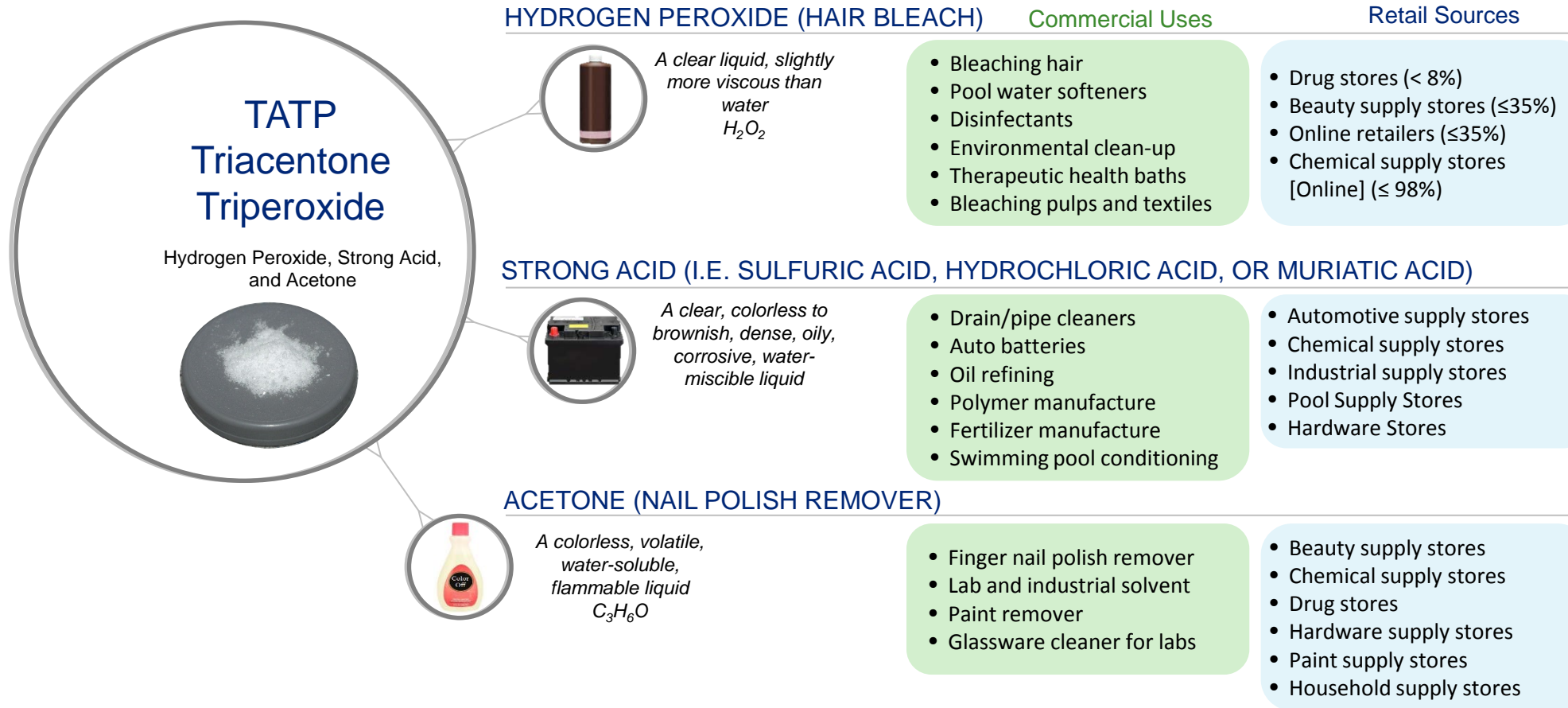


# TATP

**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.



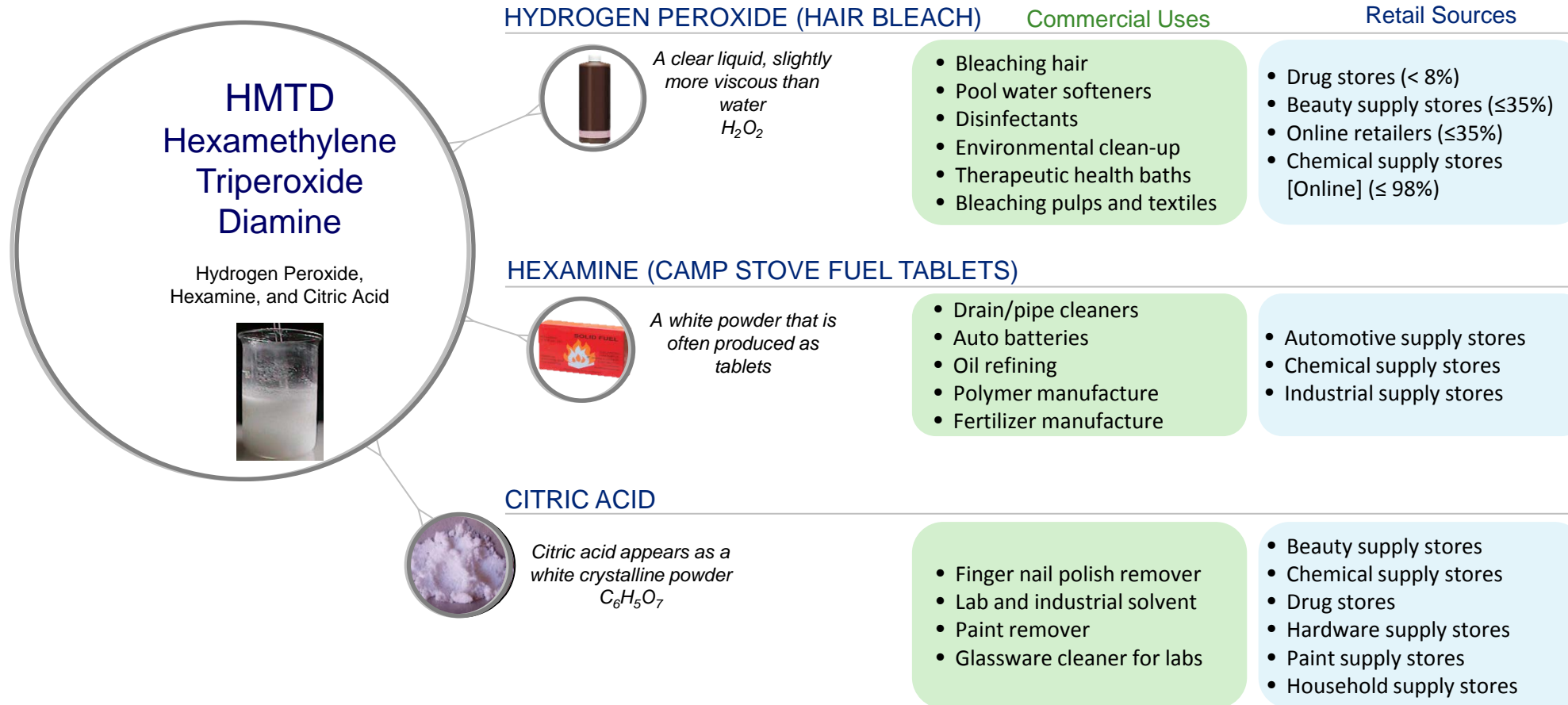
PETN was used in 1983 bombing of the U.S. Marine Barracks in Lebanon, 2001 Richard Reid Shoe Bomb, 2002 Bali Nightclub Bombing, and the 2010 Air Cargo Plot (Printer toner cartridge bomb plot).



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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.



