



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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(716) 226-6177

MSDS No. SS 609
Effective Date May 5, 1999

SECTION V HEALTH HAZARD DATA

SS 609

Threshold Limited Value

None established (ACGIH 1992-93).

Effects of Overexposure

INGESTION: May cause pain and inflammation of the mouth and digestive system, burns and perforation of the esophagus or stomach, vomiting, circulatory collapse, confusion, delirium and coma. **INHALATION:** Vapors are irritating to the upper respiratory tract. Prolonged exposure may result in delayed pulmonary edema. **EYES:** Contact with the liquid or vapor causes irritation and burns. **SKIN:** Causes irritation and burns.

Emergency and First Aid Procedures

SKIN: Wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **INGESTION:** If swallowed, if conscious, do NOT induce vomiting, give one or two glasses of milk or water to drink. Call physician. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Direct sunlight, high temperatures, heat sources.
	Stable		

Incompatibility (Materials to Avoid)
Do not mix with acids, oxidizable materials, ammonia and/or metals.

Hazardous Decomposition Products
Chlorine given off on contact with acids. Thermal decomposition or burning may produce hydrochloric acid, hypochlorous acid vapors. Oxygen can be generated during decomposition.

Hazardous Polymerization		Conditions to Avoid Due to the formation of chloramines - mixing ammonia and hypochlorite solution should be avoided.
May Occur	Will Not Occur	
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Dilute with large amounts of water and flush down drain.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)
None required in normal laboratory handling. If necessary work in ventilation hood or wear a NIOSH/MSHA approved respirator fixed with cannister for chlorine gas.

Ventilation	Local Exhaust	Acceptable.	Special	No.
	Mechanical (General)	Acceptable.	Other	No.

Protective Gloves
Rubber.

Eye Protection
Chemical safety glasses.

Other Protective Equipment
Smock, apron, goggles, face shield, proper gloves, ventilation hood, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Store in a cool place and protect from sunlight. Wash thoroughly after handling.

Keep container tightly closed when not in use.

Other Precautions
Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with skin, eyes and mucous membranes. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4	Date 5/5/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	SODIUM HYPOCHLORITE, 13% SOLUTION	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * HEALTH FIRE REACTIVITY 3 0 1
Chemical Synonyms	N/A	
Formula	Mixture.	
Unit Size	up to 3.785 Lt.	
C.A.S. No.	Mixture.	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Hypochlorite: (CAS No. 7681-52-9)	13%	None established.
Water: (CAS No. 7732-18-5)	87%	None established.

DANGER! CORROSIVE! HARMFUL IF INHALED

OR SWALLOWED. MAY CAUSE BURNS.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.27 at 20°C
Boiling Point (°F)	Decomposes above 100°C (212°F)	Percent Volatile by Volume (%)	Decomposes leaving salt solution.
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	2.58 (chlorine)		
Solubility in Water	Complete.		
Appearance & Odor	Pale yellowish to green, clear liquid; chlorine odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Use water on fires involving sodium hypochlorite.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Avoid inhalation of fumes and body contact.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Many reactions can cause fire and explosion. This material will react with some metals, which may cause liberation of oxygen. Toxic fumes can be liberated by contact with acid or heat. Vigorous reactions can occur with oxidizable materials and organics.

D.O.T. **HYPOCHLORITE SOLUTIONS, 8, UN 1791, PG III**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20