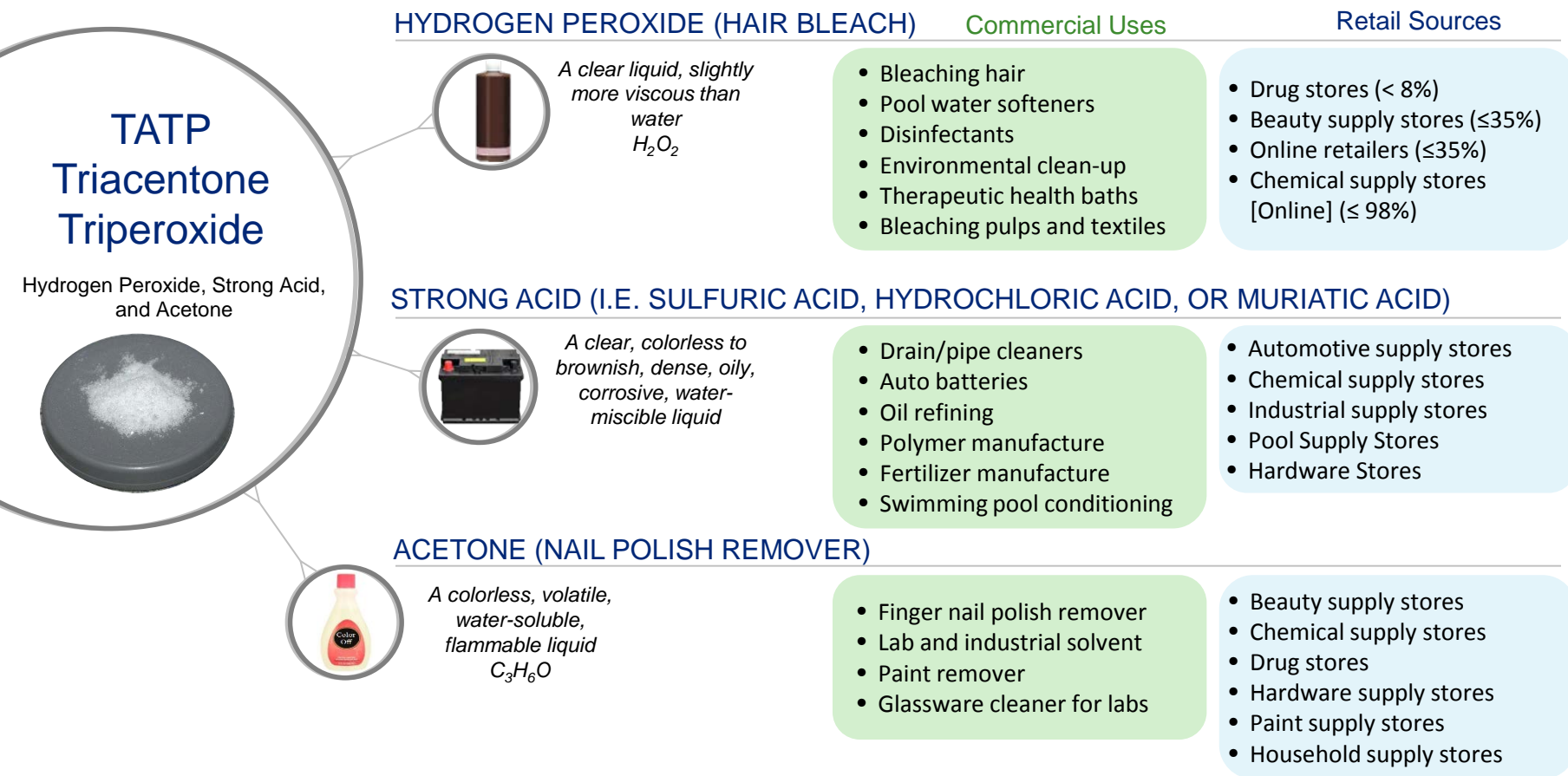


TATP

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



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.



