

Periodic Table of the Elements




















1 1A	2 2A	3 3B	4 4B	5 5B	6 6B	7 7B	8 8B	9 8B	10 8B	11 1B	12 2B	13 3A	14 4A	15 5A	16 6A	17 7A	18 8A
1 H Hydrogen 1.00794	2 He Helium 4.0026	3 Li Lithium 6.941	4 Be Beryllium 9.0122	5 B Boron 10.811	6 C Carbon 12.01115	7 N Nitrogen 14.0067	8 O Oxygen 15.9994	9 F Fluorine 18.9984	10 Ne Neon 20.179	11 Na Sodium 22.9898	12 Mg Magnesium 24.305	13 Al Aluminum 26.9815	14 Si Silicon 28.086	15 P Phosphorus 30.9738	16 S Sulfur 32.064	17 Cl Chlorine 35.453	18 Ar Argon 39.948
19 K Potassium 39.0983	20 Ca Calcium 40.08	21 Sc Scandium 44.956	22 Ti Titanium 47.88	23 V Vanadium 50.942	24 Cr Chromium 51.996	25 Mn Manganese 54.9380	26 Fe Iron 55.847	27 Co Cobalt 58.9332	28 Ni Nickel 58.69	29 Cu Copper 63.54	30 Zn Zinc 65.37	31 Ga Gallium 69.72	32 Ge Germanium 72.59	33 As Arsenic 74.9216	34 Se Selenium 78.96	35 Br Bromine 79.904	36 Kr Krypton 83.80
37 Rb Rubidium 85.4678	38 Sr Strontium 87.62	39 Y Yttrium 88.905	40 Zr Zirconium 91.22	41 Nb Niobium 92.906	42 Mo Molybdenum 95.94	43 Tc Technetium (98)	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.905	46 Pd Palladium 106.4	47 Ag Silver 107.868	48 Cd Cadmium 112.40	49 In Indium 114.82	50 Sn Tin 118.69	51 Sb Antimony 121.75	52 Te Tellurium 127.60	53 I Iodine 126.9044	54 Xe Xenon 131.29
55 Cs Cesium 132.905	56 Ba Barium 137.33	57 La Lanthanum 138.91	58 Ce Cerium 140.12	59 Pr Praseodymium 140.907	60 Nd Neodymium 144.24	61 Pm Promethium (145)	62 Sm Samarium 150.35	63 Eu Europium 151.96	64 Gd Gadolinium 157.25	65 Tb Terbium 158.9254	66 Dy Dysprosium 162.50	67 Ho Holmium 164.930	68 Er Erbium 167.26	69 Tm Thulium 168.934	70 Yb Ytterbium 173.04	71 Lu Lutetium 174.967	
87 Fr Francium (223)	88 Ra Radium (226.0254)	89 Ac Actinium (227.0277)	90 Th Thorium 232.038	91 Pa Protactinium (231.0359)	92 U Uranium 238.03	93 Np Neptunium (237.0482)	94 Pu Plutonium (244)	95 Am Americium (243)	96 Cm Curium (247)	97 Bk Berkelium (247)	98 Cf Californium (251)	99 Es Einsteinium (252)	100 Fm Fermium (257)	101 Md Mendelevium (258)	102 No Nobelium (259)	103 Lr Lawrencium (260)	
113 Uut	114 Uuq	115 Uup	116 Uuh	117 Uus	118 Uuo	119 Uue	120 Uuq	121 Uub	122 Uuc	123 Uud	124 Uue	125 Uuf	126 Uug	127 Uuh	128 Uuq	129 Uur	130 Uus

Metals
Nonmetals
Transition Elements
Noble Gases
Inner Transition Elements
Synthetic
Radioactive

1 New designation
 1A Original designation
 () Indicates atomic weight of most stable isotope

Note: Elements 113-118 are not currently known. They are shown in the table at their expected positions for information only.

Signal Word Chart

Signal Words	Possible Classification	Symbol
Avoid breathing of vapor or spray mist	Toxic	
Avoid contact with skin, eyes, and mouth	Toxic	
Avoid contact with skin, eyes, mouth, and clothing	Corrosive	
Causes severe burns to eyes and skin	Corrosive	
Caustic soda-lye	Corrosive	
Close container after each use	Toxic	
Combustible	Flammable	
Contains petroleum distillates or Contains petroleum solvents	Flammable	
Corrosive to metal	Corrosive	
Do not mix this product with other household chemicals	Reactive	
Flammable	Flammable	
Harmful if taken internally	Toxic	
Harmful or fatal if swallowed	Toxic	
Inflammable	Flammable	
Keep away from heat or flame	Flammable	
May cause blindness	Corrosive	
Produces chemical burns	Corrosive	
Use only with adequate ventilation	Toxic	
Wear goggles, face shield, or safety glasses	Corrosive	

pH Scale

	Hydrogen ions concentration compared to distilled water	pH	Examples of solutions at this pH
Corrosive - Acid Hazardous Waste ≤ 2	10,000,000	pH = 0	Battery Acid, Sulfuric Acid, Strong Hydroflouric Acid
	1,000,000	pH = 1	Hydrochloric Acid Secreted by Stomach Lining
	100,000	pH = 2	Lemon Juice, Gastric Acid, Vinegar
NEUTRAL	10,000	pH = 3	Grapefruit, Orange Juice, Soda
	1,000	pH = 4	Tomato Juice, Acid Rain
	100	pH = 5	Soft Drinking Water, Black Coffee
	10	pH = 6	Urine, Saliva
	1	pH = 7	"Pure" water
	1/10	pH = 8	Sea Water
	1/100	pH = 9	Baking Soda
	1/1,000	pH = 10	Milk of Magnesia, Great Salt Lake
	1,/10,000	pH = 11	Ammonia Solution
Hazardous Waste ≥ 12.5 Corrosive Alkaline, Base, Caustic	1/100,000	pH = 12	Bleach
	1/1,000,000	pH = 13	Oven Cleaner
	1/10,000,000	pH = 14	Liquid Drain Cleaner

Hydrogen Peroxide (H²O²) Class 5.1 OR 5.1 (8)

00-40% solution - pH range: 2-4 (Acidic)
Some liquid deck/wood cleaners



Solutions above 40% are required to be lab packed and shipped separately from the <40% solutions.

UN2984 HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS (LESS THAN 20%) 5.1 PGIII ERG(140) BE000511-00

UN2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS (20% TO 60%) 5.1 (8) PGII ERG(140) BE000511-00

Inorganic Oxidizers Class 5.1 (6.1)

Nitrates (i.e. Sodium, Potassium, Lead, Silver)

Nitrites (i.e. Sodium, Potassium)

Permanganates (i.e. Potassium, Calcium)

Dichromates (i.e. Sodium)

Persulfates (i.e. Potassium, Calcium)

Iodates (i.e. potassium, sodium)

Percarbonates (i.e. sodium)

Containers required to be packed in absorbent

Can contain both solid and aqueous solutions of above listed chemicals.

Sodium Percarbonate (solid deck cleaner)



Potassium Nitrate (some are sodium nitrate (salt peter) stump removers



UN3099 OXIDIZING LIQUID, TOXIC, N.O.S. (SODIUM NITRATE, POTASSIUM PERMANGANATE) 5.1 (6.1) PGII ERG(142) BE000512-00

Household Bleach / Liquid Hypochlorites

Class 8 (Alkali)

Hypochlorites (i.e. Sodium, Potassium, Calcium)

Bleach solution

Hypochlorite-based cleaners w/o Organics

Household cleaner w/ Bleach

Toilet Bowl cleaner w/ Bleach

Repackage into Poly Drum



UN1791 HYPOCHLORITE SOLUTIONS 8 PGII ERG(154) BE000515-00

Inorganic Pool Chemicals

Class 5.1

Hypochlorites (i.e. Calcium, Sodium, Lithium)

Chlorates (i.e. Sodium, Calcium)

Perchlorates (i.e. Sodium, Calcium)



UN3212 HYPOCHLORITES, INORGANIC, N.O.S. (CALCIUM HYPOCHLORITE, LITHIUM HYPOCHLORITE) 5.1 PGII ERG(140) BE000513-00

Oxidizing Ammonium Salts

Class 5.1

Ammonium Nitrate

Ammonium Persulfate

Ammonium Nitrate Fertilizers

must be less than 0.2% Organic



UN3139 OXIDIZING LIQUID, N.O.S. (AMMONIUM PERSULFATE, AMMONIUM NITRATE) 5.1 PGII ERG(140) BE000514-00

Organic Pool Chemicals

Class 5.1

Potassium dichloroisocyanurate (POTASSIUM DICHLORO TRIAZINETRIONE)

