIL

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

NNE600 CAS: 797-58-0 HR: 1
NORBOLETHONE
mf: $C_{21}H_{32}O_2$ mw: 316.53
PROP: Anabolic steroid.
SYN: 18,19-DINOR-17-α-PREGN-4-EN-3-ONE, 13-ETHYL-17-HYDROXY-
TOXICITY DATA with REFERENCE:
orl-mus LD50:5010 mg/kg TXAPA9 18,185,71
SAFETY PROFILE: Mildly toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

NNF000 CAS: 991-42-4 HR: 3
NORBORMIDE
mf: $C_{33}H_{25}N_3O_3$ mw: 511.61
PROP: Crystals. Mp: 190−198°. Insol in water.
SYNS: COMPOUND S-6,999 □ ENT 51,762 □ 5-(α-HYDROXY-α-2-PYRIDYLBENZYL)-7-(α-2-PYRIDYLBENZYLIDENE)-5-NORBORNENE-2,3-DICARBOXIMIDE □ MCN 1025 □ RATICATE □ S-6,999 □ SHOXIN
TOXICITY DATA with REFERENCE:
orl-rat LD50:3800 µg/kg NYKZAU 66,224,70
ivn-rat LDLo:250 µg/kg EJPHAZ 16,117,71
orl-mus LD50:2250 mg/kg 28ZEAL 5,167,76
orl-dog LD50:1 g/kg YKYUA6 31,1385,80
orl-mky LD50:1 g/kg YKYUA6 31,1385,80
orl-cat LD50:1 g/kg YKYUA6 31,1385,80
orl-rbt LD50:1 g/kg YKYUA6 31,1385,80
orl-gpg LD50:300 mg/kg YKYUA6 31,1385,80
orl-ham LD50:140 mg/kg 31ZOAD 1,323,68
SAFETY PROFILE: Poison by ingestion and intravenous routes. A rodenticide. When heated to decomposition it emits toxic fumes of NO_x.

NNG000 CAS: 121-46-0 HR: 3
NORBORNADIENE
DOT: UN 2251
mf: C_7H_8 mw: 92.15
PROP: A liquid. Fp: −19.1°, bp: 90.3°.
SYNS: BICYCLO(2.2.1)HEPTADIENE □ 2,5-NORBORNADIENE
TOXICITY DATA with REFERENCE:
orl-rat LD50:890 mg/kg SHELL*
ihl-rat LC50:14,100 ppm/8H SCCUR* -,1,61
ipr-rat LD50:890 mg/kg SCCUR* -,1,61
orl-mus LD50:3850 mg/kg SCCUR* -,1,61
ihl-mus LC50:27,700 ppm/30M SCCUR* -,1,61
ivn-mus LD50:56 mg/kg CSLNX* NX#04158
CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. Mildly toxic by inhalation. A flammable liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

NNG500 CAS: 61242-71-5 HR: 2
endo-2-NORBORNANECARBOXYLIC ACID ETHYL ESTER
mf: $C_{10}H_{16}O_2$ mw: 168.26
SYN: 2,5-ENDOMETHYLENE CYCLOHEXANECARBOXYLIC ACID, ETHYL ESTER (mixed formyl isomers)
TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62
orl-rat LD50:7460 mg/kg AIHAAP 23,95,62
skn-rbt LD50:10 g/kg AIHAAP 23,95,62
SAFETY PROFILE: Mildly toxic by ingestion and skin contact. A skin irritant. Can react violently with HNO_3; 2-aminoethanol; chlorosulfonic acid; ethylene diamine; ethylene imine; oleum; H_2SO_4; K-tert-butoxide. Can react with oxidizing materials. To fight fire, use foam, alcohol foam, CO_2, dry chemical. When heated to decomposition emits acrid smoke and irritating fumes. See also ESTERS.

NNH000 CAS: 5240-72-2 HR: 2
2-NORBORNANEMETHANOL
mf: $C_8H_{14}O$ mw: 126.22
SYNS: EXPERIMENTAL CHEMOTHERAPEUTANT 1,207 □ 2-HYDROXYMETHYLBICYCLO(2.2.1)HEPTANE □ 2-HYDROXYMETHYLNORCAMPHANE □ 2-NORCAMPHANE METHANOL
TOXICITY DATA with REFERENCE:
skn-rbt 10 mg/24H open MLD AIHAAP 23,95,62
orl-rat LD50:1600 mg/kg 28ZEAL 4,302,69
skn-rbt LDLo:800 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NNH500 CAS: 498-66-8 HR: 1
2-NORBORNENE
mf: C_7H_{10} mw: 94.17
PROP: Crystals by sublimation. Mp: 44−44.5°, bp: 94−97° @ 740 mm.
SYNS: NORBORNYLENE □ NORCAMPHENE
TOXICITY DATA with REFERENCE:
orl-rat LD50:11,300 mg/kg AIHAAP 30,470,69
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Mildly toxic by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes.

NNH600 CAS: 95-11-4 HR: 3
5-NORBORNENE-2-CARBONITRILE
mf: C_8H_9N mw: 119.18
SYN: BICYCLO(2.2.1)HEPT-5-ENE-2-CARBONITRILE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:10 mg/kg CSLNX* NX#00780
SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.

NNI000 CAS: 4582-21-2 HR: 2
trans-5-NORBORNENE-2,3-DICARBONYL

CHLORIDE
mf: $C_9H_8Cl_2O_2$ mw: 219.07
SYN: trans-BICYCLO(2.2.1)HEPT-5-ENYL-2,3-DICARBONYL-CHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:1830 mg/kg TXAPA9 28,313,74
skn-rbt LD50:1000 mg/kg TXAPA9 28,313,74
SAFETY PROFILE: Moderately toxic by ingestion and skin contact. When heated to decomposition it emits toxic fumes of Cl^-.

NNI100 CAS: 4634-47-3 HR: 3
5-NORBORNENE-2,3-DICARBOXIMIDE, 5-(α-HYDROXY-α-2-PYRIDYLBENZYL)-N-(2-METHOXYETHYL)-7-(α-2-PYRIDYL-BENZYLIDENE)-, ENDO-
mf: $C_{36}H_{31}N_3O_4$ mw: 569.70
TOXICITY DATA with REFERENCE:
orl-rat LD50:9 mg/kg JMCMAR 9,537,66
SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NNI150 CAS: 10027-06-2 HR: 2
2-NORBORNYL ACRYLATE
mf: $C_9H_{14}O_2$ mw: 154.23
SYN: ACRYLIC ACID, 2-NORBORNYL ESTER
TOXICITY DATA with REFERENCE:
orl-rat LD50:5660 µL/kg AIHAAP 30,470,69
skn-rbt LD50:880 µL/kg AIHAAP 30,470,69
SAFETY PROFILE: Moderately toxic by skin contact. Low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating vapors.

NNJ600 HR: 3
NORBUTORPHANOL TARTRATE
mf: $C_{16}H_{21}NO_2$•1/2$C_4H_6O_6$ mw: 334.39
SYN: 1-6,10a-β-DIHYDROXY-1,2,3,9,10,10a-HEXAHYDRO-4H(10),4a-IMINOETHANOPHENANTHRENE TARTRATE
TOXICITY DATA with REFERENCE:
scu-rat LD50:315 mg/kg IYKEDH 13,792,82
ivn-rat LD50:53,900 µg/kg IYKEDH 13,792,82
scu-mus LD50:182 mg/kg IYKEDH 13,792,82
ivn-mus LD50:29,300 µg/kg IYKEDH 13,792,82
SAFETY PROFILE: Poison by subcutaneous and intravenous routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x.

NNK000 CAS: 497-38-1 HR: 3
NORCAMPHOR
mf: $C_7H_{10}O$ mw: 110.17
SYN: 2-NORBORNANONE
TOXICITY DATA with REFERENCE:
ivn-mus LD50:180 mg/kg CSLNX* NX#04039
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes.

NNK500 CAS: 303-26-4 HR: D
NORCHLORCYCLIZINE
mf: $C_{17}H_{19}ClN_2$ mw: 286.83
SYNS: N-(p-CHLOROBENZHYDRYL)PIPERAZINE ◻ 4-(4-CHLOROBENZHYDRYL)PIPERAZINE ◻ 1-(4-CHLORO-BENZHYDRYL)PIPERAZINE ◻ 1-(4-CHLORO-α-PHENYL-BENZYL)PIPERAZINE ◻ 1-(α-PHENYL-4-CHLOROBENZYL)-PIPERAZINE
SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x and Cl^-.

NNL000 CAS: 18719-22-7 HR: D
NORCHLORCYCLIZINE HYDROCHLORIDE
mf: $C_{17}H_{19}ClN_2$•7ClH mw: 542.05
SYNS: 1-(p-CHLORO-α-PHENYLBENZYL)-PIPERAZINE HYDROCHLORIDE ◻ 1-(α-(4-CHLOROPHENYL)BENZYL)-PIPERAZINE HYDROCHLORIDE
SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and Cl^-.

