

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2024-01-26  
Print Date: 2024-02-02

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

### 1.1 Product identifiers

Product name : malonic acid  
Product Number : M103514  
Brand : aladdin  
CAS-No. : 141-82-2

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

Identified uses : Laboratory chemicals, Manufacture of substances.

### 1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION  
Address : 14078 Meridian Parkway,  
Riverside, CA. 92518  
Telephone : +1 (833) 552-7181  
Fax : no data available

### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300  
CHEMTREC®, Outside the USA :

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Acute toxicity, oral (category 5), H303

Serious eye damage/eye irritation (Category 1), H318

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H303 : May be harmful if swallowed  
H318 : Causes serious eye damage

Precautionary statement(s)

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/... if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms	: Propanedioic Acid;Malonic Acid;1,3-Propanedioic acid
Formula	: C3H4O4
Molecular weight	: 104.06
CAS No.	: 141-82-2
EC-NO.	: 231-791-2

Component	Classification	Concentration
malonic acid	Acute Toxicity Category 5; Serious eye damage Injury/eye irritation Category 1; H303, H318	analytical standard

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice

Show this safety data sheet to the doctor on site.

If inhaled

If inhaled, remove patient to fresh air.

In case of skin contact

In case of skin contact: Immediately remove/take off all soiled clothing. Wash skin/shower with water.

In case of eye contact

After eye contact: Wash off with plenty of water. Remove contact lenses.

If swallowed

After swallowing: Immediately drink water (up to 2 glasses). If you feel unwell, seek medical attention.

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

The most important known symptoms and effects are described on the label (see Section 2.2) and/or Section 11

### 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

Fight fire with water mist, alcohol-resistant foam, dry chemical or carbon dioxide. Water Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

Unsuitable extinguishing media

no data available

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

Carbon oxides Combustible. Vapours are heavier than air and can therefore spread over ground. Forms explosive mixtures with air under severe heating. May cause hazardous gas or vapour evolution in the event of fire.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting 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

Use personal protective equipment. Keep away from spills/leakage and upwind. The leakage area should be enclosed with safety belts, etc., to control the entry of non-related personnel.

### 6.2 Environmental precautions

Prevent entry into sewers.

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

Cover the drain. Collect, contain, and extract spills. Observe material restrictions that may apply (see Sections 7 and 10). Remove dry. Discard. Clean affected area. Avoid dust generation.

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

See Section 2.2 for precautionary measures.

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

Tightly closed. Dry.

### 7.3 Specific end use(s)

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no data available

## 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

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., 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 fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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

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

## 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	135.6°C
f) Initial boiling point and boiling range	140°C
g) Flash point	172°C

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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

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

strong heating

### 10.5 Incompatible materials

base, oxidizing agent, reducing agent

### 10.6 Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - Male - 3,250 mg/kg

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(OECD Test Guideline 401)

Symptoms: Possible damage:, mucosal irritation

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

no data available

Additional Information

Repeated Dose Toxicity - Rat - Male - Oral - 52 Days - No Observed Adverse Effect Level - 100 mg/kg

Registration of toxic effects of chemical substances: 000175000

Symptoms of exposure may include burning sensation, continuous cough, wheezing, sore throat, shortness of breath, headache, nausea, vomiting, etc.

To the best of our knowledge, this chemical, physical and toxic property has not been fully studied.

Other risks cannot be excluded.

Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish Flow-through test LC50 - Medaka - > 95.4 mg/l - 96 h

(OECD Test Guideline 203)

To water fleas and other aquatic spinelessVertebral toxicity

Static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h

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(OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Lunar algae - > 998 mg/l - 72 h

(OECD Test Guideline 201)

**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

**SECTION 13:**

**13.1 Disposal considerations**

Product

Dispose of residual and non-recyclable solution to a licensed company.

Contaminated packaging

Dispose of as unused product.

**SECTION 14: Transport information**

DOT (US)

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: non-dangerous goods

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: No

IMDG

UN number: no data available

Packing group: no data available

EMS-No: no data available

Proper shipping name: non-dangerous goods

IATA

UN number: no data available

Packing group: no data available

Class: no data available

Proper shipping name: non-dangerous goods

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## SECTION 15: Regulatory information

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

## SECTION 16: Other information

<b>Prepared By</b>	Regulatory Affairs ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com
<b>Creation Date</b>	15-Apr-2022
<b>Revision Date</b>	26-Jan-2024
<b>Print Date</b>	02-Feb-2024
<b>Revision Summary</b>	SDS sections updated v1

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