

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Iron Disulfide

Chemical Formula: FeS₂

Manufacturer Item Number: IR-2380

Manufacturer: Lorad Chemical Corporation
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2. HAZARD IDENTIFICATION

Signal Word: Danger

Pictograms:



Hazard Statements: H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements: P261 Avoid breathing dust / fumes / gas / mist / vapors / spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P285 In case of inadequate ventilation wear respiratory protection.
P302 + P352 If on skin, wash with plenty of soap and water.
P304 + P341 If inhaled, if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P33 + P313 If skin irritation or rash occurs: get medical advice / attention.
P342 + P311 If experience respiratory symptoms: Call a poison control center or physician.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P501 Dispose of contents / container to an approved waste disposal plant.

HMIS Health Ratings (0-4)

- Health: 0
- Flammability: 0
- Physical: 0

3. COMPOSITION

Additional Names: Ferrous disulfide

Percentage: 100 wt%

CAS #: 1317-37-9

EC #: 215-268-6

4. FIRST AID PROCEDURES

General Treatment	Consult a physician. Show SDS to doctor in attendance. Move out of dangerous area.
Special Treatment:	No data available.
Important Symptoms:	No data available.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin:	Wash off with soap and plenty of water. Consult a physician.
Eyes:	Flush eyes with water as a precaution.

5. FIREFIGHTING MEASURES

Flammability:	No
Special Hazards from Substance:	Sulfur oxides, Hydrogen, Sulfide iron oxides
Extinguishing Media:	Carbon dioxide, extinguishing powder or water spray. For larger fires, use water spray or alcohol resistant foam.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in closed container for disposal.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

7. HANDLING AND STORAGE

Handling Conditions:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. This product is moisture sensitive so handle under inert gas.
Storage Conditions:	Keep container tightly sealed and stored in a cool, dry place. Do not store with acids. Store away from air, water/moisture and oxidizing agents.
Work / Hygienic Maintenance:	Keep away from foodstuffs, beverages, and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment.
Ventilation:	Store away from air.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits:

Threshold Limit Value:	Components with limit values that require monitoring at the workplace: REL (USA) - long term value: 1 mg/m ³ as Fe TLV (USA) - long term value: 1 mg/m ³ as Fe EL (Canada) - short term value: 2 mg/m ³ , long term value: 1 mg/m ³ as Fe
Special Equipment:	None.
Respiratory Protection:	Use suitable respirator when high concentrations are present.
Protective Gloves:	Handle with nitrile gloves. Inspect gloves prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye Protection:	Face shield and safety glasses.
Body Protection:	Protective work clothing.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:	gray
Forms:	powder
Odor:	odorless
Water Solubility:	No data available.
Boiling Point:	No data available.
Melting Point:	No data available.
Flash Point:	No data available.
Autoignition Temperature:	No data available.
Density:	No data available.
Molecular Weight:	119.98 g/mol

10. REACTIVITY

Stability:	Stable under recommended storage conditions.
Reacts with:	Contact with acids liberates toxic gas.
Incompatible Conditions:	Water/moisture, oxidizing agents, air, acids
Hazardous Decomposition Products:	Sulfur oxides, Hydrogen sulfide, Iron oxides

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:	
- Eyes	May cause irritation.
- Skin	May cause irritation.
- Ingestion	No Data Available.
- Inhalation	No Data Available.
- Chronic	No Data Available.
Signs and Symptoms:	No Data Available.

Aggravate Medical Conditions:	No Data Available.
Median Lethal Dose:	No Data Available.
Carcinogen:	<p>IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</p> <p>ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by ACGIH.</p> <p>NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by NTP.</p> <p>OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by OSHA.</p>

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	No data available.
Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available.
Notes:	Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.

13. DISPOSAL CONSIDERATIONS

Disposal:	Dispose of in accordance with local, state, national, and international regulations.
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14. TRANSPORTATION DATA

Hazardous:	DoT: Not dangerous goods.
Pictogram:	N/A
Hazard Class:	9
Packing Group:	III
UN Number:	3077
Proper Shipping Name:	Environmentally hazardous substance, solid, n.o.s. (Iron disulfide, -100 mesh)

15. REGULATORY INFORMATION

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	No material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimus) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Acute Health Hazard
Massachusetts Right to Know Components	No components are subject to Ma. Right to Know Act.
Pennsylvania Right to Know Components	Iron Disulfide, powder, -100 mesh (CAS No. 12068-85-8)
New Jersey Right to Know Components	Iron Disulfide, powder, -100 mesh (CAS No. 12068-85-8)

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Copyright 2017 Lorad Chemical Corporation. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety standards. It does not represent a guarantee of the properties of the product. Lorad Chemical Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.