

Hazardous Materials Definitions for Proposal Submission Request forms

Below are definitions for acutely toxic chemicals, toxic gases, and explosive chemicals. Please use these definitions and examples to determine whether the boxes need to be checked off for the corresponding categories on the PSR form for your research project. If you have any questions please call EH&S for help at 303-492-6025.

Acutely Toxic Chemicals

Definition:

A chemical with any of the following properties: An oral toxicity $LD_{50} \leq 5$ mg/kg; a dermal toxicity $LD_{50} \leq 50$ mg/kg; an inhalation toxicity by dust and mists $LC_{50} \leq 0.2$ mg/L; or a chemical that is listed as an EPA "P-Listed" chemical waste.

Examples (not all inclusive, call EH&S with questions):

The EPA "P-list" can also be viewed here: http://www.ecfr.gov/cgi-bin/text-idc?SID=5f26d2fa35cbe51c4475147ee70aa0f6&node=se40.26.261_133&rgn=div8

Chemical Name	CAS Registry Number
Acetaldehyde, chloro-	000107-20-0
Acetamide, 2-fluoro-	000640-19-7
Acetamide, N-(aminothioxomethyl)-	000591-08-2
Acetic acid, fluoro-, sodium salt	000062-74-8
Acrolein	000107-02-8
Aldicarb	000116-06-3
Aldicarb sulfone	001646-88-4
Aldrin	000309-00-2
Allyl alcohol	000107-18-6
alpha,alpha-Dimethylphenethylamine	000122-09-8
alpha-Naphthylthiourea	000086-88-4
Aluminum phosphide	020859-73-8
Ammonium picrate	000131-74-8
Ammonium vanadate	007803-55-6
Argentate(1-), bis(cyano-C)-,potassium	000506-61-6
Arsenic acid	007778-39-4
Arsenic oxide	001327-53-3
Arsenic oxide	001303-28-2
Arsenic pentoxide	001303-28-2
Arsenic trioxide	001327-53-3
Arsine, diethyl	000692-42-2
Arsonous dichloride, phenyl-	000696-28-6
Aziridine	000151-56-4
Aziridine, 2-methyl-	000075-55-8

Barium cyanide	000542-62-1
Benzenamine, 4-chloro-	000106-47-8
Benzenamine, 4-nitro-	000100-01-6
Benzene, (chloromethyl)-	000100-44-7
Benzeneethanamine, alpha,alpha- dimethyl-	000122-09-8
Benzenethiol	000108-98-5
Benzoic acid, 2-hydroxy-, compd. With (3aS-cis)-1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl methylcarbamate ester (1:1).	000057-64-7
Benzyl chloride	000100-44-7
Beryllium powder	007440-41-7
Bromoacetone	000598-31-2
Brucine	000357-57-3
Calcium cyanide	000592-01-8
Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester.	055285-14-8
Carbamic acid, dimethyl-, 1-[(dimethyl- amino)carbonyl]- 5-methyl-1H- pyrazol-3-yl ester.	000644-64-4
Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H- pyrazol-5-yl ester.	000119-38-0
Carbamic acid, methyl-, 3-methylphenyl ester.	001129-41-5
Carbofuran.	001563-66-2
Carbon disulfide	000075-15-0
Carbonic dichloride	000075-44-5
Carbosulfan	055285-14-8
Chloroacetaldehyde	000107-20-0
Copper cyanide	000544-92-3
Cyanides (soluble cyanide salts), not otherwise specified	
Cyanogen	000460-19-5
Cyanogen chloride	000506-77-4
Dichloromethyl ether	000542-88-1
Dichlorophenylarsine	000696-28-6
Dieldrin	000060-57-1
Diethylarsine	000692-42-2
Diethyl-p-nitrophenyl phosphate	000311-45-5
Diisopropylfluorophosphate (DFP)	000055-91-4
Dimethoate	000060-51-5
Dimetilan.	000644-64-4
Dinoseb	000088-85-7
Diphosphoramidate, octamethyl-	000152-16-9
Diphosphoric acid, tetraethyl ester	000107-49-3
Disulfoton	000298-04-4
Dithiobiuret	000541-53-7
Endosulfan	000115-29-7
Endothall	000145-73-3
Endrin	000072-20-8
Endrin, & metabolites	000072-20-8
Epinephrine	000051-43-4
Ethanedinitrile	000460-19-5

