Heegermaterials

SAFETY DATA SHEET

Revision Date 24-Jan-2023

Revision Number 5

1. Identification				
Product Name	Lithium Sulfate Monohydrate			
Cat No. :	AC193390000; AC193391000; AC193395000			
CAS No Synonyms	10102-25-7 Sulfuric acid, dilithium salt			
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.			
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 Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Telephone Number For information US call: 001-800-4CROS-01 / Europe call: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887				
	2. Hazard(s) identification			
Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)				

Acute oral toxicity Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 4 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed Causes serious eye irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear eye/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

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

Call a POISON CENTER or doctor/physician if you feel unwell

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

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

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Lithium sulfate monohydrate	10102-25-7	>95
Lithium sulfate	10377-48-7	• 0

4. First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.			
Inhalation	Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.			
Ingestion	Clean mouth with water. Get medical attention.			
Most important symptoms and	No information available.			
effects Notes to Physician	Treat symptomatically			

	5. Fire-fighting m	easures	
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO	2). Dry chemical. Chemica	al foam.
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits	No information available		
Upper Lower Sensitivity to Mechanical Impa Sensitivity to Static Discharge	No data available No data available t No information available No information available		
Specific Hazards Arising from the Keep product and empty container as		n.	
Hazardous Combustion Products Sulfur oxides. Protective Equipment and Precaut As in any fire, wear self-contained bre protective gear. NFPA		l, MSHA/NIOSH (approve	d or equivalent) and full
Health 2	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental releas	e measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use See Section 12 for additional Eco	personal protective equip logical Information.	ment as required.
Methods for Containment and Clea			Do not let this chemical enter the
	7. Handling and	storage 🗸	1
Handling	Avoid contact with skin and eyes. seek immediate medical assistan		not ingest. If swallowed then
Storage.	Keep in a dry, cool and well-venti Materials. Strong oxidizing agent		er tightly closed. Incompatible
8. E	xposure controls / per	sonal protectio	n
Exposure Guidelines	This product does not contain any limitsestablished by the region sp		n occupational exposure
Engineering Measures	Ensure adequate ventilation, esp and safety showers are close to t		Ensure that eyewash stations
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeg OSHA's eye and face protection r EN166.		

Skin and body protection

Respiratory Protection

Hygiene Measures

Wear appropriate protective gloves and clothing to prevent skin exposure.

No protective equipment is needed under normal use conditions.

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Appearance Odor **Odor Threshold** pН Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature** 321 Decomposition Temperature Viscosity Molecular Formula **Molecular Weight**

Powder Solid White Odorless No information available No information available 860 °C / 1580 °F No information available No information available No information available No information available

No data available No data available No information available No information available No information available No data available No information available No information available No information available Li2 O4 S . H2 O 127.96

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
Conditions to Avoid	Incompatible products. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Sulfur oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information

LD50 Oral	LD50 Dermal	LC50 Inhalation
LD50 = 613 mg/kg (Rat)	Not listed	Not listed
No information available		
as well as chronic effects from	short and long-term exposure	
	LD50 = 613 mg/kg (Rat) No information available	LD50 = 613 mg/kg (Rat) Not listed

Irritation	Irritating to eyes
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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 sulfate	10102-25-7	Not listed	Not listed	Not listed	Not listed	Not listed				
monohydrate	10077 40 7									
Lithium sulfate	10377-48-7	Not listed No information	Not listed	Not listed	Not listed	Not listed				
Mutagenic Effects		no mormation	available							
Reproductive Effect	ts	No information available.								
Developmental Effe	cts	No information available.								
Teratogenicity		No information	available.							
STOT - single exposision STOT - repeated ex		Respiratory sys None known	stem							
Aspiration hazard		No information	available							
Symptoms / effects delayed	,both acute and	No information	available							
Endocrine Disrupto	r Information	No information	available							
Other Adverse Effe	cts	The toxicologic complete inform	al properties have not b nation.	been fully investig	gated. See actual	entry in RTECS for				
		12. Ec	ological inform	nation						
Ecotoxicity Do not empty into dra	ains.			a1~						
Component		ater Algae	Freshwater Fish	Microte		Water Flea				
Lithium sulfate		ot listed	Not listed	Not liste		: 196.79 mg/L/24h				
Persistence and De	gradability	Soluble in wate	er Persistence is unlikely	y based on inform	nation available.					
Bioaccumulation/ A	ccumulation	n No information available.								
Mobility		Will likely be mobile in the environment due to its water solubility.								
		13. Dis	posal consider	rations						
Waste Disposal Met	•					al is classified as a				

14. Transport information		
DOT TDG IATA IMDG/IMO	Not regulated	
TDG	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Lithium sulfate monohydrate	10102-25-7	-	-	-
Lithium sulfate	10377-48-7	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

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

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Lithium sulfate monohydrate	10102-25-7	-	-	-	Х	-		Х	Х	-
Lithium sulfate	10377-48-7	Х	-	233-820-4	Х	Х	Х	Х	Х	KE-22591

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available
Authorisation/Restrictions accordin	ng to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Lithium sulfate monohydrate	10102-25-7	Not applicable	Not applicable	Not applicable	Not applicable
Lithium sulfate	10377-48-7	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Lithium sulfate monohydrate	10102-25-7	Not applicable	Not applicable	Not applicable	Not applicable
Lithium sulfate	10377-48-7	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Revision Date Print Date Revision Summary

24-Jan-2023 24-Jan-2023

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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 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

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