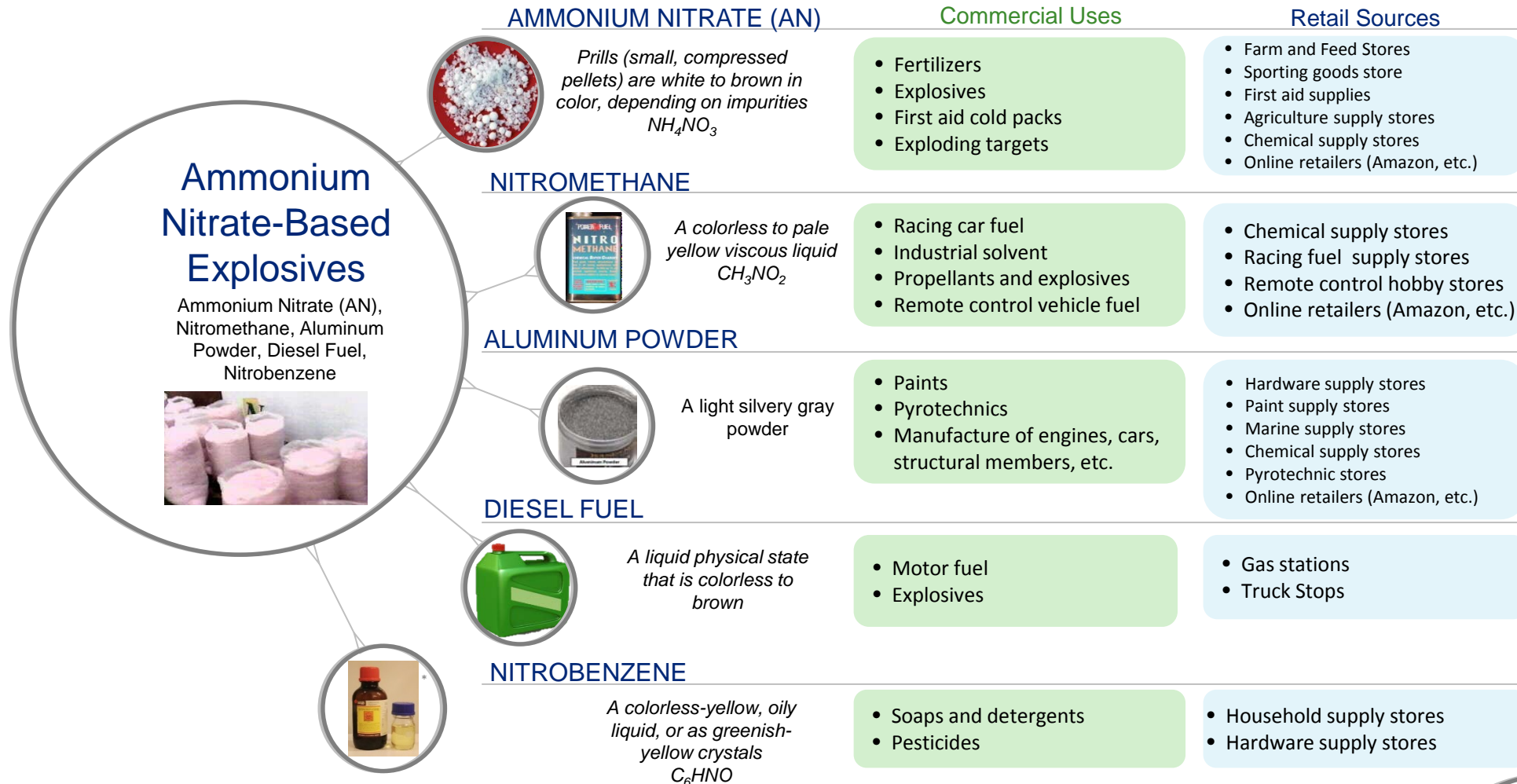
HMTD was used in the 2000 Millennium bomb plot, 2005 London transit bombings, and the 2006 trans-Atlantic aircraft plot.



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# AMMONIUM NITRATE-BASED EXPLOSIVES