Ethanimidothioc acid, 2-(dimethylamino)-N-[[[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester.	023135-22-0
Ethanimidothioic acid,N-[[[(methylamino)carbonyl]oxy]-,methyl ester	016752-77-5
Ethyl cyanide	000107-12-0
Ethyleneimine	000151-56-4
Famphur	000052-85-7
Fluorine	007782-41-4
Fluoroacetamide	000640-19-7
Fluoroacetic acid, sodium salt	000062-74-8
Formetanate hydrochloride.	023422-53-9
Formparanate.	017702-57-7
Fulminic acid, mercury(2+) salt	000628-86-4
Heptachlor	000076-44-8
Hexaethyl tetraphosphate	000757-58-4
Hydrazine, methyl-	000060-34-4
Hydrazinecarbothioamide	000079-19-6
Hydrocyanic acid	000074-90-8
Hydrogen cyanide	000074-90-8
Hydrogen phosphide	007803-51-2
Isodrin	000465-73-6
Isolan.	000119-38-0
Manganese dimethyldithiocarbamate.	015339-36-3
Manganese,bis(dimethylcarbamo dithioato-S,S')-,	015339-36-3
m-Cumenyl methylcarbamate.	000064-00-6
Mercury fulminate (R,T)	000628-86-4
Mercury, (acetato-O)phenyl-	000062-38-4
Methanamine, N-methyl-N-nitroso-	000062-75-9
Methane, isocyanato-	000624-83-9
Methane, oxybis[chloro-	000542-88-1
Methane, tetranitro- (R)	000509-14-8
Methanethiol, trichloro-	000075-70-7
Methanimidamide, N,N-dimethyl-N'-[3-[[[(methylamino)-carbonyl]oxy]phenyl]-, monohydrochloride.	023422-53-9
Methiocarb.	002032-65-7
Methomyl	016752-77-5
Methyl hydrazine	000060-34-4
Methyl isocyanate	000624-83-9
Methyl parathion	000298-00-0
Metolcarb.	001129-41-5
Mexacarbate.	000031-58-4
Nickel carbonyl	013463-39-3
Nickel cyanide	000557-19-7
Nicotine, & salts	000054-11-5
Nitric oxide	010102-43-9
Nitrogen dioxide	010102-44-0
Nitrogen oxide NO	010102-43-9
Nitroglycerine	000055-63-0



N-Nitrosodimethylamine	000062-75-9
N-Nitrosomethylvinylamine	004549-40-0
O,O-Diethyl O-pyrazinyl phosphorothioate	000297-97-2
Octamethylpyrophosphoramidate	000152-16-9
Osmium tetroxide	020816-12-0
Oxamyl.	023135-22-0
Parathion	000056-38-2
p-Chloroaniline	000106-47-8
Phenol, (3,5-dimethyl-4-(methylthio)-,methylcarbamate	002032-65-7
Phenol, 2-(1-methylpropyl)-4,6-dinitro-	000088-85-7
Phenol, 2,4,6-trinitro-, ammonium salt ®	000131-74-8
Phenol, 2,4-dinitro-	000051-28-5
Phenol, 2-cyclohexyl-4,6-dinitro-	000131-89-5
Phenol, 2-methyl-4,6-dinitro-, & salts	000534-52-1
Phenol, 3-(1-methylethyl)-, methylcarbamate.	000064-00-6
Phenol, 3-methyl-5-(1-methylethyl)-,methyl carbamate.	002631-37-0
Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester).	000315-18-4
Phenylmercury acetate	000062-38-4
Phenylthiourea	000103-85-5
Phorate	000298-02-2
Phosgene	000075-44-5
Phosphine	007803-51-2
Phosphoric acid, diethyl 4-nitrophenylester	000311-45-5
Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester	000298-04-4
Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)methyl] ester	000298-02-2
Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester	000060-51-5
Phosphorofluoridic acid, bis(1-methylethyl) ester	000055-91-4
Phosphorothioic acid, O,O,-dimethyl O(4-nitrophenyl) ester	000298-00-0
Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester	000056-38-2
Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	000297-97-2
Phosphorothioic acid,O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester	000052-85-7
Physostigmine salicylate.	000057-64-7
Physostigmine.	000057-47-6
Plumbane, tetraethyl-	000078-00-2
p-Nitroaniline	000100-01-6
Potassium cyanide	000151-50-8
Potassium cyanide K(CN)	000151-50-8
Potassium silver cyanide	000506-61-6
Promecarb	002631-37-0
Propanal, 2-methyl-2-(methyl-sulfonyl)-, O-[(methylamino)carbonyl] oxime.	001646-88-4
Propanal, 2-methyl-2-(methylthio)-,O-[(methylamino)carbonyl]oxime	000116-06-3
Propanenitrile	000107-12-0
Propanenitrile, 2-hydroxy-2-methyl-	000075-86-5
Propanenitrile, 3-chloro-	000542-76-7
Propargyl alcohol	000107-19-7
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts	000054-11-5

