



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. MM 281  
Effective Date March 26, 1999

## SECTION V HEALTH HAZARD DATA

MM 281

### Threshold Limited Value

Mercury, all forms except alkyl (as Hg): 0.05 mg/m<sup>3</sup>; 0.1 mg/m<sup>3</sup> ACGIH TWA (ARYL & Inorganic) - (Skin). RTECS OW5250000

### Effects of Overexposure

**INHALATION:** High concentrations of dust causes respiratory tract irritation, sore throat, coughing, fever, nausea, vomiting, diarrhea and difficulty breathing. **INGESTION:** May cause severe nausea, diarrhea, violent pain and death. A mean lethal dose for adults is between 1 and 4 grams. **EYES:** May cause irritation or burns. **SKIN:** May cause redness, irritation and dermatitis. Poisoning may affect the respiratory system, central nervous system, kidneys and skin.

### Emergency and First Aid Procedures

**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician immediately. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then 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 breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat. Sensitive to light.
	Stable	X	

Incompatibility (Materials to Avoid)	Chlorine trifluoride: Causes reaction with flame. Potassium: Strong explosion on contact. Sodium: Strong explosion on contact.
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Hazardous Decomposition Products	Thermal decomposition products may include highly toxic fumes of iodides.
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Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recover for use if not contaminated. Using proper safety equipment, good ventilation and avoid generating dust, sweep up material and place into container for later 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 agency.
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## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.		
Ventilation	Local Exhaust	Recommended.	Special
	Mechanical (General)	Recommended.	Other
Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
Other Protective Equipment	Lab coat, apron, safety glasses or goggles, eye wash station, proper gloves, ventilation hood.		

## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry, well-ventilated area. Protect from light. Do not breathe dust or vapor. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid contact with skin, eyes and clothing. Use with adequate ventilation. 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 3/26/99	Approved Micheal 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 IODIDE
Chemical Synonyms	Mercury (II) Iodide, Red
Formula	HgI <sub>2</sub>
Unit Size	up to 2.5 Kg.
C.A.S. No.	7774-29-0

CHEMTREC  
800-424-9300  
Day 716-226-6177

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

Health	3
Fire	0
Reactivity	0

HMIS \*

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Mercuric Iodide	100%	See Section V.
<b>DANGER! POISON</b> <b>MAY BE FATAL IF SWALLOWED.</b>		
<b>HARMFUL IF INHALED OR ABSORBED THROUGH SKIN.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	Trans. 127°C; 259°C (261°F; 498°F)	Specific Gravity (H <sub>2</sub> O = 1)	6.283
Boiling Point (°F)	354°C (669°F) sublimes	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	0.01%		
Appearance & Odor	Scarlet red powder; odorless. Turns yellow at 130°C and then upon cooling.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Carbon dioxide (CO <sub>2</sub> ); dry chemical; water spray.				

### SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 151)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products. Avoid breathing poisonous vapors or dusts.

D.O.T. MERCURY IODIDE, 6.1, UN 1638, PG II

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