



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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Avon, New York 14414  
(716) 226-6177

MSDS No. NN 100  
Effective Date April 1, 1999

## SECTION V HEALTH HAZARD DATA

NN100

### Threshold Limited Value

TWA: 1 mg/m<sup>3</sup> (ACGIH 1992-93).

### Effects of Overexposure

May cause dermatitis in sensitive individuals. 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.

### Emergency and First Aid Procedures

**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If discomfort or illness develops, get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. If irritation develops or persists, get medical attention.

## SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Slowly attacked by dilute hydrochloric acid or sulfuric acid; readily attacked by nitric acid. Ammonium nitrate, perchlorates, phosphorus, selenium, sulfur.
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Hazardous Decomposition Products	Heating nickel metal emits nickel dust or fumes. Reacts with mineral acids to liberate hydrogen. Evolved hydrogen may become explosive hazard.
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Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Wearing suitable protective clothing and avoid making dust, sweep, pick up (pellets) by hand or magnet and return to original container for reuse.
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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. 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.
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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.
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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	Lab coat, apron, proper gloves, ventilation hood, 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 acids. Wash thoroughly after handling. Keep container tightly closed when not in use.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.  Do not store near acids or reactive substances. Avoid repeated skin contact. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 8	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 METAL SHOT
Chemical Synonyms	Nickel Metal
Formula	Ni
Unit Size	up to 2.5 Kg.
C.A.S. No.	7440-02-0

0  
2  
0

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

NFPA  
HAZARD RATING

LEAST SLIGHT MODERATE  
0 1 2

Health  
Fire  
Reactivity

3  
0  
0

HMIS \*

HIGH EXTREME  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Nickel Metal Shot	100%	See Section V.

**WARNING! MAY CAUSE SKIN IRRITATION.**

**HARMFUL AS DUST OR FUME. CANCER SUSPECT AGENT.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	1452°C (2645°F)	Specific Gravity (H <sub>2</sub> O = 1)	8.90 at 20°C
Boiling Point (°F)	2732°C (4950°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	1 mm at 1810°C	Evaporation Rate ( )	Non-volatile (NA).
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)	Non-Flammable	Flammable Limits in Air % by Volume	Unknown	Lower	Upper
Extinguisher Media	Dry sand; carbon dioxide (CO <sub>2</sub> ); 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

Moderate fire hazard in the form of dust, when exposed to heat or flame. Slight explosion hazard in the form of dust when exposed to flame.

D.O.T. NON-REGULATED.

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