Pyrrolo[2,3-b]indol-5-ol,1,2,3,3a,8,8a-hexahydro-1,3a,8- trimethyl-, methylcarbamate (ester), (3aS-cis)-.	000057-47-6
Selenious acid, dithallium(1+) salt	012039-52-0
Selenourea	000630-10-4
Silver cyanide	000506-64-9
Silver cyanide Ag(CN)	000506-64-9
Sodium azide	026628-22-8
Sodium cyanide	000143-33-9
Sodium cyanide Na(CN)	000143-33-9
Strychnidin-10-one, & salts	000057-24-9
Strychnidin-10-one, 2,3-dimethoxy-	000357-57-3
Strychnine, & salts	000057-24-9
Sulfuric acid, dithallium(1+) salt	007446-18-6
Tetraethyl lead	000078-00-2
Tetraethyl pyrophosphate	000107-49-3
Tetraethyldithiopyrophosphate	003689-24-5
Tetranitromethane	000509-14-8
Tetraphosphoric acid, hexaethyl ester	000757-58-4
Thallic oxide	001314-32-5
Thallium(I) selenite	012039-52-0
Thallium(I) sulfate	007446-18-6
Thiodiphosphoric acid, tetraethylester	003689-24-5
Thiofanox	039196-18-4
Thioimidodicarbonic diamide	000541-53-7
Thiophenol	000108-98-5
Thiosemicarbazide	000079-19-6
Thiourea, (2-chlorophenyl)-	005344-82-1
Thiourea, 1-naphthalenyl-	000086-88-4
Thiourea, phenyl-	000103-85-5
Tirpate.	026419-73-8
Toxaphene	008001-35-2
Trichloromethanethiol	000075-70-7
Vanadic acid, ammonium salt	007803-55-6
Vanadium pentoxide	001314-62-1
Vinylamine, N-methyl-N-nitroso-	004549-40-0
Warfarin, & salts, when present at concentrations greater than 0.3%	000081-81-2
Zinc cyanide	000557-21-1
Zinc phosphide	001314-84-7
Zinc, bis(dimethylcarbamodithioato- S,S')-,	000137-30-4
Ziram.	000137-30-4
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	000076-44-8
6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10- hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide	000115-29-7
Methanimidamide, N,N-dimethyl-N'-[2-methyl-4- [[[(methylamino)carbonyl]oxy]phenyl]-	017702-57-7
1-(o-Chlorophenyl)thiourea	005344-82-1
1,2,3-Propanetriol, trinitrate	000055-63-0