Sodium dichloroisocyanurate

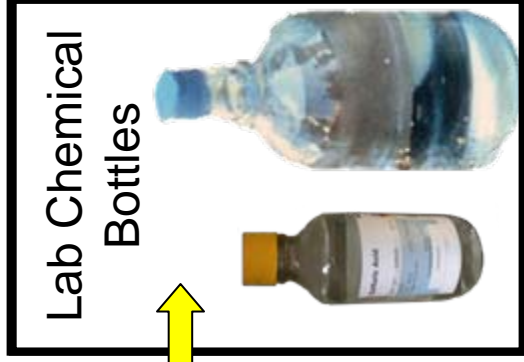
Trichloroisocyanuric acid (TRICHLORO-S-TRIAZINETRIONE)



UN1479 OXIDIZING SOLID, N.O.S. (TRICHLOROISOCYANURIC ACID, DICHLOROISOCYANURATE) 5.1 PGII ERG(140) BE000516-00

Laboratory Acid and Base Chemical Cap Color Chart

IF YOU SEE THESE BOTTLES LOOK FOR THE CAP COLOR



WARNING

DISCLAIMER – This guide is intended as a general guide. Users should exercise extreme caution handling this containers. Remember that containers may have contain different chemicals with different hazards due to reuse or misuse. Users should verify correct contents through testing or other confirmation method. Sweetser & Associates is not liable for use of this guide.

			Nitric acid
			Sulfuric acid
			Perchloric acid

VERIFY IF OXIDIZER

			Hydrochloric acid
			Glacial acetic acid

SEPARATE WEAK AND STRONG ACIDS

			Ammonia (BASE)
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KEEP ACIDS AWAY

Store
↕
Separate

Store
↕
Separate



Sweetser & Associates

COMMON HOUSEHOLD HAZARDOUS WASTES

CORROSIVES (ACIDS)

Boric Acid
Car Battery Acid
Copper Cleaners
Etching Solutions
Ferric Chloride
Fertilizers *
Hydrochloric Acid
Hydrofluoric Acid
Metal Cleaners
Muriatic Acid
Navel Jelly
Phosphoric Acid
Pool Acid
Sheep Dip
Sodium Bisulfate
Sulfuric Acid
Toilet Bowl Cleaners *

CORROSIVES (BASES)

Ammonia and Ammonia Based Cleaners
Battery Terminal Cleaner
Caustic Soda
Cess Pool Cleaners *
Drain Cleaners *
Household cleaners *
Lime
Lye
Oven Cleaners *
Sodium Hydroxide
Window Cleaners

EXPLOSIVES

Ammunition
Fireworks
Flares

FLAMMABLES & COMBUSTIBLES

Acetone
Adhesives *
Aerosol
Air Freshener
Alcohols
Artificial Snow
Asphalt Driveway Topping
Automotive Body Filler (Bondo) (unsolidified)
Automotive Oils
Automotive Waxes
Bar-B-Que Lighter Fluid
Benzene
Brake Fluid
Camphor
Chrome-Silver Polishes *
Cutting Oil
Denatured Alcohol
Diesel Fuel
Disinfectants
Duplicator Fluid
Enamel Paint (unsolidified)
Enamel/Oil Base Paint
Epoxy Paint (unsolidified)
Ethanol
Ether
Ethylene Glycol

Fiberglass Resins (unsolidified)
Fingernail Polish and Remover
Floor/Furniture Polish
Formaldehyde Solution
Formalin
Gasoline
Glues *
Grease
Household Waxes
Isopropyl Alcohol
Kerosene
Lacquer Thinner
Lacquer Paint (unsolidified)
Linseed Oil
Liquid Waxes *
Liquid Sandpaper *
Liquid Butane
Methanol
Naphtha
Oils (petroleum)
Organic solvents
Paint Thinners
Paint Strippers *
Paraffin Oil
Pentachlorophenol
Perfume
Petroleum Distillates
Plastic Roof Cement
Plastic Model Cement
Polyurethane Paint (unsolidified)
Polyurethane Cement (unsolidified)
Power Steering Fluid
Primers
Roofing Cement
Rug/Upholstery Cleaner
Sealers
Shellac Thinner
Silicone Sprays
Spot Remover/Dry Cleaning Fluids
Thinner
Tile Cement
Tire Black
Toluol/Toluene
Transmission Fluid
Transmission Oil
Turpentine
Varnish
Wallpaper Cement
Windshield Wiper Fluid
White Gas
Wood Filler/Putty
Wood Stain
Xylol/Xylene

ORGANIC PEROXIDE

Adhesive Catalysts
Automotive Body Filler Catalyst

RADIOACTIVE MATERIALS

Old glow in the dark watches
Smoke Alarms

OXIDIZERS

Ammonium Nitrate
Bleach
Calcium Hypochlorite
Tree Root/Stump Killer

Chlorates
Fertilizers *
Fluorine
Hair Coloring
Hydrogen Peroxide
Iodine
Nitric Acid
Plant Food
Potassium Permanganate
Sodium Hypochlorite
Toilet Bowl Cleaner with bleach

POISONS

Ant and Roach Killer
Anti-Freeze
Arsenic Compounds
Automotive Cleaners
Bacterial Pipe Cleaners
Bordeaux Mix
Boric Acid
Bug Remover
Chlordane
Chrome-Silver Polishes *
Chromium
Copper Sulfate
DDT
Diazinon
Dimethylamine Salts
Disinfectants *
Dog Repellent
Ethylene Glycol
Fertilizers
Flea Spray/Powder
Fungicides *
Gopher Killer
Insect Sprays
Lead Compounds
Lice Powder
Lindane
Malathion
Mercury
Methylene Chloride
Mole Killer
Moth Crystals
Pentachlorophenol
Pesticides
Pharmaceuticals
Plant Food
Pruning Paint
Pyrethrins
Rat Poison
Rose Dust
Sheep Dip
Snail/Slug Killer
Strychnine
Tar Remover
Weed and Grass Killer
Windshield Wiper Fluid

