MATERIAL SAFETY DATA SHEET

I PRODUCT IDENTIFICATION

Trade Name: Chemical Family: CAS #: Iron II Sulfide Metal sulfide 1317-37-9 Synonyms: Formula:

TLV: None Established

Ferrous Sulfide FeS

II HAZARDOUS INGREDIENTS

Iron II Sulfide%: 100

III PHYSICAL DATA

Boiling Point:DecomposesFreeze/Melting Point:1195 °CVapor Density:Not applicableVapor Pressure:Essentially zero% Volatiles:0 %Specific Gravity:4.74 (H2O=1)Solubility in H2O:InsolubleAppearance and Odor:Black powder, no odor.

PEL: None Established

IV FIRE AND EXPLOSION HAZARDS DATA

Flash Point (Method used):N/AFlammable Limits:N/AUpper:N/ALower:N/A

Autoignition Temperature: No data Unusual Fire & Explosion Hazard: N/A

Extinguishing Media: Flammable solid. Do not use water. Use dry chemical extinguishing agents, dry sand, or dry dolomite.

Special Fire Fighting Procedures: Finely powdered iron disulfide, especially in the presence of moisture, will rapidly heat spontaneously and ignite, particularly in contact with combustible materials. Use normal procedures 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.

V HEALTH HAZARD INFORMATION

OSHA (PEL): None established

ACGIH (TLV): None established

Animal Toxicity: LD50: No data; LC50: No data; Other: No data

Effects of Exposure:

Acute Effects: Ingestion: May cause irritation to the gastrointestinal tract if swallowed.
Skin Contact: May cause irritation. Skin absorption is unlikely.
Eye Contact: May cause irritation.
Inhalation: May cause irritation.
Other Health Hazards: Little toxic action except through the liberation of hydrogen sulfide.
Most Likely Routes of Entry: Ingestion.

Chronic Effects: Ingestion: None known Skin Contact: None known Eye Contact: None known Inhalation: None known Other: Not listed as a carcinogen by IARC or NTP.

EMERGENCY AND FIRST AID PROCEDURES:

EYE: Immediately flush eyes, including under eyelids, with large amounts of water for at least 15 minutes. Call a physician. **SKIN**: Remove contaminated clothing, flood skin with large amounts of water. If irritation persists seek medical attention. **INHALATION**: No specific information available, one should obtain medical attention.

VI REACTIVITY DATA

Stability: Stable **Incompatibility (Material to Avoid)**: Lithium, steel, acids. **Hazardous Decomposition Products**: Fumes of SOx, H₂S. **Hazardous Polymerization**: Will not occur

Environmental Information:

RCRA Code: D003 TSCA Registered: Yes

VII SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled: Wearing full protective equipment, cover spill with dry sand or vermiculite. Mix well and carefully transfer to a container.

Waste Disposal Method: Consult State, Local or Federal EPA regulations for proper disposal.

VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection: High efficiency particulate respirator. **Ventilation**: Laboratory fume hood.

Protective Gloves: Rubber **Eye/Face Protection**: ANSI approved safety goggles.

IX SPECIAL PRECAUTIONS

Other Handling and Storage Conditions: Keep container tightly closed. Store in a cool, dry, well ventilated area. Wash thoroughly after use. Lab coat and apron, flame and chemical resistant coveralls, eyewash capable of sustained flushing, safety drench shower and hygienic facilities for washing.

Issued: Steve Dierks Date: July 1993