1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-,	000051-43-4
1,2-Propylenimine	000075-55-8
1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O- [(methylamino)-carbonyl]oxime.	026419-73-8
1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a,-hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha,8 abeta)-	000309-00-2
1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8ab eta)-	000465-73-6
1-Acetyl-2-thiourea	000591-08-2
2,4-Dinitrophenol	000051-28-5
2,7:3,6-Dimethanonaphth[2,3-b]oxirene,3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, alpha,7beta, 7aalpha)-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta, 7aalpha)-, & metabolites	000072-20-8
2-Butanone, 3,3-dimethyl-1(methylthio)-, O-[methylamino)carbonyl] oxime	039196-18-4
2-Cyclohexyl-4,6-dinitrophenol	000131-89-5
2H-1-Benzopyran-2-one, 4-hydroxy-3-(3- oxo-1-phenylbutyl)-, & salts, when present at concentrations greater than 0.3%	000081-81-2
2-Methylactonitrile	000075-86-5
2-Propanone, 1-bromo-	000598-31-2
2-Propen-1-ol	000107-18-6
2-Propenal	000107-02-8
2-Propyn-1-ol	000107-19-7
3(2H)-Isoxazolone, 5-(aminomethyl)-	002763-96-4
3-Chloropropionitrile	000542-76-7
3-Isopropylphenyl N-methylcarbamate.	000064-00-6
4,6-Dinitro-o-cresol, & salts	000534-52-1
4-Aminopyridine	000504-24-5
4-Pyridinamine	000504-24-5
5-(Aminomethyl)-3-isoxazolol	002763-96-4
7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate.	001563-66-2
7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	000145-73-3



Toxic Gases

Definition:

Toxic gases are those classified by the National Fire Protection Association (NFPA) as a Health Hazard rating of 3 or 4. NFPA Health Hazard ratings can be found on the Safety Data Sheet for each compressed gas. This corresponds to an acute inhalation toxicity (an exposure of 1 hour or less) of vapors or gases that have LC₅₀ values $\leq 3,000$ ppm.

Examples (not all inclusive, call EH&S with questions):

Arsenic pentafluoride	Hydrogen azide
Arsine	Hydrogen cyanide
Bis(trifluoromethyl)peroxide	Hydrogen selenide
Boron tribromide	Hydrogen sulfide
Boron trichloride	Hydrogen telluride
Boron trifluoride	Nickel tetracarbonyl
Bromine	Nitrogen dioxide
Bromine chloride	Osmium tetroxide
Bromomethane	Oxygen difluoride
Carbon monoxide	Perchloryl fluoride
Chlorine	Perfluoroisobutylene
Chlorine pentafluoride	Phosgene
Chlorine trifluoride	Phosphine
Chlorofluorocarbons	Phosphorus pentafluoride
Chloropicrin	Selenium hexafluoride
Cyanogen	Silicon tetrachloride
Cyanogen chloride	Silicon tetrafluoride
Diazomethane	Stibine
Diborane	Disulfur decafluoride
Dichloroacetylene	Sulfur tetrafluoride
Dichlorosilane	Tellurium hexafluoride
Fluorine	Tetraethyl pyrophosphate
Formaldehyde, gas	Tetraethyl dithiopyrophosphate
Germane	Trifluoroacetyl chloride
Hexaethyl tetraphosphate	Tungsten hexafluoride



Explosive Chemicals

Definition:

A chemical that is:

1. Capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.
2. Is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.
3. Is listed as a Division 1.1, 1.2, 1.3, 1.4, 1.5 or 1.6 explosive, or a forbidden explosive in US DOT Hazardous Materials Table [49 CFR 172.101](#).

Examples (not all inclusive, call EH&S with questions):