* Check Ingredients



Common Household Hazardous Waste Classifications, alphabetical

#		
1,1,1- Trichloroethane	POISON	NEUTRAL
2,4,5-T (Moss Stop - old in can)- pentachlorophenol family	POISON	NEUTRAL
2,4-Dichlorophenoxyacetic Acid	POISON	NEUTRAL
A		
Acetic acid (organic, glacial) (1)	CORROSIVE	ACID
Acetic anhydride (1)	CORROSIVE	ACID
Acetic chloride (1)	CORROSIVE	ACID
Acetone	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Acetyl chloride	WATER REACTIVE	NEUTRAL
Acid ammonium fluoride	CORROSIVE	ACID
Adhesive catalysts	ORGANIC PEROXIDE	NEUTRAL
Adhesives *	FLAMMABLE	NEUTRAL
Aerosol	FLAMMABLE	NEUTRAL
Air fresheners (solid)	FLAMMABLE SOLID	NEUTRAL
Alcohols	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Alkaline batteries	CORROSIVE	BASE
Alkalinity increaser for pools	CORROSIVE	BASE
Alkyd base paints	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Aluminum alkyls	SPONTANEOUSLY COMBUSTIBLE	NEUTRAL
Aluminum brightener	CORROSIVE	ACID
Aluminum jelly	CORROSIVE	ACID
Aluminum nitrate	OXIDIZER	ACID
Aluminum phosphide	WATER REACTIVE	NEUTRAL
Aluminum powder coated (metallic)	FLAMMABLE SOLID	NEUTRAL
Aluminum powder uncoated	WATER REACTIVE	NEUTRAL
Amine resin industrial catalyst * (MAY ALSO BE FLAMMABLE)	CORROSIVE	BASE
Ammonia	CORROSIVE	BASE
Ammonia based cleaners	CORROSIVE	BASE
Ammonium bifluoride	CORROSIVE	ACID
Ammonium chloride	POISON	NEUTRAL
Ammonium difluoride	CORROSIVE	ACID
Ammonium hydrogen fluoride	CORROSIVE	ACID
Ammonium hydroxide	CORROSIVE	BASE
Ammonium nitrate	OXIDIZER	NEUTRAL
ammonium dichromate	OXIDIZER	NEUTRAL
ammonium perchlorate	OXIDIZER	NEUTRAL
ammonium permanganate	OXIDIZER	NEUTRAL
ammonium persulfate	OXIDIZER	NEUTRAL
Ammunition	EXPLOSIVES	NEUTRAL
Ant and Roach Killer	POISON	NEUTRAL
Antiformin (sodium hypochlorite) Battery Terminal Cleaner	CORROSIVE	BASE
Anti-fouling marine paint (with heavy metals)	POISON	NEUTRAL
Anti-Freeze	POISON	NEUTRAL
Arsenic	POISON	NEUTRAL
Arsenic Compounds	POISON	NEUTRAL
Artificial Snow	FLAMMABLE	NEUTRAL
Asbestos	ASBESTOS	NEUTRAL
Asbestos Coating	FLAMMABLE SOLID	NEUTRAL
Asbestos Putty	FLAMMABLE SOLID	NEUTRAL
Asbestos Roofing Tar	FLAMMABLE SOLID	NEUTRAL
Asphalt Driveway Topping	FLAMMABLE SOLID	NEUTRAL
Automotive Body Filler (Bondo)	FLAMMABLE	NEUTRAL
Automotive Body Filler Catalyst	ORGANIC PEROXIDE	NEUTRAL
Automotive Cleaners	POISON	NEUTRAL
Automotive Oils	FLAMMABLE	NEUTRAL
Automotive Waxes	FLAMMABLE	NEUTRAL
Azides	EXPLOSIVES	NEUTRAL
B		
Bacterial Pipe Cleaner	POISON	NEUTRAL
Bar-B-Que lighter fluid	FLAMMABLE	NEUTRAL
Barium chlorate (oxygen pellets)	OXIDIZER	NEUTRAL
barium nitrate	OXIDIZER	NEUTRAL
barium peroxide	OXIDIZER	NEUTRAL
Batteries, alkaline	CORROSIVE	BASE
Batteries, lead acid	CORROSIVE	ACID
Batteries, lead acid gel cells	CORROSIVE	ACID
Batteries, lithium	OTHER	NEUTRAL
Batteries, rechargeable	CORROSIVE	BASE
Battery acid	CORROSIVE	ACID
Battery electrolyte	CORROSIVE	ACID
Battery terminal cleaners	CORROSIVE	BASE
Baygon	POISON	NEUTRAL

Benzene	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Benzoyl Peroxide (Ingredient or Red Cream)	ORGANIC PEROXIDE	NEUTRAL
Bis (tributyltin) oxide > 5 %	POISON	NEUTRAL
Bisulfates	CORROSIVE	ACID
Bisulfites	CORROSIVE	ACID
Black Flag (pesticides)	POISON	NEUTRAL
Black Leaf	POISON	NEUTRAL
Blasting caps	EXPLOSIVES	NEUTRAL
Bleach	OXIDIZER	BASE
Body Filler (remove hardener)	FLAMMABLE SOLID	NEUTRAL
Bordeaux mix	POISON	NEUTRAL
Boric acid	CORROSIVE	ACID
Boric acid**	POISON	NEUTRAL
Brake fluid	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Bromates (brominating) *	OXIDIZER	NEUTRAL
Bromates, XXX *	OXIDIZER	NEUTRAL
Bromine	OXIDIZER	NEUTRAL
Bug remover	POISON	NEUTRAL
Bullets	EXPLOSIVES	NEUTRAL
C		
Cacodylic acid** (arsenic)	POISON	NEUTRAL
Cadmium	POISON	NEUTRAL
Cal Hypo	OXIDIZER	BASE
Cadmium compounds	POISON	NEUTRAL
Calcium	WATER REACTIVE	NEUTRAL
Calcium carbide	WATER REACTIVE	NEUTRAL
Calcium chlorate (1)	OXIDIZER	BASE
Calcium chloride (can create heat w/water)	CORROSIVE	BASE
Calcium cyanide	POISON (CYANIDE)	NEUTRAL
Calcium ferrocyanide	POISON (CYANIDE)	NEUTRAL
Calcium hypochlorite	OXIDIZER	BASE
calcium nitrate	OXIDIZER	NEUTRAL
Calcium peroxide	OXIDIZER	BASE
Calcium phosphide	WATER REACTIVE	NEUTRAL
Camphor	FLAMMABLE	NEUTRAL
Camphor (solid)	FLAMMABLE SOLID	NEUTRAL
Car battery acid	CORROSIVE	ACID
Carbamate insecticides	POISON	NEUTRAL
Carbazotic acid	EXPLOSIVES	NEUTRAL
Carbon tetrachloride (w / heat = phosgene gas)	FLAMMABLE	NEUTRAL
Carbon, powdered	SPONTANEOUSLY COMBUSTIBLE	NEUTRAL
Carbonates, XXX	CORROSIVE	BASE
Casaron	POISON	NEUTRAL
Castor Oil	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Caulking compounds (CHECK FOR PROPOSITION 65 WARNING)	FLAMMABLE/POISON/SOLID WASTE	NEUTRAL
Caulking Compounds (non-latex)	FLAMMABLE SOLID	NEUTRAL
Caustic soda	CORROSIVE	BASE
Cess pool cleaners	CORROSIVE	BASE
Charcoal (BBQ and activated)	SPONTANEOUSLY COMBUSTIBLE	NEUTRAL
Charcoal (BBQ and activated) Powder carbon, graphite	SPONTANEOUSLY COMBUSTIBLE	NEUTRAL
Charcoal Lighter Fluid	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Chimney Cleaner	OXIDIZER	NEUTRAL
Chlorates, XXX *	OXIDIZER	NEUTRAL
Chlordane	POISON	NEUTRAL
Chloride of lime (calcium hypochlorite)	OXIDIZER	BASE
Chlorinated Isocyanurates (3)	OXIDIZER, pH ???	NEUTRAL
Chlorinated lime (calcium hypochlorite)	OXIDIZER	BASE
Chlorites, XXX	OXIDIZER, pH ???	NEUTRAL
Chloroacetic Acid	CORROSIVE	ACID
Chlorobromethane	POISON	NEUTRAL
Chloroform	POISON	NEUTRAL
Chromates	OXIDIZER, pH ???	NEUTRAL
Chrome polishes *	POISON/FLAMMABLE	NEUTRAL
Chromic acid (in sulfuric acid)	OXIDIZER	ACID
Chromium	POISON	NEUTRAL
Chromium Compounds	POISON	NEUTRAL
Chromium trioxide	OXIDIZER	ACID
contains "non-reactive" cyanide but can react with acids	POISON	NEUTRAL
Copper cleaners	CORROSIVE	ACID
Copper Oil (Fungicides)	POISON	NEUTRAL
Copper sulfate (may appear as blue crystalline rocks)	POISON	NEUTRAL
Copper naphthenate	POISON	NEUTRAL
Creosote	POISON	NEUTRAL
Cresol	CORROSIVE	ACID
Cresylic acid (Maybe poison if in parts dip)	CORROSIVE	ACID
Cupric chloride	CORROSIVE	ACID
Cupric nitrate	OXIDIZER	NEUTRAL
Cutting oil (non-chlorinated)	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Cyanides (keep away from acids Including acidic pesticide liq)	POISON (CYANIDE)	NEUTRAL

