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## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : Lithium acetate dihydrate  
Product Number : L105192  
Brand : aladdin  
CAS-No. : 6108-17-4

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

Identified uses : It is only for scientific research purposes, not for medicine, family standby medicine or other purposes.

#### 1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd  
Address : 36 Xinjinqiao Road, Shanghai  
Telephone : 400-620-6333  
Fax : no data available

#### 1.4 Emergency telephone number

Emergency Phone : 0532-83889090

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

#### 2.2 GHS Label elements, including precautionary statements

Pictogram : no data available  
Signal word : no data available  
Hazard statement(s) :  
Precautionary statement(s) :

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms : Acetic acid lithium salt  
Formula : C2H7LiO4

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Molecular weight : 102.02  
CAS No. : 6108-17-4  
EC-NO. : 208-914-3

Component	Classification	Concentration
<b>Lithium acetate dihydrate</b>	no data available	99.99% metals basis

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#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

###### **General advice**

Move out of dangerous area. 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.

###### **If swallowed**

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

##### 4.2 Most important symptoms and effects, both acute and delayed

no data available

##### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

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#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media

###### **Suitable extinguishing media**

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

###### **Unsuitable extinguishing media**

no data available

##### 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- Lead oxides

##### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

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**5.4 Further information**

no data available

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**6.3 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 for disposal.

**6.4 Reference to other sections**

no data available

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**SECTION 7: Handling and storage**

**7.1 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.

**7.2 Conditions for safe storage, including any incompatibilities**

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

**7.3 Specific end use(s)**

no data available

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**8.2 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

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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 gloves 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**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

no data available

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### **SECTION 9: Physical and chemical properties**

#### **9.1 Information on basic physical and chemical properties**

a) Appearance	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	53 - 56 °C (127 - 133 °F) - lit.
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	1.300 g/cm <sup>3</sup>
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

#### **9.2 Other safety information**

no data available

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### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

Stable under recommended storage conditions.

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**10.2 Chemical stability**

no data available

**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

Strong acids

**10.5 Incompatible materials**

Hazardous decomposition products formed under fire conditions.- Lead oxides Other decomposition products - no data available

**10.6 Hazardous decomposition products**

no data available

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**SECTION 11: Toxicological information**

**11.1 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 sensitisation**

no data available

**Germ cell mutagenicity**

2B - Group 2B: Possibly carcinogenic to humans (Lead group entry Annex I)

**Carcinogenicity**

Reproductive toxicity - rat - Inhalation Effects on Newborn: Biochemical and metabolic.Reproductive toxicity - rat - Oral Effects on Newborn: Behavioral.Reproductive toxicity - mouse - Oral Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated ).Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

May cause damage to organs through prolonged or repeated exposure.

**Specific target organ toxicity - repeated exposure**

May be harmful if inhaled.May cause respiratory tract irritation.

**Aspiration hazard**

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Toxicity to fish mortality LOEC - *Oncorhynchus mykiss* (rainbow trout) - 1.19 mg/l - 96.0 h LC50 - *Micropterus dolomieu* - 2.2 mg/l - 96.0 h mortality NOEC - *Salvelinus fontinalis* - 1.7 mg/l - 10.0 d Toxicity to daphnia and other aquatic invertebrates mortality LOEC - *Daphnia* - 0.17 mg/l - 24 h mortality NOEC - *Daphnia* - 0.099 mg/l - 24 h Toxicity to algae mortality EC50 - *Skeletonema costatum* - 7.94 mg/l - 10 d &nbsp;

#### **Additional Information**

no data available

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### **SECTION 12: Ecological information**

#### **12.1      Toxicity**

no data available

#### **12.2      Persistence and degradability**

Bioaccumulation *Oncorhynchus kisutch* - 2 Weeks Bioconcentration factor (BCF): 12

#### **12.3      Bioaccumulative potential**

no data available

#### **12.4      Mobility in soil**

no data available

#### **12.5      Results of PBT and vPvB assessment**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

#### **12.6      Other adverse effects**

no data available

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### **SECTION 13:**

#### **13.1      Disposal considerations**

##### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. 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.

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### **SECTION 14: Transport information**

#### **DOT (US)**

UN number: 3077

Packing group: III

Class: 9

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Proper shipping name: Environmentally hazardous substances, solid, n.o.s.(Lead group entry Annex I)

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data

Environmental Hazards: No

**IMDG**

UN number: 3077

Packing group: III

EMS-No: no data available

Proper shipping name: Environmentally hazardous substances, solid, n.o.s.(Lead group entry Annex I)

**IATA**

UN number: 3077

Packing group: III

Class: 9

Proper shipping name: Environmentally hazardous substances, solid, n.o.s.(Lead group entry Annex I)

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**SECTION 15: Regulatory information**

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

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**SECTION 16: Other information**

**Further information**

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