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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
 $C(CH_2OH)_4$

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
 HNO_3

- 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
 C_3H_6O

- 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

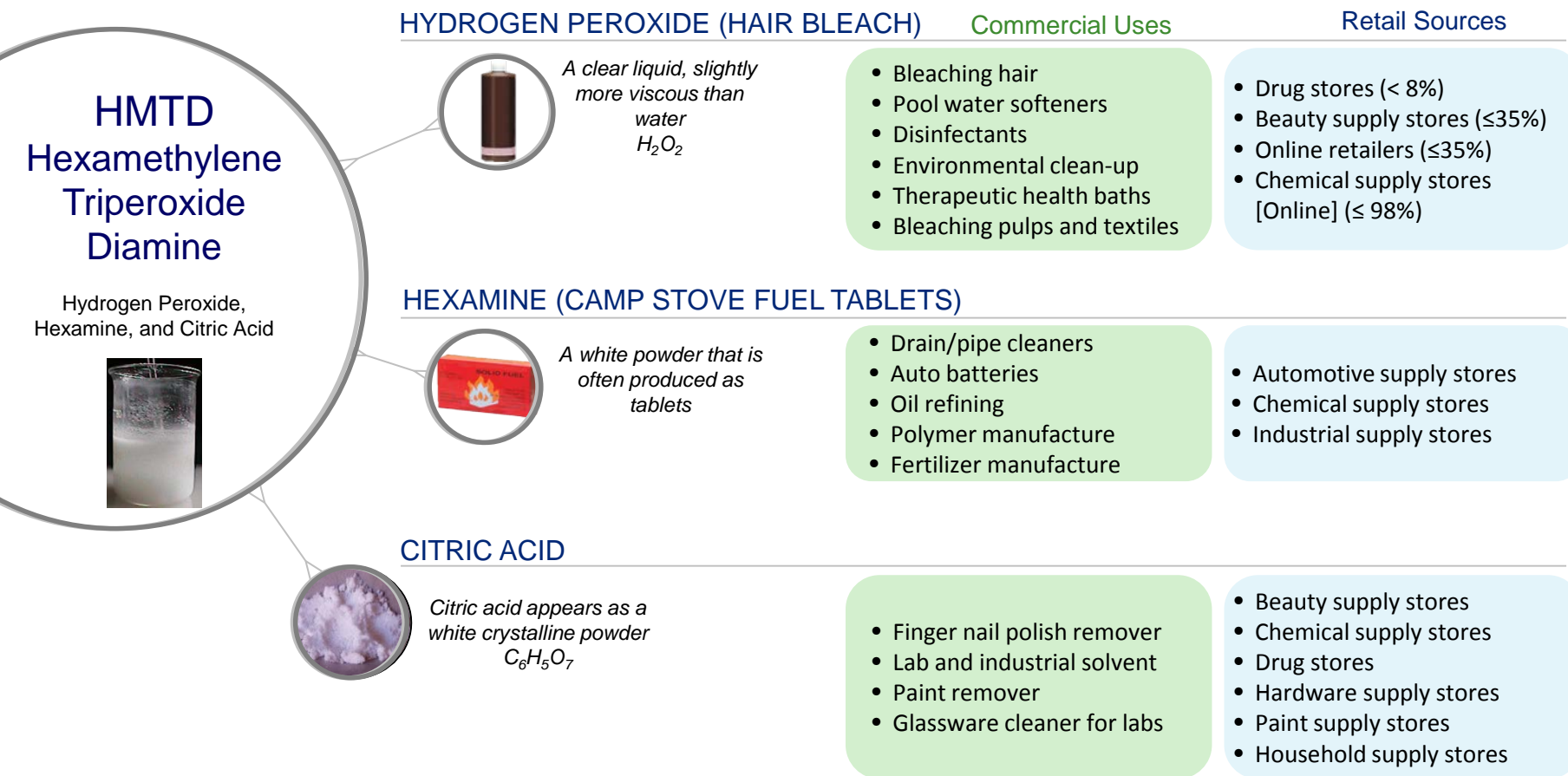
PETN was used in 1983 bombing of the U.S. Marine Barracks in Lebanon, 2001 Richard Reid Shoe Bomb, 2002 Bali Nightclub Bombing, and the 2010 Air Cargo Plot (Printer toner cartridge bomb plot).



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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.



