



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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

MSDS No. NN 161  
Effective Date April 5, 1999

## SECTION V HEALTH HAZARD DATA

NN 161

**Threshold Limited Value** None established for this mixture.  
As Nickel: CAS No. 7440-02-0 0.1 mg/m<sup>3</sup>. In fume or respirable air.

**Effects of Overexposure** May be harmful by ingestion. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available.

**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. 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, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **INHALATION AS MIST:** Remove to fresh air.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature to cause evaporation.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Strong reducing materials. It is incompatible with aluminum, boron phosphide, cyanides, esters and other combustibles; phospham, phosphorous, sodium hypochlorite, stannous chloride and thiocyanates.

**Hazardous Decomposition Products** Thermal decomposition or burning may produce oxides of nitrogen (NO<sub>x</sub>) and nickel metal dust or fumes.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>		Not applicable.
	<b>May Occur</b>	<b>Will Not Occur</b>	
		X	

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Absorb spill in vermiculite, sand, earth, paper towel and place in a suitable container for proper disposal. Wash spill area with soap and water.

**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.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	Not required.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Not required.	<b>Other</b>	No.

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Lab coat, apron, eye wash station, proper gloves.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool place. 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.

Avoid contact with skin and eyes.  
Remove and wash contaminated clothing.

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

<b>Revision</b> No. 2	<b>Date</b> 4/5/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	NICKEL NITRATE 0.2 MOLAR SOLUTION	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  <b>HMIS *</b> Health 2 Fire 0 Reactivity 1
<b>Chemical Synonyms</b>	Nickel Nitrate, Water Solution	
<b>Formula</b>	Mixture	
<b>Unit Size</b>	up to 3.785 Lt.	
<b>C.A.S. No.</b>	Mixture	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Nickel Nitrate: (CAS No. 13138-45-9)	3.65%	See Section V.
Water: (CAS No. 7732-18-5)	96.35%	None established.

**WARNING! MAY BE HARMFUL IF SWALLOWED.**

**CONTACT CAUSES IRRITATION.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Freezes approx. 0°C (32°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Approx. 1.0
<b>Boiling Point (°F)</b>	Approx. 100°C (212°F)	<b>Percent Volatile by Volume (%)</b>	96.35%
<b>Vapor Pressure (mm Hg)</b>	14 (water).	<b>Evaporation Rate (Water = 1)</b>	< 1.
<b>Vapor Density (Air=1)</b>	0.7 (water).		
<b>Solubility in Water</b>	Complete.		
<b>Appearance &amp; Odor</b>	Clear, water white, water solution; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume</b>	N/A	<b>Lower</b>	<b>Upper</b>
<b>Extinguisher Media</b>	Use any media suitable for extinguishing supporting fire.				

### SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

D.O.T. NON-REGULATED.

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