

Potentially Explosive Chemicals*

Chemical Name	CAS #
1,1'-Diazoaminonaphthalene	Not Assigned
1,1-Dinitroethane	000600-40-8
1,2,4-Butanetriol trinitrate	006659-60-5
1,2-Diazidoethane	000629-13-0
1,3,5-trimethyl-2,4,6-trinitrobenzene	000602-96-0
1,3-Diazopropane	005239-06-5
1,3-Dinitro-4,5-dinitrosobenzene	Not Assigned
1,3-dinitro-5,5-dimethyl hydantoin	Not Assigned
1,4-Dinitro-1,1,4,4-tetramethylolbutanetranitrate	Not Assigned
1,7-Octadiene-3,5-Diyne-1,8-Dimethoxy-9-Octadecynoic acid	Not Assigned
1,8 -dihydroxy 2,4,5,7-tetranitroanthraquinone	000517-92-0
1,9-Dinitroxy pentamethylene-2,4,6,8-tetramine	Not Assigned
1-Bromo-3-nitrobenzene	000585-79-5
2,2',4,4',6,6'-Hexanitro-3,3'-dihydroxyazobenzene	Not Assigned
2,2-di-(4,4,-di-tert-butylperoxycyclohexyl)propane	001705-60-8
2,2-Dinitrostilbene	006275-02-1
2,3,4,6- tetranitrophenol	000641-16-7
2,3,4,6-tetranitrophenyl methyl nitramine	Not Assigned
2,3,4,6-tetranitrophenyl nitramine	Not Assigned
2,3,5,6- tetranitroso nitrobenzene	Not Assigned
2,3,5,6- tetranitroso-1,4-dinitrobenzene	Not Assigned
2,4,6-Trinitro-1,3,5-triazo benzene	029306-57-8
2,4,6-trinitro-1,3-diazabenzene	Not Assigned
2,4,6-Trinitrophenyl trimethylol methyl nitramine trinitrate	Not Assigned
2,4,6-Trinitroso-3-methyl nitraminoanisole	Not Assigned
2,4-Dinitro-1,3,5-trimethyl-benzene	000608-50-4
2,4-Dinitrophenylhydrazine	000119-26-6
2,4-Dinitroresorcinol	000519-44-8
2,5-dimethyl-2,5-dihydroperoxy hexane	
2-Nitro-2-methylpropanol nitrate	024884-69-3
3,5-Dinitrosalicylic acid	000609-99-4
3-Azido-1,2-propylene glycol dinitrate	Not Assigned
4-Bromo-1,2-dinitrobenzene	000610-38-8
5-Azido-1-hydroxytetrazole	Not Assigned

5-Mercaptotetrazol	
5-Mercaptotetrazol-1-acetic acid	Not Assigned
5-Nitrobenzotriazol	002338-12-7
6-Nitro-4-diazotoluene-3-sulphonic acid	Not Assigned
Acetyl benzoyl peroxide, solid	000644-31-5
Acetyl Acetone peroxide	037187-22-7
Diacetyl peroxide	000110-22-5
Acetyl cyclohexanesulfonyl peroxide	003179-56-4
Acetylene silver nitrate	Not Assigned
Acetylides of heavy metals	
Aluminum containing polymeric propellant	
Aluminum ophorite explosive	
Amatex	
Amatol	008006-19-7
Ammonal	
Ammonium azide	012164-94-2
Ammonium bromate	013843-59-9
Ammonium chlorate	010192-29-7
Ammonium Fulminate	134282-14-7
Ammonium nitrite	013446-48-5
Ammonium perchlorate	007790-98-9
Ammonium permanganate	013446-10-1
Ammonium picrate	000131-74-8
Ammonium salt lattice with isomorphously substituted inorganic salts	
Antimony Sulfide + chlorate	
Antimony Sulphide + chlorate	
Arsenic trisulphide	001303-33-9
Ascaridole (organic peroxide)	000512-85-6
Azido and Diazido compounds	
Azido guanidine picrate	Not Assigned
Azidodithiocarbonic acid	004472-06-4
Azidoethyl nitrate	053422-49-4
Azotetrazole	Not Assigned
BEAF [1, 2-bis (2, 2-difluoro-2-nitroacetoxyethane)]	
BTNEC [bis (trinitroethyl) carbonate]	
BTNEN [bis (trinitroethyl) nitramine]	
BTTN [1,2,4 butanetriol trinitrate]	006659-60-5
Butyl tetryl	
Barium azide	018810-58-7
Barium Styphnate	020236-55-9
Benzene diazonium chloride	000100-34-5
Benzene diazonium nitrate	000619-97-6
Benzene triozonide	Not Assigned
Benzoxidiazoles	Not