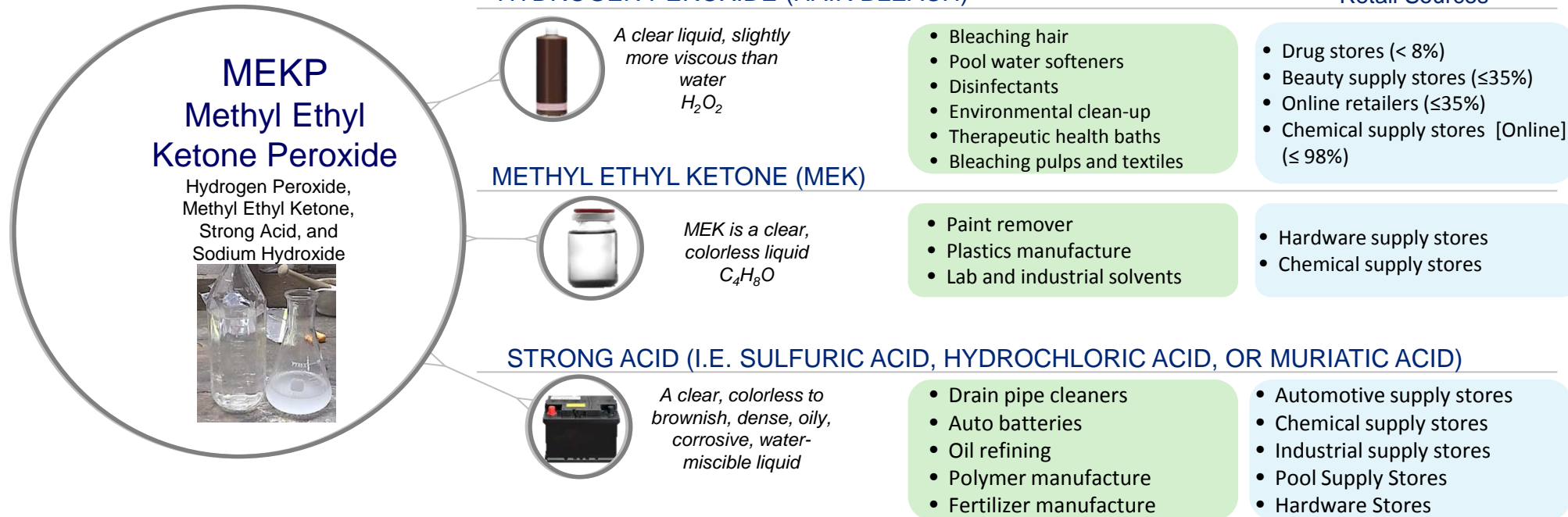
**Ammonium Nitrate-based Home-Made Explosives (HME) Overview.** Because Ammonium Nitrate is so common in both the fertilizer and mining industries, its presence is ubiquitous in the global market place. As such, it is used in a variety of HME, such as ANFO, Annie (ANNB), and ANNM. The Oklahoma City bombing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



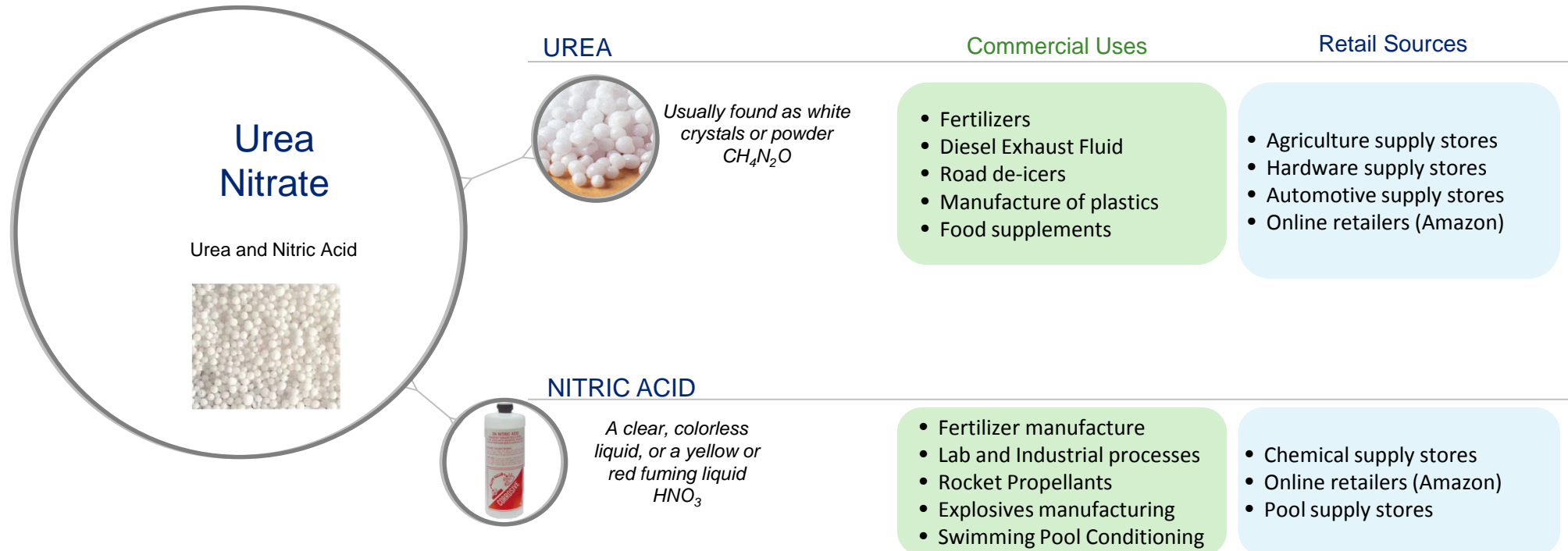
MEKP was used one of the possible explosive compounds considered for use in the 2006 trans-Atlantic aircraft plot.



