## Nickel Powder

MSDS # 482.00



### Section 1: **Product and Company Identification**

### Nickel Powder

Synonyms/General Names: Nickel metal **Product Use:** For educational use only

Manufacturer: Columbus Chemical Industries, Inc., Columbus, WI 53925.

24 Hour Emergency Information Telephone Numbers

CHEMTREC (USA): 800-424-9300 CANUTEC (Canada): 613-424-6666

ScholAR Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

### Section 2: Hazards Identification

Silvery grey metallic powder, no odor.

**CAUTION!** Flammable solid if a finely divided powder. Carcinogen if inhaled. Target organs: None known.

Health Fire Hazard Reactivity

HMIS (0 to 4)

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) if used properly.

### Section 3:

## Composition / Information on Ingredients

Nickel metal, powder (7440-02-0), >99%

#### Section 4: **First Aid Measures**

Always seek professional medical attention after first aid measures are provided.

Eyes: Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally. Immediately flush skin with excess water for 15 minutes while removing contaminated clothing. Skin:

**Ingestion:** Call Poison Control immediately. Aspiration hazard. Rinse mouth with cold water. Give victim 1-2 tbsp of

activated charcoal mixed with 8 oz water.

Remove to fresh air. If not breathing, give artificial respiration. **Inhalation:** 

## Section 5:

## **Fire Fighting Measures**

Flammable solid as dust or fume. When heated to decomposition, emits acrid fumes

**Protective equipment and precautions for firefighters:** Use foam or dry chemical to extinguish fire. Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or to static discharge.



#### Section 6: **Accidental Release Measures**

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all ignition sources and ventilate area. Contain spill with sand or absorbent material and place material in a sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

#### Section 7: **Handling and Storage** Green

Handling: Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.

Storage: Store in General Storage Area [Green Storage] with other items with no specific storage hazards. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.

### Section 8: **Exposure Controls / Personal Protection**

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with an acid/organic cartridge. Exposure guidelines: Nickel: OSHA PEL: 1 mg.m<sup>3</sup>, ACGIH TLV: 1.5 mg.m<sup>3</sup>, STEL: N/A.

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# Section 9: Physical and Chemical Properties

Molecular formula Ni. Appearance Silvery grey metallic powder.

Molecular weight58.71.OdorNo odor.Specific Gravity8.9g/mL @ 20°C.Odor ThresholdN/A.Vapor Density (air=1)N/A.SolubilityN/A.

**Melting Point**  $1452^{\circ}\text{C}$ . **Evaporation rate** N/A. (Butyl acetate = 1).

**Boiling Point/Range** 2732°C. **Partition Coefficient** N/A.  $(log P_{OW})$ .

Vapor Pressure (20°C)1810 mm Hg.pHN/A.Flash Point:Flammable as dust.LELN/A.Autoignition Temp.:N/A.UELN/A.

N/A = Not available or applicable

# Section 10: Stability and Reactivity

Avoid heat and ignition sources.

Stability: Stable under normal conditions of use.

Incompatibility: Acids, ammonium nitrate, perchlorates, phosphorus, selenium, sulfur.

**Shelf life**: Indefinite if stored properly.

# Section 11: Toxicology Information

Acute Symptoms/Signs of exposure: *Eyes*: Stinging pain, watering of eyes, inflammation of eyelids and conjunctivitis. *Skin*: Insensitivity to pain, feel of coolness or cold, skin looks white and feels hard and cold. *Ingestion*: Breath has sweet, organic odor, mental confusion, drowsiness, nausea, vomiting and headache. *Inhalation*: Rapid irregular breathing, headache, fatigue, mental confusion, nausea and vomiting, giddiness and poor judgment, convulsions and death.

Chronic Effects: Repeated/prolonged skin contact may cause dryness or rashes. Suspect carcinogen.

Sensitization: none expected

Nickel: LD50 [oral, rat]; >5 g/kg; LC50 [rat]; N/A; LD50 Dermal [rabbit]; N/A

Material is suspected to be a carcinogen or produce genetic, reproductive, or developmental effects.

## Section 12: Ecological Information

**Ecotoxicity (aquatic and terrestrial):** Ecological impact has not been determined.

## Section 13: Disposal Considerations

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Small amounts of this material may be suitable for sanitary sewer or trash disposal.

## Section 14: Transport Information

**DOT Shipping Name:** Flammable solid, toxic, inorganic, **Canada TDG:** Flammable solid, toxic, inorganic, n.o.s.

n.o.s., (nickel powder). (nickel powder).

**DOT Hazard Class**: 4.1 (6.1), pg III. **Hazard Class:** 4.1 (6.1), pg III. **UN 3179**. **UN Number:** UN3179.

# Section 15: Regulatory Information

**EINECS:** Listed (231-11-4). **WHMIS Canada:** D2A, D2B; Toxic material causing serious effects.

**TSCA:** All components are listed or are exempt. **California Proposition 65:** Listed – Cancer.

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## Section 16: Other Information

### Current Issue Date: January 23, 2009

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