NNL400 CAS: 16111-27-6 HR: 3
NORDIMAPRIT
mf: $C_5H_{13}N_3S$•2ClH mw: 220.19
SYNS: CARBAMIMIDOTHIOIC ACID-2-(DIMETHYLAMINO)-ETHYL ESTER DIHYDROCHLORIDE ◻ N,N-DIMETHYL-β-AMINOAETHYL-ISOTHIURONIUM DIHYDROCHLORID (GERMAN) ◻ 2-DIMETHYLAMINOETHYLISOTHIURONIUM CHLORIDE HYDROCHLORIDE ◻ s-(2-(DIMETHYLAMINO)-ETHYL)PSEUDOTHIOUREA DIHYDROCHLORIDE ◻ 2-(2-(DIMETHYLAMINO)ETHYL)-2-THIOPSEUDOUREA DIHYDROCHLORIDE ◻ SKF 91487
TOXICITY DATA with REFERENCE:
ipr-mus LD50:150 mg/kg YKKZAJ 92,442,72
scu-mus LD50:63 mg/kg ARZNAD 7,576,57
ivn-mus LD50:49,100 µg/kg YKKZAJ 88,156,68
SAFETY PROFILE: Poison by subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x, SO_x, and HCl.

NNL500 CAS: 8056-51-7 HR: 2
NORDIOL-28
mf: $C_{21}H_{28}O_2.C_{20}H_{24}O_2$ mw:608.93
SYNS: DUOLUTON ◻ EDIWAL ◻ ETHINYL ESTRADIOL mixed with NORGESTREL ◻ ETHINYLESTRADIOL mixed with dl-NORGESTREL ◻ ETHINYLOESTRADIOL mixed with NORG-ESTREL ◻ EUGYON ◻ FOLLINYL ◻ GRAVISTAT ◻ LO/OVRAL ◻ MICROGYNON ◻ MINIDRIL ◻ NEOGYNON ◻ NEOVLETTA ◻ NORDETTE ◻ NORDIOL ◻ NORGESTREL mixed with ETHINYL ESTRADIOL ◻ dl-NORGESTREL mixed with ETHINYLESTRADIOL ◻ ORASECRON ◻ OVIDON ◻ OVRAL ◻ OVRAL 21 ◻ OVRAL 28 ◻ OVRAN ◻ OVRANETT ◻ PRIMOVL-AR ◻ PRO-DUOSTERONE ◻ RIGEVIDON ◻ SEQUILAR ◻ SEQUOSTAT ◻ SH 71121 ◻ SHB 261AB ◻ SHB 264AB ◻ STEDIRIL ◻ STEDIRIL D ◻ TRIQUILAR ◻ WL 20 ◻ WL 33 ◻ WY-E 104
TOXICITY DATA with REFERENCE:
orl-wmn TDLo:18,144 µg/kg/12Y-I:CAR,LIV LANCAO 1,273,80
orl-wmn TD:5 mg/kg/26W-I:NEO,LIV LANCAO 2,926,73

orl-wmn TD:756 µg/kg/26W-I:NEO,LIV MJAUAJ 2,223,78
orl-wmn TD:50 mg/kg/5Y-I:CAR,LIV JAMAAP 235,730,76
SAFETY PROFILE: Human reproductive effects by ingestion: menstrual cycle changes or disorders, postpartum changes, mating performance, female fertility index and other fertility changes. Experimental reproductive effects. Questionable human carcinogen producing liver tumors. A steroid used as a pharmaceutical and veterinary drug. When heated to decomposition it emits acrid smoke and irritating fumes.

NNM000 CAS: 492-41-1 HR: 3
(−)-NOREPHEDRINE
mf: $C_9H_{13}NO$ mw: 151.23
PROP: A solid. Mp: 51°.
SYNS: α-(1-AMINOETHYL)-BENZYL ALCOHOL □ 2-AMINO-1-PHENYL-1-PROPANOL □ FENILPROPANOLAMINA (ITALIAN) □ MYDRIATIN □ PHENYLPROPANOLAMINE □ PPA □ PROPADRINE □ USAF CS-6
TOXICITY DATA with REFERENCE:
orl-wmn LDLo:8 mg/kg:CNS,PUL BMJOAE 289,591,84
orl-cld TDLo:2500 µg/kg:PSY AJDCAI 138,683,84
orl-hmn TDLo:714 µg/kg:BPR LANCAO 1,60,80
orl-wmn TDLo:500 µg/kg:CNS NEURAI 36,593,86
orl-rat LD50:1538 mg/kg BCFAAI 109,132,70
ipr-rat LDLo:60 mg/kg TXAPA9 22,138,72
orl-mus LD50:1060 mg/kg BCFAAI 109,132,70
ipr-mus LD50:200 mg/kg NTIS** AD277-689
scu-mus LD50:124 mg/kg FEPRA7 4,139,45
ivn-mus LDLo:114 mg/kg CLDND* 153,161,30
ivn-rbt LDLo:75 mg/kg JPETAB 36,363,29
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A human poison by ingestion. Poison experimentally by intravenous, subcutaneous, and intraperitoneal routes. Moderately toxic by an unspecified route. Human systemic effects by ingestion: sleep, increased pulse rate without blood pressure decrease, and chronic pulmonary edema or congestion, convulsions, headache, and blood pressure elevation. Used in production of drugs of abuse. When heated to decomposition it emits toxic fumes of NO_x.

NNM500 CAS: 14838-15-4 HR: 2
dl-NOREPHEDRINE
mf: $C_9H_{13}NO$ mw: 151.23
PROP: Plates from H_2O. Mp: 104−105°.
SYNS: dl-α-(1-AMINOETHYL)BENZYL ALCOHOL □ dl-2-AMINO-1-HYDROXY-1-PHENYLPROPANE □ dl-α-HYDROXY-β-AMINOPROPYLBENZENE □ dl-1-PHENYL-2-AMINO-PROPANOL-1
TOXICITY DATA with REFERENCE:
scu-rat LD50:850 mg/kg JPETAB 85,199,45
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by subcutaneous route. When heated to decomposition it emits very toxic fumes of NO_x.

NNM510 CAS: 492-39-7 HR: 3
psi-NOREPHEDRINE
mf: $C_9H_{13}NO$ mw: 151.23
SYNS: threo-2-AMINO-1-HYDROXY-1-PHENYLPROPANE □ CATHINE □ KATINE □ NOR-psi-EPHEDRINE □ NORPSEUDO-EPHEDRINE, (+)- □ d-NOR-psi-EPHEDRINE □ d-NORPSEUDO-EPHEDRINE □ threo-1-PHENYL-1-HYDROXY-2-AMINOPROP-ANE □ PSEUDONOREPHEDRINE
TOXICITY DATA with REFERENCE:
scu-mus LD50:275 mg/kg ARZNAD 5,367,55
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits toxic vapors of NO_x.

NNN000 CAS: 4345-16-8 HR: 3
NOREPHEDRINE HYDROCHLORIDE
mf: $C_9H_{13}NO{\bullet}ClH$ mw: 187.69
SYNS: α-(1-AMINOETHYL)BENZYL ALCOHOL HYDRO-CHLORIDE □ 2-AMINO-1-PHENYL-1-PROPANOL HYDRO-CHLORIDE □ MYDRIATINE □ PHENYLPROPANOLAMINE HYDROCHLORIDE □ PROPADRINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-wmn TDLo:1500 µg/kg:CNS,CVS AJEMEN 5,163,87
orl-man TDLo:43 mg/kg:CNS,BAH,BLD AJEMEN 2,180,84
orl-man TDLo:8357 µg/kg:CNS,BAH SMJOAV 80,1584,87
orl-wmn TDLo:1 mg/kg:CVS,PUL JAMAAP 245,601,81
orl-rat LD50:1490 mg/kg TXAPA9 18,185,71
ipr-rat LDLo:175 mg/kg JACSAT 51,2262,29
scu-rat LDLo:350 mg/kg CHREAY 9,389,31
orl-mus LD50:1443 mg/kg JPMSAE 60,1810,71
ipr-mus LD50:300 mg/kg JPETAB 93,114,48
ivn-mus LD50:180 mg/kg CSLNX* NX#02746
scu-gpg LDLo:350 mg/kg CRSBAW 106,552,31
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal, intravenous, and subcutaneous routes. Moderately toxic by ingestion. Human systemic effects: blood pressure elevation, cardiomyopathy, changes in brain circulation, somnolence, change in heart rate, and respiratory stimulation. Used in cold remedies and diet tablets. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also (−)-NOREPHEDRINE.

NNN500 CAS: 3198-15-0 HR: 3
l-NOREPHEDRINE HYDROCHLORIDE
mf: $C_9H_{13}NO{\bullet}ClH$ mw: 187.69
PROP: A solid. Mp: 171−172°.
SYN: (−)-NOREPHEDRINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:176 mg/kg JPETAB 158,135,67
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also (−)-NOREPHEDRINE.

NNO000 CAS: 2153-98-2 HR: 3
(−)-NOREPHEDRINE HYDROCHLORIDE

mf: $C_9H_{13}NO$•ClH mw: 187.69
SYN: d-NOREPHEDRINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
ipr-mus LD50:377 mg/kg JPETAB 158,135,67
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Poison by intraperitoneal route. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also (−)-NOREPHEDRINE.

