Sodium Hypochlorite Incompatibility Chart

Do NOT mix Sodium Hypochlorite (bleach) with ANY other chemical unless adequate engineering controls and personal protective equipment (PPE) are in place. Accidental mixing may cause dangerous conditions that could result in injury to personnel and/or damage to property or the environment.

Incompatible Material		Mixing May Result In
 Acids, Acidic Compounds and Compounds such as: Alum (Aluminum Sulfate) Aluminum Chloride Ferrous or Ferric Chloride Ferrous or Ferric Sulfate Chlorinated Solutions of Ferrous Sulfate 	d Acid Based Cleaning Hydrochloric Acid (HCI) Sulfuric Acid Hydrofluoric Acid Fluorosilicic Acid Phosphoric Acid Brick and Concrete Cleaners 	- Release of chlorine gas, may occur violently.
Chemicals and Cleaning Con such as: - Ammonium Hydroxide - Ammonium Chloride - Ammonium Silicofluoride	 npounds containing ammonia Ammonium Sulfate Quaternary Ammonium Salts (Quats) 	 Formation of explosive compounds. Release of chlorine or other noxious gases.
Organic Chemicals and Cher - Solvents and Solvent Based Cleaning Compounds - Fuels and Fuel Oils - Amines	nical Compounds such as: - Propane - Organic Polymers - Ethylene Glycol - Insecticides - Methanol	 Formation of chlorinated organic compounds. Formation of explosive compounds. Release of chlorine gas, may occur violently.
Metals such as: - Copper - Nickel Avoid piping and material har stainless steel, aluminum, ca metals.	- Cobalt - Iron ndling equipment containing rbon steel or other common	 Release of oxygen gas, generally does not occur violently. Could cause overpressure/rupture of a closed system.
Hydrogen Peroxide		- Release of oxygen gas, may occur violently.
Reducing agents such as: - Sodium Sulfite - Sodium Bisulfite	- Sodium Hydrosulfite - Sodium Thiosulfate	 Evolution of heat, may cause splashing or boiling.

The Chlorine Institute has available for \$25 a 30-minute videotape, Handling Sodium Hypochlorite Safely. Pamphlet 96, Sodium Hypochlorite Manual, also is available. See the "Publications" section of the Institute's Internet web site, www.CL2.com, for ordering information or contact the Publications Department, 202-775-2790.