1,1'-Diazoaminonaphthalene	2,4,6-Trinitroso-3-methyl
1,1-Dinitroethane	nitraminoanisole
1,2,4-Butanetriol trinitrate	2,4-Dinitro-1,3,5-trimethyl-benzene
1,2-Diazidoethane	2,4-Dinitrophenylhydrazine
1,3,5-trimethyl-2,4,6-trinitrobenzene	2,4-Dinitroresorcinol
1,3-Diazopropane	2,5-dimethyl-2,5-dihydroperoxy hexane
1,3-Dinitro-4,5-dinitrosobenzene	2-Nitro-2-methylpropanol nitrate
1,3-dinitro-5,5-dimethyl hydantoin	3,5-Dinitrosalicylic acid
1,4-Dinitro-1,1,4,4-	3-Azido-1,2-propylene glycol dinitrate
tetramethylolbutanetetranitrate	4-Bromo-1,2-dinitrobenzene
1,7-Octadiene-3,5-Diyne-1,8-	5-Azido-1-hydroxytetrazole
Dimethoxy-9-Octadecynoic acid	5-Mercaptotetrazol
1,8 -dihydroxy 2,4,5,7-	5-Mercaptotetrazol-1-acetic acid
tetranitroanthraquinone	5-Nitrobenzotriazol
1,9-Dinitroxy pentamethylene-2,4,6,8-	6-Nitro-4-diazotoluene-3-sulphonic acid
tetramine	Acetyl benzoyl peroxide, solid
1-Bromo-3-nitrobenzene	Acetyl Acetone peroxide
2,2',4,4',6,6'-Hexanitro-3,3'-	Diacetyl peroxide
dihydroxyazobenzene	Acetyl cyclohexanesulfonyl peroxide
2,2-di-(4,4,-di-tert-	Acetylene silver nitrate
butylperoxycyclohexyl)propane	Acetylides of heavy metals
2,2-Dinitrostilbene	Aluminum containing polymeric
2,3,4,6- tetranitrophenol	propellant
2,3,4,6-tetranitrophenyl methyl nitramine	Aluminum ophorite explosive
2,3,4,6-tetranitrophenyl nitramine	Amatex
2,3,5,6- tetranitroso nitrobenzene	Amatol
2,3,5,6- tetranitroso-1,4-dinitrobenzene	Ammonal
2,4,6-Trinitro-1,3,5-triazo benzene	Ammonium azide
2,4,6-trinitro-1,3-diazabenzene	Ammonium bromate
2,4,6-Trinitrophenyl trimethylol methyl	Ammonium chlorate
nitramine trinitrate	Ammonium Fulminate
	Ammonium nitrite



Ammonium perchlorate
Ammonium permanganate
Ammonium picrate
Ammonium salt lattice with
isomorphously substituted inorganic
salts
Antimony Sulfide + chlorate
Antimony Sulphide + chlorate
Arsenic trisulphide
Ascaridole (organic peroxide)
Azido and Diazido compounds
Azido guanidine picrate
Azidodithiocarbonic acid
Azidoethyl nitrate
Azotetrazole
BEAF [1, 2-bis (2, 2-difluoro-2-
nitroacetoxyethane)]
BTNEC [bis (trinitroethyl) carbonate]
BTNEN [bis (trinitroethyl) nitramine]
BTTN [1,2,4 butanetriol trinitrate]
Butyl tetryl
Barium azide
Barium Styphnate
Benzene diazonium chloride
Benzene diazonium nitrate
Benzene triozone
Benzoxidiazoles
Benzoyl azide
Biphenyl triozone
Bismuth nitride
Borane/Ammonia complexes
Bromine azide
Bromosilane
Butyl hypochlorite
Carbohydrazide (also called Carbazide)
Calcium Acetylide Chloroacetone
Chlorine azide
Chlorine dioxide
Chloroacetone (unstabilized)
Chlorobutadiene (see Chloroprene)
Chloroprene
Chrysamminic acid
Copper acetylide
Copper amine azide
Copper Azide

Copper tetramine nitrate
Cyanuric Triazide
Cyclonite
Cyclotetramethylenetetranitramine
Di(tert-butylperoxy)butane
Diaminotrinitrobenzene [DATB]
DEGDN [diethyleneglycol dinitrate]
Dimethylol dimethyl methane dinitrate
composition
Di-(1-hydroxytetrazole)
Di-(1-naphthoyl) peroxide
Di-(beta-nitroxyethyl)ammonium nitrate
alpha,alpha'-Di-(nitroxy)methylether
Di(tert-butylperoxy)phthalate
p,p'-Dichlorodibenzoyl peroxide
Diacetone alcohol peroxides
Diacetone alcohol peroxides
Diacetyl peroxide
Diazoaminotetrazole
Diazodinitrophenol
Diazonium nitrates
Diazonium perchlorates
Diazodiphenylmethane
Dibromoacetylene
Dichloroacetylene
Dichlorodimethyl ether
Dichloroethyl Sulfide
Dichloroethyl sulphide
Dichlorovinylchlorarsine
Diethanol nitrosamine dinitrate
Diethyl peroxydicarbonate
Diethylgold bromide
Diiodoacetylene
Diisopropylbenzene hydroperoxide
Dimethylhexane dihydroperoxide
Di-n-butyl peroxydicarbonate
Dinitro-7,8-dimethylglycoluril
1,1-Dinitroethane
1,2-Dinitroethane
Dinitroglycoluril
Dinitromethane
Dinitrophenol (dry or less than 15 %
wet)
Dinitropropylene glycol
Dinitroresorcinol