	Assigned
Benzoyl azide	000582-61-6
Biphenyl triozone	Not Assigned
Bismuth nitride	
Borane/Ammonia complexes	
Bromine azide	013973-87-0
Bromosilane	013465-73-1
Butyl hypochlorite	
Carbohydrazide (also called Carbazide)	000497-18-7
Calcium Acetylide Chloroacetone	
Chlorine azide	013973-88-1
Chlorine dioxide	010049-04-4
Chloroacetone (unstabilized)	000078-95-5
Chlorobutadiene (see Chloroprene)	000126-99-8
Chloroprene	000126-99-8
Chrysamminic acid	000517-92-0
Copper acetylide	012450-13-5
Copper amine azide	Not Assigned
Copper Azide	014215-30-6
Copper tetramine nitrate	Not Assigned
Cumene	000098-82-8
Cyanuric Triazide	005637-83-2
Cyclohexane	000110-82-7
Cyclonite	002691-41-0
Cyclopentene	000142-29-0
Cyclotetramethylenetetranitramine	002691-41-0
Di(tert-butylperoxy)butane	002167-23-9
Diaminotrinitrobenzene [DATB]	026616-30-8
DEGDN [diethyleneglycol dinitrate]	000693-21-0
Dimethylol dimethyl methane dinitrate composition	
Di-(1-hydroxytetrazole)	Not Assigned
Di-(1-naphthoyl) peroxide	029903-04-6
Di-(beta-nitroxyethyl)ammonium nitrate	Not Assigned
alpha,alpha'-Di-(nitroxy)methylether	Not Assigned
Di(tert-butylperoxy)phthalate	002155-71-7
p,p'-Dichlorodibenzoyl peroxide	000094-17-7
Diacetone alcohol peroxides	054693-46-8
Diacetone alcohol peroxides	054693-46-8
Diacetyl peroxide	000110-22-5
Diazoaminotetrazole	Not Assigned
Diazodinitrophenol	001016-17-0
Diazonium nitrates	Not Assigned

Diazonium perchlorates	Not Assigned
Diazodiphenylmethane	000883-40-9
Dibromoacetylene	000624-61-3
Dichloroacetylene	007572-29-4
Dichlorodimethyl ether	000542-88-1
Dichloroethyl Sulfide	000505-60-2
Dichloroethyl sulphide	000505-60-2
Dichlorovinylchlorarsine	Not Assigned
Diethanol nitrosamine dinitrate	Not Assigned
Diethyl peroxydicarbonate	014666-78-5
Diethyleneglycol	000111-46-6
Diethylgold bromide	026645-10-3
Diiodoacetylene	000624-74-8
Diisopropylbenzene hydroperoxide	026762-93-6
Dimethylhexane dihydroperoxide	003025-88-5
Di-n-butyl peroxydicarbonate	016215-49-9
Dinitro-7,8-dimethylglycoluril	Not Assigned
1,1-Dinitroethane	000600-40-8
1,2-Dinitroethane	007570-26-5
Dinitrogycoluril	
Dinitromethane	000625-76-3
Dinitrophenol (dry or less than 15 % wet)	025550-58-7
Dinitropropylene glycol	Not Assigned
Dinitroresorcinol	000616-74-0
Dinitrosobenzylamidine	
Dinitrotoluene- sodium nitrate explosive mixtures	025321-14-6
Dintrosobenzene	025550-55-4
DIPAM (also called (1,1'-Biphenyl)-3,3'-diamine, 2,2',4,4',6,6'-hexanitro-)	017215-44-0
Dinitroethyleneurea	
Dipicryl Sulfide	002217-06-3
Dipicryl Sulphide	002217-06-3
Dipicrylamine (Hexanitrodiphenylamine)	000131-73-7
2,2-dinitropropyl acrylate [DNPA]	017977-09-2
DNPD [dinitropentano nitrile]	
Dipropionyl peroxide	003248-28-0
Ethylenediamine dinitrate [EDDN]	020829-66-7
Ethylenedinitramine [EDNA]	000505-71-5
Ednatol	
EDNP [ethyl 4,4-dinitropentanoate]	
EGDN [ethylene glycol dinitrate]	000628-96-6
Ethanol amine dinitrate	Not Assigned
Ethyl hydroperoxide	003031-74-1
Ethyl nitrate	000625-58-1
Ethyl nitrite	000109-95-5

