



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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

MSDS No. NN 120  
Effective Date April 1, 1999

## SECTION V HEALTH HAZARD DATA

NN 120

**Threshold Limited Value** None established for nickel ammonium sulfate. ACGIH 1992-93 Soluble compounds as Nickel: CAS No. 7440-02-0 0.05 mg/m<sup>3</sup>.

**Effects of Overexposure** Specific data is not available. Not considered to cause systemic poisoning. Can cause allergic skin reaction. Partly because of local astringent and irritant actions, nickel salts act as emetics when swallowed (but also by other routes). As with other irritant emetics, the lethal dose is presumed to vary widely. Systemic effects include capillary damage (especially in brain and adrenals), renal injury, myocardial weakness and central nervous depression.

**TARGET ORGANS AFFECTED:** Central nervous system.

**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 CONTACT:** Flush exposed area with water, then wash with soap and water. Get medical attention if irritation persists. **INHALATION:** Remove to fresh air. If discomfort or irritation persists, get medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. 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		

**Incompatibility (Materials to Avoid)** Strong alkalis.

**Hazardous Decomposition Products** Thermal decomposition or burning may produce hazardous nickel dust or fume, oxides of sulfur (SO<sub>x</sub>) and nitrogen (NO<sub>x</sub>).

<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** Wear suitable protective clothing and avoid making dust. Sweep up material 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 service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

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

<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.

**Protective Gloves** Rubber. **Eye Protection** 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** Store in a cool, dry place away from strong alkalis. 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 get in eyes, on skin, on clothing. Avoid breathing dust. 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. 5	<b>Date</b> 4/1/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
-----------------------	--------------------	---------------------------------	---------------------------------------

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

<b>Product</b>	NICKEL AMMONIUM SULFATE	 <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 3 Fire 0 Reactivity 0
<b>Chemical Synonyms</b>	Ammonium Nickel Sulfate	
<b>Formula</b>	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> •NiSO <sub>4</sub> •6H <sub>2</sub> O	
<b>Unit Size</b>	up to 2.5 Kg.	
<b>C.A.S. No.</b>	7785-20-8	

## SECTION II INGREDIENTS OF MIXTURES

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

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Data not listed.	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.923 at 20°C
<b>Boiling Point (°F)</b>	Data not listed.	<b>Percent Volatile by Volume (%)</b>	Non-volatile (NA).
<b>Vapor Pressure (mm Hg)</b>	Negligible as solid.	<b>Evaporation Rate ( =1)</b>	Non-volatile (NA).
<b>Vapor Density (Air=1)</b>	Data not listed.		
<b>Solubility in Water</b>	10.3 grams per 100 mL. water at 20°C.		
<b>Appearance &amp; Odor</b>	Bluish-green crystals; somewhat efflorescent; 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>
----------------------------------	----------------	--	-----	--------------	--------------

**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 protective clothing to prevent contact with skin and eyes.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

This material is non-flammable. No unusual fire or explosive hazards are associated with this material. Fire or excessive heat may produce hazardous decomposition of nickel dust or fume, oxides of sulfur (SO<sub>x</sub>) and nitrogen (NO<sub>x</sub>).

D.O.T. NON-REGULATED.

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