# MATERIAL SAFETY DATA SHEET

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

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**SECTION 1** 

### **Product Identification**

CHEMICAL NAME: Nickel (II) sulfide

CAS #: 16812-54-7 FORMULA: Ni3S2/NiS

SYNONYM: Nickel monosulfide

**SECTION 2** 

# Composition and Information on Ingredients

INGREDIENT:

CAS #

%

**ACGIH (TWA)** 

**OSHA (PEL)** 

Title Compound

16812-54-7

100

0.2mg/m3(as Ni-insoluble) 1mg/m3(as insoluble Ni)

**SECTION 3** 

### **Hazards Identification**

EMERGENCY OVERVIEW: Irritating to skin, eyes and respiratory tract. May cause sensitization by skin contact. May cause cancer by inhalation.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation, skin and eyes

EYE CONTACT: Dust causes moderate irritation of the eves.

SKIN CONTACT: Causes slight irritation of the skin. Prolonged contact with nickel salts may lead to dermatitis. INHALATION: Inhalation of dust will lead to irritation of the respiratory tract. May cause cancer by inhalation. INGESTION: Gastric juices may cause release of toxic hydrogen sulfide, causing, nausea, dizziness, pulmonary edema, death.

CHRONIC HEALTH EFFECTS: Long term exposure to nickel and nickel compounds may lead to skin irritation and dermatitis. Ma cause cancer.

ACUTE HEALTH EFFECTS: Irritating to skin, eyes and respiratory tract. May cause sensitization by skin con-

### **SECTION 4**

## **First Aid Measures**

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.

# **SECTION 5**

## **Firefighting Measures**

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: no data

**EXPLOSION LIMITS:** no data

EXTINGUISHING MEDIUM: carbon dioxide or dry powder

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: If involved in a fire this material may

emit fumes of hydrogen sulfide and sulfur dioxide

UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazards.

### SECTION 6

### **Accidental Release Measures**

**SPILL AND LEAD PROCEDURES:** In the case of a spill, the fine powder should be covered with dry sodium carbonate or dolomite in order to reduce the formation of dust. Sweep up the mixture.

#### **SECTION 7**

## **Handling and Storage**

**HANDLING AND STORAGE:** Store material in a tightly sealed container. Exposure to the atmosphere may lead to release of toxic hydrogen sulfide gas. Empty containers may retain product residues that evolve toxic gases.

### **SECTION 8**

# **Exposure Controls and Personal Protection**

**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 respi-

rators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

#### **SECTION 9**

### **Physical and Chemical Properties**

COLOR AND FORM: black powder MOLECULAR WEIGHT: not applicable MELTING POINT (DEG. C.): no data

**BOILING POINT:** no data

VAPOR PRESSURE: not applicable SPECIFIC GRAVITY: 5.3-5.65 SOLUBILITY IN WATER: insoluble

### **SECTION 10**

# **Stability and Reactivity**

**STABILITY:** air and moisture stable

**HAZARDOUS POLYMERIZATION:** no hazardous polymerization **CONDITIONS TO AVOID:** Contact of dust cloud with an ignition source.

**INCOMPATIBILITY:** none

**DECOMPOSITION PRODUCTS:** hydrogen sulfide, sulfur dioxide, and metal oxides

## **SECTION 11** Toxicological Information

RTECS DATA: No specific information available on this product.

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.

## **SECTION 12** Ecological Information

**ECOLOGICAL INFORMATION:** No information available

# **SECTION 13** Disposal Considerations

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

## **SECTION 14** Transportation Information

Non-hazardous

Non-hazardous

# **SECTION 15** Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound : See category N495 for reporting.

### **SECTION 16 Other Information**

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

**DATE PREPARED: 4/06**