

# SAFETY DATA SHEET

Revision Date 1.APR.2024

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## 1. Product name and details of the supplier of the safety datasheet

**Product name** : Lithium Sulfate Monohydrate  
**Company** : Chikamochi Pure Chemical Co., Ltd.  
1-9-16 Ohyodominami , Kita-ku,  
Osaka, 531-0075  
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## 2. Hazards Identification

### 【GHS classification】

Classification of the substance or mixture

Acute toxicity - Oral Category 4  
Reproductive Toxicity Category 2

### 【Pictograms】



【Signal word】 Warning

### 【Hazard statements】

H302 – Harmful if swallowed  
H361 – Suspected of damaging fertility or the unborn child

### 【Precautionary statements –(Prevention)】

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product

### 【Precautionary statements-(Response)】

- IF exposed or concerned: Get medical advice/attention

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

**【Precautionary statements-(Storage)】**

- Store locked up

**【Precautionary statements-(Disposal)】**

- Dispose of contents/container to an approved waste disposal plant

**【Other hazards】**

- Not available

### 3. Composition/information on ingredients

**【Substances】**

Formula	: $\text{Li}_2\text{SO}_4 \cdot \text{H}_2\text{O}$
Molecular weight	: 127.96 g/mol
CAS No.	: 10102-25-7
ENCS	: 1-769
ISHL No.	: Announced chemical substances

### 4. Description of first aid measures

**【If inhaled】**

Remove to fresh air. If symptoms persist, call a physician.

**【In case of skin contact】**

Wash off with soap and plenty of water.

**【In case of eye contact】**

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

**【If swallowed】**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. Firefighting measures

**【Suitable extinguishing media】**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**【Unsuitable extinguishing media】**

No information available

**【Special hazards arising from the substance or mixture】**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**【Special extinguishing method】**

No information available

**【Special protective actions for fire-fighters】**

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**6 . Accidental release measures**

**【Personal precautions, protective equipment and emergency procedures】**

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

**【Environmental precautions】**

To be careful not discharged to the environment without being properly handled waste water contaminated.

**【Methods and materials for containment and cleaning up】**

Sweep up and gather scattered particle, and collect it in an empty airtight container.

**【Recovery, neutralization】**

No information available

**【Secondary disaster prevention measures】**

Clean contaminated objects and areas thoroughly observing environmental regulations.

**7 . Handling and storage**

**【Technical measures】**

Avoid contact with water and moisture. Use with local exhaust ventilation

**【Precautions for safe handling】**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging  
Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle in places other than those specified, should not be smoking or eating and drinking should not be brought contaminated protective equipment and gloves to rest stops deny unnecessary entry of non-emergency personnel to the handling area. Use personal protective equipment as required.  
Avoid contact with skin, eyes or clothing.

**【Conditions for safe storage, including any incompatibilities】**

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

**8 . Exposure controls/personal protection**

**【Engineering controls】**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety

shower facility, and hand and eye-wash facility. And display their position clearly.

**【Exposure limits】**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**【Personal protective equipment】**

Respiratory protection	Dust mask
Hand protection	Chemical protective gloves
Eye protection	Protective eyeglasses or chemical safety goggles
Skin and body protection	Long-sleeved work clothes

**【General hygiene considerations】**

Handle in accordance with good industrial hygiene and safety practice.

## 9 . Physical and chemical properties

Appearance	Form: crystalline powder (white)
Odour	:No data available
Odour Threshold	:No data available
pH	:No data available
Melting point/freezing point	:860 °C
Initial boiling point and boiling range	:No data available
Flash point	:No data available
Evaporation rate	:No data available
Flammability (solid, gas)	:No data available
Upper/lower flammability or explosive limits	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: 2.06
Water solubility	: free soluble
Partition coefficient: n-octano/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】**

Altered by moisture

**【Possibility of hazardous reactions】**

No data available

**【Conditions to avoid】**

Extremes of temperature and direct sunlight, Moisture

**【Incompatible materials】**

No information available

**【Hazardous decomposition products】**

Sulfur oxides (SO<sub>x</sub>), Metal oxides

**1 1 . Information on toxicological effects**

**【Acute toxicity】**

Oral LD50 :613 mg/kg(Rat)

Dermal LD50 :953 mg/kg(Mouse)

Inhalation LC50 : No data available

**【Skin corrosion/irritation】**

No data available

**【Serious eye damage/eye irritation】**

No data available

**【Respiratory or skin sensitization】**

No data available

**【Germ cell mutagenicity】**

No data available

**【Carcinogenicity】**

No data available

**【Reproductive toxicity】**

No data available

**【Specific target organ toxicity – single exposure】**

No data available

**【Specific target organ toxicity – repeated exposure】**

No data available

**【Aspiration hazard】**

No data available

**【Additional Information】**

No data available

**1 2 . Ecological information**

**【Toxicity】**



**【Japanese regulations】**

Fire Service Act	: Not applicable
Poisonous and Deleterious Substances Control Law	: Not applicable
Industrial Safety and Health Act	: Not applicable
Regulations for the carriage and storage of dangerous goods in ship	: Not applicable
Civil Aeronautics Law	: Not applicable
Pollutant Release and Transfer Register Law(2023.4.1~)	: Not applicable
Export Trade Control Order	: Not applicable
Water Pollution Control Act	: Not applicable
Air Pollution Control Law	: Not applicable

**1 6 . Other information****【Further information】**

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