NNO500 CAS: 51-41-2 HR: 3
l-NOREPINEPHRINE
mf: $C_8H_{11}NO_3$ mw: 169.20
PROP: Microcrystals. Mp: 216.5−218° (decomp). Sol in water.
SYNS: ADRENOR □ AKTAMIN □ l-2-AMINO-1-(3,4-DIHYDROXYPHENYL)ETHANOL □ (R)-4-(2-AMINO-1-HYDROXYETHYL)-1,2-BENZENEDIOL □ l-α-(AMINOMETH-YL)-3,4-DIHYDROXYBENZYL ALCOHOL □ (−)-α-(AMINOMETHYL)PROTOCATECHU-YL ALCOHOL □ ARTERENOL □ l-ARTERENOL □ l-1-(3,4-DIHYDROXYPHENYL)-2-AMINOETHANOL □ l-3,4-DIHYDROXYPHENYLETHANOLAMINE □ LEVARTERENOL □ LEVOARTERENOL □ LEVONORADRENALINE □ LEVONOREPINEPHRINE □ LEVOPHED □ (−)-NORADREC □ NORADRENALIN □ NORADRENALINA (ITALIAN) □ NORADRENALINE □ (−)-NORADRENALINE □ d-(−)-NORADRENALINE □ l-NORADRENALINE □ NORADRENLINE □ NORARTRINAL □ NOREPINEPHRINE □ (−)-NOREPINEPHRINE □ NOREPIRENAMINE □ SYMPATHIN E
TOXICITY DATA with REFERENCE:
dni-hmn:oth 5800 nmol/L CNREA8 40,1414,80
dni-mus:oth 5800 nmol/L CNREA8 40,1414,80
ivn-rat LD50:100 μg/kg JPETAB 95,502,49
orl-mus LD50:20 mg/kg APTOA6 31,49,72
ipr-mus LD50:6 mg/kg NIIRDN 6,567,82
scu-mus LD50:5 mg/kg NATWAY 56,615,69
ivn-mus LD50:550 μg/kg AEPPAE 226,493,55
ivn-rbt LDLo:250 μg/kg AIPTAK 41,365,31
SAFETY PROFILE: Poison by ingestion, intraperitoneal, subcutaneous, and intravenous routes. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. A sympathomimetic vasopressor. When heated to decomposition it emits toxic fumes of NO_x.

NNO699 CAS: 51-40-1 HR: 3
l-NOREPINEPHRINE BITARTRATE
mf: $C_8H_{11}NO_3$•$C_4H_6O_6$ mw: 319.30
SYNS: l-ARTERENOL BITARTRATE □ LEVARTERENOL BITARTRATE □ (−)-NORADRENALINE ACID TARTRATE □ (−)-NORADRENALINE BITARTRATE □ l-NORADRENALINE BITARTRATE □ (−)-NORADRENALINE BITARTRATE MONOHYDRATE □ NORADRENALINE HYDROGEN TARTRATE □ NORADRENALINE TARTRATE (1:1) □ (−)-NORADRENALINE TARTRATE □ l-NORADRENALINE TARTRATE □ (−)-NOREPINEPHRINE BITARTRATE □ (−)-NOREPINEPHRINE TARTRATE
TOXICITY DATA with REFERENCE:
ivn-rat LD50:210 μg/kg YACHDS 7,627,79
ipr-mus LD50:26,800 μg/kg DPHFAK 23,435,71
ivn-mus LD50:1025 μg/kg EJPHAZ 9,289,70
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x. See also NOREPINEPHRINE.

NNP000 CAS: 329-56-6 HR: 3
NOREPINEPHRINE HYDROCHLORIDE
mf: $C_8H_{11}NO_3$•ClH mw: 205.66
PROP: X-form-crystals. Mp: 145.2−146.4°. Very sol in water.
SYNS: AKTAMIN HYDROCHLORIDE □ LEVOPHED HYDROCHLORIDE □ NORADRENALINE HYDROCHLORIDE □ NOR-ADRENALIN HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
orl-rat LD50:132 mg/kg AIPTAK 180,155,69
scu-rat LD50:29 mg/kg AIPTAK 180,155,69
idu-rat LD50:26 mg/kg AIPTAK 180,155,69
SAFETY PROFILE: Poison by ingestion, subcutaneous, and intraduodenal routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x. See also NOREPINEPHRINE.

NNP050 CAS: 55-27-6 HR: 3
dl-NOREPINEPHRINE HYDROCHLORIDE
mf: $C_8H_{11}NO_3$•ClH mw: 205.66
PROP: A solid. Mp: 191°.
SYNS: dl-ARTERENOL HYDROCHLORIDE □ 3,4-DIHYDROXYPHENYL)-1-AMINO-2-ETHANOL-1-HYDROCHLORIDE □ (±)-NORADRENALINE HYDROCHLORIDE □ dl-NORADRENALINE HYDROCHLORIDE □ (±)-NOREPINEPHRINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
scu-rat LDLo:2 mg/kg JPETAB 71,62,41
ipr-mus LD50:15,600 μg/kg JPETAB 92,369,48
SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x and HCl. See also other norepinephrine entries.

NNP100 CAS: 4147-10-8 HR: D
18-NORESTRONE METHYL ETHER
mf: $C_{18}H_{22}O_2$ mw: 270.40
SYNS: 18,19-DINORANDROSTA-1,3,5(10)-TRIEN-17-ONE, 3-METHOXY- □ GONA-1,3,5(10)-TRIEN-17-ONE, 3-METHOXY- □ 3-METHOXYGONA-1,3,5(10)-TRIEN-17-ONE
SAFETY PROFILE: Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.

NNP500 CAS: 68-22-4 HR: 3
19-NORETHISTERONE
mf: $C_{20}H_{26}O_2$ mw: 298.46
PROP: Crystals from EtOAc. Mp: 203−204°.
SYNS: 17-α-ETHINYLESTRA-4-EN-17-β-OL-3-ONE □ 17-α-ETHINYL-17-β-HYDROXY-Δ:4-ESTREN-3-ONE □ 17-α-ETHINYL-19-NORTESTOSTERONE □ 17-α-ETHYNYL-4-ESTREN-17-OL-3-ONE □ 17-α-ETHYNYL-17-HYDROXY-4-ESTREN-3-ONE □ 17-α-ETHYNYL-17-β-HYDROXY-19-NORANDROST-4-EN-3-ONE □ 17-α-ETHYNYL-19-NORANDRO-ST-4-EN-17-β-OL-3-ONE □ 17-α-ETHYNYL-19-NOR-4-ANDROSTEN-17-β-OL-3-ONE □ 17-α-ETHYNYL-19-NORTESTOSTERONE □ (17-α)-17-HYDROXY-19-NORPREGN-4-EN-20-YN-3-ONE □ 17-β-HYDROXY-19-NOR-

PREGN-4-EN-20-YN-3-ONE □ 17-HYDROXY-19-NOR-17-α-PREGN-4-EN-20-YN-3-ONE □ 19-NOR-ETHINYL-4,5-TESTOSTERONE □ 19-NOR-17-α-ETHYNYLANDROSTEN-17-β-OL-3-ONE □ 19-NOR-17-α-ETHYNYL-17-β-HYDROXY-4-ANDROSTEN-3-ONE □ 19-NOR-17-α-ETHYNYLTESTOSTERONE □ NORLUTIN

TOXICITY DATA with REFERENCE:
dni-hmn:lym 50 μmol/L PSEBAA 146,401,74
oms-mus:oth 10 μg/L AJOGAH 120,390,74
oms-dom:oth 100 μg/L AJOGAH 120,390,74
orl-wmn TDLo:42 mg/kg:SKN,END AJOGAH 84,962,62
orl-mus LD50:6 g/kg DRUGAY -,809,90

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Animal Sufficient Evidence IMEMDT 7,294,87. EPA Genetic Toxicology Program.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, tumorigenic, and teratogenic data. Mildly toxic by ingestion. Human systemic effects by ingestion: dermatitis and androgenic effects. Human teratogenic effects: developmental abnormalities of the musculoskeletal system and urogenital system; and behavioral effects in the newborn. Human reproductive effects: spermatogenesis; testes, epididymis, sperm duct changes; impotence; male breast development; other male effects; ovaries, fallopian tube changes; menstrual cycle changes or disorders; uterus, cervix, vagina effects; postpartum effects; changes in female fertility. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes.

NNQ000 CAS: 3836-23-5 HR: 2
NORETHISTERONE ENANTHATE
mf: $C_{27}H_{38}O_3$ mw: 410.65

PROP: Crystals from pet ether. Mp: 68−71°.

SYNS: 17-α-ETHINYL-19-NORTESTOSTERONE ENANTHATE □ 17-α-ETHYNYL-17-β-HEPTANOYLOXY-4-ESTREN-3-ONE □ 17-β-HEPTANOYLOXY-19-NOR-17-α-PREGNEN-20-YNONE □ NORETHISTERONE OENANTHATE □ NORIGEST □ NORLUTIN ENANTHATE □ SH 393

TOXICITY DATA with REFERENCE:
ivn-wmn TDLo:4 mg/kg:EYE ADVPB4 8,103,72

SAFETY PROFILE: An experimental teratogen. Questionable carcinogen with experimental tumorigenic data. Human systemic effects by intravenous route: increased intraocular pressure. Human reproductive effects by intramuscular route: menstrual cycle changes or disorders, changes in female fertility. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

NNQ050 CAS: 23965-86-8 HR: D
NORETHISTERONE OXIME
mf: $C_{20}H_{27}NO_2$ mw: 313.48

SYNS: NORETHINDRONE 3-OXIME □ NORETHISTERONE-3-OXIME □ 19-NOR-17-α-PREGN-4-EN-20-YN-3-ONE, 17-HYDROXY-, OXIME □ 19-NORPREGN-4-EN-20-YN-3-ONE, 17-HYDROXY-, OXIME, (17-α)- □ 17-HYDROXY-19-NOR-17-α-PREGN-4-EN-20-YN-3-ONE OXIME □ NORETHINDRONE OXIME □ SO-33

TOXICITY DATA with REFERENCE:
orl-rat TDLo:2500 μg/kg (female 1-5D post):REP SCYYDZ 10(3),67,1990

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

NNQ100 HR: D
NORFLURAZON

SYN: 4-CHLORO-5-(METHYLAMINO)-2-(α,α,α-TRIFLUORO-m-TOLYL)-3(2H)-PYRIDAZINONE

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

NNQ500 CAS: 6533-00-2 HR: 2
NORGESTREL
mf: $C_{21}H_{28}O_2$ mw: 312.49

PROP: Crystals from diethyl ether-hexane. Mp: 205−207°.

