



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Iron (II) sulfide**

PRODUCT NO: 2092

CAS NO: 1317-37-9

SYNONYMS: Ferrous sulfide

### MANUFACTURER:

Prochem, Inc.  
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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a dangerous substance according to the GHS

### HMIS CLASSIFICATION:

Health: 0 Flammability: 0 Reactivity: 0

### NFPA RATING:

Health: 0 Fire: 0 Reactivity Hazard: 0

**EYE CONTACT:** Causes moderate irritation of the eyes.

**SKIN CONTACT:** Causes slight irritation of the skin.

**INHALATION:** Inhalation of dust will lead to irritation of the respiratory tract. Hydrogen sulfide gas, if formed, is poisonous.

**INGESTION:** Gastric juices may cause release of toxic hydrogen sulfide.

**ACUTE HEALTH EFFECTS:** Hydrogen sulfide gas may cause painful conjunctivitis, headache, nausea, dizziness, pulmonary edema and possible death. Irritating to skin, eyes and respiratory tract.

**CHRONIC HEALTH EFFECTS:** No information available on long-term chronic effects.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: FeS

Molecular Weight: 87.91

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Iron (II) sulfide	1317-37-9	100	No data	No data

## 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 flammable or combustible

**AUTO IGNITION TEMPERATURE:** No data

**EXPLOSION LIMITS:** No data

**EXTINGUISHING MEDIUM:** Carbon dioxide or dry powder

**SPECIAL FIRE FIGHTING 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 irritating fumes of hydrogen sulfide and sulfur dioxide.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** Dust may form explosive mixtures with air. Contact with acids gives off hydrogen sulfide, a toxic and flammable gas.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, or gas.

**ENVIRONMENTAL PRECAUTIONS:** Do not let product enter drains.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** In the case of a small 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

**PRECAUTIONS FOR SAFE HANDLING:** Provide appropriate exhaust ventilation at places where dust is formed.

**CONDITIONS FOR SAFE 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. Store under inert gas. Protect from moisture.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

**SKIN PROTECTION:** Chemical resistant gloves.

**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.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Black powder

**MELTING POINT:** 1195° C

**BOILING POINT:** No data available

**MOLECULAR WEIGHT:** 87.91

**ODOR:** Odorless

**SPECIFIC GRAVITY:** 4.84 gm/ml

**SOLUBILITY IN WATER:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Contact of dust cloud with an ignition source. Contact with acids. Protect from moisture.

**INCOMPATIBILITY:** Oxidizing agents, mineral acids, halogens, acids, and active metals

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

## SECTION 11 TOXICOLOGICAL DATA

**RTECS DATA:** No information available in the RTECS files.

**CARCINOGENIC EFFECTS:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

**MUTAGENIC EFFECTS:** No data

**TETRATOGENIC EFFECTS:** No data

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

## SECTION 12 ECOLOGICAL DATA

**TOXICITY:** LC50-Gambusia affinis (Mosquito fish) - > 10.000 mg/l – 96.0 h

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state and federal regulations.

## SECTION 14 TRANSPORTATION DATA

Non-hazardous material

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA Inventory

**NATIONAL REGULATIONS:** All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL).

**SARA 302 COMPONENTS:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA (TITLE 313):** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** No components are subject to the Massachusetts Right to Know Act.

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Iron sulphide

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Iron sulphide

**CALIFORNIA PROP. 65 COMPONENTS:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## 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:** 03/14

**SDS DEPT.**