



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lithium Sulfate Monohydrate**
PRODUCT NUMBER: 2371
CAS NUMBER: 10102-25-7
SYNONYMS: Sulfuric acid, dilithium salt, monohydrate
MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P205 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS CLASSIFICATION:

Health: 1 Flammability: 0 Physical Hazard: 0

NFPA RATING:

Health: 1 Fire: 0 Reactivity Hazard: 0

EYE CONTACT: Causes irritation of the eyes.

SKIN CONTACT: Causes skin irritation.

INHALATION: May cause irritation to the respiratory tract.

INGESTION: Harmful if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{Li}_2\text{SO}_4 \cdot \text{H}_2\text{O}$

Molecular Weight: 127.96

CHEMICAL NAME	CAS#	%
Lithium Sulfate Monohydrate	10102-25-7	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Immediately flush the skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. Give oxygen if deemed necessary. If not breathing administer CPR. Get emergency care immediately.

INGESTION: Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable

AUTO IGNITION TEMPERATURE: No data

EXPLOSION LIMITS: No data

EXTINGUISHING MEDIUM: Use fire fighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear an approved breathing apparatus with full face and protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Sulfur oxides and lithium oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate respiratory and protective equipment to avoid all exposure to with the material.

ENVIRONMENTAL PRECAUTIONS: Do not let enter drains or allow to be released into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and place in a suitable container for disposal. Avoid generating dust.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear proper protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes.

CONDITIONS FOR SAFE STORAGE: Keep container tightly sealed and store in a cool, dry, and well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: Approved NIOSH dust respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear crystal

MOLECULAR WEIGHT: 127.96

BOILING POINT: No data available

MELTING POINT: 845° C

SPECIFIC GRAVITY: 2.06 gm/ml

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

VAPOR PRESSURE: Not applicable

SOLUBILITY: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Heat and moisture

INCOMPATIBILITY: Strong oxidizing agents

DECOMPOSITION PRODUCTS: Sulfur oxide and lithium oxide

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – rat – 613 mg/kg

RTECS: OJ6419000

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified as a confirmed carcinogen.

MUTAGENIC EFFECTS: No data

TETRATOGENIC EFFECTS: Lithium and its compounds are possible tetratogens by analogy to lithium carbonate which has equivocal human tetratogenic data and positive animal tetratogenic data.

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

EC50 – Daphnia magna (Water flea) – 196.79 mg/l – 24 h

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous material

SECTION 15 REGULATORY INFORMATION

TSCA: No information found

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA (TITLE 313): No information found

MASSACHUSETTS RIGHT TO KNOW: No components are subject to Massachusetts Right to Know

PENNSYLVANIA RIGHT TO KNOW: Lithium Sulfate

NEW JERSEY RIGHT TO KNOW: Lithium Sulfate

CALIFORNIA PROP. 65: This product does not contain any chemicals know to State of California to casue cancer, birth defects, or any other reproductive harm.

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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