SYNS: 13-ETHYL-17-α-ETHYNYLGON-4-EN-17-β-OL-3-ONE □ 13-ETHYL-17-α-ETHYNYL-17-β-HYDROXY-4-GONEN-3-ONE □ dl-13-β-ETHYL-17-α-ETHYNYL-17-β-HYDROXYGON-4-EN-3-ONE □ (±)-13-ETHYL-17-α-ETHYNYL-17-HYDROXYGON-4-EN-3-ONE □ dl-13-β-ETHYL-17-α-ETHYNYL-19-NORTESTOSTERONE □ (±)-13-ETHYL-17-HYDROXY-18,19-DINOR-17-α-PREGN-4-EN-20-YN-3-ONE □ 17-ETHYNYL-18-METHYL-19-NORTESTOSTERONE □ FH 122-A □ 17-β-HYDROXY-18-METHYL-19-NOR-17-α-PREGN-4-EN-20-YN-3-ONE □ 18-METHYL-17-α-ETHYNYL-19-NORTESTOSTERONE □ MONOVAR □ d(−)-NORGESTREL □ (±)-NORGESTREL □ α-NORGESTREL □ d-NORGESTREL □ dl-NORGESTREL □ DL NORGESTREL (FRENCH) □ POSTINOR □ SH 850 □ SH 70850 □ WY 3707

TOXICITY DATA with REFERENCE:
scu-rat TDLo:60 mg/kg (female 17-20D post):TER AVBIB9 13,71,74
orl-mus TDLo:57 mg/kg/68W-C:NEO CRSBAW 168,1190,74
orl-rat LD50:5010 mg/kg TXAPA9 18,185,71
ipr-rat LD50:11,200 mg/kg YKYUA6 29,1479,78
orl-mus LD50:5010 mg/kg TXAPA9 18,185,71
ipr-mus LD50:7300 mg/kg YKYUA6 29,1479,78

SAFETY PROFILE: Human reproductive effects by ingestion and implant: menstrual cycle changes or disorders and female fertility index changes. An experimental teratogen. Experimental reproductive effects. Questionable carcinogen with experimental neoplastigenic data. An oral contraceptive. When heated to decomposition it emits acrid smoke and irritating fumes.

NNQ520 CAS: 797-63-7 HR: 2
d(−)-NORGESTREL
mf: $C_{21}H_{28}O_2$ mw: 312.49

PROP: Crystals from MeOH/$CHCl_3$. Mp: 238−242°.

SYNS: 17-α-ETHINYL-13-β-ETHYL-17-β-HYDROXY-4-ESTREN-3-ONE □ 13-ETHYL-17-α-ETHYNYLGON-4-EN-17-β-OL-3-ONE □ 13-ETHYL-17-α-ETHYNYL-17-β-HYDROXY-4-GONEN-3-ONE □ 17-ETHYNYL-18-METHYL-19-NORTESTOSTERONE □ 17-β-HYDROXY-18-METHYL-19-NOR-17-α-PREGN-4-EN-20-YN-3-ONE □ 18-METHYL-17-α-ETHYNYL-19-NORTESTOSTERONE □ d-NORGESTREL □ POSTINOR

CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 6,201,74;

IMEMDT 21,479,79; Human Inadequate Evidence IMEMDT 21,479,79
SAFETY PROFILE: Human reproductive effects by ingestion: menstrual cycle changes, fertility index. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits acrid smoke and irritating fumes.

NNQ525 CAS: 797-64-8 HR: 2
I-NORGESTREL
mf: $C_{21}H_{28}O_2$ mw: 312.49
PROP: Crystals from MeOH/$CHCl_3$. Mp: 239−241°.
SYNS: LEVONORGESTREL □ NORPLANT
TOXICITY DATA with REFERENCE:
ipr-mus LDLo:2 g/kg EXCEDS 81,175,83
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Human male reproductive effects by ingestion: disorders of spermatogenesis and the androgenic endocrine system, impotence and other effects. Human female reproductive effects by several routes: changes in the uterus, cervix, vagina, menstrual cycle and fertility. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating fumes.

NNR000 HR: 3
NORGESTREL mixed with MESTRANOL
SYN: MESTRANOL mixed with NORGESTREL
TOXICITY DATA with REFERENCE:
orl-wmn TDLo:11 mg/kg/Y-I:CAR JAMAAP 235,730,76
SAFETY PROFILE: Questionable human carcinogen producing liver tumors.

NNR125 CAS: 848-21-5 HR: D
NORGESTRIENONE
mf: $C_{20}H_{22}O_2$ mw: 294.42
PROP: Pale-yellow needles from diisopropyl ether. Mp: 169°. Sol in alc, ether, acetone, benzene, chloroform; practically insol in water, dil aq acids and alkalies.
SYNS: 17-α-ETHYNYL-17-β-HYDROXYESTRA-4,9,11-TRIEN-3-ONE □ 17-HYDROXY-19-NOR-17-α-PREGNA-4,9,11-TRIEN-20-YN-3-ONE □ OGYLINE □ R 2010 □ RU 2010
SAFETY PROFILE: Human female reproductive effects by implant and intravaginal routes: changes in menstrual cycle and fertility. When heated to decomposition it emits acrid smoke and irritating fumes.

NNR200 CAS: 21848-62-4 HR: 3
NORGLAUCINE
mf: $C_{20}H_{23}NO_4$ mw: 341.44
PROP: Noncrystalline solid.
SYNS: NORGLAUCIN □ d-N-NORGLAUCINE □ 1,2,9,10-TETRAMETHOXY-6a-α-NORAPORPHINE
TOXICITY DATA with REFERENCE:
orl-mus LD50:450 mg/kg APFRAD 38,537,80
ipr-mus LD50:170 mg/kg APFRAD 38,537,80
ivn-mus LD50:90 mg/kg APFRAD 38,537,80
SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

NNR300 CAS: 244-63-3 HR: 3
NORHARMAN
mf: $C_{11}H_8N_2$ mw: 168.21
PROP: Needles from EtOH. Mp: 198.5°. Sol in hot H_2O; spar sol in C_6H_6 and pet ether.
SYN: 9H-PYRIDO(3,4-b)INDOLE
TOXICITY DATA with REFERENCE:
dnd-hmn:hla 50 μmol/L MUREAV 89,95,81
msc-ham:lng 150 mg/L CALEDQ 17,249,83
ivn-mus LD50:100 mg/kg CSLNX* NX#02316
SAFETY PROFILE: Poison by intravenous route. Experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NNR400 CAS: 597-71-7 HR: 2
NORMOSTEROL
mf: $C_{13}H_{20}O_8$ mw: 304.33
SYNS: 2,2-BIS((ACETYLOXY)METHYL)-1,3-PROPANEDIOL DIACETATE □ NORMO-LEVEL □ PAG □ PENTAERYTHRITOL, TETRAACETATE □ 1,3-PROPANEDIOL, 2,2-BIS((ACETYLOXY)METHYL)-, DIACETATE (9CI) □ T.A.P.E. □ TETRAACETIL PENTOETRIOL □ TETRAACETYL PENTESTRIOL
TOXICITY DATA with REFERENCE:
orl-mus LD50:3500 mg/kg RMNIBN 86,322,82
ipr-mus LD50:4850 mg/kg RMNIBN 86,322,82
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Slightly toxic by intraperitoneal route. When heated to decomposition it emits acrid smoke and irritating vapors.

NNR500 CAS: 494-97-3 HR: 3
NORNICOTINE
mf: $C_9H_{12}N_2$ mw: 148.23
PROP: Hygroscopic, visc liquid; slt amine odor. Bp: 270°, d: 1.0737 @ 20°/4°. Misc with water; very sol in chloroform, alc, ether, pet ether, oils, kerosene.
SYNS: 1'-DEMETHYL-(s)-NICOTINE □ NORNICOTIN □ 2-(3-PYRIDYL)PYRROLIDINE □ 3-(2-PYRROLIDINYL)-(s)-PYRIDINE □ 3-(2-PYRROLIDINYL)PYRIDINE
TOXICITY DATA with REFERENCE:
ipr-rat LDLo:23,500 μg/kg MEIEDD 10,963,83
ipr-mus LD50:14,660 μg/kg NAIZAM 8,69,57
ivn-mus LD50:3409 μg/kg JPETAB 88,82,46
ivn-rbt LD50:3 mg/kg PSEBAA 58,231,45
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. About 1/3 the toxicity of nicotine. Causes faintness, prostration, muscular weakness, severe nausea, vomiting, diarrhea, and collapse without convulsions. An insecticide. When heated to decomposition it emits highly toxic fumes of NO_x.

NNS500 CAS: 5746-86-1 HR: 3
NORNICOTINE (+)-HYDROCHLORIDE
mf: $C_9H_{12}N_2$•ClH mw: 184.69
PROP: Bp: 94° @ 0.5 mm.

