



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. MM 340
Effective Date March 26, 1999

SECTION V HEALTH HAZARD DATA

MM 340

Threshold Limited Value TWA: Mercury vapor 0.05 mg/m³ (AIR) (ACGIH 1992-93).
Human, oral LDLO 1429 mg/kg.

Effects of Overexposure **TARGET ORGANS AFFECTED:** Central nervous system.
If the mercury in a small clinical thermometer were dispersed in a closed 100' x 100' x 15' room, the TLV would be exceeded. Unsafe conditions are not indicated by odor. Severe poisoning can occur with less than two hours exposure to high concentrations of vapor. Mercury may be absorbed slowly through the skin. Repeated or prolonged contacts may result in poisoning. A single ingestion of a small amount of **pure metallic mercury** would not be expected to cause severe injury. However, if the mercury contained **mercury compounds**, poisoning could result. In all cases of overexposure to mercury, get medical attention!!

Emergency and First Aid Procedures **INGESTION:** If swallowed, if conscious, **DO NOT** induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician immediately. **SKIN:** Flush 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.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Will react slowly with oxygen when heated and it reacts with halogens. Excessive temperature.
	Stable	X		

Incompatibility (Materials to Avoid) Acetylene; Ammonia Boron Phosphodi Iodide; Chlorine Dioxide; Methyl Azide; Ammonia. All will form explosive mixtures. Nitric acid, ammonia gas.

Hazardous Decomposition Products Will not decompose. Produces increased vapor of toxic mercury with increase in temperature.

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 Collect all droplets and pools at once by means of suction pump and aspirator bottle with a long capillary tube. Cover fine droplets in non-accessible cracks with calcium polysulfide and excess sulfur. Combine all contaminated mercury in a tightly stoppered bottle. Clean and recycle.

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. Mercury can be purified for reuse, or it can be sold to a mercury salvage company when large amounts are involved. Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) Work in a fume hood or wear NIOSH/MSHA-approved respirator with mercury cartridge.

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

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

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

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from fire hazards. Clean up all spills at once. 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.
Do not breathe Mercury fumes. Mercury should not be heated without proper precautions to safely handle highly toxic mercury vapor. Remove and wash contaminated clothing.

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

Revision No. 8	Date 3/26/99	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	MERCURY, METAL	 CHEMTREC 800-424-9300 Day 716-226-6177	Health	4
Chemical Synonyms	Quick Silver		Fire	0
Formula	Hg		Reactivity	1
Unit Size	up to 500 g.		HMIS *	
C.A.S. No.	7439-97-6	NFPA HAZARD RATING	LEAST SLIGHT MODERATE HIGH EXTREME	0 1 2 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Mercury, Metal	100%	See Section V.

DANGER! CORROSIVE! HARMFUL IF INHALED OR

ABSORBED THROUGH SKIN. VAPOR HIGHLY TOXIC.

SECTION III PHYSICAL DATA

Melting Point (°F)	-30°C (-38°F)	Specific Gravity (H₂O = 1)	13.5
Boiling Point (°F)	357°C (674°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	0.002 mm @ 25°C	Evaporation Rate (Butyl Acetate =1)	Greater than 1.
Vapor Density (Air=1)	7.0		
Solubility in Water	Insoluble in water.		
Appearance & Odor	Silver-white, heavy mobile metallic liquid; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	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. Mercury is non-flammable and non-explosive in air.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 172)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dangerous, when heated mercury evaporates to yield highly toxic fumes of mercury.

D.O.T. * RQ, MERCURY, 8, UN 2809, PG III

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