



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. NN 165  
Effective Date April 5, 1999

## SECTION V HEALTH HAZARD DATA

NN 165

**Threshold Limited Value** ACGIH-TLV 8 HR. TWA 1992-93: Soluble compounds Ni  
As Nickel [CAS No. 7440-02-0] 1 mg/m<sup>3</sup>. In fume or respirable air.

**Effects of Overexposure** **INGESTION:** Causes irritation and may cause vomiting, gingivitis and stomatitis. **INHALATION:** Dust causes upper respiratory tract irritation and repeated exposure may result in lung damage. Individuals hypersensitive to nickel may develop asthma, bronchitis, shortness of breath, wheezing. **EYES:** Dust causes irritation. **SKIN:** Causes irritation. Repeated contact may cause allergic skin reaction.

**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 exposed area with water, then wash with soap and water. Get medical attention if irritation persists. **INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call physician immediately. **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.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature and heat.
	<b>Stable</b>	X		

<b>Incompatibility (Materials to Avoid)</b>	Strong alkalis.
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<b>Hazardous Decomposition Products</b>	Thermal decomposition or burning may produce hazardous nickel dust or fumes and oxides of sulfur.
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<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>
<b>May Occur</b>	<b>Will Not Occur</b>
	X
Not applicable.	

## SECTION VII SPILL OR LEAK PROCEDURES

<b>Steps to be taken in case material is released or spilled</b>	Recover for use if not contaminated. Wearing suitable protective clothing and avoid making dust, sweep up material and place in a suitable container for disposal. Wash spill area with soap and water.
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<b>Waste Disposal Method</b>	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

<b>Respiration Protection (Specify Type)</b>	Work in ventilation hood. If dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask or respirator.
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<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	No.
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	No.

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

<b>Precautions to be Taken in Handling &amp; Storing</b>	Store in a cool, dry place away from strong alkalis. Wash thoroughly after handling.
Keep container tightly closed when not in use.	

<b>Other Precautions</b>	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Do not get in eyes, on skin, on clothing. Avoid breathing dust. 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.

<b>Revision</b> No. 6	<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 SULFATE
<b>Chemical Synonyms</b>	Nickelous Sulfate Hexahydrate
<b>Formula</b>	NiSO <sub>4</sub> •6H <sub>2</sub> O
<b>Unit Size</b>	up to 2.5 Kg.
<b>C.A.S. No.</b>	10101-97-0

0

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0

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

NFPA  
HAZARD RATING  
LEAST SLIGHT MODERATE  
0 1 2

HMIS \*  
HIGH EXTREME  
3 4

Health 3  
Fire 0  
Reactivity 0

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Nickel Sulfate	100%	See Section V.
<b>WARNING! HARMFUL IF INHALED OR SWALLOWED.</b>		
<b>CAUSES SKIN AND EYE IRRITATION. CAN CAUSE</b>		
<b>ALLERGIC SKIN REACTION.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	Transition 53.3°C (127°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.07 at 20°C
Boiling Point (°F)	-6H <sub>2</sub> O at 103°C (217°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	71 grams per 100 mL. at 20°C.		
Appearance & Odor	Emerald-green, transparent crystals; 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

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

This material is non-flammable. No unusual fire or explosion hazards are associated with this material. Fire or excessive heat may produce hazardous decomposition of nickel dust or fume and oxides of sulfur.

D.O.T. NON-REGULATED.

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