SYN: d-NORNICOTINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
ipr-rat LDLo:6 mg/kg AJEBAK 25,83,47
ipr-gpg LDLo:10 mg/kg AJEBAK 25,83,47

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

NNS600 CAS: 25144-78-9 HR: 3
NORPENTAZOCINE
mf: $C_{14}H_{19}NO$•ClH mw: 253.80

SYNS: α-5,9-DIMETHYL-2'-HYDROXY-6,7-BENZOMORPHAN HYDROCHLORIDE □ 2,6-METHANO-3-BENZAZOCIN-8-OL, 1,2,3,4,5,6-HEXAHYDRO-6,11-DIMETHYL-, (2-α,6-α,11R*)- □ 2,6-METHANO-3-BENZAZOCIN-8-OL, 1,2,3,4,5,6-HEXAHYDRO-6,11-DIMETHYL-,-trans- □ 2,6-METHANO-3-BENZAZOCIN-8-OL,-6,11-α-DIMETHYL-1,2,3,4,5,6-HEXAHYDRO-, HYDROCHLORIDE □ 2,6-METHANO-3-BENZAZOCIN-8-OL, 1,2,3,4,5,6-HEXA-HYDRO-6,11-α-DIMETHYL-, HYDROCHLORIDE

TOXICITY DATA with REFERENCE:
scu-mus LD50:84 mg/kg 31ZPAG 2,135,1966

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

NNT000 CAS: 89-25-8 HR: 2
NORPHENAZONE
mf: $C_{10}H_{10}N_2O$ mw: 174.22

PROP: White powder or massive prisms from water or benzene. Bp: 191° @ 7 mm, mp: 128.9°. Sol in hot EtOH, $CHCl_3$, acids; insol in H_2O.

SYNS: C.I. DEVELOPER 1 □ DEVELOPER Z □ 1-FENYL-3-METHYL-2-PYRAZOLIN-5-ON □ 3-METHYL-1-PHENYL-2-PYRAZOLIN-5-ONE □ 3-METHYL-1-PHENYL-5-PYRAZOLONE □ NCI-C03952 □ NORANTIPYRINE □ 1-PHENYL-3-METHYL-5-OXO-2-PYRAZOLINE □ 1-PHENYL-3-METHYLPYRAZOLONE-5 □ 1-PHENYL-3-METHYL-5-PYRAZOLONE □ 5-PYRAZOLONE, 3-METHYL-1-PHENYL-

TOXICITY DATA with REFERENCE:
eye-rbt 500 mg/24H MOD 28ZPAK -,144,72
orl-rat LD50:3500 mg/kg LONZA# 08FEB79
ipr-mus LD50:2012 mg/kg RPTOAN 36,27,73

CONSENSUS REPORTS: NCI Carcinogenesis Bioassay (feed); No Evidence: mouse, rat NCITR* NCI-CG-TR-141,78. Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. An eye irritant. When heated to decomposition it emits toxic fumes of NO_x.

NNT100 CAS: 15308-34-6 HR: 3
(±)-NORPHENYLEPHRINE HYDROCHLORIDE
mf: $C_8H_{11}NO_2$•ClH mw: 189.66

PROP: A solid. Mp: 159−160°.

SYNS: (±)-α-(AMINOMETHYL)-m-HYDROXYBENZYL ALCOHOL HYDROCHLORIDE □ NORFENEFRINE HYDROCHLORIDE □ NOVADRAL □ dl-m-OCTOPAMINE HYDROCHLORIDE □ ZONDEL

TOXICITY DATA with REFERENCE:
orl-rat LD50:390 mg/kg NIIRDN 6,569,82
ipr-rat LD50:32 mg/kg NIIRDN 6,569,82
scu-rat LD50:28 mg/kg NIIRDN 6,569,82
ivn-rat LD50:17,400 μg/kg NIIRDN 6,569,82
orl-mus LD50:3300 mg/kg NIIRDN 6,569,82
ipr-mus LD50:645 mg/kg NIIRDN 6,569,82
scu-mus LD50:700 mg/kg NIIRDN 6,569,82
ivn-mus LD50:148 mg/kg NIIRDN 6,569,82

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

NNT500 CAS: 472-54-8 HR: 2
19-NORPREGN-4-ENE-3,20-DIONE
mf: $C_{20}H_{28}O_2$ mw: 300.48

PROP: Crystals from MeOH. Mp: 144−145°.

SYNS: 19-NOR-P □ 19-NORPROGESTERONE

TOXICITY DATA with REFERENCE:
imp-mus TDLo:234 mg/kg/56W-C:ETA NATUAS 212,686,66
imp-mus TD:400 mg/kg/56W-C:ETA,TER JRPFA4 6,99,63

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

NNU000 CAS: 21466-08-0 HR: D
19-NOR-17-α-PREGN-5(10)-EN-20-YNE-3-α,17-DIOL
mf: $C_{20}H_{28}O_2$ mw: 300.48

PROP: Needles from Me_2CO/hexane. Mp: 130−140°.

SYNS: 17-α-ETHYNYL-ESTR-5(10)-ENE-3-α,17-β-DIOL □ 3-α-HYDROXYNORETHYNODREL

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

NNU500 CAS: 2307-97-3 HR: D
19-NOR-17-α-PREGN-5(10)-EN-20-YNE-3-β, 17-DIOL
mf: $C_{20}H_{28}O_2$ mw: 300.48

PROP: Prisms from MeOH. Mp: 129−135°.

SYNS: 17-α-ETHYNYL-ESTR-5(10)-ENE-3-β,17-β-DIOL □ 3-β-HYDROXYNORETHYNODREL

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

NNV000 CAS: 52-76-6 HR: 2
19-NOR-17-α-PREGN-4-EN-20-YN-17-OL
mf: $C_{20}H_{28}O$ mw: 284.48

PROP: Crystals from MeOH. Mp: 162−164°.

SYNS: 3-DESOXYNORLUTIN □ ETHINYLESTRENOL □ Δ^4-17-α-ETHINYLESTREN-17-β-OL □ 17-α-ETHINYL-17-β-HYDROXY-ESTR-4-ENE □ 17-α-ETHINYL-17-β-HYDROXYO-ESTR-4-ENE □ ETHINYLOESTRANOL □ ETHINYL OESTREN-OL □ Δ^4-17-α-ETHINYLOESTREN-17-β-OL □ 17-α-ETHYNIL-Δ^4-ESTRENE-17-β-OL □ ETHYNYLESTRENOL □ 17-α-ETHYNYLESTRENOL □ 17-α-ETHYNYLESTR-4-EN-17-β-OL □ ETHYNLOESTRENOL □ 17-α-ETHYNYLOESTRENOL □ 17-α-ETHYNYLOESTR-4-EN-17-β-OL □ EXLUTEN □ EXLUTION □ EXLUTON □ EXLUTONA □ LINESTRENOL □ LYNENOL □ LYNESTRENOL □ LYNOES-TRENOL □ (17-α)-19-NORPREGN-4-EN-20-YN-17-OL □ NSC-

37725 □ ORG 485-50 □ ORGAMETIL □ ORGAMETRIL □ ORGAMETROL

CONSENSUS REPORTS: IARC Cancer Review: Animal Inadequate Evidence IMEMDT 21,407,79.

SAFETY PROFILE: An experimental teratogen. Experimental reproductive effects. Human reproductive effects by ingestion and implant routes: menstrual cycle changes or disorders, female fertility index, other fertility changes and effects on females. Questionable carcinogen. Used in oral contraceptives and in the treatment of dysfunctional uterine bleeding. When heated to decomposition it emits acrid smoke and irritating fumes.

NNV500 CAS: 36393-56-3 HR: 2
(−)-NORPSEUDOEPHEDRINE

SYN: 1-NOR-PSI-EPHEDRIN (GERMAN)

TOXICITY DATA with REFERENCE:
scu-mus LD50:450 mg/kg ARZNAD 5,367,55

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by subcutaneous route. Used in production of drugs of abuse. When heated to decomposition it emits toxic fumes of NO_x.

NNW500 CAS: 2153-98-2 HR: 3
(+)-NORPSEUDOEPHEDRINE HYDROCHLORIDE

mf: $C_9H_{13}NO{\bullet}ClH$ mw: 187.69

PROP: Prisms. Mp: 180−181°. Sol in water.

SYNS: ADIPOSETTIN □ AMORPHAN □ EXPONCIT □ FUGOA □ MINUSIN □ d-NORPSEUDOEPHEDRINE HYDROCHLORIDE □ REDUFORM

TOXICITY DATA with REFERENCE:
ipr-mus LD50:161 mg/kg JPETAB 158,135,67
scu-mus LD50:275 mg/kg ARZNAD 5,367,55
ivn-rbt LDLo:75 mg/kg JPETAB 36,363,29

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

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

NNX300 CAS: 1235-13-8 HR: D
19-NORSPIROXENONE

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

SYNS: L 586.153 □ 2',3'-α-TETRAHYDROFURAN-2'-SPIRO-17-(ESTER-4-EN-3-ONE)

TOXICITY DATA with REFERENCE:
spm-rat-scu 40 mg/kg PSEBAA 150,226,75

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

NNX400 CAS: 434-22-0 HR: D
NORTESTONATE

mf: $C_{18}H_{26}O_2$ mw: 274.44

PROP: Dimorphic crystals from CH_2Cl_2/Et_2O. Mp: 112 and 124°. Sol in alc, ether, chloroform.