Cyanuric acid	CORROSIVE	ACID
Cyclohexane	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
D		
Dakin's solution (sodium hypochlorite)	OXIDIZER	BASE
Dalapon (herbicide)	CORROSIVE	ACID
DAP (caulk, glazing compd. Etc.)	FLAMMABLE	NEUTRAL
DDT	POISON	NEUTRAL
Deck cleaners (3)	OXIDIZER, pH ???	NEUTRAL
Deck cleaners * (2)	POISON (ISOCYANURATES)	NEUTRAL
DEET (bug repellent)	POISON	NEUTRAL
Denatured alcohol	FLAMMABLE	NEUTRAL
Diazinon ®	POISON	NEUTRAL
Dibenzoyl peroxide	ORGANIC PEROXIDE	NEUTRAL
Dichlor	OXIDIZER	NEUTRAL
Dichloroisocyanuric acid (3)	OXIDIZER, pH ???	NEUTRAL
Dichlorofluoromethane	POISON	NEUTRAL
Dichloromethane	POISON	NEUTRAL
Dichoroisocyanuric acid (2)	POISON (ISOCYANURATES)	NEUTRAL
Diesel fuel	FLAMMABLE	NEUTRAL
Dimethylamine salts	POISON	NEUTRAL
Dip It (Coffee pot cleaner)	OXIDIZER	NEUTRAL
Disinfectants *	POISON	NEUTRAL
Disinfectants*	CORROSIVE	ACID
Dog repellent	POISON	NEUTRAL
Drain cleaners * (Sodium hydroxide, lye)	CORROSIVE	BASE
Drain cleaners * (sulfuric acid, hydrogen chloride)	CORROSIVE	ACID
Drain openers (sodium hydroxide, lye)*	CORROSIVE	BASE
Drain openers (sulfuric acid)'	CORROSIVE	ACID
Drano (w/o sodium hypochlorite)	CORROSIVE	BASE
Driveway cleaners *	CORROSIVE	BASE
Dry cleaning fluids	FLAMMABLE	NEUTRAL
Duplicator fluid	FLAMMABLE	NEUTRAL
Dursban	POISON	NEUTRAL
Dynamite	EXPLOSIVES	NEUTRAL
E		
Enamel Base Paint	FLAMMABLE	NEUTRAL
Epoxy Paint	FLAMMABLE	NEUTRAL
Epoxy resins *	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Etch (metal,glass,concrete)	CORROSIVE	ACID
Etching solutions (metal,glass,concrete)	CORROSIVE	ACID
Ethanol	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Ether	FLAMMABLE	NEUTRAL
Ether XXX	FLAMMABLE	NEUTRAL
Ethylene Glycol	POISON	NEUTRAL
F		
Ferric chloride	CORROSIVE	ACID
Ferric chloride	CORROSIVE	ACID
Ferrocyanide	POISON (CYANIDE)	NEUTRAL
Ferrous sulfate	CORROSIVE	ACID
Fertilizers	POISON	NEUTRAL
Fertilizers *	CORROSIVE	ACID
Fertilizers *	OXIDIZER	NEUTRAL
Fiberglass resins (solidified)	FLAMMABLE SOLID	NEUTRAL
Fiberglass resins *	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Fingernail polish and remover	FLAMMABLE	NEUTRAL
Fire extinguishers (chlorinated non-pressurized"brass")	POISON	NEUTRAL
Fireworks	EXPLOSIVES	NEUTRAL
Flares	EXPLOSIVES	NEUTRAL
Flash Powders	EXPLOSIVES	NEUTRAL
Flea spray/dip/powder	POISON	NEUTRAL
Floor/Furniture Polish	FLAMMABLE	NEUTRAL
Fluorine	OXIDIZER	NEUTRAL
Fluoric acid (hydrofluoric acid)	CORROSIVE	ACID
Fluorine monohydride (hydrofluoric acid)	CORROSIVE	ACID
Flux, soldering flux (zinc chloride)	CORROSIVE	ACID
Formaldehyde Solution	FLAMMABLE	NEUTRAL
Formaldehyde solution (but incompatible with acids)	POISON	NEUTRAL
Formaldehyde, solid (in resin glue)	FLAMMABLE SOLID	NEUTRAL
Formalin (formaldehyde solutions - may be 3(8) see below	FLAMMABLE/POISON	NEUTRAL
Formic acid (1)	CORROSIVE	ACID
Freon	POISON	NEUTRAL
Fumex (aluminum phosphide)	WATER REACTIVE	NEUTRAL
Fumitoxin (aluminum phosphide)	WATER REACTIVE	NEUTRAL
Fuming nitric acid	OXIDIZER	ACID
Fungicides *	POISON	NEUTRAL
G		
Gasoline	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Gastoxin (aluminum phosphide)	WATER REACTIVE	NEUTRAL
Glass etch (hydrofluoric acid EXTREME CAUTION)	CORROSIVE	ACID

Glues (epoxy, airplane, white)	FLAMMABLE SOLID	NEUTRAL
Glues *	FLAMMABLE	NEUTRAL
Gluteraldehyde (Radiator sealant)	POISON	NEUTRAL
Gopher Gasser *	WATER REACTIVE	NEUTRAL
Gopher Killer	POISON	NEUTRAL
Gopher Killer (containing strychnine)	POISON	NEUTRAL
Graphite powder	SPONTANEOUSLY COMBUSTIBLE	NEUTRAL
Grease	FLAMMABLE SOLID	NEUTRAL
Guanidine nitrate		NEUTRAL
Gunpowder	EXPLOSIVES	NEUTRAL
H		
Hair Coloring *	OXIDIZER	NEUTRAL
Hair Dye*	OXIDIZER	NEUTRAL
Halane	OXIDIZER	NEUTRAL
Hexane	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Household cleaners *	CORROSIVE	BASE
Household Waxes	FLAMMABLE	NEUTRAL
HTH (calcium hypochlorite)	OXIDIZER	NEUTRAL
Hy-Chlor (calcium hypochlorite)	OXIDIZER	NEUTRAL
Hydrochloric Acid	CORROSIVE	ACID
Hydrofluoric acid (EXTREME CAUTION)	CORROSIVE	ACID
Hydrogen chloride (hydrochloric acid)	CORROSIVE	ACID
Hydrogen fluoride (EXTREME CAUTION)	CORROSIVE	ACID
Hydrogen peroxide (incompatible with permanganates)	OXIDIZER	NEUTRAL
Hydroquinone (photo chem)	POISON	NEUTRAL
I		
Industrial pool chemical *	ORGANIC PEROXIDE	NEUTRAL
Industrial pool sanitizer *	ORGANIC PEROXIDE	NEUTRAL
Insect sprays	POISON	NEUTRAL
Insecticides	POISON	NEUTRAL
Insta-Stik (diisocyanate)	POISON	NEUTRAL
Iodine	OXIDIZER	NEUTRAL
Iodine (liquid or solid crystals)	CORROSIVE	ACID
Isocyanates (found in industrial hardeners, activators)	POISON	NEUTRAL
IsocyanUrates	OXIDIZER, pH ???	NEUTRAL
Isopropyl alcohol	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Isopropyl ether	ORGANIC PEROXIDE	NEUTRAL
J		
Javelle water (sodium hypochlorite)	OXIDIZER	NEUTRAL
Javex (sodium hypochlorite)	OXIDIZER	NEUTRAL
K		
Kerosene	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Ketone *	FLAMMABLE	NEUTRAL
L		
Lacquer paint (unsolidified)	FLAMMABLE	NEUTRAL
Lacquer thinner	FLAMMABLE	NEUTRAL
Latex paint	RECYCLEABLE MATERIAL	NEUTRAL
Laundry bluing	POISON	NEUTRAL
Lead acid batteries	CORROSIVE	ACID
Lead arsenate	POISON	NEUTRAL
Lead Compounds	POISON	NEUTRAL
Lead compounds (old pottery glaze)	POISON	NEUTRAL
Lead nitrate	OXIDIZER	NEUTRAL
Lice powder	POISON	NEUTRAL
Lime	CORROSIVE	BASE
Lime chloride (calcium hypochlorite)	OXIDIZER	NEUTRAL
Lindane ®	POISON	NEUTRAL
Linseed oil	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Liquid butane	FLAMMABLE	NEUTRAL
Liquid sandpaper *	FLAMMABLE	NEUTRAL
Liquid waxes *	FLAMMABLE	NEUTRAL
Litharge	POISON	NEUTRAL
Lithium hypochlorite	OXIDIZER	NEUTRAL
Lithium metal	WATER REACTIVE	NEUTRAL
Lithium metal (in oil) Orange/Red color = explosive	WATER REACTIVE	NEUTRAL
Lithium peroxide	OXIDIZER	BASE
Litho	OXIDIZER	BASE
Losantin (calcium hypochlorite)	OXIDIZER	BASE
Lye	CORROSIVE	BASE
Lye (sodium hydroxide)	CORROSIVE	BASE
M		
Magnesium (see type) *	FLAMMABLE SOLID	NEUTRAL
Magnesium, metal *	FLAMMABLE SOLID	NEUTRAL
Magnesium nitrate	OXIDIZER	NEUTRAL
Magnesium perchlorate	OXIDIZER	NEUTRAL
Magnesium peroxide	OXIDIZER	BASE
Malathion	POISON	NEUTRAL
Malathion	POISON	NEUTRAL
Marine "anti-fouling" paint	POISON	NEUTRAL

