TATP

TATP Overview. TATP is an organic peroxide-based high explosive used in the production of improvised explosive devices (IEDs).

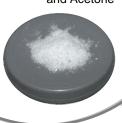
HYDROGEN PEROXIDE (HAIR BLEACH)

Commercial Uses

Retail Sources

TATP Triacentone Triperoxide

Hydrogen Peroxide, Strong Acid, and Acetone





A clear liquid, slightly more viscous than water H₂O₂

- Bleaching hair
- Pool water softeners
- Disinfectants
- Environmental clean-up
- Therapeutic health baths
- Bleaching pulps and textiles
- Drug stores (< 8%)
- Beauty supply stores (≤35%)
- Online retailers (≤35%)
- Chemical supply stores [Online] (≤ 98%)

STRONG ACID (I.E. SULFURIC ACID, HYDROCHLORIC ACID, OR MURIATIC ACID)



A clear, colorless to brownish, dense, oily, corrosive, watermiscible liquid

- Drain/pipe cleaners
- Auto batteries
- Oil refining
- Polymer manufacture
- Fertilizer manufacture
- Swimming pool conditioning

- Automotive supply stores
- Chemical supply stores
- Industrial supply stores
- Pool Supply Stores
- Hardware Stores

ACETONE (NAIL POLISH REMOVER)



A colorless, volatile, water-soluble, flammable liquid C₃H₆O

- Finger nail polish remover
- Lab and industrial solvent
- Paint remover
- Glassware cleaner for labs
- Beauty supply stores
- Chemical supply stores
- Drug stores
- Hardware supply stores
- Paint supply stores
- Household supply stores

TATP was used in the 2001 Richard Reed Shoe bomb, 2005 London bombings, 2006 Trans-Atlantic aircraft bomb plot, 2009 NY tunnel and bridges Najibullah Zazi plot, 2015 Paris attacks, and 2016 Brussels bombings.



PETN

PETN Overview. PETN is primarily used in military explosive applications, such as in upper charges of detonators in some land mines and shells, and as the explosive core of detonation cords.

PETN Pentaerythritol Tetranitrate

Pentaerythritol, Nitric Acid, Acetone



PENTAERYTHRITOL



A white crystalline solid C(CH₂OH₄)

Commercial Uses

- Medical use
- Resins
- Varnishes
- Polyvinyl chloride (PVC)

Retail Sources

- Chemical supply stores
- Online stores

NITRIC ACID



A clear, colorless liquid, or a yellow or red fuming liquid HNO₃

- Fertilizer manufacture
- Lab and industrial processes
- Rocket propellants
- Explosives manufacturing
- Swimming pool conditioning
- Chemical supply stores
- Online retailers (Amazon)
- Pool supply stores

ACETONE (NAIL POLISH REMOVER)



A colorless, volatile, water-soluble, flammable liquid C₃H₆O

- Finger nail polish remover
- Lab and industrial solvent
- Paint remover
- Glassware cleaner for labs

- Beauty supply stores
- Chemical supply stores
- Drug stores
- Hardware supply stores
- Paint supply stores
- Household supply stores

PETN was used in 1983 bombing of the U.S. Marine Barracks in Lebanon, 2001 Richard Reid Shoe Bomb, 2002 Bali Nightclub Bombing, and the 2010 Air Cargo Plot (Printer toner cartridge bomb plot).



HMTD

HMTD Overview. There is no commercial or industrial application for HMTD. It is an extremely sensitive explosive that may be prepared from household items.

HMTD Hexamethylene Triperoxide Diamine

Hydrogen Peroxide, Hexamine, and Citric Acid



HYDROGEN PEROXIDE (HAIR BLEACH)

A clear liquid, slightly

more viscous than

water

 H_2O_2

Commercial Uses

- Bleaching hair
- Pool water softeners
- Disinfectants
- Environmental clean-up
- Therapeutic health baths
- Bleaching pulps and textiles

Retail Sources

- Drug stores (< 8%)
- Beauty supply stores (≤35%)
- Online retailers (≤35%)
- Chemical supply stores [Online] (≤ 98%)

HEXAMINE (CAMP STOVE FUEL TABLETS)



A white powder that is often produced as tablets

- Drain/pipe cleaners
- Auto batteries
- Oil refining
- Polymer manufacture
- Fertilizer manufacture
- Automotive supply stores
- Chemical supply stores
- Industrial supply stores

CITRIC ACID



Citric acid appears as a white crystalline powder $C_6H_5O_7$

- Finger nail polish remover
- Lab and industrial solvent
- Paint remover
- Glassware cleaner for labs
- Beauty supply stores
- Chemical supply stores
- Drug stores
- Hardware supply stores
- Paint supply stores
- Household supply stores

HMTD was used in the 2000 Millennium bomb plot, 2005 London transit bombings, and the 2006 trans-Atlantic aircraft plot.



