

## RED SAFETY CANS USED FOR WASTE COLLECTION

The following types of organic compounds can be placed in the corresponding red safety cans (log in the chemical name(s) and quantity(s) on the log sheet each time you add to the can(s)):

- "A" -- "CHO" Chemicals** (Carbon, Hydrogen &/or Oxygen - Organic) such as:
- \* Aromatic Hydrocarbons - Benzene, Toluene, Xylenes
  - \* Aliphatic Hydrocarbons - Hexanes, Heptane, Iso-octane, Skelly B, Petroleum Ether, Petroleum Naphtha, etc.
  - \* Alcohols - Ethanol, Methanol, Isopropanol, Butanol, etc.
  - \* Ethers - Ethyl Ether, Dioxane, Tetrahydrofuran
  - \* Glycol Ethers - Cellosolve Solvent
  - \* Ketones - Acetone, Methyl Ethyl Ketone, etc.
  - \* Aldehydes - Formaldehyde, Acetaldehyde
  - \* Phenol
  - \* Acetates - Ethyl Acetate, Butyl Acetate, etc
  - \* Water (as a contaminant)
  - \* Glycols - Ethylene Glycol, etc.
- "B" -- Nitrogenated Hydrocarbons** such as:
- \* Acetonitrile, Aniline, Nitrobenzene
  - \* Amines, Amides (not very toxic ones)
  - \* Nitrogenated Hydrocarbon(s) mixed with "CHO" Compound(s) [ $A + B = B$ ]
  - \* Water (as a contaminant)
- "C" -- Halogenated Hydrocarbons** such as:
- \* Methylene Chloride, Chloroform, Carbon Tetrachloride, Methyl Chloride, 1,1,1-Trichloroethane, Chlorobenzene
  - \* Corresponding Halogenated Hydrocarbons (e.g. Bromoform) (Chlorine, Bromine, Iodine only)
  - \* Halogenated Hydrocarbon mixed with a "CHO" &/or a Nitrogenated Hydrocarbon [ $(A \text{ \&/or } B) + C = C$ ]
  - \* Water (as a contaminant)

The following types of chemicals are **NOT** to be placed in these cans (store in a separate container that is provided by your lab):

- \*  $A + B \neq A$  (this goes into B)
- \*  $(A \text{ \&/or } B) + C \neq A \text{ or } B$  (this goes into C)
- \* Sulfur containing Compounds - e.g. Sulfides, Mercaptans, Sulfates, Carbon Disulfide
- \* Heavy Metals in Any Form (As, Ba, Cd, Cr, Pb, Hg, Ni, Se, Ag, Tl, V)
- \* Acids - Inorganic or Organic
- \* Bases or Caustics
- \* Very Toxic Compounds (e.g. Acrolein, Allyl Alcohol, Tetrabromoethane, etc.)
- \* Most Inorganic Compounds
- \* Oxidizers
- \* Peroxides or Organic Peroxides
- \* Biological Matter (Filter out first) or Biohazards
- \* Radioactive Isotopes or Scintillation Fluid containing Isotopes
- \* Pesticides
- \* PCBs
- \* Solids

When a can is *almost* full, call Environmental Health & Safety to arrange a pickup (4-7241).

## ACIDS WITH HEAVY METALS -- SAP CANS (WHITE)

The following aqueous acids contaminated with heavy metals:

- Hydrobromic Acid
- Hydrochloric Acid
- Nitric Acid (*weak*)
- Phosphoric Acid
- Sulfuric Acid

### Heavy Metals

- Arsenic Salts
- Barium Salts
- Cadmium Salts
- Chromium Salts
- Lead Salts
- Nickel Salts
- Selenium Salts
- Silver Salts
- Thallium Salts
- Vanadium Salts

### Other Metals

- Antimony Salts
- Boron Salts
- Copper Salts
- Iron Salts
- Sodium Salts
- Potassium Salts
- Zinc Salts

### WHAT DOES NOT GO IN THIS CAN:

- Hydrofluoric Acid
- Mercury (absolutely none)
- Organics, Including Acetic Acid
- Osmium Salts
- Oxidizers (unless very weak)
- Reactive Compounds
- Radioactive Materials
- Anything Not Listed Above

When the can is almost full, call Environmental Health and Safety at 4-7241 to arrange for pick-up.