

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Lithium Sulfide

Chemical Formula: Li₂S

Manufacturer Item Number: LI-2920

Manufacturer: Lorad Chemical Corporation
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2. HAZARD IDENTIFICATION

Signal Word: Danger

Pictograms:



Hazard Statements: H228 Flammable solid
H261 In contact with water, releases flammable gas
H302 Toxic if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements: P210 Keep away from heat/sparks/flame. No smoking.
P231+P232 Handle under inert gas
P261 Avoid breathing dust/fume/vapor
P305+P351 If in eyes: Rinse cautiously with water for several minutes.

HMIS Health Ratings (0-4)

- Health: 2
- Flammability: 2
- Physical: 2

3. COMPOSITION

Additional Names: Lithium Sulphide

Percentage: 100 wt%

CAS #: 12136-58-2

EC #: 235-228-1

4. FIRST AID PROCEDURES

General Treatment	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Give one or two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

5. FIREFIGHTING MEASURES

Flammability:	Flammable
Special Hazards from Substance:	Reacts violently with water
Extinguishing Media:	Do NOT use water — use CO ₂ , sand, or extinguishing powder.
Special Fire Fighting Procedures:	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 inert gas. Keep container tightly sealed. 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:	No Data Available.
Threshold Limit Value:	No Data Available.
Special Equipment:	None
Respiratory Protection:	Gas respirator

Protective Gloves:	Handle with gloves. Gloves must be inspected 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:	Safety glasses or goggles
Body Protection:	Protective work cloths. Wear close-toed shoes and long sleeves/pants.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:	Pale yellow to white
Forms:	Granules, Powder
Odor:	Rotten eggs
Water Solubility:	High, reacts
Boiling Point:	1,372°C
Melting Point:	938°C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	1.66 g/cc
Molecular Weight:	45.95 g/mol

10. REACTIVITY

Stability:	Stable under recommended storage conditions.
Reacts with:	Reacts violently with water. Contact with acids releases toxic gas.
Incompatible Conditions:	Moisture / water, Light
Hazardous Decomposition Products:	Hydrogen Sulfide, Lithium Oxide, Sulfur Oxide

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:	
- Eyes	May cause serious irritation.
- Skin	May cause irritation.
- Ingestion	May cause irritation.
- Inhalation	May cause irritation.
- Chronic	N/A
Signs and Symptoms:	N/A
Aggravate Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	Low
Persistence and degradability:	No Data Available.
Bioaccumulative potential:	No Data Available.
Notes:	Do not allow material to be released into the environment without proper government 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.

14. TRANSPORTATION DATA

Hazardous: Hazardous for transportation

Pictogram:



Hazard Class: 4.3 Substances which in contact with water release flammable gases

Packing Group: II

UN Number: UN2813

Proper Shipping Name: Water-reactive solid, n.o.s. (Lithium Sulfide)

15. REGULATORY INFORMATION

SARA 302 Components	No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	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.
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	Lithium Sulfide (CAS No. 12136-58-2)
New Jersey Right to Know Components	Lithium Sulfide (CAS No. 12136-58-2)
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.

Revision Date: 05/06/2016