SYNS: 17-β-HYDROESTR-4-EN-3-ONE □ (17-β)-17-HYDROXYESTR-4-EN-3-ONE (9CI) □ MENIDRABOL □ NANDROLON □ NANDROLONE □ NORANDROSTENOLON □ NORANDROSTENOLONE □ 19-NORANDROSTENOLONE □ NORTESTOSTERONE □ 19-NORTESTOSTERONE □ (+)-19-NORTESTOSTERONE □ OESTRENOLON

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

NNX600 CAS: 54025-36-4 HR: 3
19-NORTESTOSTERONE-17-N-(2-CHLOROETHYL)-N-NITROSOCARBAMATE

mf: $C_{21}H_{29}ClN_2O_4$ mw: 408.97

SYNS: (17-β)-17-((((2-CHLOROETHYL)NITROSOAMINO)-CARBONYL)OXY)ESTR-4-EN-3-ONE □ LEO 1727 □ LS 1727

TOXICITY DATA with REFERENCE:
orl-rat LD50:2190 mg/kg APTOA6 49,290,81
ipr-rat LD50:155 mg/kg APTOA6 49,290,81
ivn-rat LD50:4 mg/kg APTOA6 49,290,81
orl-mus LD10:1630 mg/kg APTOA6 49,290,81
ipr-mus LD50:98 mg/kg APTOA6 49,290,81
ivn-mus LD50:8 mg/kg APTOA6 49,290,81

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion. Many N-nitroso compounds are carcinogens. When heated to decomposition it emits toxic fumes of Cl^- and NO_x. See also N-NITROSO COMPOUNDS and CARBAMATES.

NNX650 CAS: 38911-59-0 HR: D
19-NORTESTOSTERONE HOMOFARNESATE

mf: $C_{34}H_{50}O_3$ mw: 506.84

SYN: (17-β)-17-((1-OXO-4,8,12-TRIMETHYL-3,7,11-TRIDECATRIENYL)OXY)ESTR-4-EN-3-ONE

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

NNX700 HR: 3
NORTHERN COPPERHEAD VENOM

SYNS: A. CONTORTRIX MOKASEN VENOM □ AGKISTRODON CONTORTRIX MOKASEN VENOM □ VENOM, SNAKE, AGKISTRODON CONTORTRIX MOKASEN

TOXICITY DATA with REFERENCE:
ipr-mus LD50:220 μg/kg CBPBB8 64,201,79
scu-mus LD50:600 μg/kg CBPBB8 64,201,79
ivn-mus LD50:2711 μg/kg TOXIA6 9,131,71
ims-mus LD50:24 μg/kg JTASAG 55,96,80
ivn-dog LDLo:750 μg/kg 19DDA6 1,269,67

SAFETY PROFILE: A deadly poison by subcutaneous, intramuscular, intravenous and intraperitoneal routes.

NNY000 CAS: 72-69-5 HR: 3
NORTRIPTYLINE

mf: $C_{19}H_{21}N$ mw: 263.41

SYNS: DEMETHYLAMITRIPTYLENE □ DESMETHYLAMITRIPTYLINE □ 10,11-DIHYDRO-N-METHYL-5H-DIBENZO(a,d)CYCLOHEPTANE-Δ,γ-PROPYLAMINE □ 5-(3-(METHYLAMINO)PROPYLIDENE)DIBENZO(a,e)CYCLOHEPTA(1,5)DIENE □ 5-(3-METHYLAMINOPROPYLIDENE)-10,11-DIHYDRO-5H-DIBENZO(a,d)CYCLOHEPTENE □ NORAMITRIPTYLINE

TOXICITY DATA with REFERENCE:
orl-rat LD50:502 mg/kg HEPHD2 55,527,80

ivn-rat LD50:22 mg/kg HEPHD2 55,527,80
orl-mus LD50:387 mg/kg BJPCBM 34,236,68
ipr-mus LD50:70 mg/kg JMCMAR 6,338,63
ivn-mus LD50:17 mg/kg JMCMAR 17,65,74
SAFETY PROFILE: Poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x.

NOA000 CAS: 128-62-1 HR: 2
NOSCAPINE
mf: $C_{22}H_{23}NO_7$ mw: 413.46
PROP: Orthorhombic prisms or stout needles from alc. D: 1.395, mp: 175°. Sublimes @ 150−160° under 11 mm pressure. Insol in vegetable oils; sltly sol in NH_4OH, hot solns of KOH, NaOH.
SYNS: CAPVAL ◻ COSCOPIN ◻ COSCOTABS ◻ KEY-TUSSCAPINE ◻ LONGATIN ◻ LYOBEX ◻ METHOXY-HYDRASTINE ◻ NARCOMPREN ◻ NARCOSINE ◻ NARCOTINE ◻ 1-α-NARCOTINE ◻ NARCOTUSSIN ◻ NECTADON ◻ NICOLANE ◻ NIPAXON ◻ NOSCAPAL ◻ NOSCAPALIN ◻ NSC-5366 ◻ OPIAN ◻ OPIANINE ◻ TERBENOL ◻ TUSSCAPINE ◻ VADEBEX
TOXICITY DATA with REFERENCE:
cyt-ham:lng 100 mg/L ATSUDG (4),41,80
orl-rat LD50:1520 mg/kg YAKUD5 24,2331,82
orl-mus LD50:853 mg/kg YAKUD5 24,2331,82
ipr-mus LD50:960 mg/kg YAKUD5 24,2331,82
scu-mus LD50:725 mg/kg RPTOAN 31,338,68
SAFETY PROFILE: Moderately toxic by ingestion and subcutaneous routes. Mutation data reported. An antitussive. When heated to decomposition it emits toxic fumes of NO_x.

NOA500 CAS: 912-60-7 HR: 3
NOSCAPINE HYDROCHLORIDE
mf: $C_{22}H_{23}NO_7$•ClH mw: 449.92
PROP: Crystals. Very sol in water.
SYNS: CAPVAL HYDROCHLORIDE ◻ COSCOPIN HYDRO-CHLORIDE ◻ COSCOTABS HYDROCHLORIDE ◻ KEY-TUSSCAPINE HYDROCHLORIDE ◻ LONGATIN HYDRO-CHLORIDE ◻ LYOBEX HYDROCHLORIDE ◻ METHOXY-HYDRASTINE HYDROCHLORIDE ◻ NARCOMPREN HYDROCHLORIDE ◻ NARCOSINE HYDROCHLORIDE ◻ NARCOSINE, HYDROCHLORIDE (8CI) ◻ 1-α-NARCOTINE HYDROCHLORIDE ◻ NECTADON HYDROCHLORIDE ◻ NSC-5366 HYDROCHLORIDE ◻ OPIAN HYDROCHLORIDE ◻ OPIANINE HYDROCHLORIDE ◻ TERBENOL HYDRO-CHLORIDE ◻ TUSSCAPINE HYDROCHLORIDE ◻ VADEBEX HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
cyt-ham:fbr 60 mg/L ESKHA5 96,55,78
cyt-ham:lng 60 mg/L GMCRDC 27,95,81
orl-mus LD50:853 mg/kg YKKZAJ 81,266,61
scu-mus LD50:1350 mg/kg ARZNAD 19,1916,69
ivn-dog LD50:52 mg/kg JPETAB 123,287,58
ivn-gpg LDLo:83 mg/kg AIPTAK 119,205,59
SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and subcutaneous routes. Mutation data reported. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

NOA600 CAS: 10540-29-1 HR: 3
NOVADEX
mf: $C_{26}H_{29}NO$ mw: 371.56
PROP: Crystals from pet ether. Mp: 96−98°. cis-Form base: mp: 72−74° from methanol.
SYNS: cis-1-(p-(2-(N,N-DIMETHYLAMINO)ETHOXY)PHENYL)-1,2-DIPHENYLBUT-1-ENE ◻ cis-N,N-DIMETHYL-2-(p-(1,2-DIPHENYL-1-BUTENYL)PHENOXY)ETHYLAMINE ◻ (Z)-2-(p-(1,2-DIPHENYL-1-BUTENYL)-PHENOXY)-N,N-DIMETHYL-ETHYLAMINE ◻ ICI 46,474 ◻ TAMOXIFEN
TOXICITY DATA with REFERENCE:
dni-hmn:mmr 1 μmol/L CNREA8 42,1727,82
dni-rat-scu 500 μg/kg BBACAQ 656,45,81
orl-wmn TDLo:5600 μg/kg/1W-I:SKN BMJOAE 291,1172,85
unr-wmn TDLo:200 μg/kg/D:BLD,GIT CTRRDO 60,1431,76
orl-rat LD50:4100 mg/kg DRFUD4 9,186,84
ipr-rat LD50:700 mg/kg DRFUD4 9,186,84
orl-mus LD50:2150 mg/kg DRFUD4 9,186,84
ipr-mus LD50:575 mg/kg JANTAJ 43,1533,90
CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 66,253,96; Human Sufficient Evidence IMEMDT 66,253,96 (Benefits outweigh risk for breast cancer patients. 22 Feb, 1997). EPA Genetic Toxicology Program.
SAFETY PROFILE: Confirmed human carcinogen. Moderately toxic by ingestion and intraperitoneal routes. Human systemic effects by an unspecified route: nausea or vomiting, leukopenia, thrombocytopenia, and skin changes. An experimental teratogen. Other experimental reproductive effects. Human mutation data reported. When heated to decomposition it emits toxic fumes of NO_x.

