

# DEPARTMENT OF THE TREASURY

## Bureau of Alcohol, Tobacco and Firearms

### COMMERCE IN EXPLOSIVES

#### Commerce in Explosives; List of Explosive Materials

**Updated:** 4/26/02

Pursuant to the provisions of section 841(d) of title 18, United States Code (U.S.C.), and 27 CFR 55.23, the Director, Bureau of Alcohol, Tobacco and Firearms, must publish and revise at least annually in the Federal Register a list of explosives determined to be within the coverage of 18 U.S.C. chapter 40, Importation, Manufacture, Distribution, and Storage of Explosive Materials. This chapter covers not only explosives, but also blasting agents and detonators, all of which are defined as explosive materials in section 841(c) of title 18, U.S.C. Accordingly, the following is the 2002 List of Explosive Materials subject to regulation under 18 U.S.C. chapter 40. It includes both the list of explosives (including detonators) required to be published in the Federal Register and blasting agents.

The list is intended to include any and all mixtures containing any of the materials on the list. Materials constituting blasting agents are marked by an asterisk. While the list is comprehensive, it is not all inclusive. The fact that an explosive material may not be on the list does not mean that it is not within the coverage of the law if it otherwise meets the statutory definitions in section 841 of title 18, U.S.C. Explosive materials are listed alphabetically by their common names followed, where applicable, by chemical names and synonyms in brackets.

In the 2002 List of Explosive Materials, ATF has added five terms to the list of explosives, has further defined two explosive materials, and has made amendments to two explosive materials to more accurately reference these materials.

The five additions to the list are as follows:

1. Azide explosives
2. HMTD [hexamethylenetriperoxidediamine]
3. Nitrate explosive mixtures
4. Picrate explosives
5. TATP [triacetonetriperoxide]

We have added these explosive materials to the List because their primary or common purpose is to function by explosion. ATF has encountered the criminal use of some of these materials in improvised devices. "Nitrate explosive mixtures" is intended to be an all-encompassing term, including all forms of sodium, potassium, barium, calcium, and

strontium nitrate explosive mixtures.

The two explosive materials that we have further defined by including their chemical names are listed as follows:

1. DIPAM [dipicramide; diaminohexanitrobiphenyl]
2. EDNA [ethylenedinitramine]

The two amendments to previously listed explosive materials are as follows:

1. "Nitrates of soda explosive mixtures" has been deleted and replaced with "Sodium nitrate explosive mixtures" to reflect current terminology.
2. PBX was previously defined as "RDX and plasticizer." We are changing the definition to reflect that PBX is an acronym for "plastic bonded explosive."

This revised list supersedes the List of Explosive Materials dated September 14, 1999 (Notice No. 880, 64 FR 49840; correction notice of September 28, 1999, 64 FR 52378) and will be effective on April 26, 2002.

#### List of Explosive Materials

##### **A**

Acetylides of heavy metals.  
Aluminum containing polymeric propellant.  
Aluminum ophorite explosive.  
Amatex.  
Amatol.  
Ammonal.  
Ammonium nitrate explosive mixtures (cap sensitive).  
\*Ammonium nitrate explosive mixtures (non-cap sensitive).  
Ammonium perchlorate composite propellant.  
Ammonium perchlorate explosive mixtures.  
Ammonium picrate [picrate of ammonia, Explosive D].  
Ammonium salt lattice with isomorphously substituted inorganic salts.  
\*ANFO [ammonium nitrate-fuel oil].  
Aromatic nitro-compound explosive mixtures.  
Azide explosives.

##### **B**

Baranol.  
Baratol.  
BEAF [1, 2-bis (2, 2-difluoro-2-nitroacetoxyethane)].

Black powder.  
Black powder based explosive mixtures.  
\*Blasting agents, nitro-carbo-nitrates, including non-cap sensitive slurry and water gel explosives.  
Blasting caps.  
Blasting gelatin.  
Blasting powder.  
BTNEC [bis (trinitroethyl) carbonate].  
BTNEN [bis (trinitroethyl) nitramine].  
BTTN [1,2,4 butanetriol trinitrate].  
Bulk salutes.  
Butyl tetryl.

## C

Calcium nitrate explosive mixture.  
Cellulose hexanitrate explosive mixture.  
Chlorate explosive mixtures.  
Composition A and variations.  
Composition B and variations.  
Composition C and variations.  
Copper acetylide.  
Cyanuric triazide.  
Cyclonite [RDX].  
Cyclotetramethylenetetranitramine [HMX].  
Cyclotol.  
Cyclotrimethylenetrinitramine [RDX].