Marine Flares	EXPLOSIVES	NEUTRAL
Mastics	FLAMMABLE SOLID	NEUTRAL
Mercury	POISON	NEUTRAL
Mercury (elemental, metallic)	CORROSIVE	ACID
Mercury compounds (i.e. pesticide)	POISON	NEUTRAL
Metal cleaners *	CORROSIVE	ACID
Metal dust	WATER REACTIVE	NEUTRAL
Metal dust *	WATER REACTIVE	NEUTRAL
Metal polish *	CORROSIVE	BASE
Metal polish *	FLAMMABLE	NEUTRAL
Metalddehyde	FLAMMABLE SOLID	NEUTRAL
Methanol	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Methoxychlor	POISON	NEUTRAL
Methyl ethyl ketone	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Methyl ethyl ketone peroxide	ORGANIC PEROXIDE	NEUTRAL
Methyl isobutyl ketone peroxide	ORGANIC PEROXIDE	NEUTRAL
Methylene chloride	POISON	NEUTRAL
Metyl alcohol	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Mildew remover X-14 (calcium hypochlorite)	OXIDIZER	NEUTRAL
Milton (sodium hypochlorite)	OXIDIZER	NEUTRAL
Mineral Spirits	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Mole killer	POISON	NEUTRAL
Moss control (zinc/ferric chloride)	CORROSIVE	ACID
Moth balls	FLAMMABLE SOLID	NEUTRAL
Moth crystals	POISON	NEUTRAL
Mrthylene chloride (paint stripper, carb clean)	POISON	NEUTRAL
Muriatic acid	CORROSIVE	ACID
N		
Nail Polish and Remover	FLAMMABLE	NEUTRAL
Naptha	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Napthalene	FLAMMABLE SOLID	NEUTRAL
Napthalene (moth balls)	FLAMMABLE SOLID	NEUTRAL
Naval jelly	CORROSIVE	ACID
Neats foot oil	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Neem oil (environmentally friendly bug spray)	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Nickel nitrate	OXIDIZER	NEUTRAL
Nitrates, XXX	OXIDIZER	NEUTRAL
Nitrates/nitrites	OXIDIZER	NEUTRAL
Nitric acid (<70%)	CORROSIVE	ACID
Nitric acid (>70%)	OXIDIZER	ACID
Nitrites, XXX	OXIDIZER	NEUTRAL
Nitroglycerin	EXPLOSIVES	NEUTRAL
O		
Octachlor (Chlordane)	POISON	NEUTRAL
Oil base paint	FLAMMABLE	NEUTRAL
Oil base paints	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Oil soaked absorbent (bagged)	FLAMMABLE SOLID	NEUTRAL
Oil soaked rags (bagged)	FLAMMABLE SOLID	NEUTRAL
Oils	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Oils (petroleum)	FLAMMABLE	NEUTRAL
Old pottery glaze (lead compounds)	POISON	NEUTRAL
Organic solvents	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Orthodichlorobenzene (moth balls,dog repel, some drain openers)	POISON	NEUTRAL
Outdoor furniture cleaners *	CORROSIVE	BASE
Oven cleaners *	CORROSIVE	BASE
Oxalic acid (1)	CORROSIVE	ACID
Oxygen pellets (Barium or Sodium chlorate)	OXIDIZER, pH ???	NEUTRAL
P		
Paint pigments	FLAMMABLE	NEUTRAL
Paint stripper *	CORROSIVE	BASE
Paint strippers (non-chlorinated)	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Paint thinners	FLAMMABLE	NEUTRAL
Paradichlorobenezene	FLAMMABLE SOLID	NEUTRAL
Paradichorobenzene (mothballs)	FLAMMABLE SOLID	NEUTRAL
Paraffin oil	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Paraffin wax	FLAMMABLE SOLID	NEUTRAL
Paraformaldehyde	FLAMMABLE SOLID	NEUTRAL
Penetrating grout sealers	CORROSIVE	BASE
Penetrating grout sealers *	CORROSIVE	BASE
Pentachlorophenol	POISON	NEUTRAL
Perborates	OXIDIZER, pH ???	NEUTRAL
Percarbonates	OXIDIZER, pH ???	NEUTRAL
Perchlorates, XXX	OXIDIZER, pH ???	NEUTRAL
Perchlorethylene	POISON	NEUTRAL
Perchloric acid (Oxidizing acid)	OXIDIZER	ACID
Perchloroethylene	POISON	NEUTRAL
Perchloron (calcium hypochlorite)	OXIDIZER	NEUTRAL
Perfume	FLAMMABLE	NEUTRAL
Permanganate, XXX	OXIDIZER, pH ???	NEUTRAL

Peroxides, XXX	OXIDIZER	NEUTRAL
Peroxyacetic acid (indust. pool chemical/sanitizer)	ORGANIC PEROXIDE	NEUTRAL
Peroxyhydrate, XXX	OXIDIZER, pH ???	NEUTRAL
Persulfates, XXX	OXIDIZER, pH ???	NEUTRAL
Pesticides	POISON	NEUTRAL
Petroleum distillates	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Petroleum oil ('spray oil for insects)	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Pharmaceuticals	POISON	NEUTRAL
Phosphoric acid	CORROSIVE	ACID
Phosphorothioate	POISON	NEUTRAL
Phosphorus, elemental (under water)	SPONTANEOUSLY COMBUSTIBLE	NEUTRAL
Phosphorus, red	FLAMMABLE SOLID	NEUTRAL
Phosphorus, white	SPONTANEOUSLY COMBUSTIBLE	NEUTRAL
Phosphorus, yellow	SPONTANEOUSLY COMBUSTIBLE	NEUTRAL
Phostoxin (aluminum phosphide)	WATER REACTIVE	NEUTRAL
Photo developers *	CORROSIVE	BASE
Photo developers*	CORROSIVE	BASE
Photo fixers (pH test) *	CORROSIVE	ACID
Picric acid (EXTREMELY DANGEROUS IF DRY)	EXPLOSIVES	NEUTRAL
Piochlor (sodium hypochlorite)	OXIDIZER	NEUTRAL
Pittchlor (calcium hypochlorite)	OXIDIZER	NEUTRAL
Plant food *	POISON	NEUTRAL
Plant food *	OXIDIZER	NEUTRAL
Plastic model cement	FLAMMABLE	NEUTRAL
Plastic roof cement	FLAMMABLE	NEUTRAL
Plumber's putty (non-latex)	FLAMMABLE SOLID	NEUTRAL
Polyurethane cement	FLAMMABLE	NEUTRAL
Polyurethane paint	FLAMMABLE	NEUTRAL
Pool acid	CORROSIVE	ACID
Pool chemical sanitizer *	ORGANIC PEROXIDE	NEUTRAL
Pool chlorinators (3)	OXIDIZER, pH ???	NEUTRAL
Pool chlorinators * (2)	POISON (ISOCYANURATES)	NEUTRAL
Pool pH Increasers	CORROSIVE	BASE
Potassium, Metal	WATER REACTIVE	NEUTRAL
Potassium biodate	OXIDIZER	NEUTRAL
Potassium bromate	OXIDIZER	NEUTRAL
Potassium chlorate	OXIDIZER	NEUTRAL
Potassium cyanide (keep away from acids/acidic toxics)	POISON	NEUTRAL
Potassium dichloroisocyanurate	OXIDIZER	NEUTRAL
Potassium dichloro-s-triazinetrione	POISON (ISOCYANURATES)	NEUTRAL
Potassium dichloro-s-triazinetrione	OXIDIZER, pH ???	NEUTRAL
Potassium dichromate	OXIDIZER	NEUTRAL
Potassium ferricyanide	POISON (CYANIDE)	NEUTRAL
Potassium ferrocyanide	POISON (CYANIDE)	NEUTRAL
Potassium hydroxide	CORROSIVE	BASE
Potassium nitrate	OXIDIZER	NEUTRAL
Potassium permanganate (separate from hydrogen peroxide)	OXIDIZER	NEUTRAL
Potassium persulfate	OXIDIZER	ACID
Potassium superoxide	OXIDIZER	BASE
Potassium salts of fatty acids pH>10	CORROSIVE	BASE
Potassium sulfide	WATER REACTIVE	NEUTRAL
Potassium sulfide	WATER REACTIVE	NEUTRAL
Potassium trichloro-s-triazinetrione (2)	POISON (ISOCYANURATES)	NEUTRAL
Potassium trichloro-s-triazinetrione (3)	OXIDIZER, pH ???	NEUTRAL
Potassium, elemental	WATER REACTIVE	NEUTRAL
Powder resin glue	FLAMMABLE SOLID	NEUTRAL
Powder resin glue (paraformaldehyde)	FLAMMABLE SOLID	NEUTRAL
powdered brush cleaners Siliconates	CORROSIVE	BASE
Powdered brush cleaners soda ash	CORROSIVE	BASE
Power steering fluid	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Primers	FLAMMABLE	NEUTRAL
Pruning paint	POISON	NEUTRAL
Pyrethrins	POISON	NEUTRAL
R		
Radiator sealant (Gluteraldehyde)	POISON	NEUTRAL
Rags soaked in flammable liquid	FLAMMABLE SOLID	NEUTRAL
Raid fumigator (metal can with water reactive bottom strip)	WATER REACTIVE	NEUTRAL
Raney nickel (drug lab)	SPONTANEOUSLY COMBUSTIBLE	NEUTRAL
Rat poison	POISON	NEUTRAL
Red phosphorus (clan lab), matches	FLAMMABLE SOLID	NEUTRAL
Resin activators	ORGANIC PEROXIDE	NEUTRAL
Roach killer	POISON	NEUTRAL
Road flares (fusees)	FLAMMABLE SOLID	NEUTRAL
Rochelle salts	POISON	NEUTRAL
Rock salt (sodium chloride)	POISON	NEUTRAL
Roof patch	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Roofing cement	FLAMMABLE	NEUTRAL
Roofing tar	FLAMMABLE SOLID	NEUTRAL
Rose dust	POISON	NEUTRAL