NOA700 CAS: 51109-89-8 HR: 3
NOVALICHIN
TOXICITY DATA with REFERENCE:
orl-mus LD50:260 mg/kg AMNIB6 20,37,81
ipr-mus LD50:260 mg/kg AMNIB6 20,37,81
ivn-mus LD50:30 mg/kg AMNIB6 20,37,81
SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. An antifungal antibiotic.

NOB000 CAS: 1476-53-5 HR: 3
NOVOBIOCIN, MONOSODIUM SALT
mf: $C_{31}H_{35}N_2O_{11}$•Na mw: 634.67
PROP: A solid. Mp: 210−215° (decomp).
SYNS: ALBAMYCIN ◻ ALBAMYCIN SODIUM ◻ CATHOMYCIN SODIUM ◻ CATHOMYCIN SODIUM LYOVAC ◻ INAMYCIN ◻ MONOSODIUM NOVOBIOCIN ◻ NOVOBIOCIN MONOSODIUM ◻ NOVOBIOCIN, SODIUM derivative ◻ SODIUM ALBAMYCIN ◻ SODIUM NOVOBIOCIN ◻ U-6591
TOXICITY DATA with REFERENCE:
dns-rat:oth 450 mg/L ARTODN 60,287,87
dni-rat:oth 1400 mg/L ARTODN 60,287,87
orl-rat LD50:3500 mg/kg ARZNAD 8,386,58
scu-rat LD50:450 mg/kg ARZNAD 8,386,58
ivn-rat LD50:385 mg/kg ARZNAD 8,386,58
orl-mus LD50:962 mg/kg ANTCAO 6,226,56
ipr-mus LD50:260 mg/kg TXAPA9 24,37,73
ivn-mus LD50:407 mg/kg ANTCAO 6,226,56

ipr-gpg LD50:12 mg/kg UPJOH* 2(6),-,71
scu-gpg LD50:28 mg/kg UPJOH* 2(6),-,71
SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Moderately toxic by ingestion. Mutation data reported. An antibiotic with serious side effects which include liver and blood disease. It may also promote the development of resistant strains of staphylococcus. When heated to decomposition it emits toxic fumes of NO_x and Na_2O.

NOB700 CAS: 1936-40-9 HR: 3
NOVOEMBICHIN
mf: $C_7H_{14}Cl_3N$•ClH mw: 255.03
PROP: Colorless oil. Bp: 114°.
SYNS: BIS(β-CHLOROETHYL)-β-CHLOROPROPYLAMINE HYDROCHLORIDE □ N,N-BIS(2-CHLOROETHYL)-2-CHLORO-PROPYLAMINE HYDROCHLORIDE □ 2-CHLORO-N,N-BIS(2-CHLOROETHYL)-1-PROPYLAMINE HYDROCHLORIDE □ EMBICHIN 7 □ NOVEMBICHIN □ NOVEMBIKHIN
TOXICITY DATA with REFERENCE:
dni-mus:ast 30 mg/L NEOLA4 22,105,75
oms-mus:ast 30 mg/L NEOLA4 22,105,75
ipr-rat LD50:300 µg/kg CPBTAL 8,807,60
scu-mus LDLo:25 mg/kg NTIS** PB158-507
SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Mutation data reported. An anticancer agent. When heated to decomposition it emits toxic fumes of NO_x and HCl.

NOB800 CAS: 105-14-6 HR: 3
NOVOL KETONE
mf: $C_9H_{19}NO$ mw: 157.29
SYNS: DF 493 □ 1-(DIETHYLAMINO)-4-PENTANONE □ 5-DIETHYLAMINO-2-PENTANONE □ 2-PENTANONE, 5-(DIETHYLAMINO)-
TOXICITY DATA with REFERENCE:
ivn-mus LD50:190 mg/kg AIPTAK 145,233,63
DOT CLASSIFICATION: 3; Label: Flammable Liquid
SAFETY PROFILE: A poison by intravenous route. A flammable liquid. When heated to decomposition it emits toxic vapors of NO_x.

NOC000 CAS: 54-30-8 HR: 3
NOVOSPASMIN
mf: $C_{19}H_{32}N_2O_2$ mw: 320.53
PROP: Pale-yellow oil. Bp: 165−180° @ 1.5 mm.
SYNS: ACAMYLOPHENINE □ ADOPON □ AVADYL □ AVOCAN □ BELOSIN □ CAMYLOFINE □ CAMYLOPIN □ α-(2-(DIETHYLAMINOETHYL)AMINO)-BENZENEACETIC ACID-3-METHYLBUTYL ESTER □ α-(N,β-DIETHYLAMINOETHYL) AMINOPHENYLACETIC ACID ISOAMYL ESTER □ B-DIETHYL-AMINOETHYLAMINOPHENYLACETIC ACID ISOAMYL ESTER □ N-(2-DIETHYLAMINOETHYL)-2-PHENYLGLYCINE ISOPENTYL ESTER □ ISOAMYL N-(β-DIETHYLAMINOETHYL)-α-AMINOPHENYLACETATE □ ISOAMYL α-(N-(β-DIETHYL-AMINOETHYL))-AMINOPHENYL-ACETATE □ ISOPENTYL ALCHOL, ESTER with N-(2-(DIETHYLAMINO)ETHYL)-2-PHENYLGLYCINE □ NAVADYL □ PHENYLDIETHYLAMINO-ETHYL-1'-AMINOACETIC ACID, ISOPENTYL ESTER □ SINTESPASMIL □ SPASMOCAN
TOXICITY DATA with REFERENCE:
orl-mus LD50:760 mg/kg DMWOAX 76,479,51
ipr-mus LD50:175 mg/kg YKKZAJ 76,1175,56
SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. When heated to decomposition it emits toxic fumes of NO_x.

NOC100 CAS: 492-88-6 HR: 3
NOVOVANILLIN
mf: $C_9H_{10}O_3$ mw: 166.19
SYNS: BENZALDEHYDE, 3-ETHOXY-2-HYDROXY- □ 3-ETHOXYSALICYLALDEHYDE □ O-ETHYLVANILLIN
TOXICITY DATA with REFERENCE:
ipr-mus LD50:360 mg/kg COREAF 238,2576,54
ivn-dog LDLo:360 mg/kg COREAF 238,2576,54
ipr-gpg LD50:320 mg/kg COREAF 238,2576,54
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: A poison by intraperitoneal and intravenous routes. When heated to decomposition it emits acrid smoke and irritating vapors.

NOC400 CAS: 89911-79-5 HR: 2
NTPA
mf: $C_6H_{14}N_2O_4$ mw: 178.22
SYNS: 3-((2-HYDROXYPROPYL)NITROSAMINO)-1,2-PROPANEDIOL □ N-NITROSO-2,3-DIHYDROXYPROPYL-2-HYDROXYPROPYLAMINE □ NITROSOTRIHYDROXY-DIPROPYLAMINE
TOXICITY DATA with REFERENCE:
mma-sat 25 µg/plate TCMUE9 1,13,84
orl-rat TDLo:280 mg/kg/37W-C:CAR CRNGDP 5,167,84
SAFETY PROFILE: Questionable carcinogen with experimental carcinogenic and tumorigenic data. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also N-NITROSO COMPOUNDS.

NOE500 CAS: 475-83-2 HR: 3
1-NUCIFERINE
mf: $C_{19}H_{21}NO_2$ mw: 295.41
PROP: A solid. Mp: 165.5°. Alkaloid obtained from the lotus *Nelumbo nucifera* and *Nelumbo lutea* (AIPTAK 197,261,72).
SYNS: 1-5,6-DIMETHOXYAPORPHINE □ (R)-1,2-DIMETHOXY-APORPHINE □ 1,2-DIMETHOXY-6a-β-APORPHINE □ NUCIFERIN □ NUCIFERINE □ (−)-NUCIFERINE □ (R)-5,6,6a,7-TETRAHYDRO-1,2-DIMETHOXY-6-METHYL-4H-DIBENZO-(de,g)QUINOLINE
TOXICITY DATA with REFERENCE:
orl-rat LD50:280 mg/kg AIPTAK 197,261,72
orl-mus LD50:240 mg/kg AIPTAK 197,261,72
ipr-mus LD50:83 mg/kg JPMSAE 61,813,72
SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

NOE525 HR: 3
NU-1326 HYDROBROMIDE
mf: $C_{19}H_{17}N$•BrH mw: 340.29
SYNS: 2,3-DIHYDRO-2-METHYL-9-PHENYL-1H-INDENO(2,1-c)PYRIDINE HYDROBROMIDE □ 2-METHYL-9-PHENYL-2,3-DIHYDRO-1-PYRIDINDENE HYDROBROMIDE
TOXICITY DATA with REFERENCE:

orl-mus LD50:275 mg/kg JPETAB 92,249,48
ipr-mus LD50:150 mg/kg JPETAB 92,249,48
scu-mus LD50:260 mg/kg JPETAB 92,249,48
ivn-mus LD50:40 mg/kg JPETAB 92,249,48
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x and HBr.

