

# MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

Manufacturer: ProChem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

Phone: (815) 398-1788  
Fax: (815) 398-1810  
E-Mail: Prochem1@aol.com

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** Nickel pellets  
**CAS #:** 7440.02-0  
**FORMULA:** Ni  
**SYNONYM:** carbonyl nickel powder

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound Ni)	7440-02-0	100	1.5mg/m <sup>3</sup> (as Ni)	1mg/m <sup>3</sup> (as insoluble Ni)

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** Irritating to skin, eyes and mucous membranes. May cause sensitization by skin contact. May cause cancer. Possible risk of irreversible effects and harm to the unborn child.

**PRIMARY ROUTES OF EXPOSURE:** (as a dust) Skin and Eyes. Dust inhalation

**EYE CONTACT:** (As fine dust) May cause slight to mild irritation of the eyes.

**SKIN CONTACT:** Dust may cause slight to mild irritation of the skin, and dermatitis in sensitive individuals.

**INHALATION:** Dust may be irritating to the nose, mucous membranes and respiratory tract.

**INGESTION:** Repeated ingestion of dust has produced fibrosis of the lungs and thorax in animal studies. May cause vomiting and diarrhea

**CHRONIC HEALTH EFFECTS:** Prolonged exposure to nickel and nickel compounds may lead to skin irritation and dermatitis. May cause cancer. Possible risk of irreversible effects.

**ACUTE HEALTH EFFECTS:** May be irritating to skin, eyes and respiratory tract. May cause sensitization by skin contact. Possible risk of harm to the unborn child

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## SECTION 4 First Aid Measures

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**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if

conscious). Induce vomiting only if directed by medical personnel.

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## **SECTION 5                      Firefighting Measures**

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**FLASH POINT:** not applicable

**AUTO IGNITION TEMPERATURE:** not applicable

**EXPLOSION LIMITS:** not applicable

**EXTINGUISHING MEDIUM:** none

**SPECIAL FIREFIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** none

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** Potentially combustible as fine dust. Dust may form explosive mixtures with air under some conditions

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## **SECTION 6                      Accidental Release Measures**

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**SPILL AND LEAK PROCEDURES:** Spills can simply be swept up.

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## **SECTION 7                      Handling and Storage**

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**HANDLING AND STORAGE:** Store material in a tightly sealed container.

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## **SECTION 8                      Exposure Controls and Personal Protection**

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**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

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## **SECTION 9                      Physical and Chemical Properties**

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**COLOR AND FORM:** pellets

**MOLECULAR WEIGHT:** 58.71

**MELTING POINT (DEG. C.):** not applicable

**BOILING POINT:** 2732<sup>o</sup>

**VAPOR PRESSURE:** 1mm (1810c)

**SPECIFIC GRAVITY:** 8.9

**SOLUBILITY IN WATER:** insoluble

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## **SECTION 10                    Stability and Reactivity**

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**STABILITY:** air and moisture stable

**HAZARDOUS POLYMERIZATION:** no hazardous polymerization

**CONDITIONS TO AVOID:** Mixtures of fine dust with air in contact with an ignition source.

**INCOMPATIBILITY:** Halogens, hydrazine, oxidizing agents, ammonia, sulfur and phosphorus  
**DECOMPOSITION PRODUCTS:** none

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## **SECTION 11 Toxicological Information**

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**RTECS DATA:** Oral (rat); LDLo: 5 gm/kg. Intraperitoneal (rat); LD50: 250 mg/kg. Intratracheal (rat); LDLo: 12 mg/kg. Intravenous (mouse); LDLo: 50 mg/kg. Subcutaneous (cat); LDLo: 12500 ug/kg. Intraperitoneal (rabbit); LDLo: 7 mg/kg. Inhalation (rat); TCLo: 100 ug/m<sup>3</sup>/24H/17W-1. Oral (mouse); TDLo: 500 mg/kg/5D-1. Subcutaneous (rat); TDLo: 2000 mg/kg/6W-1. Intraperitoneal (rat); TDLo 100 mg/kg/21W-1. Hamster kidney; Morphological transformation: 400 mg/L.

**MUTAGENIC EFFECTS:** no data

**TETRATOGENIC EFFECTS:** no data

**CARCINOGENIC EFFECTS:** no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

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## **SECTION 12 Ecological Information**

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**ECOLOGICAL INFORMATION:** No information available

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## **SECTION 13 Disposal Considerations**

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**DISPOSAL:** Dispose of in according to local state and federal regulations.

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## **SECTION 14 Transportation Information**

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non-hazardous

Non-hazardous

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## **SECTION 15 Regulatory Information**

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**TSCA:** Listed in the TSCA inventory

**SARA (TITLE 313):** Title compound listed

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## **SECTION 16 Other Information**

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