



Date prepared: 2021/11/1

Safety Data Sheet (SDS)

1 . Product and Company Identification

Product name : Lithium sulfide
Recommended use : Research and development
Name of supplier : Chengdu Hipure Hightech Mater
Address : Sichuan Meishan nigh-tech ndustry
Contact : 028-38555803

2 . Hazards Identification

GHS classification

a.) **Physical and chemical hazard** : No data available
b.) **Health hazard** : No data available
c.) **Environmental hazard** : No data available

3 . Composition/Information on Ingredients

Name : Lithium sulfide
Ingredients : Li₂S >99.9%
Formula : Li₂S
CAS No. : 12136-58-2
CAS Name : Lithium sulfide
Substance or mixture : Substance

4 . First aid measures

If inhaled : Supply patient with fresh air. If not breathing, provide artificial respiration. Seek medical treatment immediately.

- In case of skin contact** : Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
- In case of eye contact** : Rinse opened eye for 15 minutes under running water. Consult a physician immediately.
- If swallowed** : Rinse mouth with water, consult a physician immediately. Never give anything by mouth to an unconscious person and seek medical treatment immediately.
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5 . Fire-fighting measures

- Extinguishing media** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media** : Water; Foam
- Specific hazards** : Sulfur oxides ; Lithium oxides
- Precautions for fire-fighters** : Keep upwind of fire. Avoid inhalation of toxic gas. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
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6 . Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : For personal protection see section 8. Use personal protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
- Environmental precautions** : Do not flush to sewer or allow to enter waterways
- Methods and materials for containment and cleaning up** : Dispose of contaminated material as waste according to section 13
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7 . Handling and Storage

Precautions for safe handling : Avoid touching or getting into the skin, mucous membranes or clothing. Wear appropriate protective equipment such as protective glasses and gloves.

Handle in a dry and well-ventilated place and absolutely avoid contact with water.

Storage conditions : Store in a sealed container in a dry and well-ventilated place. Store away from flammable substances and heat sources. Never contact with water during storage.

8 . Exposure Control and Personal Protection

Control parameters : No data available

Protective equipment

- a.) **Respiratory protection** : Wear respiratory protective equipment(dusk mask)
- b.) **Hand protection** : Protective gloves
- c.) **Eye protection** : Wear protective glasses
- d.) **Skin and body protection** : Wear long-sleeved work clothes. Wear protective boots as needed.

9 . Physical and chemical properties

Appearance : Powder

Odor : No data available

pH : No data available

Melting point : 900-975°C

Initial boiling point and boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability(solid, gas) : The product is not flammable.

Upper/lower flammability or explosive limits : No data available

Vapor pressure : No data available

Vapor density	: No data available
Relative density	: No data available
Water solubility	: No data available
Partition coefficient : n-octanol/water:	No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

1 0 . Stability and reactivity

Reactivity	: No data available
Chemical stability	: Hygroscopicity. Deliquescent. Thermal decomposition produces gas of toxic sulfur oxides.
Hazardous reactions	: No data available
Conditions to avoid	: Contact with water
Incompatible materials	: Water
Hazardous decomposition products:	Sulfur oxides.

1 1 . Toxicological Information

Acute toxicity	: No data available
Skin corrosion/irritation	: Causes skin burns.
Serious eye damage/eye irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: No data available
Reproductive toxicity	: Lithium and its compounds are possible teratogens by analogy to lithium carbonate which has equivocal human teratogenic data and positive animal teratogenic data.

Specific target organ toxicity - single exposure : No data available

Specific target organ toxicity - repeated exposure : No data available

Aspiration hazard : No data available

1 2 . Ecological Information

Toxicity : No data available

Persistence-Degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

1 3 . Disposal Considerations

Waste treatment methods : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Dispose of contaminated containers properly in accordance with relevant **statutory** standards

1 4 . Transport Information

UN number

ADR/RID: 2923

IMDG: 2923

IATA-DGR: 2923

UN proper shipping name

ADR/RID: CORROSIVE SOLID, TOXIC, N.O.S. (Lithium sulfide)

IMDG: CORROSIVE SOLID, TOXIC, N.O.S. (Lithium sulfide)

IATA-DGR: Corrosive solid, toxic, n.o.s. (Lithium sulfide)

Transport hazard class(es)

ADR/RID: 8 (6.1)

IMDG: 8 (6.1)

IATA-DGR: 8 (6.1)

Packaging group

ADR/RID: II

IMDG: II

IATA-DGR: II

Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA-DGR: no

Special precautions for user

None

Incompatible materials

Do not store near acids.

1 5 . Regulatory Information

No data available

1 6 . Other Information

The contents of the description are based on the materials, information, data, etc. obtained at the time of preparation of this sheet, but we do not guarantee the content, physicochemical properties, hazards or harmfulness. In addition, the precautions are intended for normal handling, and in the case of special handling, it is the responsibility of the user to take appropriate measures according to the actual conditions of individual handling. Please be careful enough.