LITHIUM SULPHATE MONOHYDRATE 99%

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Compilation date: 06/11/2018

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: LITHIUM SULPHATE MONOHYDRATE 99%

CAS number: 10102-25-7

EINECS number: 233-820-4

Product code: GPC4795

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC21: Laboratory chemicals.

1.3. Details of the supplier of the safety data sheet

Company name: Atom Scientific Ltd

2b East Tame Business Park Hyde Manchester SK14 4GX Tel: 0161 366 5123 Fax: 01704 337167 Email: technical@atomscientific.com

1.4. Emergency telephone number

Emergency tel: 07833453806

Section 2: Hazards identification

| 2.1. Classification of the substance or mixture | | |
|---|--|--|
| Classification under CLP: | Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335 | |
| Most important adverse effects: | Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause | |
| | respiratory irritation. | |
| 2.2. Label elements | | |
| Label elements under CLP: | | |
| Hazard statements: | H302: Harmful if swallowed. | |
| | H315: Causes skin irritation. | |
| | H319: Causes serious eye irritation. | |

H335: May cause respiratory irritation.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



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| Precautionary statements: | P261: Avoid breathing dust/fumes/gas/mist/vapours/spray. |
|---------------------------|---|
| | P280: Wear protective gloves/protective clothing/eye protection/face protection. |
| | P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove |
| | contact lenses, if present and easy to do. Continue rinsing. |
| | P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position |
| | comfortable for breathing. |
| | P405: Store locked up. |
| | P501: Dispose of contents/container to a waste disposal plant. |

2.3. Other hazards

Other hazards: No data available.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

| Chemical identity: | LITHIUM SULPHATE MONOHYDRATE 99% | |
|--------------------|--|--|
| CAS number: | 10102-25-7 | |
| EINECS number: | 233-820-4 | |
| Contains: | Contains: Molecular Formula : Li2O4S · H2O | |
| | Molecular Weight : 127.96 g/mol | |

Section 4: First aid measures

| 4.1. Description of first aid measures | | |
|---|--|--|
| Skin contact: | Wash immediately with plenty of soap and water. Consult a doctor. | |
| Eye contact: | Bathe the eye with running water for 15 minutes. | |
| Ingestion: | Consult a doctor. Do not induce vomiting. Wash out mouth with water. Never give | |
| | anything by mouth to an unconscious person. | |
| Inhalation: | Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for | |
| | breathing and apply artificial respiration if necessary. Consult a doctor. | |
| 4.2. Most important symptoms and effects, both acute and delayed | | |
| Skin contact: | May be harmful if absorbed through skin. Causes skin irritation. | |
| Eye contact: | There may be irritation and redness. | |
| Ingestion: | May be harmful if swallowed. | |
| Inhalation: | May cause respiratory irritation. | |
| Delayed / immediate effects: | No data available. | |
| 4.3. Indication of any immediate medical attention and special treatment needed | | |
| Immodiato / spocial troatmont: | No dete eveilable | |

Immediate / special treatment: No data available.

Section 5: Fire-fighting measures

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5.1. Extinguishing media

Extinguishing media: Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: If this product is involved in a fire, the following can be released: Sulphur oxides, Lithium

oxides

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

Avoid breathing vapours, mist or gas.

For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in

suitable, closed containers for disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions

see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Hygroscopic.

Suitable packaging: Not applicable.

7.3. Specific end use(s)

Specific end use(s): No special requirement.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

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8.1. DNEL/PNEC Values DNEL / PNEC No data available. 8.2. Exposure controls Engineering measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Hand protection: Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Splash contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 30 min Eye protection: Safety glasses with side-shields. Skin 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. Environmental: Do not let product enter drains. Prevent from entering in public sewers or the immediate environment. Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Crystalline

Colour: White

Melting point/range°C: 130

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: No data available.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: Moist air. Exposure to moisture may affect product quality.

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10.5. Incompatible materials

Materials to avoid: Strong oxidising agents.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

| Hazard | Route | Basis |
|-------------------------------|-------|--------------------|
| Acute toxicity (ac. tox. 4) | ING | Based on test data |
| Skin corrosion/irritation | DRM | Based on test data |
| Serious eye damage/irritation | OPT | Based on test data |
| STOT-single exposure | INH | Based on test data |

Symptoms / routes of exposure

Skin contact:May be harmful if absorbed through skin. Causes skin irritation.Eye contact:There may be irritation and redness.Ingestion:May be harmful if swallowed.Inhalation:May cause respiratory irritation.Delayed / immediate effects:No data available.Other information:Not applicable.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

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| Section 13: Disposal considerations | | | | |
|-------------------------------------|--|--|--|--|
| Section 13: Disposal considerations | | | | |
| 13.1. Waste treatment methods | | | | |
| Disposal operations: | 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. | | | |
| Recovery operations: | Not applicable. | | | |
| Disposal of packaging: | Dispose of as unused product. | | | |
| NB: | The user's attention is drawn to the possible existence of regional or national | | | |
| | regulations regarding disposal. | | | |
| Section 14: Transport information | | | | |
| Transport class: | This product does not require a classification for transport. | | | |
| Section 15: Regulatory informa | ation | | | |
| 15.1. Safety, health and enviror | nmental regulations/legislation specific for the substance or mixture | | | |
| Specific regulations: | This safety datasheet complies with the requirements of Regulation (EC) No. | | | |
| | 1907/2006. | | | |
| 15.2. Chemical Safety Assessm | nent | | | |
| Chemical safety assessment: | A chemical safety assessment has not been carried out for the substance or the mixture | | | |
| ······ | by the supplier. | | | |
| Section 16: Other information | · · · · | | | |
| | | | | |
| Other information | | | | |
| Other information: | This safety data sheet is prepared in accordance with Commission Regulation (EU) No | | | |
| | 453/2010. | | | |
| | * indicates text in the SDS which has changed since the last revision. | | | |
| Phrases used in s.2 and 3: | H302: Harmful if swallowed. | | | |
| | H315: Causes skin irritation. | | | |
| | H319: Causes serious eye irritation. | | | |
| | H335: May cause respiratory irritation. | | | |
| Legal disclaimer: | The above information is believed to be correct but does not purport to be all inclusive | | | |
| | and shall be used only as a guide. This company shall not be held liable for any | | | |
| | damage resulting from handling or from contact with the above product. | | | |
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