Round up	POISON	NEUTRAL
Rug/upholstery cleaner	FLAMMABLE	NEUTRAL
Rust remover (hydrofluoric acid EXTREME CAUTION)	CORROSIVE	ACID
S		
Safer Paint Remover (Dibasic Acid Esters)	CORROSIVE	ACID
Sealers	FLAMMABLE	NEUTRAL
Sevin	POISON	NEUTRAL
Sheep dip *	CORROSIVE	ACID
Sheep dip *	POISON	NEUTRAL
Shellac thinner	FLAMMABLE	NEUTRAL
Signal flares	EXPLOSIVES	NEUTRAL
Silicone sprays	FLAMMABLE	NEUTRAL
Silver nitrate	OXIDIZER	NEUTRAL
Silver polishes *	POISON/FLAMMABLE	NEUTRAL
Silvex	POISON	NEUTRAL
Smoke signals	EXPLOSIVES	NEUTRAL
Snail/slug killer	POISON	NEUTRAL
Soda ash	CORROSIVE	BASE
Sodium bicarbonate	CORROSIVE	BASE
Sodium bisulfate	CORROSIVE	ACID
Sodium bisulfite	CORROSIVE	ACID
Sodium borate	CORROSIVE	BASE
Sodium borohydride	WATER REACTIVE	NEUTRAL
Sodium carbonate	CORROSIVE	BASE
Sodium carbonate peroxide	OXIDIZER	BASE
Sodium chlorate (Oxygen pellets)	OXIDIZER, pH ???	NEUTRAL
Sodium chloride	POISON	NEUTRAL
Sodium chlorite	OXIDIZER	BASE
Sodium chromate	OXIDIZER	NEUTRAL
Sodium cyanide (keep away from acids/acidic toxics) PG	POISON (CYANIDE)	NEUTRAL
Sodium dichlor	OXIDIZER	NEUTRAL
Sodium dichloroisocyanurate (3)	OXIDIZER	NEUTRAL
Sodium dichloro-s-triazinetrione	OXIDIZER	NEUTRAL
Sodium dichloro-s-triazinetrione (2) (3)	OXIDIZER, pH ???	NEUTRAL
Sodium dichromate	OXIDIZER	NEUTRAL
Sodium ferricyanide	POISON (CYANIDE)	NEUTRAL
Sodium ferrocyanide	POISON (CYANIDE)	NEUTRAL
Sodium fluoride	POISON	NEUTRAL
Sodium hydrosulfite (rust remover) White/yellow phosphorus	SPONTANEOUSLY COMBUSTIBLE	NEUTRAL
Sodium hydroxide	CORROSIVE	BASE
Sodium hypochlorite		NEUTRAL
Sodium, metal	WATER REACTIVE	NEUTRAL
Sodium metasilicate	CORROSIVE	BASE
Sodium nitrate	OXIDIZER	NEUTRAL
Sodium nitrite	OXIDIZER	NEUTRAL
Sodium orthosilicate	CORROSIVE	BASE
Sodium perborate	OXIDIZER	NEUTRAL
Sodium perborate tetrahydrate	OXIDIZER	NEUTRAL
Sodium perchlorate monohydrate	OXIDIZER	NEUTRAL
Sodium permanganate	OXIDIZER	NEUTRAL
Sodium peroxide	OXIDIZER	BASE
Sodium persulfate	OXIDIZER	NEUTRAL
Sodium silicate	CORROSIVE	BASE
Sodium siliconates	CORROSIVE	BASE
Sodium sulfide (anhydrous)	SPONTANEOUSLY COMBUSTIBLE	NEUTRAL
Sodium trichloroisocyanurate (3)	OXIDIZER	NEUTRAL
Sodium trichloro-s-triazinetrione (2) (3)	OXIDIZER, pH ???	NEUTRAL
Soldering flux*	CORROSIVE	ACID
Soot remover	OXIDIZER	NEUTRAL
Spot remover	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Stemo	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Stop bath	CORROSIVE	ACID
Stop bath *	CORROSIVE	ACID
Stove oil	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Strontium chlorate	OXIDIZER	NEUTRAL
Strontium nitrate	OXIDIZER	NEUTRAL
Strontium peroxide	OXIDIZER	NEUTRAL
Strychnine	POISON	NEUTRAL
Stump killer	OXIDIZER	NEUTRAL
Stump killer *	OXIDIZER	NEUTRAL
Styrene	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Sulfides, XXX	POISON	NEUTRAL
Sulfur	POISON	NEUTRAL
Sulfur (solid), Flowers of	FLAMMABLE SOLID	NEUTRAL
Sulfur in pesticides. For Sulfur solids (i.e "flowers of") see 4.1	POISON	NEUTRAL
Sulfuric Acid, concentrated	OXIDIZER	ACID
Sulfuric Acid	CORROSIVE	ACID
Sulpheric acid	CORROSIVE	ACID
Systemic pesticides	POISON	NEUTRAL

T		
Tar remover	POISON	NEUTRAL
Tetrachloroethane	POISON	NEUTRAL
Thinner	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Thionyl chloride	WATER REACTIVE	NEUTRAL
Tile cement	FLAMMABLE	NEUTRAL
Tile putty	FLAMMABLE SOLID	NEUTRAL
Tire black	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Toilet Bowl Cleaner with Bleach	OXIDIZER	BASE
Toilet bowl cleaners (hazard varies) *		NEUTRAL
Toilet Bowl Cleaners *	CORROSIVE	ACID
Toilet Bowl Cleaners *	CORROSIVE	BASE
Toilet Tabs * (2) (3)		NEUTRAL
Toluene	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Toluol (toluene)	FLAMMABLE	NEUTRAL
Transmission fluid	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Tree root killer *	ORGANIC PEROXIDE	NEUTRAL
Trichlor	OXIDIZER	ACID
Trichloroisocyanuric acid (2) (3)	OXIDIZER, ACID, ISOCYANURATES	ACID
Trinitrophenol	EXPLOSIVES	NEUTRAL
Trioxane	POISON	NEUTRAL
Trisodium phosphates	CORROSIVE	BASE
TSP (tri sodium phosphate)	CORROSIVE	BASE
Ttri sodium phosphate	CORROSIVE	BASE
Tung oil	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Turpentine	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
U		
Uranium Nitrate	RADIOACTIVE	NEUTRAL
V		
Varnish	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Velsicol 1068 (Chlordane) ®	POISON	NEUTRAL
Vinegar	CORROSIVE	ACID
Vinyl toluene	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
W		
Wallpaper cement	FLAMMABLE	NEUTRAL
WD-40	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Weed and Grass Killer *	POISON	NEUTRAL
Weed Killer (with chlorates, borate or chlorite) *	OXIDIZER	NEUTRAL
White Gas	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Window Cleaners *	CORROSIVE	BASE
Windshield Wiper Fluid *	POISON	NEUTRAL
Windshield Wiper Fluid *	FLAMMABLE	NEUTRAL
Wood Alcohol	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Wood Bleach (Hydrogen Peroxide)	OXIDIZER	NEUTRAL
Wood bleach part A (sodium hydroxide)	CORROSIVE	BASE
Wood bleach* (oxalic acid)	CORROSIVE	ACID
Wood filler	FLAMMABLE	NEUTRAL
Wood preservatives -(Non - penta, copper/zinc naphenate)	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Wood putty	FLAMMABLE SOLID	NEUTRAL
Wood renewers, brighteners'	CORROSIVE	BASE
Wood stain	FLAMMABLE	NEUTRAL
X		
Xylene	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Xylol (Xylene)	FLAMMABLE/COMBUSTIBLE "PRM" - 3	NEUTRAL
Z		
Zinc chloride (Flux, moss control)	CORROSIVE	ACID
Zinc chlorate	OXIDIZER	NEUTRAL
Zinc dust	WATER REACTIVE	NEUTRAL
Zinc naphenate	POISON	NEUTRAL
Zinc peroxide	OXIDIZER	NEUTRAL
Zinc phosphide (gopher/mole gas)	WATER REACTIVE	NEUTRAL
Zinc powder	WATER REACTIVE	NEUTRAL
zinc sulfate (moss control)	CORROSIVE	ACID

DISCLAIMER: This document is intended as a guide for basic classification. Caution should be used since exceptions to these classifications are possible. If there is any doubt as to the classification, ingredients, or for multiple ingredients, store unknown in a compatible container by itself and seek knowledgeable assistance

* Check Ingredients, Most common listed.

