

MATERIAL SAFETY DATA SHEET



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LITHIUM SULPHATE

Section 1: Chemical Product Identification

Product Name: LITHIUM SULPHATE

Product Code: 613

CAS#: 10377-48-7

CI#: Not available

Synonym: no data available

Chemical Name: Not available

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

Section 2: Composition and Information on Ingredients

Substances

Synonyms: no data available

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

Molecular Weight: 127.96 g/mol

CAS-No. : 10377-48-7

EC-No. : 233-820-4

Section 3: Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xi Irritant R36/37/38

Section 4: First Aid Measures

Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in. Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Consult a physician.

In case of eye contact Flush eyes with water as a precaution.



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

Most important symptoms and effects, both acute and delay No data available

Indication of any immediate medical attention and special treatment needed no data available

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture Sulphur oxides, Lithium oxides

Advice for firefighters Wear self contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions Do not let product enter drains.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

Section 7: Handling and Storage

Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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

Specific end use(s) A part from the uses no other specific uses are stipulated

Section 8: Exposure Controls/Personal Protection

Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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Control of environmental exposure Do not let product enter drains.

Section 9: Physical and Chemical Properties

Appearance Form: Crystalline

Colour: no data available

Odour no data available

Odour Threshold no data available

pH no data available

Melting point/freezing point no data available

Initial boiling point and boiling range no data available

Flash point no data available

Evapouration 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 no data available

Water solubility slightly soluble

Partition coefficient: no data available

Auto-ignition temperature no data available

Section 10: Stability and Reactivity Data

Reactivity no data available

Chemical stability no data available

Possibility of hazardous reactions no data available

Conditions to avoid Avoid moisture.

Incompatible materials Strong oxidizing agents

Hazardous decomposition products Other decomposition products - no data available

Section 11: Toxicological Information.

Information on toxicological effects LD50 Oral - rat - 613 mg/k

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Section 12: Ecological Information

Toxicity

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 33,2 mg/l - 48 h

Persistence and degradability no data available

Bioaccumulative potential no data available



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Mobility in soil no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available

Other adverse affects no data available

Section 13: Disposal Considerations

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging Dispose of as unused product.

Section 14: Transport Information

UN number

ADR/RID:

IMDG: -

IATA: -

Transport hazard class(es)

ADR/RID:

IMDG: -

IATA: -

Packaging group

ADR/RID:

IMDG: -

IATA: -

Environmental hazards

ADR/RID: no

IMDG: - marine pollutant no.

IATA: -no

Section 15: Other Regulatory Information

Regulatory information This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture no data available

Chemical Safety Assessment For this product a chemical safety assessment was not carried out

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