MATERIAL SAFETY DATA SHEET

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

MSDS No. MM 345
Effective Date March 29, 1999

SECTION I NAME

Product	MERCURIC NITRATE
Chemical Synonyms	Mercury (II) Nitrate
Formula	$Hg(NO_3)_2 \cdot H_2O$
Unit Size	up to 500 grams
C.A.S. No.	7783-34-8 (Monohydrate)

24 HOUR EMERGENCY ASSISTANCE

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	3

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Mercuric Nitrate	99%	See Section V.
DANGER! POISON. STRONG OXIDIZER! MAY		
BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH		
SKIN. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.		

SECTION III PHYSICAL DATA

Melting Point (°F)	79°C (174°F)	Specific Gravity (H_2O = 1)	4.39
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Soluble.		
Appearance & Odor	White or slightly yellow, deliquescent, crystalline powder; odor of nitric acid.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

			Lower	Upper
Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume N/A		
Extinguisher Media	Use water spray, carbon dioxide or dry chemical.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes. This product may ignite combustible material.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 141)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat will cause mercuric nitrate to sublime, release mercury vapor or explode upon heating. Oxidizing material. In contact with easily flammable substances it may react rapidly enough to cause ignition, violent combustion or explosion. Increases the flammability of any combustible substance.

D.O.T. **MERCURIC NITRATE, 6.1, UN 1625, PG II**

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

SECTION V HEALTH HAZARD DATA MM345

Threshold Limited Value
For mercury compounds: OSHA PEL: 0.1 mg/m^3 ceiling as Hg skin. ACGIH TLV: 0.01 mg (asHg)/m^3. TWA as Hg skin. Toxicity data: Oral-rat 51.4 mg/kg.

Effects of Overexposure
Target organs affected: Central nervous system, kidneys. Highly toxic. Mercury poisoning - may cause death if swallowed. Toxic by skin absorption. May produce dermatitis and takes the form of small, discrete ulcers on the exposed parts, and is usually accompanied by conjunctivitis and inflammation of the mucous membranes of the nose and throat.

Emergency and First Aid Procedures
INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting. Repeat until vomit fluid is clear. Call 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 lower and upper eyelids occasionally. Get 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			Conditions to Avoid
	Unstable		Excessive temperature and heat. Protect from light.
	Stable	X	

Incompatibility (Materials to Avoid)
Reacts violently with hypophosphoric acid, unsaturates, aromatics, sulfur and phosphine. Reducing agents, organic materials.

Hazardous Decomposition Products
Thermal decomposition or burning emits mercury vapor and oxides of nitrogen (NO_x).

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
Reclaim as much as possible. Wearing suitable protective clothing, sweep up and place in a suitable container for disposal. Neutralize contaminated area with Bicarbonate of soda. Wash spill area with soap and water. **DO NOT FLUSH TO SEWER!** Collect wash water for disposal as hazardous waste.

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 diposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)
Work in ventilation hood. If necessary and dusty conditions prevail, wear a NIOSH/MSHA approved dusk mask. For fumes or vapor wear a NIOSH/MSHA-approved respirator for mercury.

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

Protective Gloves		Eye Protection	
	Rubber.		Chemical safety glasses.

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

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Keep container tightly closed when not in use.
Store in a cool, dry, well-ventilated place away from ignition sources and protect from light. Keep away from combustible materials. Wash thoroughly after handling.

Other Precautions
Read label on container before using. Do not wear contact lenses when working with chemicals.

Do not breathe dust. Do not get in eyes, on skin 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. 5	Date 3/29/99	Approved Michael Raszeja	Chemical Safety Coordinator MR