## D

DATB [diaminotrinitrobenzene].  
DDNP [diazodinitrophenol].  
DEGDN [diethyleneglycol dinitrate].  
Detonating cord.  
Detonators.  
Dimethylol dimethyl methane dinitrate composition.  
Dinitroethyleneurea.  
Dinitroglycerine [glycerol dinitrate].  
Dinitrophenol.  
Dinitrophenolates.  
Dinitrophenyl hydrazine.  
Dinitroresorcinol.  
Dinitrotoluene-sodium nitrate explosive mixtures.  
DIPAM [dipicramide; diaminohexanitrobiphenyl].  
Dipicryl sulfone.  
Dipicrylamine.

Display fireworks.  
DNPA [2,2-dinitropropyl acrylate].  
DNPD [dinitropentano nitrile].  
Dynamite.

## E

EDDN [ethylene diamine dinitrate].  
EDNA [ethylenedinitramine].  
Ednatol.  
EDNP [ethyl 4,4-dinitropentanoate].  
EGDN [ethylene glycol dinitrate].  
Erythritol tetranitrate explosives.  
Esters of nitro-substituted alcohols.  
Ethyl-tetryl.  
Explosive conitrates.  
Explosive gelatins.  
Explosive liquids.  
Explosive mixtures containing oxygen-releasing inorganic salts and hydrocarbons.  
Explosive mixtures containing oxygen-releasing inorganic salts and nitro bodies.  
Explosive mixtures containing oxygen-releasing inorganic salts and water insoluble fuels.  
Explosive mixtures containing oxygen-releasing inorganic salts and water soluble fuels.  
Explosive mixtures containing sensitized nitromethane.  
Explosive mixtures containing tetranitromethane (nitroform).  
Explosive nitro compounds of aromatic hydrocarbons.  
Explosive organic nitrate mixtures.  
Explosive powders.

## F

Flash powder.  
Fulminate of mercury.  
Fulminate of silver.  
Fulminating gold.  
Fulminating mercury.  
Fulminating platinum.  
Fulminating silver.

## G

Gelatinized nitrocellulose.  
Gem-dinitro aliphatic explosive mixtures.  
Guanyl nitrosamino guanyl tetrazene.  
Guanyl nitrosamino guanylidene hydrazine.  
Guncotton.

## H

Heavy metal azides.  
Hexanite.  
Hexanitrodiphenylamine.  
Hexanitrostilbene.  
Hexogen [RDX].  
Hexogene or octogene and a nitrated N-methylaniline.  
Hexolites.  
HMTD [hexamethylenetriperoxidediamine].  
HMX [cyclo-1,3,5,7-tetramethylene 2,4,6,8-tetranitramine; Octogen].  
Hydrazinium nitrate/hydrazine/aluminum explosive system.  
Hydrazoic acid.

## I

Igniter cord.  
Igniters.  
Initiating tube systems.

## K

KDNBF [potassium dinitrobenzo-furoxane].

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## L

Lead azide.  
Lead mannite.  
Lead mononitroresorcinate.  
Lead picrate.  
Lead salts, explosive.  
Lead styphnate [styphnate of lead, lead trinitroresorcinate].  
Liquid nitrated polyol and trimethylolethane.  
Liquid oxygen explosives.

## M

Magnesium ophorite explosives.  
Mannitol hexanitrate.  
MDNP [methyl 4,4-dinitropentanoate].  
MEAN [monoethanolamine nitrate].  
Mercuric fulminate.  
Mercury oxalate.  
Mercury tartrate.

Metriol trinitrate.  
Minol-2 [40% TNT, 40% ammonium nitrate, 20% aluminum].  
MMAN [monomethylamine nitrate]; methylamine nitrate.  
Mononitrotoluene-nitroglycerin mixture.  
Monopropellants.