(1) Organic acids separate from oxidizing acids.

(2) Keep separate from hypochlorites. May result in fire.

(3) Special hazards keep separate from hypochlorites, keep dry to avoid heat and toxic gas generation, contact can result in fires

pH ?? - Check pH of material









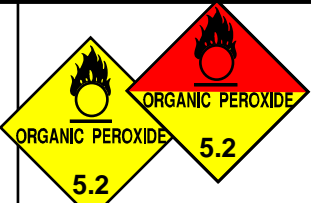
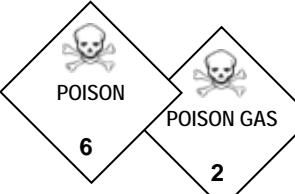
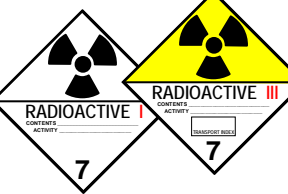

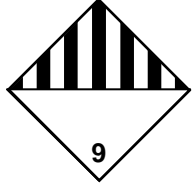





XXX – Various first name ingredients

® = Restricted Pesticide

Hazardous Materials/Waste Labels

Danger - Use Caution

Symbols on containers may indicate hazardous waste inside.
Labels, symbols, & text can vary. Note: only partial label may be present.

 <p>Explosives flares, ammunition, fireworks, dynamite, blasting caps, TNT</p>	 <p>Nonflammable gas carbon dioxide, sulfur dioxide, ammonia gas</p>	 <p>Flammable gas propane, butane, Acetylene, LPG</p>	 <p>Flammable liquid gasoline, thinner, solvents, acetone</p>	
 <p>Flammable solid magnesium-aluminum powder, charcoal</p>	 <p>Dangerous, When wet calcium carbide, Sodium metal</p>	 <p>Spontaneously combustible phosphorus</p>	 <p>Oxidizer pool chlorine, ammonium nitrate fertilizer, hydrogen peroxide</p>	 <p>Organic peroxide ethers, MEK peroxide, benzoyl peroxide</p>
 <p>Poison pesticides, arsine, phosgene, cyanide, dichloromethane</p>	 <p>Radioactives I, II, III smoke alarm exit signs, gauges</p>	 <p>Corrosive Acid lead acid battery, muriatic acid Base/Alkaline lye, ammonia, sodium hydroxide</p>	 <p>Misc. asbestos, lithium batteries, dry ice</p>	
 <p>Irritant tear gas (Obsolete term)</p>	 <p>Hazardous waste</p>	 <p>PCB light ballasts, capacitor</p>	 <p>ORM-D aerosols, consumer products</p>	 <p>Infectious medical waste, Sharps</p>

Waste Classification Tests

Flammables: A waste is a flammable hazardous waste if it has a flash point below 140⁰F. Each sample is screened by exposing a small sample to an open flame on a spatula for 1 to 3 seconds. If the sample sustains combustion, then it is classified as a flammable liquid or solid.

Corrosives (Acids and Bases): Using pH paper, liquids are tested by immersion and comparing the strip to a color chart. For solids, add equal amounts of water and then test. If the pH is greater than 10, then classify as a base. If the pH is less than 4, the material is classified as an acid. In between, the waste is considered inert.

Reactives: If, upon addition to water, the sample reacts with the evolution of heat, gas, or violent reaction, the sample is considered reactive.

Oxidizers: Oxidizers may be acidic, basic, or neutral pH. Oxidation capability can be determined with potassium iodide [KI] test strips. A drop of hydrochloric acid reagent is added to the end of the strip. A drop of solution is added to the wet end of the paper. Note the color change: Blue, purple, or black indicates an oxidizer. Oxidizers should be stored separately from non-oxidizers in the appropriate area.

Information gathered during the waste screening should be recorded on the item which is then placed in the appropriate storage area corresponding to its hazard class.

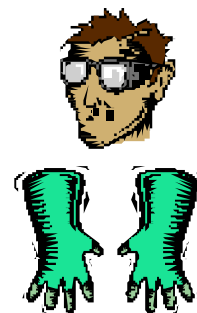
Negative test results in all categories for unknowns will default to the toxic classification.

NOTE: Only personnel properly trained should attempt these procedures. All safety precautions should be observed. Personnel use these procedures at their own risk. Sweetser & Associates is providing these procedures for information purposes and is not responsible for any injury or damage resulting from these procedures.

Waste Classification— Safety Precautions

General Precautions

1. Respect the chemicals
2. DO NOT Eat, Drink, Inhale any chemicals
3. Work away from flames or ignition sources
4. Wear eye, hand, and body protection
5. Keep test tube in rack during testing
6. Only use small amounts of unknown
7. Label container with any testing information



PRECAUTIONS –  IMMEDIATELY AND LEAVE AREA If you detect:

- A. Fumes or smells – Possible inhalation or fire hazard
- B. Crystals on surface – potential shock sensitive
- C. Reactions e.g. dissolving materials, bubbling
- D. If container can not be opened safely, carefully place container in tub and store separately from other chemicals

Classification Procedure

1. Examine integrity of container
 - A. Leaking
 - B. If container is in a bag, container may be leaking or spilled
 - C. If container is bulging may indicate under pressure. Opening may spray unknown
2. Read container label
 - A. Ingredients, usage, or cleanup instructions
 1. Acid in name store with Acid
 2. Water = not usually flammable
 3. Nonflammable cleaners are usually bases, some are acids
 - B. Warnings
 1. Keep away from flame = FLAMMABLE
 2. Causes burns, skin irritation = Corrosive
3. Examine Container Type
 - A. Brown bottle = possible pesticide or light-sensitive (e.g. photochemical)
 - B. Glass stopper = possible old laboratory chemical
 - C. Aerosols are usually Flammables, Oven and window cleaners = Bases
4. Prepare work area to test sample
 - A. Cover work area
 - B. Remove all flames
 - C. Keep container closed when not in use - Only open container long enough to take sample portion



UNKNOWNNS

If substance is still unknown, place material in separate container and label with a ? .



pH Test for Corrosivity



Definition

pH is a measure of the acidity or alkalinity of a substance. This is measured on a scale from 0 (strong acid) to 14 (strong base/alkaline). A pH of 7 is neutral.

Supplies

- pH Paper
- Pipette/Dropper



Safety Precautions

- DO NOT Insert Test Strip into container
- Place liquid in lid, test tube, or other container. Do not use the container lid since contamination or reactions may occur.
- Watch for reactions that can indicate a more dangerous chemical. Possible reactions that indicate a water reactive chemical are - bubbles, foaming, and smoke.
- Colored liquids may give false readings. Observe fringe of pH paper for reading.

pH Paper instructions

Liquid Sample	Solid Sample
A. Open container slowly	A. Open container slowly
B. Place amount (teaspoon) into lid, test tube or empty container	B. Scoop small amount (teaspoon) into empty container
C. Touch pH paper to sample for 3 seconds	C. Moisten pH paper with water
D. Check pH against chart	D. Touch pH paper to sample for 3 seconds
E. Close container	E. Check pH against chart
	F. Close container

pH Scale for Compatibility Classification

pH 0	1	2	3	4	5	6	7	8	9	10	11	12	13
0—4 Acid Corrosive					5—9 Neutral Flammable/Poison					10—14 Base/Caustic Corrosive			

STORAGE NOTE: Store Acids separate from Base/Caustics



Water Solubility Test



Definition

This test is designed to test unknowns for reaction with water. Positive results can indicate a range of hazard classes from water reactives to pesticides to corrosives. Extreme care is needed for this test to prevent injury.

