



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. MM 270
Effective Date April 6, 1998

SECTION V HEALTH HAZARD DATA

MM 270

Threshold Limited Value

TLV-TWA: 0.1 mg/m³ (ACGIH 1992-93).

Effects of Overexposure

INHALATION: Causes irritation of upper respiratory tract. **SKIN:** Causes severe irritation or burns. **EYES:** Causes severe irritation or burns. **INGESTION:** May be fatal, may cause headache, nausea, vomiting, gastrointestinal irritation, convulsions, unconsciousness. **CHRONIC EFFECTS:** Mercury build-up in the brain, liver and kidneys, may cause headache, shakes, loose teeth, loss of appetite, skin ulceration, impaired memory.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give large amounts of water to drink and induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person. **SKIN:** Flush thoroughly with water, then wash with soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **EYES:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower eyelids. Get prompt medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	

Excessive temperature or heat, friction, shock.

Incompatibility (Materials to Avoid)	Strong acids, alkalies, carbonates, strong bases, amines and ammonia, most common metals, bromides, antimony, arsenic, sodium, potassium, metallic salts, albumin, gelatin, tannic acid, formates, sulfites, hypophosphites, phosphates.
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Hazardous Decomposition Products	Hydrogen chloride, mercury fumes.
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Hazardous Polymerization	Conditions to Avoid	
	May Occur	Will Not Occur
	X	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Ventilate area. Remove all sources of ignition. Wearing suitable protective clothing, sweep up and place in a suitable container for disposal. Wash spill area with soap and water.
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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. Dispose of in an approved chemical landfill or contract with a licensed waste disposal service. Follow local, state and federal regulations.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Work in ventilation hood. Wear a NIOSH/MSHA-approved respirator with organic mercury cartridge, if necessary.		
Ventilation	Local Exhaust	Yes.	Special
	Mechanical (General)	Yes.	No.
Protective Gloves	Rubber or plastic.		Eye Protection
			Chemical safety glasses.
Other Protective Equipment	Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.		

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from strong oxidizing and reducing agents and fire hazards. Protect from light. Wash thoroughly after handling. Wash contaminated clothing before reuse.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. Use adequate ventilation. Do not breathe dust. Avoid contact with eyes or mucous membranes, or prolonged contact with skin. Keep away from food products.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 4	Date	4/6/98	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	MERCURIC CHLORIDE
Chemical Synonyms	Mercury (II) Chloride; Mercury Bichloride
Formula	HgCl ₂
Unit Size	up to 2.5 Kg.
C.A.S. No.	7487-94-7

	CHEMTREC 800-424-9300 Day 716-226-6177	Health	4
		Fire	0
		Reactivity	1

	NFPA HAZARD RATING	HMIS *
	LEAST SLIGHT MODERATE HIGH EXTREME	0 1 2 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Mercuric Chloride	100%	See Section V.
DANGER! POISON CAUSES SEVERE BURNS. MAY BE FATAL IF SWALLOWED. HARMFUL		
IF INHALED OR ABSORBED THROUGH SKIN.		

SECTION III PHYSICAL DATA

Melting Point (°F)	276°C (529°F)	Specific Gravity (H ₂ O = 1)	5.44
Boiling Point (°F)	302°C (576°F)	Percent Volatile by Volume (%)	0 @ 21°C
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	8.7		
Solubility in Water	Moderate (1-10%).		
Appearance & Odor	White crystals or powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in positive pressure mode and full protective clothing. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers exposed to heat may explode. May produce toxic gases of hydrogen chloride and mercury vapors.

D.O.T. MERCURIC CHLORIDE, 6.1, UN 1624, PG II

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