



**!!DANGER!!**



## Mixtures that Produce Toxic Gases

| Compound                                  | Mixed With      | Produces                     |
|-------------------------------------------|-----------------|------------------------------|
| <b>Ammonium Salts</b>                     | Strong Base     | Ammonia                      |
| <b>Azide Salts</b>                        | Strong Acid     | Hydrazoic Acid               |
| <b>Bromide Salts</b>                      | Strong Acid     | Hydrogen Bromide             |
| <b>Bromide Salts</b>                      | Strong Oxidizer | Bromine Vapor                |
| <b>Bromites and Bromates</b>              | Strong Acid     | Bromine & Bromine Oxides     |
| <b>Chloride Salts</b>                     | Strong Acid     | Hydrogen Chloride            |
| <b>Chloride Salts</b>                     | Strong Oxidizer | Chlorine Gas                 |
| <b>Chlorite or Chlorate Salts</b>         | Strong Acid     | Chlorine and Chlorine Oxides |
| <b>Cyanide Salts</b>                      | Any Acid        | Hydrogen Cyanide             |
| <b>Ferrocyanide or Ferrocyanide Salts</b> | Strong Acid     | Hydrogen Cyanide             |
| <b>Fluoride Salts</b>                     | Strong Acid     | Hydrogen Fluoride            |
| <b>Hypochlorite Salts</b>                 | Any Acid        | Chlorine                     |
| <b>Iodide Salts</b>                       | Strong Acid     | Hydrogen Iodide              |
| <b>Methyl, Nitroso Amides (Diazald)</b>   | Any Base        | Diazomethane                 |
| <b>Nitrite Salts</b>                      | Strong Acid     | Nitric Oxides                |
| <b>Sulfide or Bisulfide Salts</b>         | Any Acid        | Hydrogen Sulfide             |
| <b>Sulfite or Bisulfite Salts</b>         | Any Acid        | Sulfur Dioxide               |