

## BLEACH INCOMPATIBILITY CHART

CHEMICAL / SUBSTANCE		REACTION WITH BLEACH		
GUANIDINE SALTS	Guanidine Hydrochloride Guanidine Thiocyanate	Release of very toxic gases: Chloramine, Chlorine, Hydrogen Cyanide		
REDUCING AGENTS	Iodides Sodium Borohydride Sodium Bisulfite Sodium Hydrosulfate Sodium Sulfate Sodium Thiosulfate All other Reducing Agents	Violent Reaction High Heat Splashing		
ACIDS	Hydrochloric Acid Sulfuric Acid Phosphoric Acid Aluminum Chloride Ferrous and Ferric Chloride Ferrous and Ferric Sulfate All Organic and Inorganic Acids All Other Acids	Release of very toxic gases Violent reaction		
ORGANICS	Amines Fuels Organic Polymers All other Organic Compounds	Release of Chlorine gas Formation of Chlorinated organics Formation of possible carcinogens Explosive compounds		
AMMONIUM COMPOUNDS	Ammonium Chloride Ammonium Hydroxide Ammonium Sulfate Ammonium Acetate All other Ammonium Compounds Reactions That Produce Ammonia Gas	Toxic Compounds Chloramine Possible Explosive		
METALS	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;">Cobalt Copper Nickel Zinc Iron Aluminum</td> <td style="width: 50%; vertical-align: top;">Steel Manganese Other metals Metal piping and sinks Equipment Made Of Metal</td> </tr> </table>	Cobalt Copper Nickel Zinc Iron Aluminum	Steel Manganese Other metals Metal piping and sinks Equipment Made Of Metal	Corrosion Release of Oxygen (over-pressurization)
Cobalt Copper Nickel Zinc Iron Aluminum	Steel Manganese Other metals Metal piping and sinks Equipment Made Of Metal			
HYDROGEN PEROXIDE		Violent Reaction Release of Oxygen (over-pressurization)		
<p><i>Call the Chemical Hygiene Officer if you are not sure if Bleach is incompatible with a particular chemical</i></p> <p><i>Call The Amherst College Police Department for emergencies X2111</i></p>				