AMMONIUM NITRATE-BASED EXPLOSIVES

Ammonium Nitrate-based Home-Made Explosives (HME) Overview. Because Ammonium Nitrate is so common in both the fertilizer and mining industries, its presence is ubiquitous in the global market place. As such, it is used in a variety of HME, such as ANFO, Annie (ANNB), and ANNM. The Oklahoma City bombing involved the use of a large amount of ANFO, all of which was legally purchased.

AMMONIUM NITRATE (AN)

Commercial Uses

Retail Sources



Prills (small, compressed pellets) are white to brown in color, depending on impurities NH_4NO_3

- Fertilizers
- Explosives
- First aid cold packs
- Exploding targets

- · Farm and Feed Stores
- Sporting goods store
- First aid supplies
- Agriculture supply stores
- · Chemical supply stores
- Online retailers (Amazon, etc.)

Ammonium Nitrate-Based Explosives

Ammonium Nitrate (AN), Nitromethane, Aluminum Powder, Diesel Fuel, Nitrobenzene



NITROMETHANE



A colorless to pale yellow viscous liquid CH₃NO₂

- Racing car fuel
- Industrial solvent
- Propellants and explosives
- Remote control vehicle fuel
- Chemical supply stores
- Racing fuel supply stores
- Remote control hobby stores
- Online retailers (Amazon, etc.)

ALUMINUM POWDER



A light silvery gray powder

- Paints
- Pyrotechnics
- Manufacture of engines, cars, structural members, etc.
- Hardware supply stores
- · Paint supply stores
- Marine supply stores
- Chemical supply stores
- Pyrotechnic stores
- Online retailers (Amazon, etc.)

DIESEL FUEL



A liquid physical state that is colorless to brown

- Motor fuel
- Explosives

- Gas stations
- Truck Stops





A colorless-yellow, oily liquid, or as greenish-yellow crystals C_cHNO

- Soaps and detergents
- Pesticides

- Household supply stores
- Hardware supply stores



*Source: LHcheM https://upload.wikimedia.org/wikipedia/co mmons/thumb/5/59/Sample_of_Nitrobenz ene.jpg/200px-Sample_of_Nitrobenzene.jpg

MEKP

MEKP Overview. Methyl ethyl ketone peroxide (MEKP) is used in fiberglass reinforced plastics as a curing agent for vinyl and polyester resins.

HYDROGEN PEROXIDE (HAIR BLEACH)

Commercial Uses

Retail Sources

MEKP Methyl Ethyl Ketone Peroxide

Hydrogen Peroxide, Methyl Ethyl Ketone, Strong Acid, and Sodium Hydroxide





A clear liquid, slightly more viscous than water H₂O₂

- Bleaching hairPool water softeners
 - Disinfectants
 - Environmental clean-up
 - Therapeutic health baths
 - Bleaching pulps and textiles
- Drug stores (< 8%)
- Beauty supply stores (≤35%)
- Online retailers (≤35%)
- Chemical supply stores [Online] (≤ 98%)

METHYL ETHYL KETONE (MEK)



MEK is a clear, colorless liquid C₄H₈O

- Paint remover
- Plastics manufacture
- Lab and industrial solvents
- Hardware supply stores
- Chemical supply stores

STRONG ACID (I.E. SULFURIC ACID, HYDROCHLORIC ACID, OR MURIATIC ACID)



A clear, colorless to brownish, dense, oily, corrosive, watermiscible liquid

- Drain pipe cleaners
- Auto batteries
- Oil refining
- Polymer manufacture
- Fertilizer manufacture