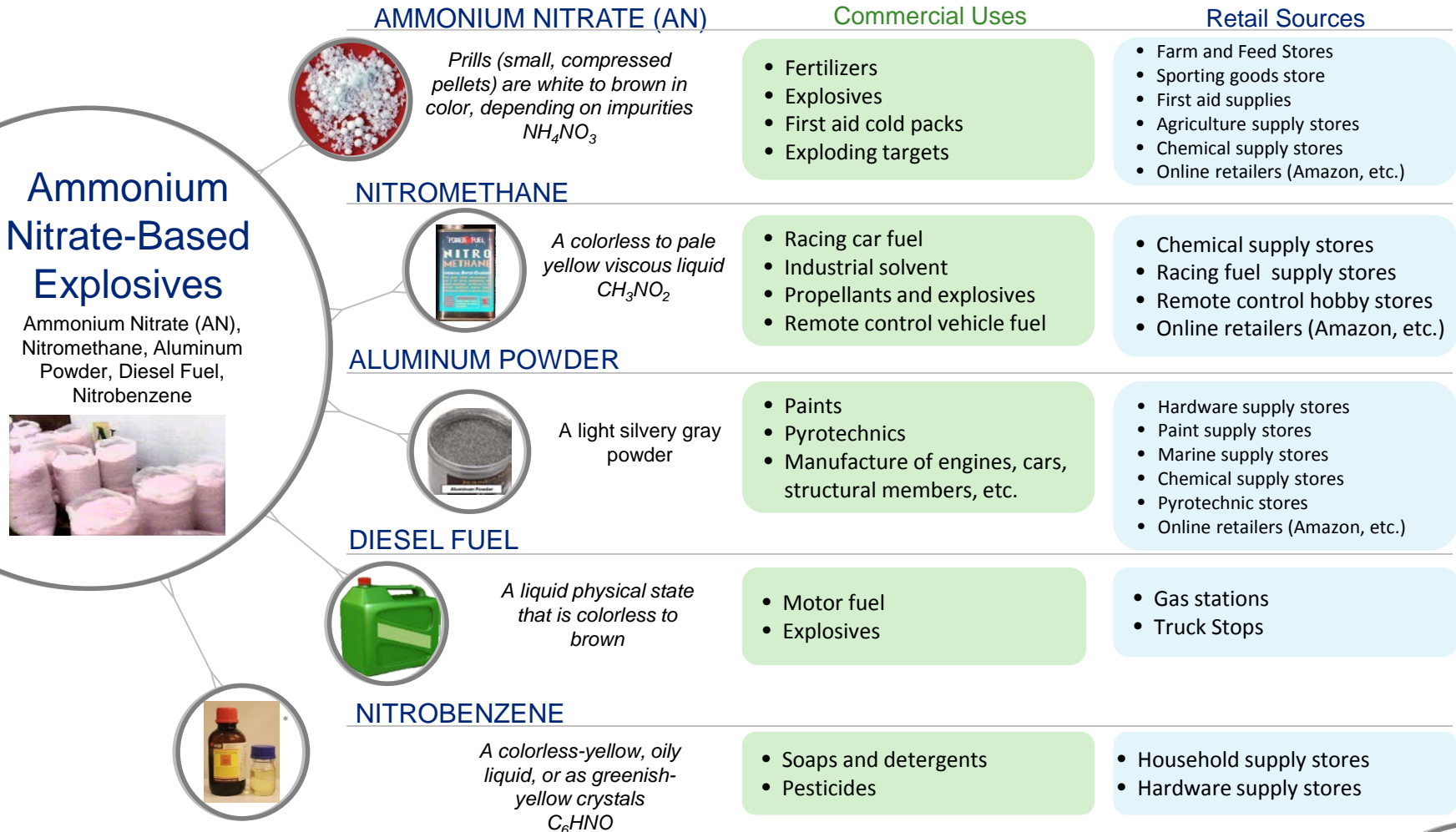
HMTD was used in the 2000 Millennium bomb plot, 2005 London transit bombings, and the 2006 trans-Atlantic aircraft plot.



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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.



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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



A clear liquid, slightly more viscous than water
 H_2O_2

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

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

METHYL ETHYL KETONE (MEK)



MEK is a clear, colorless liquid
 C_4H_8O

- 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, water-miscible 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

SODIUM HYDROXIDE



A white or colorless crystalline substance, available both as a solid in the form of pellets and as a liquid in water solutions
 $NaOH$

