CBRNE TECH INDEX™

IMPROVISED EXPLOSIVE QUICK GUIDE

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CHEMICAL PRECURSORS

Common Precursors

Strong Acids Sulfuric "Battery"-H_2SO_4
Nitric-HNO_3
Hydrochloric "Muriatic"-HCl

Hydrogen Peroxide-H_2O_2
Urea (Fertilizer 46-0-0)
Acetone
Methyl Ethyl Ketone (MEK)
Alcohol (Ethyl or Methyl)
Ethylene Glycol (Antifreeze)
Glycerin(e) (Glycerol)
Hexamine (Camp Stove Tablets)
Citric Acid (Sour Salt)

Nitrate Based Explosives

Nitroglycerine (NG)	Glycerine Nitric Acid+Sulfuric Acid
Ethylene Glycol Dinitrate (EGDN)	Ethylene Glycol Nitric Acid+Sulfuric Acid
Methyl Nitrate	Methyl Alcohol (Methanol) Nitric Acid+Sulfuric Acid
Urea Nitrate	Urea Nitric Acid
Nitrocotton (Gun Cotton)	Cotton Nitric Acid+Sulfuric Acid

Peroxide Based Explosives

Triacetone Triperoxide (TATP)	Acetone Hydrogen Peroxide Strong Acid
Hexamethylene Triperoxide Diamine (HMTD)	Hexamine Hydrogen Peroxide Citric Acid
Methyl Ethyl Ketone Peroxide (MEKP)	Methyl Ethyl Ketone Hydrogen Peroxide Strong Acid

Primary Explosives

Mercury Fulminate	Mercury Nitric Acid

OXIDIZERS

Oxidizer Names/Chemical Symbols

- Perchlorate/ClO_4
- Chlorate/ClO_3
- Hypochlorite/OCl
- Nitrate/NO_3
- Peroxide/O_2
- Permanganate/MnO_4
- Iodate/IO_3
- Chromate/CrO_4
- Dichromate/Cr_2O_7

Cations Associated with Oxidizers

- Sodium (Na)
- Potassium (K)
- Barium (Ba)
- Calcium (Ca)
- Ammonium (NH_4)
- Lithium (Li)
- Strontium (Sr)
- Lead (Pb)
- Silver (Ag)
- Hydrogen (H)

- *Chlorates and peroxides can produce very sensitive and energetic explosions*

Examples of Oxidizer Compounds

- Ammonium Perchlorate = NH_4ClO_4
- Sodium Chlorate = $NaClO_3$
- Calcium Hypochlorite = $Ca(OCl)_2$
- Ammonium Nitrate = NH_4NO_3
- Potassium Nitrate = KNO_3
- Hydrogen Peroxide = H_2O_2
- Barium Peroxide = BaO_2
- Potassium Permanganate = $KMnO_4$
- Lead Iodate = $Pb(IO_3)_2$
- Lithium Chromate = $Li_2CrO_4.2H_2O$
- Potassium Dichromate = $K_2Cr_2O_7$

FUELS

Hydrocarbons

Gas
Diesel (FO)
Kerosene
Naphtha
Carbon Black
Charcoal
Sugar
Wax/Paraffin
Vaseline
Dextrin
Shellac
Rosin
Sawdust
Alcohol
Ethylene Glycol

Energetic Hydrocarbons

Nitrobenzene (NB)
Nitromethane (NM)
Nitrocellulose (NC)

Elemental "Hot" Fuels

Powdered Metals
Aluminum (Al)
Magnesium (Mg)
Magnalium (Mg/Al-50/50)
Zirconium (Zr)
Copper (Cu)

Phosphorus (P)
Sulfur (S)
Antimony Trisulfide (Sb_2S_3)

EXPLOSIVE MIXTURES

Common Oxidizers

Sodium Chlorate-$NaClO_3$
Potassium Chlorate-$KClO_3$
Ammonium Perchlorate-NH_4ClO_4
Calcium Hypochlorite-$Ca(OCl)_2$
Ammonium Nitrate (AN)-NH_4NO_3
Potassium Nitrate (Saltpeter)-KNO_3
Hydrogen Peroxide-H_2O_2
Barium Peroxide-BaO_2
Potassium Permanganate-$KMnO_4$
Nitric Acid-HNO_3

Nitrate Blends

ANFO	Ammonium Nitrate (AN) Diesel Fuel (FO)
ANAI	Ammonium Nitrate (AN) Aluminum Powder (AI)
ANS	Ammonium Nitrate Sulfur Powder
ANIS	Ammonium Nitrate Icing Sugar
Black Powder	Potassium Nitrate Charcoal Sulfur

Chlorate/Perchlorate Blends

Flash Powder	Potassium Chlorate/ Perchlorate Aluminum Powder Magnesium Powder Sulfur
Poor Man's C-4	Potassium Chlorate Vaseline
Armstrong's Mixture	Potassium Chlorate Red Phosphorus

Liquid Blend

Hellhoffite	Nitric Acid Nitrobenzene (NB)

For information on how to list your CBRNE product with CBRNE Tech Index contact:

Luke Barnes
816.326.5485
lbarnes@cbrnetechindex.com

Evan Durnal
816.360.5466
edurnal@cbrnetechindex.com