

Version: v1  
Revision Date: 2023-07-24  
Print Date: 2023-07-27

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name : Dimethoate  
Product Number : D109819  
Brand : aladdin  
CAS-No. : 60-51-5

#### 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

<b>Pictogram</b>	
<b>Signal word</b>	Warning
<b>Hazard statement(s)</b>	
H302	Harmful if swallowed
H312	Harmful in contact with skin
<b>Precautionary statement(s)</b>	
P264	Wash hands [and ...] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P330	Rinse mouth.
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.
P302+P352	IF ON SKIN: wash with plenty of water.

- Phone: +1 (833) 552-7181
- Email: [QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com)
- Website: <https://www.aladdinsci.com/>

P362+P364	Take off contaminated clothing and wash it before reuse.
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

### 3.1 Substances

Synonyms methylcarbamoylmethyl)	: O,O-Dimethyl methylcarbamoylmethyl phosphorodithioate; O,O-Dimethyl S-(N-
Formula	: C5H12NO3PS2
Molecular weight	: 229.25
CAS No.	: 60-51-5
EC-NO.	: 200-480-3

Component	Classification	Concentration
Dimethoate		
no data available		analytical standard

## 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. 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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Phone: +1 (833) 552-7181
- Email: [QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com)
- Website: <https://www.aladdinsci.com/>

**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**

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Oxides of phosphorus

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

no data available

---

**SECTION 6: Accidental release measures**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

**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**

For disposal see section 13.

---

**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. For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2 - 8 °C

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

- 
- Phone: +1 (833) 552-7181
  - Email: [QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com)
  - Website: <https://www.aladdinsci.com/>

**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****Eyeface protection**

Safety glasses with side-shields conforming to EN166 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 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**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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

**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	52-52.5°C
f) Initial boiling point and boiling range	107°C
g) Flash point	2 °C
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

- Phone: +1 (833) 552-7181
- Email: [QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com)
- Website: <https://www.aladdinsci.com/>

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**

In the event of fire: see section 5

**10.6 Hazardous decomposition products**

LD50 Oral - Rat - 387 mg/kg LC50 Inhalation - Rat - 4 h - > 1,553 mg/l LD50 Dermal - Rabbit - > 1,000 mg/kg Remarks: Behavioral:Excitement.

---

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

Skin - Rabbit Result: No skin irritation

**Skin corrosion/irritation**

Eyes - Rabbit Result: No eye irritation

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

Mouse S.typhimurium Host-mediated assay Human lymphocyte Cytogenetic analysis Human lymphocyte Sister chromatid exchange Human lymphocyte Micronucleus test Human fibroblast Unscheduled DNA synthesis Rat Cytogenetic analysis Rat Micronucleus test Mouse Cytogenetic analysis Mouse Unscheduled DNA synthesis

**Germ cell mutagenicity**

Carcinogenicity - Rat - Oral Tumorigenic:Carcinogenic by RTECS criteria.Liver:Tumors.Blood:Tumors.Carcinogenicity - Rat

- 
- Phone: +1 (833) 552-7181
  - Email: [QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com)
  - Website: <https://www.aladdinsci.com/>

- Intramuscular Tumorigenic: Carcinogenic by RTECS criteria. Liver: Tumors. Blood: Tumors. 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. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Carcinogenicity**

Reproductive toxicity - Rat - Oral Maternal Effects: Other effects. Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Other effects to embryo. 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: Other measures of fertility. Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4). No data available. Developmental Toxicity - Mouse - Oral Specific Developmental Abnormalities: Musculoskeletal system. Developmental Toxicity - Mouse - Intraperitoneal Effects on Embryo or Fetus: Fetal death. Developmental Toxicity - Rat - Oral Specific Developmental Abnormalities: Musculoskeletal system. Developmental Toxicity - Mouse - Oral Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

### **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**

Toxicity to fish static test LC50 - *Salmo gairdneri* - 7.5 mg/l - 96 h. Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - *Daphnia magna* (Water flea) - 5.4 mg/l - 48 h (OECD Test Guideline 202). Immobilization NOEC - *Daphnia magna* (Water flea) - 0.6 mg/l - 48 h (OECD Test Guideline 202). Toxicity to algae Growth inhibition EC50 - *Scenedesmus capricornutum* (fresh water algae) - 282.3 mg/l - 72 h (OECD Test Guideline 201).

### **Additional Information**

no data available

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

no data available

### **12.2 Persistence and degradability**

Bioaccumulation *Cyprinus carpio* (Carp) - 42 d at 25 °C - 2 mg/l. Bioconcentration factor (BCF): 0.4 - 0.8

### **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. Toxic to aquatic life.

- Phone: +1 (833) 552-7181
- Email: [QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com)
- Website: <https://www.aladdinsci.com/>

**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**

Dispose of as unused product.

**SECTION 14: Transport information****DOT (US)**

UN number: 2811

Packing group: III

Class: 6.1

Proper shipping name: Toxic solids,  
organic, n.o.s. (Dimethoate)

Reportable Quantity (RQ): no data available Poison Inhalation Hazard: no data

Environmental Hazards: No

**IMDG**

UN number: 2811

Packing group: III

EMS-No: no data available

Proper shipping name: Toxic solids, organic, n.o.s. (Dimethoate)

**IATA**

UN number: 2811

Packing group: III

Class: 6.1

Proper shipping name: Toxic solids, organic, n.o.s. (Dimethoate)

**SECTION 15: Regulatory information**

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

**SECTION 16: Other information****Further information**

Copyright Aladdin Co. Ltd. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Version: v1

Revision Date: 2023-07-  
24Print Date: 2023-07-  
27

- Phone: +1 (833) 552-7181
- Email: [QualityAssurance@aladdinsci.com](mailto:QualityAssurance@aladdinsci.com)
- Website: <https://www.aladdinsci.com/>