

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2023-11-25  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Bithionol  
Product Number : B101323  
Brand : aladdin  
CAS-No. : 97-18-7

### 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



Signal word

Danger

Hazard statement(s)

H300 Fatal if swallowed

Precautionary statement(s)

P264 Wash hands [and ...] thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P330 Rinse mouth.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

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

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| Synonyms         | : 2,2'-Thio-bis(4,6-dichlorophenol);Bis(2-hydroxy-3,5-dichlorophenyl) sulfide |
| Formula          | : C <sub>12</sub> H <sub>6</sub> Cl <sub>4</sub> O <sub>2</sub> S             |
| Molecular weight | : 356.05                                                                      |
| CAS No.          | : 97-18-7                                                                     |
| EC-NO.           | : 202-565-0                                                                   |

| Component | Classification    | Concentration |
|-----------|-------------------|---------------|
| Bithionol | no data available | 97%           |

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice

Consult a physician.Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

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.Take victim immediately to hospital.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

### 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

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Hazardous decomposition products formed under fire conditions.- Carbon oxides, Sulphur oxides, Hydrogen chloride

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 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

Wear respiratory protection.Avoid dust formation.Avoid breathing vapors, mist or gas.Ensure adequate ventilation.  
<br/>Evacuate personnel to safe areas.Avoid breathing dust.<br/>

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.Do not let product enter drains.

### 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  
<br/>disposal.<br/>

### 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.<br/>Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.<br/><br/>Aldrich - T9881 Page 3 of 7 <br/>

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

Keep container tightly closed in a dry and well-ventilated place.<br/>

### 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

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Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.  
<br/>

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate  
<br/>government standards such as NIOSH (US) or EN 166(EU).<br/>

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching <br/>glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in <br/>accordance with applicable laws and good laboratory practices. Wash and dry hands.  
<br/>Full contact <br/>Material: Nitrile rubber <br/>Minimum layer thickness: 0.11 mm <br/>Break through time: > 480 min <br/>Material tested: Dermatrill? (Aldrich Z677272, Size M) <br/>Splash protection  
<br/>Material: Nitrile rubber <br/>Minimum layer thickness: 0.11 mm <br/>Break through time: > 30 min  
<br/>Material tested: Dermatrill? (Aldrich Z677272, Size M) <br/>data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 <br/>If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the <br/>supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial <br/>Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as  
<br/>offering an approval for any specific use scenario.<br/>

##### Body Protection

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

##### Respiratory protection

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

##### Control of environmental exposure

no data available

## 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            | 185.5-186.5°C     |
| 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 |

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|                                                 |                   |
|-------------------------------------------------|-------------------|
| 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

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Strong oxidizing agents

### 10.5 Incompatible materials

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Sulphur oxides, Hydrogen chloride <br/>gas <br/>Other decomposition products - no data available <br/>

### 10.6 Hazardous decomposition products

no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

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no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

<br/>Aldrich - T9881 Page 5 of 7 <br/>Carcinogenicity - mouse - Oral <br/>Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors. Blood: Tumors. <br/>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as <br/>probable, possible or confirmed human carcinogen by IARC. <br/>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a <br/>carcinogen or potential carcinogen by ACGIH. <br/>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a <br/>known or anticipated carcinogen by NTP. <br/>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a <br/>carcinogen or potential carcinogen by OSHA. <br/>

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

no data available

Additional Information

no data available

## 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

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## 12.6 Other adverse effects

no data available

## 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

no data available

## SECTION 14: Transport information

DOT (US)

UN number: 2811

Packing group: II

Class: 6.1

Proper shipping name: TOXIC SOLID,  
ORGANIC, N.O.S. (Bithionol)

Reportable Quantity(RQ): no data  
available

Poison Inhalation Hazard: no data  
available

Environmental Hazards: No

IMDG

UN number: 2811

Packing group: II

EMS-No: no data available

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Bithionol)

IATA

UN number: 2811

Packing group: II

Class: 6.1

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Bithionol)

## SECTION 15: Regulatory information

no data available

## SECTION 16: Other information

Further information

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