

## Potentially Explosive Lab Chemicals

Acetyl peroxide  
Acetylene  
Ammonium nitrate  
Ammonium perchlorate  
Ammonium picrate  
Ba/Pb/Hg azide (heavy metal azides)  
Li/K/Na azide  
Organic azides  
Benzoyl peroxide  
Bromopropyne  
Butanone peroxide  
Cumene peroxide  
Diazodinitrophenol  
Dinitrophenol  
Dinitrophenylhydrazine  
Dinitroresorcinol  
Dipicryl amine  
Dipicryl sulphide  
Dodecanoyl peroxide  
Ethylene oxide  
Lauric peroxide  
MEK peroxide  
Mercury fulminate, Silver fulminate  
Nitrocellulose  
Nitrogen trifluoride  
Nitrogen triiodide  
Nitroglycerine  
Nitroguanidine  
Nitromethane  
Nitrourea  
Picramide  
Picric acid (trinitrophenol)  
Picryl chloride  
Picryl sulphonic acid  
Propargyl bromide (neat)  
Sodium dinitrophenate  
Succinic peroxide  
Tetranitroaniline  
Trinitroaniline  
Trinitroanisole  
Trinitrobenzene  
Trinitrobenzenesulphonic acid  
Trinitrobenzoic acid  
Trinitrocresol  
Trinitronaphthalene  
Trinitrophenol (picric acid)  
Trinitroresorcinol  
Trinitrotoluene  
Urea nitrate

# Potentially Explosive Compound Classes

## Functional Groups:

Acetylene (-C=C-)

Acyl hypohalites (RCO-OX)

Azide Organic (R-N<sub>3</sub>)

Azide Metal (M-N<sub>3</sub>)

Azo (-N=N-)

Diazo (=N=N)

Diazosulphide (-N=N-S-N=N-)

Diazonium salts (R-N<sub>2</sub><sup>+</sup>)

Fulminate (-CNO)

Halogen Amine (=N-X)

Nitrate (-ONO<sub>2</sub>)

Nitro (-NO<sub>2</sub>)

Aromatic or Aliphatic Nitramine (=N-NO<sub>2</sub>) (-NH-NO<sub>2</sub>)

Nitrite (-ONO)

Nitroso (-NO)

Ozonides

Peracids (-CO-O-O-H)

Peroxide (-O-O-)

Hydroperoxide (-O-O-H)

Metal peroxide (M-O-O-M)

## Explosive Salts:

Bromate salts (BrO<sub>3</sub><sup>-</sup>)

Chlorate salts (ClO<sub>3</sub><sup>-</sup>)

Chlorite salts (ClO<sub>2</sub><sup>-</sup>)

Perchlorate salts (ClO<sub>4</sub><sup>-</sup>)

Picrate salts (2,4,6-trinitrophenoxide)

Picramate salts (2-amino-4,6-dinitrophenoxide)

Hypohalite salts (XO<sup>-</sup>)

Iodate salts (IO<sub>3</sub><sup>-</sup>)