Heegermaterials

SAFETY DATA SHEET

Revision Date 18-Feb-2020 **Revision Number 2**

1. Identification

Lithium sulfide **Product Name**

Cat No.: 12136-58-2

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Heeger Materials Inc. 230 Steele St Denver CO 80206 **United States**

Tel: 925-385-8104

Email: sales@heegermaterials.com www.heegermaterials.com

Emergency Telephone Number

Ser Mate During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Category 3 Skin Corrosion/Irritation Category 1 B Serious Eye Damage/Eye Irritation Category 1 Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

Label Elements

Signal Word

Danger

Hazard Statements

Toxic if swallowed

Causes severe skin burns and eye damage

May cause respiratory irritation

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Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Ingestion

Rinse mouth

Do NOT induce vomiting

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Contact with water liberates toxic gas

3. Composition/Information on Ingredients

Component	CAS-No	Weight %		
Lithium sulfide (Li2S)	12136-58-2	<=100		

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

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Most important symptoms and

effects

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue

and danger of perforation

Treat symptomatically **Notes to Physician**

5. Fire-fighting measures

Suitable Extinguishing Media Dry sand. Carbon dioxide (CO₂). Powder. Do not use water or foam. CO₂, dry chemical,

dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

No information available **Flash Point** Method -No information available

Autoignition Temperature

Explosion Limits

No data available

No information available

Upper Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Contact with water liberates toxic gas.

Hazardous Combustion Products

Sulfur oxides. Lithium oxide. Hydrogen sulfide (H2S).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health **Flammability** Physical hazards 3 0 W

6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Avoid dust formation. Evacuate personnel

to safe areas. Ensure adequate ventilation. Keep people away from and upwind of

spill/leak.

Environmental Precautions Should not be released into the environment. Do not allow material to contaminate ground

water system. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Do not

expose spill to water. Up

7. Handling and storage

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on Handling

clothing. Use only under a chemical fume hood. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe (dust, vapor, mist, gas). Avoid dust

formation. Do not allow contact with water.

Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. Storage

Keep away from water or moist air.

8. Exposure controls / personal protection

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limitsestablished by the region specific regulatory bodies.

Ensure that eyewash stations and safety showers are close to the workstation location. **Engineering Measures**

Personal Protective Equipment

Exposure Guidelines

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection**

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

This product does not contain any hazardous materials with occupational exposure

EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure. Skin and body protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard **Respiratory Protection**

> EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures**

9. Physical and chemical properties

Physical State Appearance

Odor

Odor Threshold

Melting Point/Range

Boiling Point/Range

Flash Point **Evaporation Rate**

Flammability (solid,gas)

eger Ma Flammability or explosive limits

Upper Lower **Vapor Pressure Vapor Density** Specific Gravity

Solubility

Partition coefficient; n-octanol/water

Autoignition Temperature Decomposition Temperature

Viscosity

Molecular Formula Molecular Weight

Solid Yellow Rotten-egg like

No information available No information available

900 - 975 °C / 1652 - 1787 °F

No information available No information available

Not applicable

No information available

No data available

No data available No information available

Not applicable 1.66 a/cm3

Decomposes in contact with water

No data available No information available No information available

Not applicable

Li₂S 45.95

10. Stability and reactivity

Reactive Hazard Yes

Moisture sensitive. Stability

Conditions to Avoid Exposure to moist air or water. Exposure to moisture.

Incompatible Materials Acids, Water, Strong oxidizing agents

Hazardous Decomposition Products Sulfur oxides, Lithium oxide, Hydrogen sulfide (H2S)

Hazardous polymerization does not occur. **Hazardous Polymerization**

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Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Lithium sulfide (Li2S)	LD50 = 240 mg/kg (Rat)	Not listed	Not listed		

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Lithium sulfide (Li2S)	12136-58-2	Not listed				

No information available **Mutagenic Effects**

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

delayed

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes

severe swelling, severe damage to the delicate tissue and danger of perforation

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system. Reacts with water so no ecotoxicity data for the substance is available.

Persistence and Degradability May persist based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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14. Transport information

DOT

UN2923 **UN-No**

Proper Shipping Name Corrosive solid, toxic, n.o.s. Lithium sulfide (Li2S) **Technical Name**

Hazard Class Subsidiary Hazard Class 6.1 Packing Group Ш

TDG UN2923 **UN-No**

Proper Shipping Name Corrosive solid, toxic, n.o.s.

Hazard Class Subsidiary Hazard Class 6.1 **Packing Group** Ш

IATA UN2923 **UN-No**

Proper Shipping Name Corrosive solid, toxic, n.o.s.

Hazard Class Subsidiary Hazard Class 6.1 Packing Group

IMDG/IMO **UN-No**

> Corrosive solid, toxic, n.o.s. **Proper Shipping Name**

UN2923

Hazard Class **Subsidiary Hazard Class** 6.1 Packing Group 1

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Lithium sulfide (Li2S)	12136-58-2	Χ	ACTIVE	-
Legend: TSCA - Toxic Substances Control A X - Listed '-' - Not Listed	act, (40 CFR Part 710)		ais Inc	
TSCA 12(b) - Notices of Export	Not applicable	e		

Not applicable TSCA 12(b) - Notices of Export

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

L	Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
	Lithium sulfide (Li2S)	12136-58-2	-	Х	235-228-1	ı	Х	-	-	KE-22592

U.S. Federal Regulations

SARA 313 Not applicable

See section 2 for more information SARA 311/312 Hazard Categories

CWA (Clean Water Act) Not applicable Clean Air Act Not applicable

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OSHA - Occupational Safety and

Health Administration

Not applicable

Not applicable **CERCLA**

This product does not contain any Proposition 65 chemicals. California Proposition 65

U.S. State Right-to-Know

Regulations

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν **DOT Severe Marine Pollutant** Ν

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

16. Other information

18-Feb-2020 **Revision Date** 18-Feb-2020 **Print Date**

Revision Summary SDS authoring systems update, replaces ChemGes SDS No. 12136-58-2.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information als Inc relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS