

## Material Safety Data Sheet

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CHEM-TREC: 1-800-424-9300  
EMERGENCY: 1-815-398-1788

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### SECTION I IDENTIFICATION

Product Name: **NICKEL (IV) SULFIDE**  
Formula: NiS<sub>2</sub>  
CAS #: 12035-51-7

### SECTION II HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	HAZARD DATA
		OSHA PEL:    ACGIH TLV:
NICKEL (IV) SULFIDE	100%	Not Determined

### SECTION III PHYSICAL DATA

Boiling Point: No Data  
Specific Gravity (Water=1): No Data  
Vapor Pressure (mm Hg): Not Applicable  
Percent Volatile by Volume: Not Applicable  
Vapor Density (Air=1): Not applicable  
Molecular Weight: 122,84  
Melting Point (C°): No Data  
Solubility in Water: No Data  
Appearance, Odor, and Other: Gray to Black powder

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	Autoignition Temp.	Flammable limits
Non-combustible	Not applicable	Not applicable

EXTINGUISHING METHOD: CO<sub>2</sub>, Water spray

#### FIRE/EXPLOSION HAZARDS:

No special firefighting procedures needed. Use normal conditions which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame and chemical resistant clothing; hats, boots and gloves. If without risk remove material from fire area.

SPECIAL FIREFIGHTING: None Known

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Upon decomposition, toxic fumes are released.

## SECTION V HEALTH DATA

TOXIC MATERIAL,  
POTENTIAL CANCER RISK  
IRRITATING TO SKIN, EYES, MUCOUS MEMBRANES.

ADDITIONAL TOXICOLOGICAL INFORMATION: To the best of our knowledge the acute and chronic toxicity of this compound is not fully known.

EFFECTS OF OVEREXPOSURE:

EYE CONTACT: This material may cause an irritant effect on eyes.

SKIN CONTACT: May cause irritation to skin; can be absorbed thru skin.

INHALATION: May cause irritation to nose, throat and respiratory tract.

INGESTION: May be harmful if swallowed.

**EMERGENCY AND FIRST AID PROCEDURES:** Remove from exposure.

**EYES:** Flush with copious amounts of water for at least 15 minutes while removing any contaminated clothing and shoes. Assure adequate flushing of the eyes by separating eyelids with fingers. Consult a physician. **SKIN:** Remove any contaminated clothing. Wash skin with soap and water. If redness or irritation persists, seek medical attention. **INHALATION:** Move patient to fresh air. If not breathing give CPR. Administer oxygen if breathing is difficult and seek medical attention immediately. **INGESTION:** Seek immediate competent medical attention. Never give anything by mouth to an unconscious person. **Do not induce vomiting.**

## SECTION VI REACTIVITY DATA

GENERAL REACTIVITY: Stable

INCOMPATIBILITY: Strong acids, strong oxidizing agents.

CONDITIONS TO AVOID: None Known

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Sulfur oxides, hydrogen sulfide gas

HAZARDOUS POLYMERIZATION: Will not occur

## **SECTION VII SPILL PROCEDURES, DISPOSAL REQUIREMENTS**

### **Wear appropriate respiratory and protective equipment .**

Evacuate area. Absorb spill with inert material, then place in applicable chemical waste container tightly sealed. Label drum for disposal. Clean up spills immediately, observing all precautions . Retain all contaminated soilage for removal and treatment. Do not place material in glass containers. **WASTE DISPOSAL:** Consult waste disposal facility capable of handling this type of chemical.

## **SECTION VIII SPECIAL PROTECTION INFORMATION**

### **PROTECTIVE EQUIPMENT SUMMARY:**

**RESPIRATORY PROTECTION:** NIOSH/MSHA approved dust respirator. when proper ventilation is not available.

**VENTILATION:** Mechanical: Adequate Local: Below TLV

**PROTECTIVE GLOVES:** Impervious gloves

**EYE PROTECTION:** ANSI approved safety goggles, glasses with side shields, or face shield.

**OTHER:** Protective gear suitable to prevent contamination and contact with material.

**WORK/HYGIENE/MAINTENANCE PRACTICES:** Safety shower/eye bath should be readily available. Use in a controlled environment. Maintain good housekeeping and sanitation practices to avoid contact and contamination of area. Do not eat or drink in work area. Wash thoroughly after using. Do not smoke in area.

**STORAGE: HYGROSCOPIC.** Make sure lid is tightly on bottle after use. Store in a cool, dry well ventilated area. Store away from acids and oxidizers.

**PRECAUTIONS: TOXIC CANCER SUSPECT. IRRITANT.** May cause irritation to skin, eyes, mucous membranes. Use with adequate ventilation. Use adequate protection when handling material. Handle in a controlled environment. Precautions to be take when handling and storing: Close container tightly when not in use. Use due care when handling. Do not breathe dust. Avoid contact with skin, eyes, clothing. Wear adequate protective gear when handling

Date Prepared:

Safety Dept. 1/06

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