

Version: v1  
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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 : 4-Methyl-1,3,2-dioxathiolane 2,2-Dioxide  
Product Number : M158558  
Brand : aladdin  
CAS-No. : 5689-83-8

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

Identified uses : 仅供科研用途，不作为药物、家庭备用药或其它用途。

#### 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**   
**Signal word** Warning  
**Hazard statement(s)**  
H341 Suspected of causing genetic defects  
**Precautionary statement(s)**  
P281 Use personal protective equipment as required.  
P405 Store locked up.  
P501 Dispose of contents/container to an approved waste disposal plant.

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

### SECTION 3: Composition/information on ingredients

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**3.1 Substances**

Synonyms : ['4-Methyl-2,2-dioxo-1,3,2-dioxathiolane', '1,2-Propanediol Cyclic Sulfate', '1,2-Propylene Sulfate']  
 Formula : C<sub>3</sub>H<sub>6</sub>O<sub>4</sub>S  
 Molecular weight : 138.14  
 CAS No. : 5689-83-8  
 EC-NO. : no data available

Component	Classification	Concentration
<b>4-Methyl-1,3,2-dioxathiolane 2,2-Dioxide</b>	no data available	>98.0%(GC)

**SECTION 4: First aid measures****4.1 Description of first aid measures****General advice**

no data available

**If inhaled**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

**In case of skin contact**

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.

**In case of eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.

**If swallowed**

Get medical advice/attention. Rinse mouth.

**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

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Dry chemical, foam, water spray, carbon dioxide.

**Unsuitable extinguishing media**

no data available

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

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Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

**5.3 Advice for firefighters**

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

**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 extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off, etc.

**6.2 Environmental precautions**

Prevent product from entering drains.

**6.3 Methods and materials for containment and cleaning up**

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

**6.4 Reference to other sections**

no data available

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

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

Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Moisture-sensitive

**7.3 Specific end use(s)**

no data available

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

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**8.1 Control parameters**

**8.2 Exposure controls**

**Appropriate engineering controls**

no data available

**Personal protective equipment**

**Eye/face protection**

Safety goggles. A face-shield, if the situation requires.

**Skin protection**

Impervious gloves.

**Body Protection**

Impervious protective clothing. Protective boots, if the situation requires.

**Respiratory protection**

Half or full facepiece respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

**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	no data available
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	no data available
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**

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**10.1 Reactivity**

Stable under proper conditions.

**10.2 Chemical stability**

no data available

**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

Oxidizing agents

**10.5 Incompatible materials**

Carbon monoxide, Carbon dioxide, Sulfur oxides

**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**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

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no data available

**Additional Information**  
no data available

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**SECTION 12: Ecological information**

- 12.1

Toxicity

no data available
- 12.2

Persistence and degradability

no data available
- 12.3

Bioaccumulative potential

no data available
- 12.4

Mobility in soil

no data available
- 12.5

Results of PBT and vPvB assessment

no data available
- 12.6

Other adverse effects

no data available

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**SECTION 13:**

- 13.1

Disposal considerations

**Product**  
Recycle to process, if possible.Consult your local regional authorities.You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system.Observe all federal, state and local regulations when disposing of the substance.

**Contaminated packaging**  
no data available

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**SECTION 14: Transport information**

**DOT (US)**  
UN number: no data available  
Proper shipping name: no data available  
Environmental Hazards: no data available

Packing group: no data available  
Reportable Quantity(RQ): no data available

Class: no data available  
Poison Inhalation Hazard: no data

**IMDG**  
UN number: no data available

Packing group: no data available

EMS-No: no data available

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Proper shipping name: no data available

**IATA**

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: no data available

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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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