

LTS Research Laboratories, Inc. Safety Data Sheet Iron Sulfide

1. Product and Company Identification

Trade Name: Iron Sulfide

Chemical Formula: FeS

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

> Street: 37 Ramland Road City: Orangeburg State: New York 10962 Zip Code: Country: **USA**

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: None

Hazard Statements: None

Precautionary Statements: None

HMIS Health Ratings (0-4):

Health: Flammability: Physical:

3. Composition

Chemical Family:

Additional Names: Ferrous Sulfide; Iron Sulphide, Iron(II) Sulfide

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Iron Sulfide (FeS):

0-100 wt% Percentage: CAS #: 1317-37-9 EC #: 215-268-6

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Ingestion:

Never induce vomiting or give anything by mouth to an unconscious

person. Rinse mouth with water.

Wash affected area with mild soap and water. Remove any Skin:

contaminated clothing.

Flush eyes with water, blinking often for several minutes. Remove Eyes:

contact lenses if present and easy to do. Continue rinsing.

5. Firefighting Measures

Flammability: Non-flammable

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes. See section 10 for

decomposition products.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in

special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Handle under dry protective gas. Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart from

materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A

Threshold Limit Value: 1 mg/m³ as Fe, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:
Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Brown-Black

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor:
Water Solubility:
Boiling Point:
Melting Point:
Flash Point:
Autoignition Temperature:
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
Density:
4.74 g/cc

Molecular weight: 87.91 g/mol

	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, Acids (reaction releases toxic gas)
Incompatible Conditions:	Water/moisture, Air, Hydrogen peroxide.
Hazardous Decomposition Products:	Metal oxide fume, Sulfur Oxides (SOx), Hydrogen Sulfide, Iron
2 Consposition 2 Country	Oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	200- mg/kg for rat by mouth
Carcinogen:	IARC: No component of this product present at levels greater than or
	equal to 0.1% is identified as probable, possible or confirmed human
	carcinogen by IARC.
	NTP: No component of this product present at levels greater than or
	equal to 0.1% is identified as a known or anticipated carcinogen by
	NTP.
	OSHA: No component of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
	OSHA.
	12. Ecological Information
Aquatic Toxicity:	(Toxicity to fish LC50-Gambusia affinis (Mosquito fish): 10,000 mg/l
	96 h)
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	N/A
	13. Disposal Considerations
Dispose of in accordance with local, state	, national, and international regulations.
	14. Transportation Data
Hazardous:	Not hazardous for transportation.
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	No

No

Sec 313 Toxic Chemicals:

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 02/14/2018