Ethyl perchlorate	022750-93-2
Ethylene diamine diperchlorate	015718-71-5
Ethylene glycol dinitrate	000628-96-6
Fulminating gold	Not Assigned
Fulminating mercury	000628-86-4
Fulminating platinum	Not Assigned
Fulminating silver	005610-59-3
Fulminic acid	000506-85-4
Galactsan trinitrate	Not Assigned
Glycerol gluconate trinitrate	Not Assigned
Glycerol lactate trinitrate	Not Assigned
Glycerol-1,3-dinitrate	000623-87-0
Guanyl nitrosaminoguanyltetrazene	000109-27-3
Guanyl nitrosaminoguanylidene hydrazine (dry)	Not Assigned
Guncotton (also called Pyroxylin)	009004-70-0
Heavy metal azides	
Hexamethylene triperoxide diamine	000283-66-9
Hexamethylol benzene hexanitrate	105554-30-1
Hexanite	Not Assigned
Hexanitroethane	000918-37-6
Hexanitroazoxy benzene	019159-68-3
Hexanitrodiphenyl urea	Not Assigned
Hexanitrodiphenylamine	035860-31-2
Hexanitrodiphenylether	Not Assigned
Hexanitrodiphenylethylene dinitramine	Not Assigned
Hexanitrooxanilide	027986-95-4
Hexanitrostilbene	020062-22-0
Hexogen	000121-82-4
Hexolite (also called Cyclonite)	000121-82-4
Hexotol	Not Assigned
Hexatonal	Not Assigned
Hexyl (also called Dipicrylamine)	000131-73-7
Hydrazine azide	014546-44-2
Hydrazine chlorate	Not Assigned
Hydrazine dicarbonic acid diazide	067880-17-5
Hydrazine perchlorate	027978-54-7
Hydrazine selenate	073506-32-8
Hydrazoic acid	007782-79-8

Hydrocyanic acid	000074-90-8
Hydroxy amine iodide	059917-23-6
Hyponitrous acid	014448-38-5
Inositol hexanitrate	Not Assigned
Inulin trinitrate	Not Assigned
Iodine azide (dry)	014696-82-3
Iodoxy compounds	
Iridium nitratopentamine iridium nitrate	Not Assigned
Isothiocyanic acid	003129-90-6
KDNBF (potassium dinitrobenzofuroxan)	029267-75-2
Lead azide	013424-46-9
Lead mannite	
Lead nitroresorcinate (dry)	051317-24-9
Lead nitroresorcinate (dry)	051317-24-9
Lead nitroresorcinate (dry)	051317-24-9
Lead picrate (dry)	025721-38-4
Lead styphnate (dry)	015245-44-0
Lead trinitroresorcinate	015245-44-0
Liquid nitrated polyol and trimethylolethane	
Mannitol hexanitrate (dry)	015825-70-4
Mannitan tetranitrate	Not Assigned
MDPN (methyl 4,4'-dinitropentanoate)	
Mercury acetylde	068833-55-6
Mercurous azide	038232-63-2
Mercury iodide aquabasic ammonobasic	Not Assigned
Mercury nitride	012136-15-1
Mercury oxalate	003444-13-1
Mercury tartrate	
Metriol trinitrate (also called 1,3-Propanediol, 2-methyl-2-((nitrooxy)methyl)-, dinitrate (ester))	003032-55-1
Minol-2 [40% TNT, 40% ammonium nitrate, 20% aluminum]	
MMAN [monomethylamine nitrate]; methylamine nitrate	022113-87-7
Mononitrotoluene-nitroglycerin mixture	
Monopropellants	
Mercury oxycyanide	001335-31-5
Metal salts of methyl nitramine	000598-57-2
Methazoic acid	005653-21-4
Methyl ethyl ketone peroxide	001338-23-4
Methyl nitrate	000598-58-3
Methyl nitrite	000624-91-9
Methyl picric acid (also called 2,4,6-Trinitro-m-cresol)	000602-99-3
Methyl trimethylol methane trinitrate	Not Assigned
Methylene dinitramine	014168-44-6
Methylamine Nitrate solution	

Methylamine nitroform	014147-71-8
Methylamine perchlorate	Not Assigned
Methylene glycol dinitrate	038483-28-2
m-Nitrobenzene diazonium perchlorate	022751-24-2
Monochloroacetone	000078-95-5
N-Nitroaniline	000645-55-6
N,N'-Dichlorazodicarbon	000502-98-7
Naphthalene diozonide	Not Assigned
Naphthyl-amineperchlorate	Not Assigned
Nickel picrate	Not Assigned
Nitrates of diazonium compounds	
Nitro- substituted carboxylic acids	
Nitro urea	000556-89-8
Nitrocellulose	009004-70-0
Nitroethyl nitrate	004528-34-1
Nitrogen trichloride	010025-85-1
Nitrogen triiodide	013444-85-4
Nitrogen triiodide monoamine	Not Assigned
Nitroglycide	
Nitroguanidine (Picrite)	000556-88-7
Nitroguanidine nitrate	098205-29-9
Nitromannite (see Mannitol hexanitrate)	015825-70-4
Nitromethylene polymer	026618-70-2
m-Nitrophenyldinitro methane	Not Assigned
Nitrosilanes	
Nitrosugars	
Nitrotriazolone	000932-64-9
n-Nitro-n-methylglycolamide nitrate	Not Assigned
Octogen	002691-41-0
Octol	
Octolite	057607-37-1
Octonal	078413-87-3
Organic amine nitrate	
Organic nitramines	
Organic Peroxides	
p-Diazidobenzene	002294-47-5
Pentaerythrite tetranitrate (dry)	000078-11-5
Pentaerythritol tetranitrate	000078-11-5
Pentanitroaniline (dry)	021985-87-5
Perchloric acid (>50%)	007601-90-3
Peroxide forming compounds:	
Peroxy acetic acid (>43%, w >6% hydrogen peroxide)	000079-21-0
PETN (see Pentaerythritol tetranitrate)	000078-11-5