- Soaps, detergents, drain / oven cleaners

- Household supply stores
- Hardware supply stores

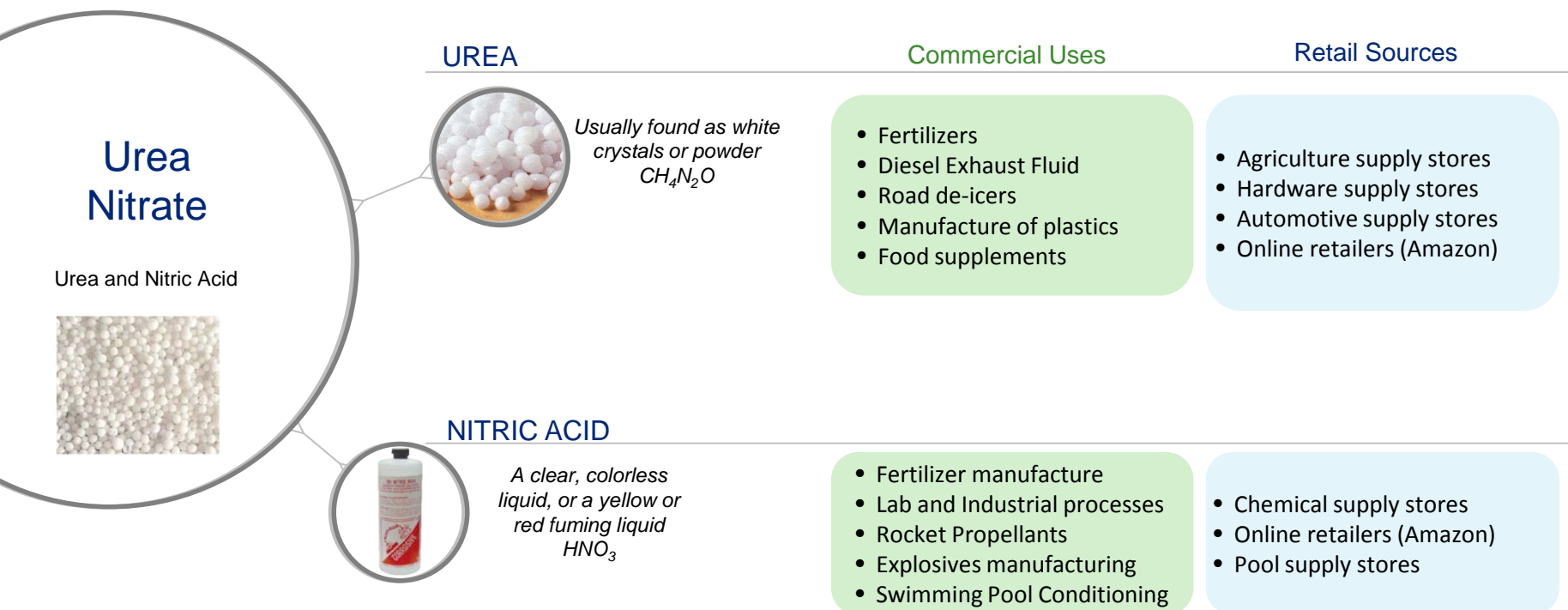
MEKP was used one of the possible explosive compounds considered for use in the 2006 trans-Atlantic aircraft plot.



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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.



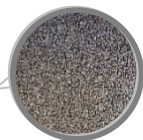
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EXPLOSIVE POWDERS

Explosive Powders

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

BLACK POWDER/SMOKELESS POWDER



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

Commercial Uses

- Firearms propellant/gunpowder
- Fuses
- Pyrotechnics
- Special blasting applications
- Military salute charges and ordnance

Retail Sources

- 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

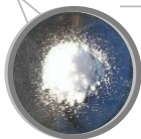


Normally appears as colorless, lustrous crystals or as white granules
 $KClO_3$

- Pyrotechnics
- Herbicides
- Matches

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

SODIUM CHLORATE



A white crystalline powder or granular substance
 $NaClO_3$

- 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.



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EQUIPMENT

Equipment

PROPANE TANK



Commercial Uses

- Cooking
- Heating

Retail Sources

- Grocery stores
- Gas stations
- Hardware supply stores

COMPRESSED GAS CYLINDERS (OXYGEN OR ACETYLENE)



- Cutting and welding
- Medical
- Diving

- Hardware supply stores
- Medical supply stores
- Dive supply stores

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



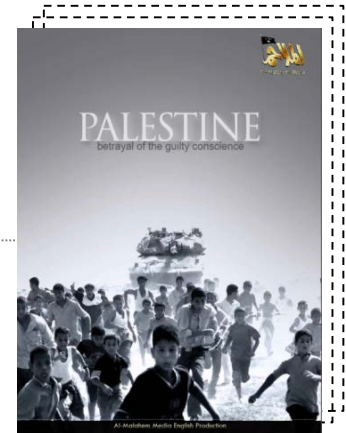
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INSPIRING ATTACKS INSIDE THE U.S.

Extremist literature continues to inspire extremist activities, explicitly promoting attacks upon the United States, and providing actionable instructions and recommended targets

These media operations support a strategy to reach adherents or those vulnerable to radicalization who cannot fight overseas.

