OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

LITHIUM SULPHATE
(Monohydrate)
MSDS CAS: 10102-25-7

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: LITHIUM SULPHATE
CAS#: 10102-25-7
C.I. No.: Not available.
Synonym: Sulfuric Acid, dilithium salt, monohydrate
Chemical Name: Lithium Sulfate monohydrate
Chemical Formula: Li2SO4.H2O

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
LITHIUM SULPHATE	10102-25-7	100

Toxicological Data on Ingredients: Lithium sulfate monohydrate LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant).

Potential Chronic Health Effects:
Slightly hazardous in case of skin contact (sensitizer). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, the nervous system, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact: Not available.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.
Auto-Ignition Temperature: Not applicable.
Flash Points: Not applicable.
Flammable Limits: Not applicable.
Products of Combustion: Not available.

Section 5: Fire and Explosion Data (Continued)

Fire Hazards in Presence of Various Substances: Not available.
Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions: Not applicable.
Special Remarks on Fire Hazards: Not available.
Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill :
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill :
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:
Keep locked up.. Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage: Hygroscopic. Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Section 8: Exposure Controls/Personal Protection(Continued)

Personal Protection:
Splash goggles. Lab coat. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance	**: Solid.**
Odor	**: Not available.**
Taste	**: Not available.**
Molecular Weight	**: 127.96 g/mole**
Color	**: Not available.**
pH (1% soln/water)	**: 7 [Neutral.]**
Boiling Point	**: Not available.**
Melting Point	**: 880°C (1616°F)**
Critical Temperature	**: Not available.**
Specific Gravity	**: 2.06 (Water = 1)**
Vapor Pressure	**: Not applicable.**
Vapor Density	**: Not available.**
Volatility	**: Not available.**
Odor Threshold	**: Not available.**
Water/Oil Dist. Coeff.	**: Not available.**
Ionicity (in Water)	**: Not available.**
Dispersion Properties	**: See solubility in water.**
Solubility	**: Soluble in cold water. Almost insoluble in alcohol.**

Section 10: Stability and Reactivity Data

Stability: **The product is stable.**
Instability Temperature: **Not available.**

Section 10: Stability and Reactivity Data(Continued)

Conditions of Instability: Incompatible materials, moisture
Incompatibility with various substances: Reactive with oxidizing agents.
Corrosivity: Non-corrosive in presence of glass.
Special Remarks on Reactivity: Loses water at 130 deg. C. Hygroscopic; keep container tightly closed.
Special Remarks on Corrosivity: Not available.
Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.
Toxicity to Animals:
LD50: Not available. LC50: Not available.
Chronic Effects on Humans: MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, the nervous system, central nervous system (CNS).
Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: May affect genetic material. Lithium passes through the placental barrier in human. Lithium is excreted in maternal milk in human. Lithium and its compounds are possible teratogens. However, the major role of lithium and lithium compounds in producing human birth defects is not universally accepted. To the best of our knowledge, the toxicological properties of this compound have not been fully investigated.
Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: The Acute toxicity of lithium salts is difficult to assess. Reports of toxic responses in workers are rare. The occurence of toxicity is related to plasma concentration of lithium. Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalaiton: May cause respiratory tract and mucous membrane irritation. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, abdominal pain, diarrhea, dehydration, and salivation. It may also affect behavior/central nervous system. Some effects of acute mild overexposure may include: impaired concentration, irritability, lethargy, muscle weakness; effects of moderate overexposure may include: mental confusion, disorientation, drowsiness; effects of severe overexposure may include convulsions and coma. Other symptoms of overexposure may include anxiety, spasticity, delirium, stupor, ataxia, sedation, fine and gross tremor, giddiness, blurred vision, twitching, slurred speech, and apathy. Acute severe overexposure may also affect the kidneys (renal dysfunction, albuminuria, oliguria, and degenerative changes), cardiovascular system(cardiac arrhythmias, hypotension), and Chronic Potential Health Effects: Most poisonings are caused by chronic exposure. Skin: May cause variouis types of dermatitis including psoriasis, alopecia, cutaneous ulcers, acne, follicular papules, xerosis cutis, exfoliate dermatitis. Ingestion: Proglonged or repeated ingestion may affect metabolism (anorexia, weight loss, emaciation), kidneys, and behavior/central nervous system (symptoms similar to acute exposure), and peripherial nervous system.. To the best of our knowledge, the toxicological properties of this substance have not been fully investigated.

Section 12: Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]

General information : Not regulated.

Air transport (ICAO-IATA) [English only]

General information : Not regulated.

Section 15: Other Regulatory Information

Federal and State Regulations: No products were found.
Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
Other Classifications:

Section 15: Other Regulatory Information(Continued)

WHMIS (Canada): Not controlled under WHMIS (Canada).
DSCL (EEC): R22- Harmful if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin. R63- Possible risk of harm to the unborn child. S2- Keep out of the reach of children. S22- Do not breathe dust. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46- If swallowed, seek medical advice immediately and show this container or label.
HMIS (U.S.A.):
Health Hazard: 2
Fire Hazard: 0
Reactivity: 0
Personal Protection: E
National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 0
Reactivity: 0
Specific hazard:
Protective Equipment:
Gloves. Lab coat. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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