



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. NN 220  
Effective Date November 18, 1998

## SECTION V HEALTH HAZARD DATA

NN 220

### Threshold Limited Value

None established. (ACGIH 1992-93). RTECS No. NK5425000 Toxicity data:  
Oral-rat LDLo: 250 mg/kg. Intraperitoneal-mouse LD50: 78 mg/kg.

### Effects of Overexposure

**EYES:** May cause irritation upon contact. **SKIN:** Contact may cause redness, swelling and pain at any site, especially mucous membranes. **INHALATION:** Breathing dust or vapors may cause irritation, cough and shortness of breath. **INGESTION:** Excessive exposure may lead to nausea, vomiting and diarrhea.

### Emergency and First Aid Procedures

**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If breathing stops, give artificial respiration. If breathing is difficult, give oxygen. Call physician. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give one or two glasses of water to drink and call physician immediately. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Protect from light, excessive temperature and heat. Turns red at 125°C, swells at 139°C.
	Stable	X		

Incompatibility (Materials to Avoid)	Amines, caustic and other alkalies.
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Hazardous Decomposition Products	Oxides of carbon.
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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	Recover for use if not contaminated. Wearing suitable protective clothing and with adequate ventilation, sweep material onto paper. Place in a suitable container for disposal by incineration. 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.
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Dispose of in an approved incinerator, approved chemical landfill or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.		
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, lab coat, apron, ventilation hood, proper gloves, eye wash station.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from amine odors. Protect from light. 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.
	Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use with adequate ventilation. Do not take internally. 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 11/18/98	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	NINHYDRIN		
Chemical Synonyms	1,2,3-Indantrione-2-Hydrate		
Formula	C <sub>9</sub> H <sub>4</sub> O <sub>3</sub> •H <sub>2</sub> O		
Unit Size	up to 2.5 Kg.		
C.A.S. No.	485-47-2		

 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177	Health	2
	Fire	1
<b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	Reactivity	1
	HMIS *	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ninhydrin	100%	None established.
<b>WARNING! CAUSES IRRITATION.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	240°-245°C (464°-473°F) dec.	Specific Gravity (H <sub>2</sub> O = 1)	Not applicable.
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Freely soluble in hot water.		
Appearance & Odor	White to yellowish-white crystalline powder; characteristic odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

No data available.

D.O.T. NON-REGULATED.

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