



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No.: NNO100
Effective Date: April 19, 2005

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Nickel	<p>CHEMTREC 800-424-9300 Day 585-226-6177</p> <p>NFPA</p> <p>HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4</p> <p>HMIS*</p> <table border="1"> <tr> <td>Health</td> <td>3</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health	3	Fire	0	Reactivity	0
Health	3							
Fire	0							
Reactivity	0							
Chemical Synonyms	Nickel Metal							
Formula	Ni							
Unit Size	up to 2.5 Kg.							
C.A.S. No.	7440-02-0							

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Nickel Metal, Shot	100%	TWA: 1 mg/m ³

WARNING!

HARMFUL AS DUST OR FUME. MAY CAUSE SKIN IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	1452°C (2645°F)	Specific Gravity (H ₂ O = 1)	8.90 at 20°C
Boiling Point (°F)	2732°C (4950°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	1 mm at 1810°C	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	Insoluble in water.		
Appearance & Odor	Lustrous white, hard, ferromagnetic metal; shot; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable as dust.	Flammable Limits in Air % by Volume	Unknown	Lower	Upper
Extinguisher Media	Dry sand, carbon dioxide, or dry powder.				

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

None known.

SECTION V HEALTH HAZARD DATA

NNO100

Threshold Limited Value TWA: 1 mg/m³ (ACGIH 2001).

Effects of Overexposure May cause dermatitis in sensitive individuals. May cause sensitization by skin contact. No acute respiratory reaction or conclusive chronic effects from exposure to nickel metal have been observed, but proper laboratory hygiene requires maintenance of working atmosphere at concentrations below the recommended TLV. Target organs: None known.

Emergency and First Aid Procedures
INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat, storage near mineral acids.
	Stable	X		

Incompatibility (Materials to Avoid) Slowly attacked by dilute hydrochloric acid or sulfuric acid; readily attacked by nitric acid. Ammonium nitrate, perchlorates, phosphorus, selenium, sulfur.

Hazardous Decomposition Products Heating nickel metal emits nickel dust or fumes. Reacts with mineral acids to liberate hydrogen. Evolved hydrogen may become explosive hazard.

Hazardous Polymerization	Conditions to Avoid	
	May Occur	Will Not Occur
		X

Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Pick pellets up by hand or use a magnet and place in suitable container for reuse or 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. This material can be safely disposed of in a landfill but this metal may have scrap value on your local market and this should be investigated before disposing of potentially valuable materials.

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.		
Ventilation	Local Exhaust	Recommended.	Special
	Mechanical (General)	Recommended.	Other
			No.
			No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Lab coat, apron, proper gloves, ventilation hood, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from acids. 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. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Do not store near acids or reactive substances. Avoid repeated skin contact. Remove and wash contaminated clothing.

Revision No. 10	Date 04/19/05	Approved Michael Raszeja	Chemical Safety Coordinator MR
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