Dinitrosobenzylamidine
 Dinitrotoluene- sodium nitrate explosive mixtures
 Dintrosobenzene
 DIPAM (also called (1,1'-Biphenyl)-3,3'-diamine, 2,2',4,4',6,6'-hexanitro-)
 Dinitroethyleneurea
 Dipicryl Sulfide
 Dipicryl Sulphide
 Dipicrylamine (Hexanitrodiphenylamine)
 2,2-dinitropropyl acrylate [DNPA]
 DNPD [dinitropentano nitrile]
 Dipropionyl peroxide
 Ethylenediamine dinitrate [EDDN]
 Ethylenedinitramine [EDNA]
 Ednatol
 EDNP [ethyl 4,4-dinitropentanoate]
 EGDN [ethylene glycol dinitrate]
 Ethanol amine dinitrate
 Ethyl hydroperoxide
 Ethyl nitrate
 Ethyl nitrite
 Ethyl perchlorate
 Ethylene diamine diperchlorate
 Ethylene glycol dinitrate
 Fulminating gold
 Fulminating mercury
 Fulminating platinum
 Fulminating silver
 Fulminic acid
 Galactsan trinitrate
 Glycerol gluconate trinitrate
 Glycerol lactate trinitrate
 Glycerol-1,3-dinitrate
 Guanyl nitrosaminoguanilyltetrazene
 Guanyl nitrosaminoguanylidene hydrazine (dry)
 Guncotton (also called Pyroxylin)
 Heavy metal azides
 Hexamethylene triperoxide diamine
 Hexamethylol benzene hexanitrate
 Hexanite
 Hexanitroethane
 Hexanitroazoxy benzene
 Hexanitrodiphenyl urea

Hexanitrodiphenylamine
 Hexanitrodiphenylether
 Hexanitrodiphenylethylene dinitramine
 Hexanitrooxanilide
 Hexanitrostilbene
 Hexogen
 Hexolite (also called Cyclonite)
 Hexotol
 Hexatonal
 Hexyl (also called Dipicrylamine)
 Hydrazine azide
 Hydrazine chlorate
 Hydrazine dicarbonic acid diazide
 Hydrazine perchlorate
 Hydrazine selenate
 Hydrazoic acid
 Hydroxy amine iodide
 Hyponitrous acid
 Inositol hexanitrate
 Inulin trinitrate
 Iodine azide (dry)
 Iodoxy compounds
 Iridium nitratopentamine iridium nitrate
 Isothiocyanic acid
 KDNBF (potassium dinitrobenzofuroxan)
 Lead azide
 Lead mannite
 Lead nitroresorcinate (dry)
 Lead nitroresorcinate (dry)
 Lead nitroresorcinate (dry)
 Lead picrate (dry)
 Lead styphnate (dry)
 Lead trinitroresorcinate
 Liquid nitrated polyol and trimethylolethane
 Mannitol hexanitrate (dry)
 Mannitan tetranitrate
 MDPN (methyl 4,4'-dinitropentanoate)
 Mercury acetylide
 Mercurous azide
 Mercury iodide aquabasic ammonobasic
 Mercury nitride
 Mercury oxalate
 Mercury tartrate