Phosphorous and chlorate mixtures	
Picramide	000489-98-5
Ammonium picrate	000131-74-8
Picric acid (Trinitrophenol)	000088-89-1
Picric acid (<30% water)	000088-89-1
Picrite (<20%water)	000556-88-7
Picryl chloride	028260-61-9
Picryl fluoride	
PLX (95% nitromethane, 5% ethylenediamine)	
Potassium carbonyl	012397-35-2
Potassium nitroaminotetrazole	Not Assigned
p-Xylyl diazide	Not Assigned
Pyridine perchlorate	015598-34-2
Quebrachitol pentanitrate	Not Assigned
RDX	000121-82-4
Selenium nitride	012033-59-9
Silver acetylide (dry)	013092-75-6
Silver azide (dry)	013863-88-2
Silver chlorite (dry)	007783-91-7
Silver oxalate (dry)	000533-51-7
Silver picrate (dry)	000146-84-9
Silver styphnate	
Silver tartrate explosive mixtures	
Silver tetrazene	
Sodatol	
Sodium dinitro-o-cresolate	025641-53-6
Sodium picramate	000831-52-7
Sodium picryl peroxide	Not Assigned
Sodium tetranitride	Not Assigned
Styphnic acid (<20% water/alcohol)	000082-71-3
Sucrose octanitrate (dry)	030236-29-4
tert butyl peroxyisobutyrate	000109-13-7
tert-Butoxycarbonyl azide	001070-19-5
tert-Butylhydroperoxide	000075-91-2
tert-butyl peroxyacetate	000107-71-1
Tetraazido benzene quinone	022826-61-5
Tetraethylammonium perchlorate	002567-83-1
Tetramethylene diperoxide dicarbamide	Not Assigned
Tetranitroaniline	003698-54-2
Tetranitrodyglycerin	020600-96-8
Tetranitroresorcinol	Not Assigned
Tetrazine	070816-59-0
Tetrazol-1-Acetic acid	021732-17-2

Tetrazolyl azide	018432-28-5
Tetryl	000479-45-8
TNT mixtures	Not Assigned
Tri(b-nitroxyethyl)ammonium nitrate	Not Assigned
Trichloromethyl perchlorate	067632-66-0
Triformoxime trinitrate	Not Assigned
Trimethylene glycol diperchlorate	Not Assigned
Trimethylol nitromethane trinitrate	020820-44-4
Trimonite	
Trinitroacetic acid	Not Assigned
Trinitroacetone nitrile	000630-72-8
Trinitroamine cobalt	Not Assigned
Trinitroaniline	026952-42-1
Trinitroanisole	000606-35-9
Trinitrobenzene	000099-35-3
Trinitrobenzenesulfonic acid	002508-19-2
Trinitrobenzenesulphonic acid	002508-19-2
Trinitrobenzoic acid	000129-66-8
Trinitrochlorobenzene	000088-88-0
Trinitroethanol	000918-54-7
Trinitroethylnitrate	066849-71-6
Trinitrofluorenone	000129-79-3
Trinitro-m-cresol	000602-99-3
Trinitromethane	000517-25-9
Trinitronaphthalene	055810-17-8
Trinitrophenetole	004732-14-3
Trinitrophenol	000088-89-1
Trinitrophenyl guanidine	Not Assigned
Trinitrophenyl nitramine	004591-46-2
Trinitrophenylmethylnitramine	000479-45-8
Trinitrophenyl glucinol	Not Assigned
Trinitroresorcinol (<20% water or alcohol)	000082-71-3
Trinitrotetramine cobalt nitrate	Not Assigned
Trinitrotoluene (<30% water)	000118-96-7
Tris, bis- bifluoramino diethoxy propane	039409-64-8
Tritonal	054413-15-9
Urea nitrate	000124-47-0
Vinyl nitrate polymer	Not Assigned
Zirconium picramate	063868-82-6

Information was extracted from the following sources:

1. Transport Canada, Transport Dangerous Goods List
2. US Bureau of Tobacco, Alcohol and Firearms, List of Explosives Materials