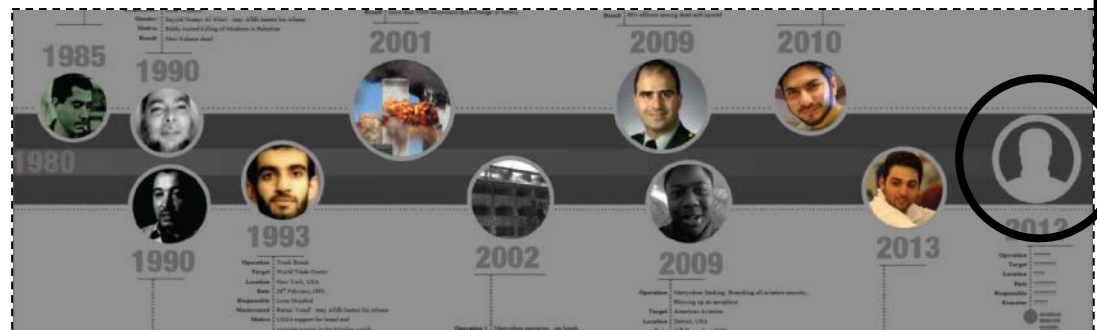
“ My Muslim brother: we are conveying to you our military training right into your kitchen to relieve you of the difficulty of traveling to us. If you are sincere in your intentions to serve the religion of Allah, then all what you have to do it enter your kitchen and make an explosive device that would damage the enemy if you put your trust in Allah and then use this explosive device properly.



Excerpted target list:

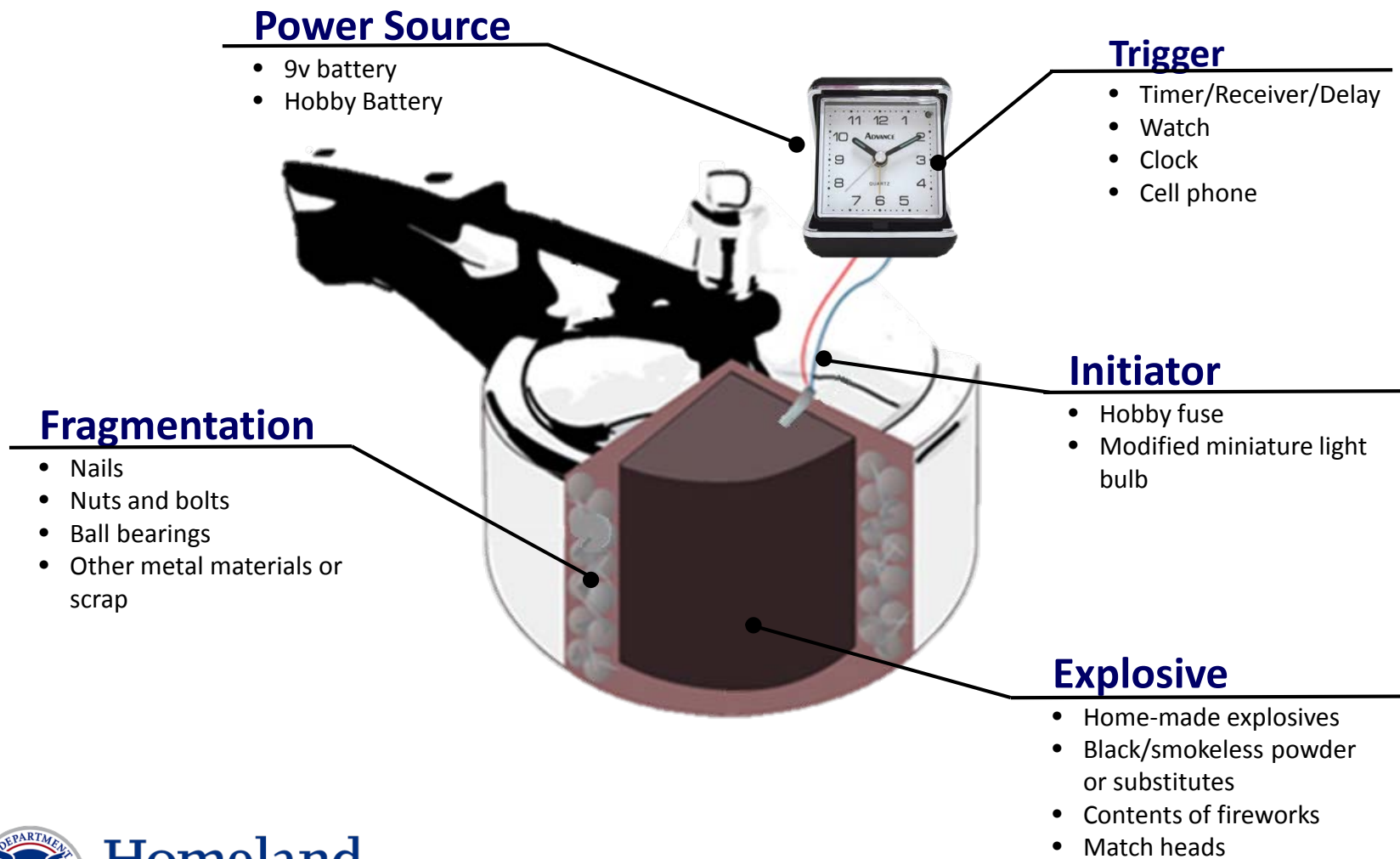
- Time Square, NYC
- Las Vegas Casinos/ Nightclubs, NV
- Election campaigns
- Oil tankers/trains
- GA Military College, GA
- USAF Academy, CO
- General Atomics HQ, CA
- Washington, DC
- Northern VA
- Hampton Roads, VA
- Sears Tower and Chicago Board of Trade, IL
- Los Angeles, CA
- Hollywood, CA
- Festivals
- US Open, NY
- Georgetown, DC
- Arlington, VA
- Alexandria, VA
- CIA and DoD HQs, VA
- Sports events