Metriol trinitrate (also called 1,3-Propanediol, 2-methyl-2-((nitrooxy)methyl)-, dinitrate (ester))
 Minol-2 [40% TNT, 40% ammonium nitrate, 20% aluminum]
 MMAN [monomethylamine nitrate]; methylamine nitrate
 Mononitrotoluene-nitroglycerin mixture
 Monopropellants
 Mercury oxycyanide
 Metal salts of methyl nitramine
 Methazoic acid
 Methyl ethyl ketone peroxide
 Methyl nitrate
 Methyl nitrite
 Methyl picric acid (also called 2,4,6-Trinitro-m-cresol)
 Methyl trimethylol methane trinitrate
 Methylene dinitramine
 Methylamine Nitrate solution
 Methylamine nitroform
 Methylamine perchlorate
 Methylene glycol dinitrate
 m-Nitrobenzene diazonium perchlorate
 Monochloroacetone
 N-Nitroaniline
 N,N'-Dichlorazodicarbon
 Naphthalene diozonide
 Naphthyl-amineperchlorate
 Nickel picrate
 Nitrates of diazonium compounds
 Nitro- substituted carboxylic acids
 Nitro urea
 Nitrocellulose
 Nitroethyl nitrate
 Nitrogen trichloride
 Nitrogen triiodide
 Nitrogen triiodide monoamine
 Nitroglycide
 Nitroguanidine (Picrite)
 Nitroguanidine nitrate
 Nitromannite (see Mannitol hexanitrate)
 Nitromethylene polymer
 m-Nitrophenyldinitro methane
 Nitrosilanes

Nitrosugars
 Nitrotriazolone
 n-Nitro-n-methylglycolamide nitrate
 Octogen
 Octol
 Octolite
 Octonal
 Organic amine nitrate
 Organic nitramines
 Organic Peroxides
 p-Diazidobenzene
 Pentaerythrite tetranitrate (dry)
 Pentaerythritol tetranitrate
 Pentanitroaniline (dry)
 Perchloric acid (>50%)
 Peroxide forming compounds:
 Peroxy acetic acid (>43%, w >6% hydrogen peroxide)
 PETN (see Pentaerythritol tetranitrate)
 Phosphorous and chlorate mixtures
 Picramide
 Ammonium picrate
 Picric acid (Trinitrophenol)
 Picric acid (<30% water)
 Picrite (<20% water)
 Picryl chloride
 Picryl fluoride
 PLX (95% nitromethane, 5% ethylenediamine)
 Potassium carbonyl
 Potassium nitroaminotetrazole
 p-Xylyl diazide
 Pyridine perchlorate
 Quebrachitol pentanitrate
 RDX
 Selenium nitride
 Silver acetylde (dry)
 Silver azide (dry)
 Silver chlorite (dry)
 Silver oxalate (dry)
 Silver picrate (dry)
 Silver styphnate
 Silver tartrate explosive mixtures
 Silver tetrazene
 Sodatol

Sodium dinitro-o-cresolate	Trinitroamine cobalt
Sodium picramate	Trinitroaniline
Sodium picryl peroxide	Trinitroanisole
Sodium tetranitride	Trinitrobenzene
Styphnic acid (<20% water/alcohol)	Trinitrobenzenesulfonic acid
Sucrose octanitrate (dry)	Trinitrobenzenesulphonic acid
tert butyl peroxyisobutyrate	Trinitrobenzoic acid
tert-Butoxycarbonyl azide	Trinitrochlorobenzene
tert-Butylhydroperoxide	Trinitroethanol
tert-butyl peroxyacetate	Trinitroethylnitrate
Tetraazido benzene quinone	Trinitrofluorenone
Tetraethylammonium perchlorate	Trinitro-m-cresol
Tetramethylene diperoxide dicarbamide	Trinitromethane
Tetranitroaniline	Trinitronaphthalene
Tetranitrodyglycerin	Trinitrophenetole
Tetranitroresorcinol	Trinitrophenol
Tetrazine	Trinitrophenyl guanidine
Tetrazol-1-Acetic acid	Trinitrophenyl nitramine
Tetrazolyl azide	Trinitrophenylmethylnitramine
Tetryl	Trinitrophloroglucinol
TNT mixtures	Trinitroresorcinol (<20% water or alcohol)
Tri(b-nitroxyethyl)ammonium nitrate	Trinitrotetramine cobalt nitrate
Trichloromethyl perchlorate	Trinitrotoluene (<30% water)
Triformoxime trinitrate	Tris, bis- bifluoramino diethoxy propane
Trimethylene glycol diperchlorate	Tritonal
Trimethylol nitromethane trinitrate	Urea nitrate
Trimonite	Vinyl nitrate polymer
Trinitroacetic acid	Zirconium picramate
Trinitroacetoneitrile	