



MATERIAL SAFETY DATA SHEET

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MSDS No. 9419604 9419606
Effective Date: December 1, 2005

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Nickel	416-984-3000 NFPA 0 2 0 HAZARD RATING Minimal 0Slight 1Moderate 2Serious 3Severe 4 Health 3 Flammability 0 Reactivity 0 WHMIS Serious 3Severe 4
Chemical Synonyms	Nickel Metal	
Formula	Ni	
CAS No.	7440-02-0	

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Nickel	100%	TWA: 1 mg/m ³
WARNING!		

SECTION III PHYSICAL DATA

Melting Point (°C)	1452°C	Specific Gravity (H ₂ O = 1)	8.90
Boiling Point (°C)	2732°C	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	1 mm @ 1810°C	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Insoluble.		
Appearance & Odor	Hard white metal shot; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures	Use dry chemical, CO ₂ , water spray or foam.				

Flammability and Explosion Hazards

N/A

TDG Not controlled under TDG.

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SECTION V REACTIVITY DATA

NN0100

Chemical Stability	Yes	X	If no, under what conditions?
Incompatible with Other products	Yes	X	
	No		

Hazardous Decomposition Products	Carbon oxides.
Reactive under what conditions	Heating nickel metal emits dust or fume. Reacts with mineral acids to liberate hydrogen, which may become an explosion hazard..

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion. Skin contact.
TLV	TWA: 1 mg/m ³ (ACGIH 2001)
Toxicity for animals	N/A
Chronic effects on humans	There are no known effects from chronic exposure to this product. Target organs: None known.
Acute effects on humans	Harmful if inhaled as dust or fume. May cause skin irritation.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep container dry. Keep in a cool place. Keep container tightly closed. Keep away from acids, alkalis, heat, moisture.
Precautions	Do not breathe dust. Do not ingest. If ingested, seek medical advice immediately. Harmful if inhaled as dust or fume.
Spill or leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Wash spill area with soap and water.
Protective Clothing	Gloves, safety glasses, lab coat, dust respirator.

SECTION VIII FIRST AID MEASURES

Specific first aid measures

Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.

SECTION IX PREPARATION OF THE MSDS

Rev. No. 3 Date December 1, 2005 Approved Michael Raszeja

Sarg. Welch

Main Lab