US attack perpetrators with placeholder for future



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PRESSURE COOKER IED



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PIPE BOMB IED

Explosive

- Home-made explosives
- Black/smokeless powder or substitutes
- Fireworks composition
- Match heads

Container

- Standard Pipe Fittings
- Pipe Caps
- Pipe Plugs

Fragmentation

- Nails
- Nuts and bolts
- Ball bearings
- Other metal materials or scrap



Initiation System

- Hobby Fuse
- Electric Wire
 - Watch, Clock, Cell phone, etc.



COMPRESSED GAS VBIED



“We are going to mix two gases; one an oxidizer, another a fuel, in one sealed container that will change the normal combustion of the two materials into an explosive combustion. The explosion will start as soon as a flame emitted from a torch comes in contact with the gas that will burn rapidly under very high pressure.”*



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STEP-BY-STEP INSTRUCTIONS

a MIXING THE GASES

DID YOU KNOW?
that you can mix the two gases in one Welding Oxygen Cylinder can sustain 25-liters of Gas Cylinders of 25-liters the balloon principle.

- Discharge gas from the Cooking Gas Cylinder until only 3 bars are left in it.
- Note: to be sure of the required amount, you have to measure the pressure after every few moment of the gas. Use a barometer suitable for the cooking gas cylinder.
- Note: If you do not have the suitable barometer, there is a simple way to measure the pressure by a tire barometer (Fig 1.7).

b CONNECTING THE OXYGEN CYLINDER TO THE COOKING GAS CYLINDER.

SECURITY MEASURES

- If you are planning to make your security and cover your trust during the operation, begin from the time you set your feet to purchase the ingredients.
- Wipe your fingerprints.
- Use a car that will not meet your security.
- Avoid city cameras.

c INSERTING OXYGEN GAS

Note: to be able to insert Oxygen Gas into the Cooking Gas Cylinder, you should have the connecting nut illustrated in the photo.

d PREPARING THE IGNITION LAMP

DID YOU KNOW?
that you can mix the two gases in one Welding Oxygen Cylinder! An oxygen cylinder can sustain more than 12 Cooking Gas Cylinders of 25-liters. BUT do not forget the balloon principle.

e INSERTING THE IGNITION LAMP

IMPORTANT!
It is better to start preparing the car bomb few hours before the operation, because the security forces (if they come into your work place/home) cannot accuse you of preparing a bomb, especially if you distribute the ingredients in your house well.

f FASTEN THE CONNECTOR TO MIXED GAS CYLINDER

g PREPARING THE ELECTRIC CIRCUIT: (CONNECTING THE COOKING GAS CYLINDERS)

Every ignition lamp has two wires. Connect the wires on the right to the positive pole (+) of the battery (12v or one), and the wires on the left to the negative pole (-).

PREPARING THE CAR BOMB

Prepare no less than six 25-litre cylinders.

- Place them closely to each other. Leave as little space between them as possible.
- Connect the ignition lamps.

Figure shows Car Bomb without Electrical Circuit



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