

SAFETY RATING SYSTEM FOR PYRO-CHEMICALS

- 0 = None,
 1 = Slight,
 2 = Moderate,
 3 = Severe, and
 4 = Extreme.

The safety ratings are given for four areas of hazard concern:

H = Health is danger or toxic effect a substance presents if inhaled, ingested, or absorbed,

F = Flammability is the tendency of the substance to burn,

R = Reactivity is the potential of a substance to explode or react violently with air, water or other substances, and

C = Contact is the danger a substance presents when exposed to skin, eyes, and mucous membranes.

Description	<u>H</u>	<u>F</u>	<u>R</u>	<u>C</u>
Accroides Resin (red gum)	1	2	0	1
Acetone (nitrocellulose solvent)	1	3	2	1
Aluminum (400 mesh flake)	1	4	2	1
Aluminum (325 mesh, granular)	1	3	2	1
Ammonium Dichromate	4	1	3	3
Ammonium Nitrate	1	0	3	2
Ammonium Perchlorate	1	0	3	2
Anthracene	1	1	0	1
Antimony Trisulfide (325 mesh)	3	3	2	1
Barium Carbonate	1	0	0	1
Barium Chlorate	3	0	3	1
Barium Nitrate	3	0	3	1
Barium Sulfate	1	0	0	0
Benzene	4	3	2	1
Boric Acid	2	0	0	2
Cab-o-sil (colloidal silica)	2	0	0	1
Calcium Carbonate	0	0	0	1
Calcium Sulfate	1	0	0	1
Charcoal (80 mesh)	0	1	0	1
Charcoal (air float)	0	2	0	1
Chlorowax	2	1	1	1
Clay (bentonite, very fine powder)	1	0	0	0
CMC (sodium carboxymethyl-cellulose)	1	1	1	1
Copper (II) Carbonate (basic)	2	0	0	1
Copper (II) Oxide (black, cupric)	2	0	0	1
Copper Oxychloride	2	0	0	1
Copper (II) Sulfate (cupric)	2	0	0	2
Cryolite	1	0	0	1
Dechlorane	2	1	1	2
Dextrin (yellow)	0	1	0	0
Gallic Acid, Monohydrate	1	1	0	1
Graphite (325 mesh)	1	2	0	0

Description	<u>H</u>	<u>F</u>	<u>R</u>	<u>C</u>
Hexachlorobenzene (HCB)	2	1	1	1
Hexachloroethane (HCE)	2	1	1	1
Hexamine (hexamethylenetetraamine)	1	1	1	1
Hydrochloric Acid (Concentrated)	3	0	2	3
Iodine, Sublimed	3	0	2	3
Iron (II) Oxide (black)	1	0	1	1
Iron (III) Oxide (red)	1	0	1	1
Isopropanol (isopropyl alcohol)	1	3	1	1
Lactose	0	1	1	0
Lampblack (oil free)	1	2	0	1
Lead, Granular	3	0	0	1
Lead Dioxide	3	0	3	1
Lead Nitrate	3	0	3	1
Lead Oxide (red, minium)	3	0	1	1
Magnesium (200 mesh)	1	3	2	0
Magnesium (325 mesh)	1	4	2	0
Magnesium Alum. 50/50 (gran., 100–200 m.)	1	3	2	1
Magnesium Alum. 50/50 (gran., 200–400 m.)	1	4	2	1
Magnesium Carbonate	1	0	1	0
Manganese Dioxide	1	0	1	1
Methanol (methyl alcohol)	3	3	1	1
Methylene Chloride	3	1	1	2
Mineral Oil	1	1	0	1
Nitric Acid (Concentrated)	3	0	3	4
Nitrocellulose (lacquer 10% solution)	1	3	2	1
Paraffin Oil	1	1	0	1
Parlon (chlorinated natural rubber)	2	1	1	1
Phosphorous, Red	0	2	2	2
Picric Acid, Crystal	2	2	2	2
Polyvinyl Chloride (PVC)	2	1	1	1

Description	H	F	R	C
Potassium, Lump	3	3	3	4
Potassium Bicarbonate	1	0	1	0
Potassium Chlorate	1	0	3	2
Potassium Dichromate (fine granular)	4	0	3	3
Potassium Hydroxide, Pellets	3	0	2	4
Potassium Nitrate	1	0	3	2
Potassium Perchlorate	1	0	3	2
Potassium Permanganate	2	0	3	2
Potassium Sulfate	1	0	0	0
PVC (polyvinyl chloride)	2	1	1	1
Red Gum (accaroides resin)	1	2	0	1
Shellac (-120 mesh, orange)	1	2	0	1
Silica (fumed-colloidal, Cabosil)	2	0	0	1
Silica Gel (60-200 mesh)	2	0	0	1
Silicon Metal Powder (325 mesh)	2	3	1	1
Silver Nitrate, Crystal	3	0	3	3
Smoke Dye	1	1	1	2
Sodium, Lump	3	3	3	4
Sodium Azide	3	2	3	2
Sodium Benzoate	1	1	0	1
Sodium Bicarbonate	0	0	1	1
Sodium Carboxymethylcellulose (CMC)	1	1	1	1
Sodium Chlorate, Crystal	1	0	3	1
Sodium Cyanide, Granular	3	0	2	3

Description	H	F	R	C
Sodium Hydroxide, Pellets	3	0	2	4
Sodium Nitrate	1	0	3	1
Sodium Oxalate	3	0	1	2
Sodium Salicylate	1	1	0	1
Sodium Silicate (water glass, liquid)	1	0	0	2
Sodium Sulfate	0	0	0	1
Starch, Soluble Potato	0	1	0	1
Stearic Acid	1	1	1	1
Strontium Carbonate	1	0	0	1
Strontium Nitrate	1	0	3	1
Strontium Sulfate	1	0	0	1
Sulfur (flour)	1	1	0	1
Sulfuric Acid (Concentrated)	3	0	3	4
Talc, Powder	1	0	0	1
Tetrachloroethane	3	0	1	2
Tin, Granular (20 mesh)	0	0	0	1
Titanium Metal Powder (100 mesh)	1	3	2	1
Titanium Metal Powder (300 mesh)	1	4	2	1
Titanium Tetrachloride	3	0	2	3
Trichloroethylene (Stabilized)	3	1	2	2
Water	0	0	1	0
Zinc Metal Powder (dust)	1	3	2	1
Zinc Oxide	4	0	3	3