



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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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/m³.

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

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong alkalis.
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Hazardous Decomposition Products	Thermal decomposition or burning may produce hazardous nickel dust or fume, oxides of sulfur (SO _x) and nitrogen (NO _x).
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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	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.
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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. Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.
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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.
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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 strong alkalis. Wash thoroughly after handling.
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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.
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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.

Revision No. 5	Date 4/1/99	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	NICKEL AMMONIUM SULFATE
Chemical Synonyms	Ammonium Nickel Sulfate
Formula	(NH ₄) ₂ SO ₄ •NiSO ₄ •6H ₂ O
Unit Size	up to 2.5 Kg.
C.A.S. No.	7785-20-8

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

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

Health	3
Fire	0
Reactivity	0

HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

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

SECTION III PHYSICAL DATA

Melting Point (°F)	Data not listed.	Specific Gravity (H ₂ O = 1)	1.923 at 20°C
Boiling Point (°F)	Data not listed.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (≈1)	Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	10.3 grams per 100 mL. water at 20°C.		
Appearance & Odor	Bluish-green crystals; somewhat efflorescent; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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_x) and nitrogen (NO_x).

D.O.T. NON-REGULATED.

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