NOE550 CAS: 63039-90-7 HR: 3
NU-1932
mf: $C_{17}H_{25}NO_2$•ClH mw: 311.89
SYNS: 3-β-AETHYL-1-METHYL-4-PHENYL-4-α-PIPERIDYL-PROPIONAT HYDROCHLORID (GERMAN) □ 3-β-AETHYL-1-METHYL-4-PHENYL-4-α-PROPIONYLOXYPIPERIDIN HYDROCHLORID (GERMAN) □ MEPRODINE (GERMAN)
TOXICITY DATA with REFERENCE:
orl-rat LD50:175 mg/kg JPETAB 93,314,48
scu-rat LD50:90 mg/kg JPETAB 93,314,48
ivn-rbt LD50:18 mg/kg JPETAB 93,314,48
ipr-mus LD50:136 mg/kg JPETAB 93,314,48
scu-mus LD50:150 mg/kg JPETAB 93,314,48
ivn-mus LD50:57 mg/kg JPETAB 93,314,48
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, and intraperitoneal routes. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

NOF000 HR: 1
NUISANCE DUSTS and AEROSOLS
SAFETY PROFILE: Variable toxicity depending upon composition. Cause local irritation of eyes, nose, throat, and lungs. Some may lead to chronic bronchitis, emphysema, and bronchial asthma. Dermatitis may result from short contact. Asthma, angioneurotic edema, hives, etc., may result from short periods of inhalation. A topic eczema, angioneurotic edema, hives, etc., may also result from prolonged contact. A common air contaminant. Nuisance aerosols do evoke some tissue response in the lung upon inhalation of sufficient amounts. However, this reaction is potentially reversible and leaves no scar tissue.

NOF500 CAS: 61-12-1 HR: 3
NUPERCAINE HYDROCHLORIDE
mf: $C_{20}H_{29}N_3O_2$•ClH mw: 379.98
PROP: Hygroscopic crystals. Mp: decomp @ 90−98°, vap d: 13.1.
SYNS: BENZOLIN □ BENZOLIN HYDROCHLORIDE □ BUTOXYCINCHONINIC ACID DIETHYLETHYLENEDIAMIDE HYDROCHLORIDE □ 2-N-BUTOXY-N-(2-DIETHYLAMINO-ETHYL)CINCHONINAMIDE HYDROCHLORIDE □ 2-BUTOXY-N-(2-DIETHYLAMINOETHYL)CINCHONINAMIDE HYDRO-CHLORIDE □ 2-BUTOXY-N-(2-DIETHYLAMINOETHYL)-CINCHONINIC ACID AMIDE HYDROCHLORIDE □ CINCAINE HYDROCHLORIDE □ CINCHOCAINE HYDROCHLORIDE □ CINCHOCAINIUM CHLORIDE □ DIBUCAIN □ DIBUCAINE HYDROCHLORIDE □ PERCAIN □ PERCAINE HYDRO-CHLORIDE □ SOVCAIN □ SOVCAINE HYDROCHLORIDE □ SOVKAIN □ SOVOCAINE HYDROCHLORIDE
TOXICITY DATA with REFERENCE:
eye-rbt 2% SEV ARZNAD 8,181,58
dnd-esc 15 μmol/L MUREAV 89,95,81
ipr-rat LD50:30 mg/kg JPETAB 103,306,51
scu-rat LD50:27 mg/kg DRUGAY -,478,90
ivn-rat LD50:52 mg/kg DRUGAY -,478,90
ipr-mus LD50:29 mg/kg JPETAB 94,299,48
scu-mus LD50:25,400 μg/kg PSEBAA 103,353,60
ivn-mus LD50:5151 μg/kg JAPMA8 44,393,55
scu-rbt LDLo:5 mg/kg ODFU** -,-,31
ivn-rbt LD50:2 mg/kg JPETAB 103,306,51
isp-rbt LDLo:2 mg/kg JPETAB 57,221,36
par-frg LDLo:55 mg/kg AEPPAE 166,437,32
SAFETY PROFILE: Poison by ingestion, subcutaneous, intravenous, intraspinal, parenteral, and intraperitoneal routes. Mutation data reported. A severe eye irritant. A local anesthetic. When heated to decomposition it emits very toxic fumes of HCl and NO_x.

NOG000 CAS: 84082-68-8 HR: 2
NUTMEG
SYNS: MYRISTICA □ NUCES NUCISTAE □ NUX MOSCHATA
TOXICITY DATA with REFERENCE:
orl-hmn TDLo:214 mg/kg:CNS,CVS JNEUAY 2,205,61
ipr-rat LD50:500 mg/kg JNEUAY 2,205,61
SAFETY PROFILE: Moderately toxic by intraperitoneal route. Human systemic effects by ingestion: central nervous system and cardiovascular system effects. When heated to decomposition it emits acrid smoke and irritating fumes.

NOG500 CAS: 8008-45-5 HR: 2
NUTMEG OIL, EAST INDIAN
PROP: Major components are α- and β-pinene, camphene, myristicin, dipentene, and sabanene. Found in fruit of *Myristica fragrans Houttuyn* (Fam. *Myristicaceae*). Prepared by steam distillation of dried nutmeg (FCTXAV 14,601,76). Colorless to pale-yellow liquid; odor and taste of nutmeg. East Indian: d: 0.880−0.910, refr index: 1.474−1.488; West Indian: d: 0.854−0.880, refr index: 1.469−1.476 @ 20°. Sol in fixed oils, mineral oil; sltly sol in cold alc; very sol in hot alc, chloroform, ether; insol in glycerin, propylene glycol.
SYNS: MYRISTICA OIL □ NUTMEG OIL □ OIL of MYRISTICA □ OIL of NUTMEG
TOXICITY DATA with REFERENCE:
skn-rbt 500 mg/24H MOD FCTXAV 14,631,76
dnr-bcs 20 mg/disc TOFOD5 8,91,85
orl-rat LD50:2620 mg/kg FCTXAV 14,631,76
skn-rbt LD50:>10 g/kg FCTXAV 14,631,76
CONSENSUS REPORTS: Reported in EPA TSCA Inventory.
SAFETY PROFILE: Moderately toxic by ingestion. Low toxicity by skin contact. An experimental teratogen. Experimental reproductive effects. Mutation data reported. A skin irritant. When heated to decomposition it emits acrid smoke and irritating fumes.

NOG800 HR: 3
NUX-VOMICA TREE
PROP: A small tree with oval leaves about 3.5 inches long. The hard-shelled fruit looks like a small yellow or orange grapefruit about 1.5 inches in diameter. The gray,

velvety seeds are the size and shape of a nickel. The tree is grown in Hawaii.
SYNS: STRYCHNINE □ STRYCHNOS NUX-VOMICA
SAFETY PROFILE: The whole plant including the seeds contains the poison strychnine. Ingestion of any part of the plant may cause severe muscle spasms, fever, anoxia, metabolic acidosis, and convulsions. See also STRYCHNINE.

NOH000 CAS: 63428-83-1 HR: 1
NYLON
mf: $(C_6H_{11}NO)_n$
PROP: Crystalline solid. Sol in phenol, cresols, xylene, and formic acid. Insol in alc, esters, ketones, hydrocarbons. Film used for implant study. (CNREA8 15,333,55).
SYNS: AMILAN □ ASHLENE □ CAPROLON □ ENKALON □ GRILON □ KAPRON □ MIRLON □ PERLON □ PHRILON □ POLYAMID (GERMAN) □ SILON □ TROGAMID T □ VYDYNE
SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data by implant. Reacts violently with F_2. When heated to decomposition it emits toxic fumes of NO_x.

NOH100 CAS: 15511-81-6 HR: 2
NYLON SALT
mf: $C_6H_{16}N_2 \bullet xC_6H_{10}O_4$ mw: 1139.36
SYNS: ADIPIC ACID, 1,6-HEXANEDIAMINE SALT □ HA SALT □ HEXAMETHYLENEDIAMINE ADIPATE □ HEXANEDIOIC ACID, compounded with 1,6-HEXANEDIAMINE
TOXICITY DATA with REFERENCE:
orl-mus LD50:3600 mg/kg GISAAA 49(12),40,84
SAFETY PROFILE: Moderately toxic by ingestion. When heated to decomposition it emits toxic vapors of NO_x.

NOH500 CAS: 1400-61-9 HR: 3
NYSTATIN
mf: $C_{46}H_{83}NO_{18}$ mw: 938.30
PROP: Yellow to light-tan powder; odor suggestive of cereals. Mp: decomp >160°. Sparingly sol in methanol and ethanol; very sltly sol in water; insol in chloroform, ether, and benzene.
SYNS: BIOFANAL □ CANDEX □ CANDIO-HERMAL □ DIASTATIN □ MORONAL □ MYCOSTATIN □ MYCOSTATIN 20 □ NILSTAT □ NYSTAN □ NYSTATINE □ NYSTAVESCENT □ O-V STATIN
TOXICITY DATA with REFERENCE:
cyt-mus-par 50 mg/kg EXPEAM 33,306,77
orl-rat LD50:10 g/kg APPHAX 30,81,73
ipr-rat LD50:24,305 µg/kg ABANAE 3,697,55/56
orl-mus LD50:8000 mg/kg PMDCAY 14,105,77
ipr-mus LD50:4400 µg/kg JPMSAE 65,905,76
scu-mus LD50:120 mg/kg NYKZAU 53,228S,57
ivn-mus LD50:3 mg/kg JANTAJ 32,1230,79
CONSENSUS REPORTS: EPA Genetic Toxicology Program.
SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by subcutaneous route. Mildly toxic by ingestion. An experimental teratogen. Mutation data reported. An antibiotic. When heated to decomposition it emits toxic fumes of NO_x.