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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.



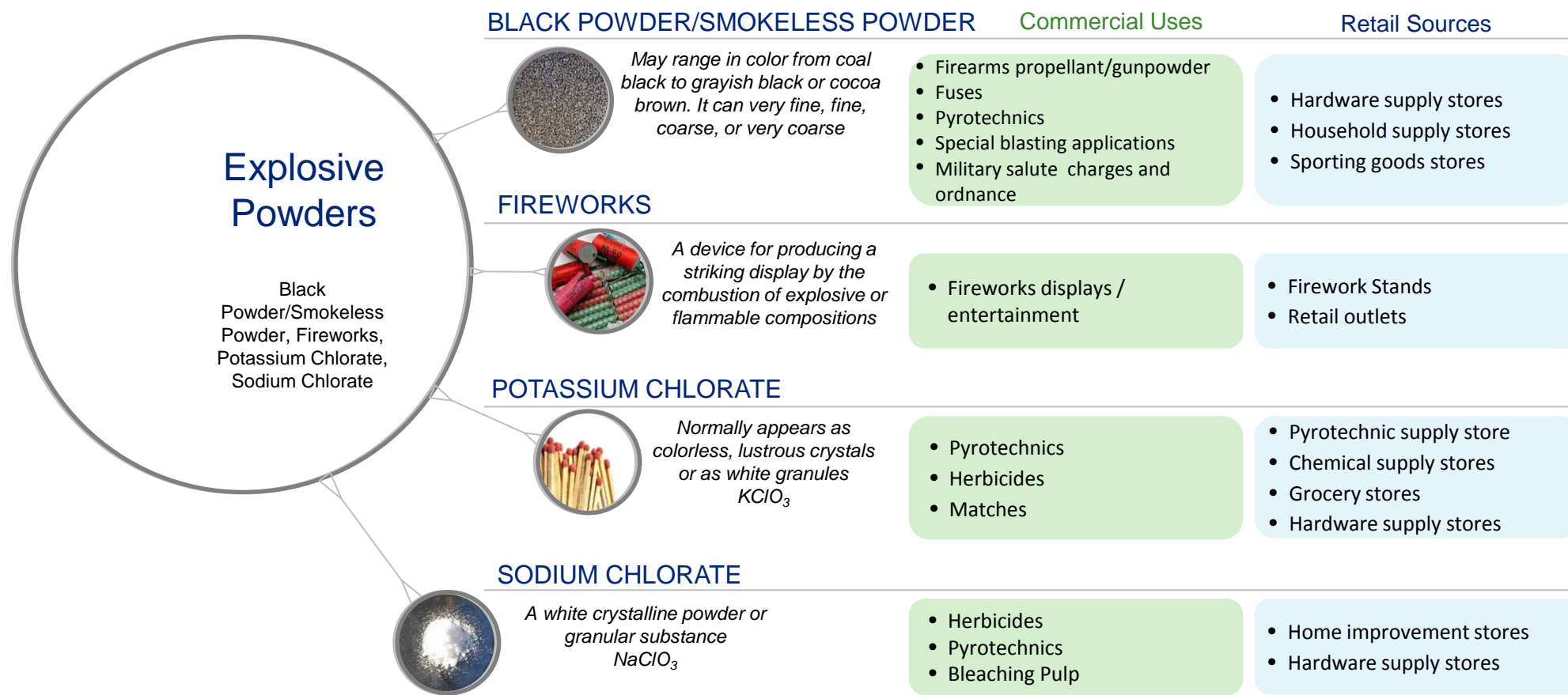
Urea nitrate was used in the 1993 attack on the World Trade Center was carried out when a truck containing 1,300 lbs. of urea nitrate (enhanced with hydrogen) detonated in the parking garage of the north tower.



