

Bureau of Alcohol, Tobacco and
Firearms

(Notice No. 695)

Commerce in Explosives; List of
Explosive Materials

Pursuant to the provisions of section 841(d) of Title 18, United States Code, 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, United States Code. Accordingly, the following is the 1989 List of Explosive Materials subject to regulation under 18 U.S.C. Chapter 40, which includes both the list of explosives (including detonators) required to be published in the Federal Register and blasting agents. The list is intended to also include any and all mixtures containing any of the materials in 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, United States Code. Explosive materials are listed alphabetically by their common names followed by chemical names and synonyms in brackets. This revised list supersedes the List of Explosive Materials dated December 29, 1988 (53 FR 52561) and will be effective as of January 12, 1990.

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).
Aromatic nitro-compound explosive mixtures.
Ammonium perchlorate having particle size less than 15 microns.
Ammonium perchlorate composite propellant.
Ammonium picrate (picrate of ammonia. Explosive D).
Ammonium salt lattice with isomorphously substituted inorganic salts.
*ANFO (ammonium nitrate-fuel oil).

B

Baratol.
Baronol.
BEAP (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).
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 acetylides.
Cyanuric triazide.
Cyclotrimethylenetrinitramine (RDX).
Cyclotetramethylenetetranitramine (HMX).
Cyclonite (RDX).
Cyclotol.

D

DATB (diazinotrinitrobenzene).
DDNP (diazodinitrophenol).
DECND (diethyleneglycol dinitrate).
Detonating cord.
Detonators.
Dimethyl dimethyl methane dinitrate composition.
Dinitroethylenes.
Dinitroglycerine (glycerol dinitrate).
Dinitrophenol.
Dinitrophenolates.
Dinitrophenyl hydrazine.
Dinitrosuccinyl.
Dinitrotoluene-sodium nitrate explosive mixtures.
DIPAM.
Dipicryl sulfone.
Dipicrylamine.
DNBP (dinitropentane nitrile).
DNPA (2,2-dinitropropyl acrylate).
Dynamite.

E

EDDN (ethylene diamine dinitrate).
EDNA.
Ednatol.
EDNP (ethyl 4,4-dinitropentanoate).
Erythritol tetranitrate explosives.
Esters of nitro-substituted alcohols.
EGDN (ethylene glycol dinitrate).
Ethyl-tetryl.
Explosive concentrates.
Explosive gelatins.
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 liquids.
Explosive powders.

F

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 tetrazine.
Guanyl nitrosamino guanylidene hydrazine.
Guncotton.

H

Heavy metal azides.
Hexanit.
Hexanitrodiphenylamine.
Hexanitrotoluene.
Hexogen (RDX).
Hexogene or octogene and a nitrated N-methylaniline.
Hexolite.
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).

L

Lead azide.
Lead azomite.
Lead mononitrososuccinate.
Lead picrate.
Lead salts, explosive.
Lead styphnate (styphnate of lead, lead trimetresorcinate).
Liquid nitrated polyol and trimethylolmethane.
Liquid oxygen explosives.

M

Magnesium ophorite explosives.
Mannitol hexamtrate.
MDNP (methyl 4,4-dinitropentanoate).
MEAN (methoethanolamine nitrate).
Mercuric fulminate.
Mercury oxalate.
Mercury tartrate.
Metrol trinitrate.
Minol-2 (40 percent TNT, 60 percent ammonium nitrate, 20 percent aluminum).
MMAN (monoethylamine nitrate); methylamine nitrate.
Mononitrohexane-nitroglycerin mixture.
Monopropellants.

- N**
 NIBTN (nitroisobutylamine trinitrate).
 Nitrate sensitized with gelled nitroparaffin.
 Nitrated carbohydrate explosive.
 Nitrated glucoside explosive.
 Nitrated polyhydric alcohol explosives.
 Nitrates of acids explosive mixtures.
 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 furans explosive mixtures.
 Nitrocellulose explosive.
 Nitroderivative of urea explosive mixture.
 Nitrogestin explosive.
 Nitrogen trichloride.
 Nitrogen triiodide.
 Nitroglycenne [NG, RNC, nitro glyceryl trinitrate, trinitroglycerine].
 Nitroglycide.
 Nitroglycol (ethylene glycol dinitrate, EGDN).
 Nitroguanidine explosives.
 Nitroparaffins Explosive Grade and ammonium nitrate mixtures.
 Nitronium perchlorate propellant mixtures.
 Nitrostarch.
 Nitro-substituted carboxylic acids.
 Nitrourea.
O
 Octogen (HMX).
 Octol [75 percent HMX, 25 percent TNT].
 Organic amine nitrates.
 Organic nitramines.
P
 PBX (RDX and plasticizer).
 Pellet powder.
 Penthrinite composition.
 Pentolite.
 PYX (2,6-bis(picrylamino)-3,5-dinitropyridine).
 Perchlorate explosive mixtures.
 Peroxide based explosive mixtures.
 PETN (nitropentaerythrite, pentaerythrite tetranitrate, pentaerythritol tetranitrate).
 Picramic acid and its salts.
 Picramide.
 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.
R
 RDX (cyclonite, hexogen, T4, cyclo-1,3,5-trimethylene-2,4,6-trinitramine; hexahydro-1,3,5-trinitro-S-triazine).
 Safety fuse.
 Salts of organic amino sulfonic acid explosive mixture.
 Silver acetylde.
 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-potassium nitrate explosive mixture.
 Sodium picramate.
 Squibs.
 Styphnic acid explosives.
T
 Tacot (tetranitro-2,3,5,6-dibenzo-1,3a,4,6a-tetraazapentalene).
 TATB (triaminotrinitrobenzene).
 TEGDN (triethylene glycol dinitrate).
 Tetrazene [tetrazene, tetrazine, 1(5-tetrazolyl)-4-guanyl tetrazene hydrate].
 Tetranitrocarbazole.
 Tetryl [2,4,6-trinitro-N-methylaniline].
 Tetrytol.
 Thickened inorganic oxidizer salt slurried explosive mixture.
 TMETN (trimethylolethane trinitrate).
 TNEF (trinitroethyl formal).
 TNEOC (trinitroethyl orthocarbonate).
 TNEOP (trinitroethyl orthoformate).
 TNT (trinitrotoluene, trotyl, trilita, triton).
 Torpex.
 Tridite.
 Trimethylol ethyl methane trinitrate composition.
 Trimethylolethane trinitrate-nitrocellulose.
 Trimonite.
 Trinitroanisole.
 Trinitrobenzene.
 Trinitrobenzoic acid.
 Trinitrocresol.
 Trinitro-meta-cresol.
 Trinitrophenathalene.
 Trinitrophenetol.
 Trinitrophenolguaiacol.
 Trinitroresorcinol.
 Trinitron.
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
 Xanthanones hydrophilic colloid explosive mixture.
FOR FURTHER INFORMATION CONTACT:
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 Director.
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