## N

NIBTN [nitroisobutametrial trinitrate].  
Nitrate explosive mixtures.  
Nitrate sensitized with gelled nitroparaffin.  
Nitrated carbohydrate explosive.  
Nitrated glucoside explosive.  
Nitrated polyhydric alcohol explosives.  
Nitric acid and a nitro aromatic compound explosive.  
Nitric acid and carboxylic fuel explosive.  
Nitric acid explosive mixtures.  
Nitro aromatic explosive mixtures.  
Nitro compounds of furane explosive mixtures.  
Nitrocellulose explosive.  
Nitroderivative of urea explosive mixture.  
Nitrogelatin explosive.  
Nitrogen trichloride.  
Nitrogen tri-iodide.  
Nitroglycerine [NG, RNG, nitro, glyceryl trinitrate, trinitroglycerine].  
Nitroglycide.  
Nitroglycol [ethylene glycol dinitrate, EGDN].  
Nitroguanidine explosives.  
Nitronium perchlorate propellant mixtures.  
Nitroparaffins Explosive Grade and ammonium nitrate mixtures.  
Nitrostarch.  
Nitro-substituted carboxylic acids.  
Nitrourea.

## O

Octogen [HMX].  
Octol [75 percent HMX, 25 percent TNT].  
Organic amine nitrates.  
Organic nitramines.

## P

PBX [plastic bonded explosives].  
Pellet powder.

Penthrinite composition.  
Pentolite.  
Perchlorate explosive mixtures.  
Peroxide based explosive mixtures.  
PETN [nitropentaerythrite, pentaerythrite tetranitrate, pentaerythritol tetranitrate].  
Picramic acid and its salts.  
Picramide.  
Picrate explosives.  
Picrate of potassium explosive mixtures.  
Picratol.  
Picric acid (manufactured as an explosive).  
Picryl chloride.  
Picryl fluoride.  
PLX [95% nitromethane, 5% ethylenediamine].  
Polynitro aliphatic compounds.  
Polyolpolynitrate-nitrocellulose explosive gels.  
Potassium chlorate and lead sulfocyanate explosive.  
Potassium nitrate explosive mixtures.  
Potassium nitroaminotetrazole.  
Pyrotechnic compositions.  
PYX [2,6-bis(picrylamino)]-3,5-dinitropyridine.

## R

RDX [cyclonite, hexogen, T4, cyclo-1,3,5,-trimethylene-2,4,6,-trinitramine; hexahydro-1,3,5-trinitro-S-triazine].

## S

Safety fuse.  
Salts of organic amino sulfonic acid explosive mixture.  
Salutes (bulk).  
Silver acetylide.  
Silver azide.  
Silver fulminate.  
Silver oxalate explosive mixtures.  
Silver styphnate.  
Silver tartrate explosive mixtures.  
Silver tetrazene.  
Slurried explosive mixtures of water, inorganic oxidizing salt, gelling agent, fuel, and sensitizer (cap sensitive).  
Smokeless powder.  
Sodatol.  
Sodium amatol.  
Sodium azide explosive mixture.

Sodium dinitro-ortho-cresolate.  
Sodium nitrate explosive mixtures.  
Sodium nitrate-potassium nitrate explosive mixture.  
Sodium picramate.  
Special fireworks.  
Squibs.  
Styphnic acid explosives.

## T

Tacot [tetranitro-2,3,5,6-dibenzo- 1,3a,4,6a tetrazapentalene].  
TATB [triaminotrinitrobenzene].  
TATP [triacetonetriperoxide].  
TEGDN [triethylene glycol dinitrate].  
Tetranitrocarbazole.  
Tetrazene [tetracene, tetrazine, 1(5-tetrazolyl)-4-guanyl tetrazene hydrate].  
Tetryl [2,4,6 tetranitro-N-methylaniline].  
Tetrytol.  
Thickened inorganic oxidizer salt slurried explosive mixture.  
TMETN [trimethylolethane trinitrate].  
TNEF [trinitroethyl formal].  
TNEOC [trinitroethylorthocarbonate].  
TNEOF [trinitroethylorthoformate].  
TNT [trinitrotoluene, trotyl, trilitite, triton].  
Torpex.  
Tridite.  
Trimethylol ethyl methane trinitrate composition.  
Trimethylolthane trinitrate-nitrocellulose.  
Trimonite.  
Trinitroanisole.  
Trinitrobenzene.  
Trinitrobenzoic acid.  
Trinitrocresol.  
Trinitro-meta-cresol.  
Trinitronaphthalene.  
Trinitrophenetol.  
Trinitrophenol.  
Trinitrophenylglucitol.  
Trinitroresorcinol.  
Tritonal.

## U

Urea nitrate.

**W**

Water-bearing explosives having salts of oxidizing acids and nitrogen bases, sulfates, or sulfamates (cap sensitive).

Water-in-oil emulsion explosive compositions.

**X**

Xanthamomas hydrophilic colloid explosive mixture.

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