

MATERIAL SAFETY DATA SHEET (MSDS)**LITHIUM ACETATE LR (DIHYDRATE)****1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE**

Product name : Lithium acetate dihydrate
CAS-No. : 6108-17-4

Product Coad: L0122300500

Formula : C₂H₃LiO₂ · 2H₂O
Molecular Weight : 102,02 g/mol

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Synonyms : Acetic acid
Formula : C₂H₃LiO₂ · 2H₂O
Molecular Weight : 102,02 g/mol

4. FIRST AID MEASURES

Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

Most important symptoms and effects, both acute and delayed

Large doses of lithium ion have caused dizziness and prostration, and can cause kidney damage if sodium intake is limited. Dehydration, weight loss, dermatological effects, and thyroid disturbances have been reported. Central nervous system effects that include slurred speech, blurred vision, sensory loss, ataxia, and convulsions may occur. Diarrhea, vomiting, and neuromuscular effects such as tremor, clonus, and hyperactive reflexes may occur as a result of repeated exposure to lithium ion. To the best of our

knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

Extinguishing media

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

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

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

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7. HANDLING AND STORAGE

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities

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

Specific end uses no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance Form: solid

b) Odour no data available

c) Odour Threshold no data available

d) pH no data available

e) Melting point/freezing Melting point/range: 53 - 56 °C - lit. point

f) Initial boiling point and no data available boiling range

g) Flash point no data available

h) Evaporation rate no data available

i) Flammability (solid, gas) no data available

j) Upper/lower no data available

flammability or explosive limits

k) Vapour pressure no data available

l) Vapour density no data available

m) Relative density 1,300 g/cm³

n) Water solubility no data available

o) Partition coefficient: n- no data available octanol/water

p) Autoignition no data available temperature

q) Decomposition no data available temperature

r) Viscosity no data available

s) Explosive properties no data available

t) Oxidizing properties no data available

Other safety information

no data available

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10. STABILITY AND REACTIVITY

Reactivity no data available
 Chemical stability no data available
 Possibility of hazardous reactions no data available
 Conditions to avoid no data available
 Incompatible materials Strong oxidizing agents
 Hazardous decomposition products Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
 Acute toxicity 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
 Genotoxicity in vivo - mouse - Oral
 Cytogenetic analysis
 Genotoxicity in vivo - mouse - Oral
 Sister chromatid exchange
 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.
 Reproductive toxicity
 Possible risk of congenital malformation in the fetus.
 Specific target organ toxicity - single exposure no data available
 Specific target organ toxicity - repeated exposure no data available
 Aspiration hazard no data available
 Potential health effects
 Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
 Ingestion May be harmful if swallowed.
 Skin May be harmful if absorbed through skin. May cause skin irritation.
 Eyes May cause eye irritation.
 Signs and Symptoms of Exposure
 Large doses of lithium ion have caused dizziness and prostration, and can cause kidney damage if sodium intake is limited. Dehydration, weight loss, dermatological effects, and thyroid disturbances have been reported. Central nervous system effects that include slurred speech, blurred vision, sensory loss, ataxia, and convulsions may occur. Diarrhea, vomiting, and neuromuscular effects such as tremor, clonus, and hyperactive reflexes may occur as a result of repeated exposure to lithium ion., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
 Additional Information
 RTECS: AI5450000

12. ECOLOGICAL INFORMATION

Toxicity no data available
 Persistence and degradability no data available
 Bioaccumulative potential no data available
 Mobility in soil no data available
 Results of PBT and vPvB assessment no data available
 Other adverse effects no data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
 Product Offer surplus and non-recyclable solutions to a licensed disposal company.
 Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

NOT REGULATED

15 - REGULATORY INFORMATION

N/A

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16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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