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# EXPLOSIVE POWDERS

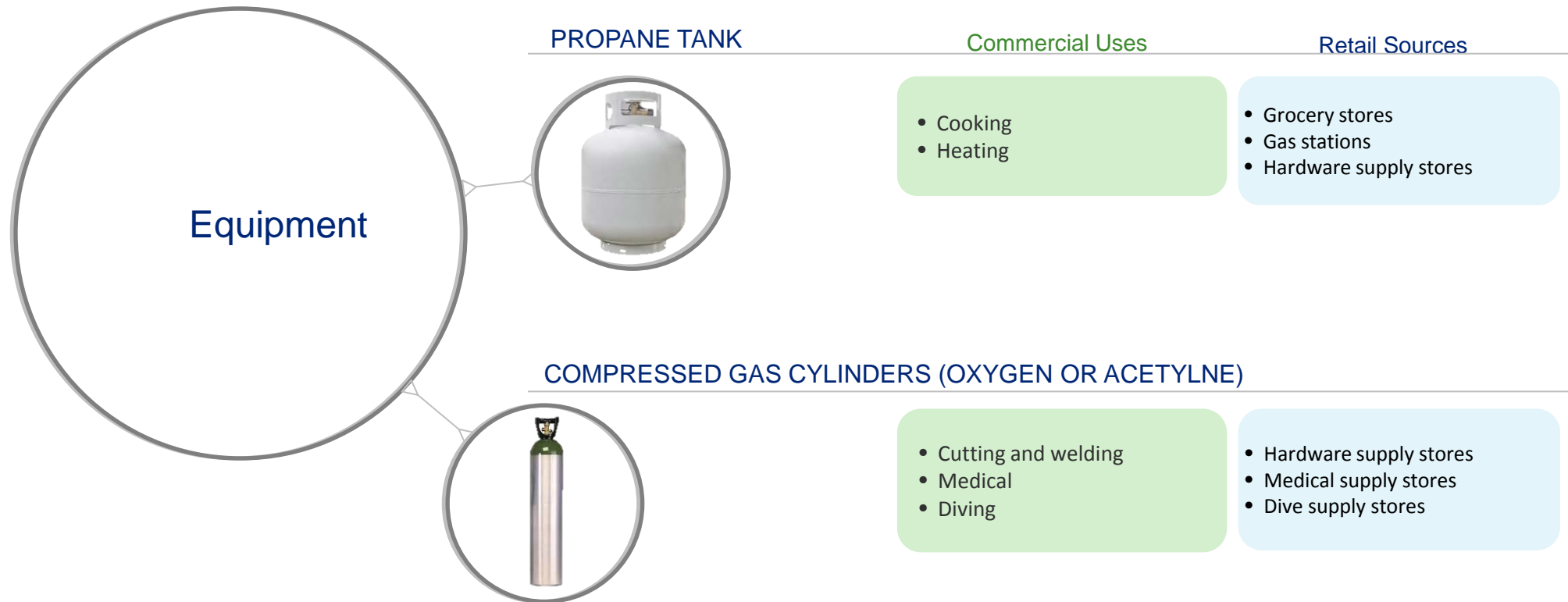


Explosive powders harvested from fireworks were used in the pressure cooker and pipe bombs built by the 2013 Boston Marathon bombers.



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# EQUIPMENT



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



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