Supplies

- Test tube
- Pipette/Dropper



Safety Precautions

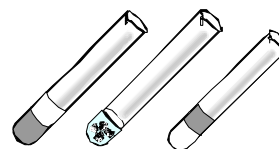
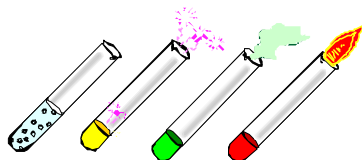
- Use only small amounts of unknown to minimize adverse reactions!
- ALWAYS Add chemical to water not water to chemical!
- Gases may ignite – KEEP AWAY FROM FLAMES

Instructions

Liquid Sample	Solid Sample
A. Add about 1 inch of water to tube B. Open container slowly C. Place amount (1/2 inch) into test tube or empty container D. Close container E. Observe Reaction	A. Add about 1 inch of water to tube B. Open container slowly C. Scoop small amount (pea size) into test tube D. Close container E. Agitate water with pipette to attempt to dissolve unknown F. Observe Reaction

Results and Possible Hazard Class or Substance

Reacts	Emulsion (milky suspension)	Sinks or Floats
Violent = Water Reactive Hot = Acid/Base Cold = Base/Oxidizer Boils = Strong Base/Acid Soluble = check pH	Pesticide/Poison	Neutral/Flammable Liquid sinks = Chlorinated solvent





Oxidizer Test



Definition

An Oxidizer reacts with other materials or produces oxygen. Oxidizers are potentially fire or explosion hazards – USE EXTREME CARE. Metal “rusting” is a common example of oxidizing reaction.

Supplies

- Potassium Iodide (KI) Paper
- 33% Hydrochloric Acid (HCl)
- Test tube
- Container
- Pipette/Dropper



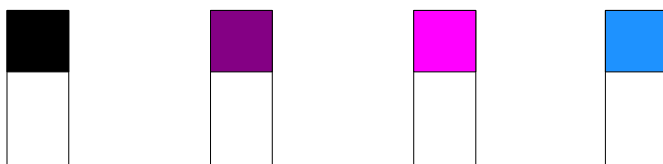
CAUTION

A reaction with the acid indicates possible water reactive or base (e.g. Calcium carbonate)

Instructions

1. Add 2 drops of HCl to the Oxidizer (KI) Test Paper
2. Using pipette (for liquids) or small sample (for solids), place unknown on paper.
3. Watch for adverse reaction
4. Color change

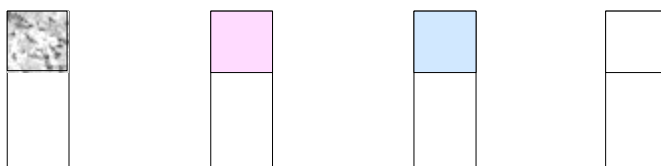
OXIDIZER



- A. Turns black immediately, then changes to white = very strong oxidizer.
- B. Black, purple, or blue/black = oxidizer.
- C. Slow change or faint color = maybe very weak oxidizer.

NON-OXIDIZER

- D. Small black spots or light purple color is a negative test.
- E. Other colors are typically indications of highly reactive substances or strong acids or bases. **Use caution with further tests.**



Cleanup and Disposal Instructions

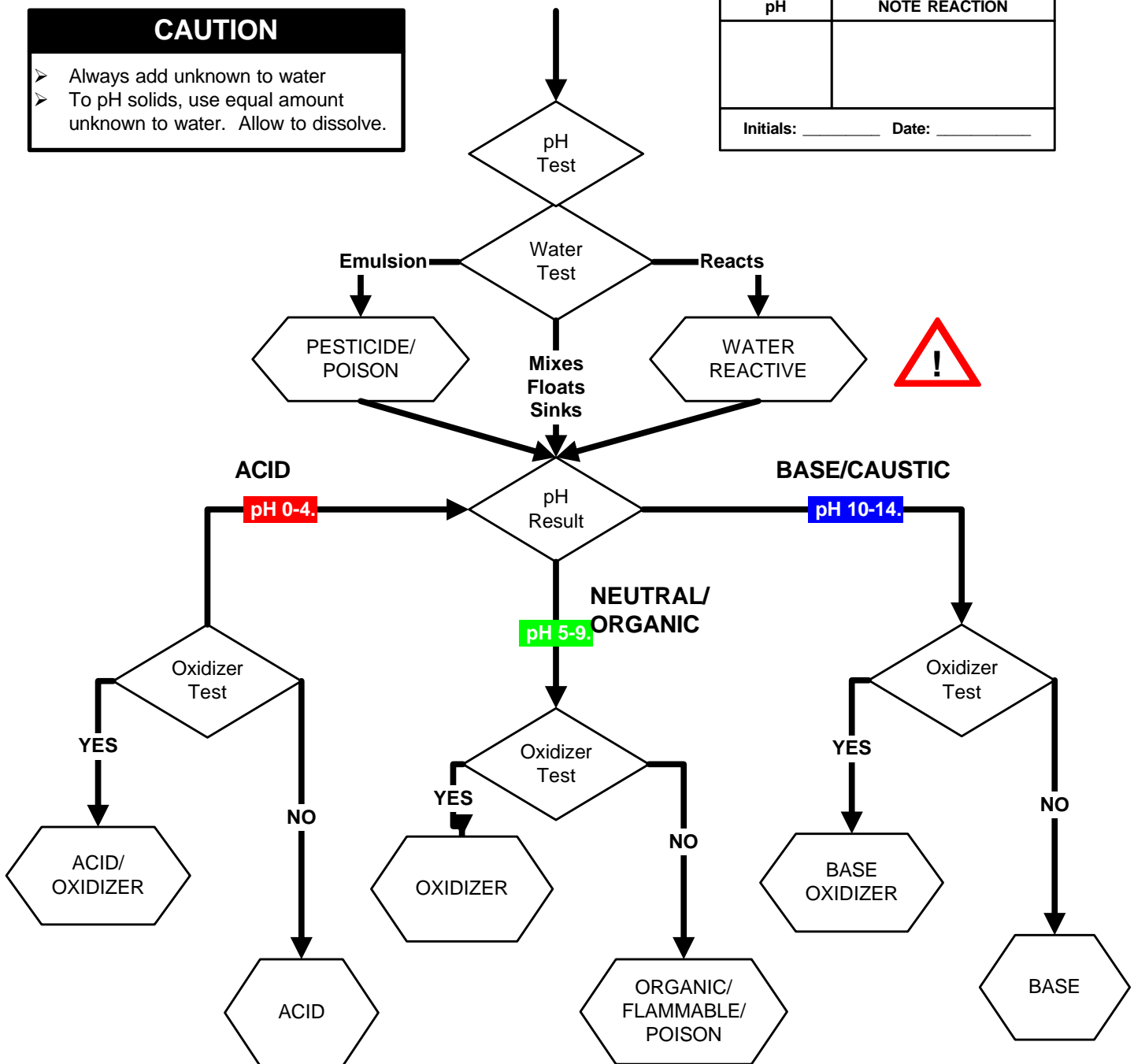
1. Prepare three disposal containers (e.g. 1-liter soda bottles) by labeling
 - A. Acid Sampling Waste
 - B. Base Sampling Waste
 - C. Flammable/Poison Sampling Waste
2. Place test tube into appropriate waste container. Empty pipets can be disposed of as non-hazardous. If necessary, retest waste and sampling equipment.
3. Place tested waste into appropriate hazardous waste storage location. Ensure sample is labeled with test information and attach waste characterization form to container.
4. Place waste container in appropriate hazardous waste storage location.
5. Clean-up testing area (if necessary, wash down area)

WASTE CLASSIFICATION CHART

CAUTION

- Always add unknown to water
- To pH solids, use equal amount unknown to water. Allow to dissolve.

pH	NOTE REACTION
Initials: _____ Date: _____	



WASTE CLASSIFICATION CHART

CAUTION

- Always add unknown to water
- To pH solids, use equal amount unknown to water. Allow to dissolve.

Sample

pH	NOTE REACTION
2	Heats up
Initials: <u>LS</u>	Date: = <u>2/30/00</u>

