



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. CC 270
Effective Date February 4, 1999

SECTION V HEALTH HAZARD DATA

CC 270

Threshold Limited Value Chlorine Gas: TWA: 0.5 ppm; 1.5 mg/m³
STEL: 1 ppm; 2.9 mg/m³ (ACGIH 1992-93)

Effects of Overexposure
A powerful irritant. Can cause fatal pulmonary edema. Harmful if inhaled or swallowed. May cause burns to skin and eyes. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures
INGESTION: If swallowed, if conscious, give one or two glasses of water. Follow with raw egg white or milk of magnesia. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person. **SKIN:** Wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Heat liberates chlorine gas.
	Stable	X		

Incompatibility (Materials to Avoid) Chlorine gas when liberated may form explosion mixtures with hydrogen. Very reactive. Keep out of contact with ether, ammonia, turpentine, hydrocarbons and powdered metals.

Hazardous Decomposition Products Liberates Chlorine 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
Using adequate ventilation and wearing protective clothing, cover spill with soda ash. Scoop up and place in a suitable container for disposal. Wash spill area with soap and water.

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.

Neutralize with soda ash, then flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) In the laboratory, work in a ventilation hood or wear a NIOSH/MSHA-approved chlorine type respirator.

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

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, smock, apron, proper gloves, ventilation hood, eye wash station and chlorine respirator.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Store in a cool, well-ventilated area. 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 and eyes.
Remove and wash contaminated clothing.

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

Revision No. 6	Date 2/4/99	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	CHLORINE WATER, SATURATED	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * Health 3 Fire 0 Reactivity 2
Chemical Synonyms	Chlorine Test Solution	
Formula	Mixture.	
Unit Size	up to 4 Liter	
C.A.S. No.	Mixture.	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Chlorine gas: (CAS No. 7782-50-5)	0.6%	See Section V.
Water: (CAS No. 7732-18-5)	>99%	
DANGER! CORROSIVE! VAPOR HARMFUL AND IRRITATING.		
HARMFUL IF SWALLOWED. MAY CAUSE BURNS.		

SECTION III PHYSICAL DATA

Melting Point (°F)	0°C (32°F)	Specific Gravity (H₂O = 1)	1.02
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	Unknown.	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	Unknown.		
Solubility in Water	Complete.		
Appearance & Odor	Pale yellow liquid with chlorine odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media Use any media suitable for extinguishing supporting fire.

SPECIAL FIREFIGHTING PROCEDURES

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

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

Liberates toxic chlorine gas when heated above 20°C (68°F).

D.O.T. Corrosive liquids, n.o.s., (Chlorine water solution), 8, UN 1760, PG III

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