



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. SS 605
Effective Date January 21, 1999

SECTION V HEALTH HAZARD DATA

SS 605

Threshold Limited Value None established (ACGIH 1992-93).

Effects of Overexposure **CAUTION! IRRITANT.** Avoid contact with eyes, skin, and mucous membranes. Harmful if swallowed. **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. **SKIN:** Causes irritation.

Emergency and First Aid Procedures **SKIN:** Flush thoroughly with water, then 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, do NOT induce vomiting. If conscious, give one or two glasses of 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. Call a physician. If symptoms of illness develop, get medical attention.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid) Do not mix with acids. Oxidizable materials. Ammonia.

Hazardous Decomposition Products Chlorine given off on contact with acids. Thermal decomposition or burning may produce hydrogen chloride gas.

Hazardous Polymerization		Conditions to Avoid	Not applicable.
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 canister 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. 1	Date 1/21/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
-----------------------	---------------------	---------------------------------	---------------------------------------

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 0.5 M SOLUTION	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	1	Fire	0	Reactivity	1
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	1																	
Fire	0																	
Reactivity	1																	
Chemical Synonyms	N/A																	
Formula	Mixture																	
Unit Size	up to 4 Lt.																	
C.A.S. No.	Mixture																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Hypochlorite, Concentrate	3.25%	None established.
Water: (CAS No. 7732-18-5)	96.5%	None established.
Sodium Carbonate, monohydrate: (CAS No. 5968-11-6)	0.11%	None established.

CAUTION! HARMFUL IF INHALED. CAUSES SKIN AND EYE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H₂O = 1)	Approx. 1.07 at 20°C
Boiling Point (°F)	Decomposes at 100°C (212°F)	Percent Volatile by Volume (%)	96.5%
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, clear liquid; odor of hypochlorites.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
				-----	-----

Extinguisher Media Water on fires involving sodium hypochlorite.

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, emits toxic fumes of chlorine. Contact with hydrochloric acid liberates chlorine gas.

D.O.T. NON-REGULATED.

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