

Lithium sulfate monohydrate**62609-100G**

Version 1.3

Issuing date 03/02/2017

Revision Date 04/26/2024

Print Date 04/27/2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : Lithium sulfate monohydrate

Number : 000000021399

Recommended use of the chemical and restrictions on use : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926
Germany

For further information, please contact: : 1-800-368-0050
+1-231-726-3171
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
In Japan: 0800-300-5842

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Classification of the substance or mixture : Acute toxicity, Category 4, Oral
Eye irritation, Category 2A

GHS Label elements, including precautionary statements

Symbol(s) :



Signal word

: Warning

Lithium sulfate monohydrate**62609-100G**

Version 1.3

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Hazard statements : Harmful if swallowed.
Causes serious eye irritation.

Precautionary statements : **Prevention:**
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Rinse mouth.
If eye irritation persists: Get medical advice/ attention.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTSFormula : $\text{Li}_2\text{SO}_4 \cdot \text{H}_2\text{O}$

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Lithium sulfate monohydrate	10102-25-7	100.00 %
Lithium sulfate monohydrate		

Note: none

4. FIRST AID MEASURES

General advice : First aider needs to protect himself.
Move out of dangerous area.
Take off all contaminated clothing immediately.

Lithium sulfate monohydrate**62609-100G**

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Show this safety data sheet to the doctor in attendance.

Inhalation	: If inhaled, remove to fresh air. Call a physician if irritation develops or persists.
Skin contact	: After contact with skin, wash immediately with plenty of water. Get medical attention if irritation develops and persists.
Eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion	: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give a cupful of water. Call a physician.
Notes to physician	: Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray Foam Carbon dioxide (CO ₂) Dry powder
Specific hazards during firefighting	: The product is not flammable. Fire may cause evolution of: Lithium oxide Sulphur oxides
Special protective equipment for firefighters	: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and	: Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons
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Lithium sulfate monohydrate**62609-100G**

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- emergency procedures must be kept away.
 Ensure adequate ventilation.
 Avoid dust formation.
 Avoid breathing dust.
 Avoid contact with skin, eyes and clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for
containment and cleaning up : Use mechanical handling equipment.
 Sweep up and shovel into suitable containers for disposal.
 Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE**Handling**

- Precautions for safe handling : Wear personal protective equipment.
 Use only in well-ventilated areas.
 Avoid inhalation, ingestion and contact with skin and eyes.

- Advice on protection against : Normal measures for preventive fire protection.
fire and explosion

Storage

- Conditions for safe storage, : Store in original container.
including any Keep containers tightly closed in a dry, cool and well-
incompatibilities ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Use with local exhaust ventilation.

Individual protection measures, such as personal protective equipment (PPE)

- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

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Revision Date 04/26/2024

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equipment.

Hand protection	: Latex gloves Gloves must be inspected prior to use. Replace when worn.
Eye protection	: Safety goggles
Skin and body protection	: Protective suit
Hygiene measures	: Keep working clothes separately. Wash hands before breaks and at the end of workday.
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: crystalline
Colour	: white
Odour	: No data available
Odour Threshold	: Note: No data available
pH	: 5.0 - 7.0 at 128.00 g/l, 25 °C
Melting point/range	: Note: No data available
Boiling point/boiling range	: Note: No data available
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available

Lithium sulfate monohydrate**62609-100G**

Version 1.3

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Revision Date 04/26/2024

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Flammability	: No data available
Lower explosion limit	: Note: No data available
Upper explosion limit	: Note: No data available
Vapour pressure	: Note: No data available
Vapour density	: Note: No data available
Density	: 2.060 g/cm ³
Water solubility	: ca. 128 g/l at 20 °C
Partition coefficient: n-octanol/water	: Note: No data available
Ignition temperature	: Note: No data available
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 127.96 g/mol

10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur. Vapours may form explosive mixture with air.

Lithium sulfate monohydrate**62609-100G**

Version 1.3

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Conditions to avoid : Avoid dust formation.
Keep away from direct sunlight.

Incompatible materials to avoid : Strong oxidizing agents

Hazardous decomposition products : Carbon oxides
Ammonia
Nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact, Ingestion

Acute oral toxicity : LD50: 613 mg/kg
Species: Rat
Test substance: anhydrous substance

Acute inhalation toxicity : Note: No data available

Acute dermal toxicity : Note: No data available

Skin corrosion/irritation : Method: in vitro skin corrosion test
Note: Not classified due to data which are conclusive although insufficient for classification.

Serious eye damage/eye irritation : Test substance: REACH dossier "read-across"
Note: Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

Respiratory or skin sensitisation : Note: No data available

Repeated dose toxicity : Note: No data available

Germ cell mutagenicity : Note: No data available

Germ cell mutagenicity : Note: No data available

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Carcinogenicity : Note: No data available

12. ECOLOGICAL INFORMATION**Aquatic and ecotoxicity**

Toxicity to fish : Note: No data available

Toxicity to daphnia and other aquatic invertebrates : Note: No data available

Toxicity to algae : Note: No data available

Persistence and degradability

Biodegradability : Note: No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION**ADR**

Not dangerous goods

IATA

Not dangerous goods

Lithium sulfate monohydrate**62609-100G**

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IMDG

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RID

Not dangerous goods

15. REGULATORY INFORMATION**National regulatory information**

Fire Service Law : Not relevant

Poisonous and Deleterious
Substances Control Law : Not relevant**Other international regulations****Notification status**USA. List of Active
Substances on the Toxic
Substances Control Act
(TSCA) Chemical
Substances Inventory, as
amended : On TSCA InventoryAustralia. Inventory of
Industrial Chemicals (AIIC),
as amended : On the inventory, or in compliance with the inventoryCanada. Domestic
Substances List (DSL), as
amended : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals
Inventory (KECI) : On the inventory, or in compliance with the inventoryPhilippines. Inventory of
Chemicals and Chemical : On the inventory, or in compliance with the inventory

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Substances (PICCS)

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) : On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	2
Flammability	: 3	0
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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