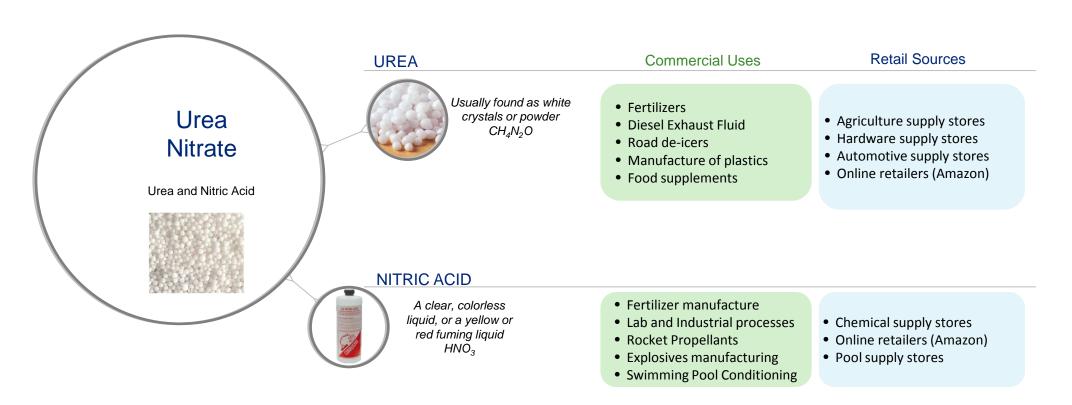
- Automotive supply stores
- Chemical supply stores
- Industrial supply stores
- Pool Supply Stores
- Hardware Stores

MEKP was used one of the possible explosive compounds considered for use in the 2006 trans-Atlantic aircraft plot.



UREA NITRATE

Urea Nitrate Overview. Urea nitrate is commercially used as a fertilizer in the agricultural industry, and in the production of urethane and various plastics.



Urea nitrate was used in the 1993 attack on the World Trade Center was carried out when a truck containing 1,300 lbs. of urea nitrate (enhanced with hydrogen) detonated in the parking garage of the north tower.



EXPLOSIVE POWDERS

BLACK POWDER/SMOKELESS POWDER

Commercial Uses

Retail Sources

Explosive Powders

Black
Powder/Smokeless
Powder, Fireworks,
Potassium Chlorate,
Sodium Chlorate



May range in color from coal black to grayish black or cocoa brown. It can very fine, fine, coarse, or very coarse

- Firearms propellant/gunpowder
- Fuses
- Pyrotechnics
- Special blasting applications
- Military salute charges and ordnance
- Hardware supply stores
- Household supply stores
- Sporting goods stores

FIREWORKS



A device for producing a striking display by the combustion of explosive or flammable compositions

 Fireworks displays / entertainment

- Firework Stands
- Retail outlets

POTASSIUM CHLORATE



Normally appears as colorless, lustrous crystals or as white granules KCIO₃

- Pyrotechnics
- Herbicides
- Matches

- Pyrotechnic supply store
- Chemical supply stores
- Grocery stores
- Hardware supply stores

SODIUM CHLORATE



A white crystalline powder or granular substance NaClO₃

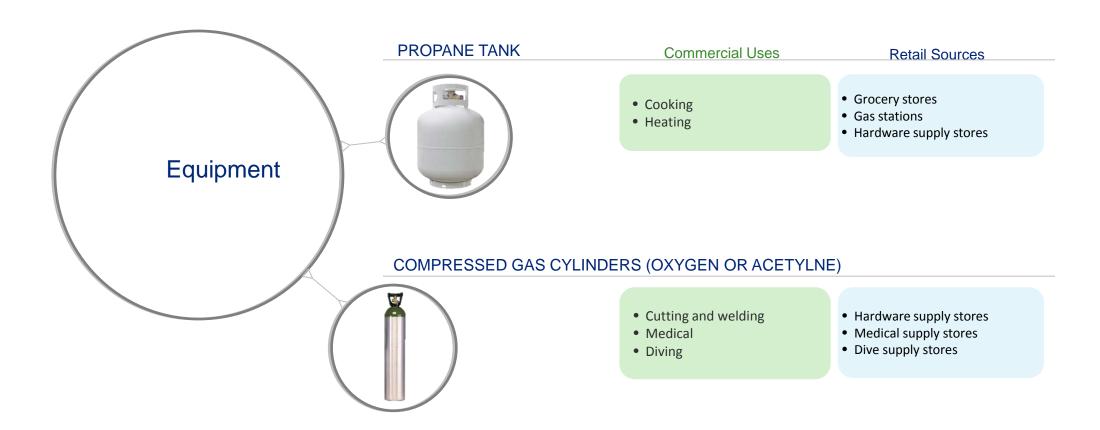
- Herbicides
- Pyrotechnics
- Bleaching Pulp

- Home improvement stores
- Hardware supply stores

Explosive powders harvested from fireworks were used in the pressure cooker and pipe bombs built by the 2013 Boston Marathon bombers.



EQUIPMENT



The instructions provided in *Inspire Magazine* for building vehicle-borne IEDs (VBIED) include the used of propane tanks and other compressed gas cylinders.

