

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2026-01-14  
Print Date: 2026-01-14

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

### 1.1 Product identifiers

Product name : 2-Methylglutaronitrile  
Product Number : M158303  
Brand : aladdin  
CAS-No. : 4553-62-2

### 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 3

Acute toxicity (inhalation): Category 2

Acute toxicity (transdermal): Category 3

### 2.2 GHS Label elements, including precautionary statements

Pictogram



|                                   |                                                                            |
|-----------------------------------|----------------------------------------------------------------------------|
| <b>Signal word</b>                | Danger                                                                     |
| <b>Hazard statement(s)</b>        |                                                                            |
| H301                              | Toxic if swallowed                                                         |
| H311                              | Toxic in contact with skin                                                 |
| H330                              | Fatal if inhaled                                                           |
| H301+H311                         | Toxic if swallowed or in contact with skin                                 |
| <b>Precautionary statement(s)</b> |                                                                            |
| P260                              | Do not breathe dust/fume/gas/mist/vapors/spray.                            |
| P264                              | Wash hands [and ...] thoroughly after handling.                            |
| P270                              | Do not eat, drink or smoke when using this product.                        |
| P271                              | Use only outdoors or in a well-ventilated area.                            |
| P280                              | Wear protective gloves/protective clothing/eye protection/face protection. |
| P284                              | [In case of inadequate ventilation] Wear respiratory protection.           |
| P320                              | Specific treatment is urgent (see ... on this label).                      |
| P321                              | Specific treatment (see ... on this label).                                |
| P330                              | Rinse mouth.                                                               |
| P302+P352                         | IF ON SKIN: wash with plenty of water.                                     |
| P304+P340                         | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P361+P364                         | Take off immediately all contaminated clothing and wash it before reuse.   |
| P405                              | Store locked up.                                                           |
| P403+P233                         | Store in a well-ventilated place. Keep container tightly closed.           |
| P501                              | Dispose of contents/container to an approved waste disposal plant.         |
| P301+P316                         | IF SWALLOWED: Get emergency medical help immediately.                      |
| P316                              | Get emergency medical help immediately.                                    |

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                                |
|------------------|------------------------------------------------|
| Synonyms         | : 1,3-Dicyanobutane                            |
| Formula          | : C <sub>6</sub> H <sub>8</sub> N <sub>2</sub> |
| Molecular weight | : 108.14                                       |
| CAS No.          | : 4553-62-2                                    |
| EC-NO.           | : 224-923-5                                    |

| Component                     | Classification | Concentration |
|-------------------------------|----------------|---------------|
| <b>2-Methylglutaronitrile</b> |                |               |

| Component | Classification    | Concentration |
|-----------|-------------------|---------------|
|           | no data available | ≥98%(GC)      |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

If inhaled, please move the patient to fresh air. If breathing stops, give artificial respiration.

#### In case of skin contact

Rinse with soap and plenty of water. Consult a doctor.

#### In case of eye contact

Separate the eyelids and rinse with flowing water or physiological saline. Seek medical attention immediately.

#### If swallowed

Do not feed anything from the mouth to an unconscious person. Rinse your mouth with water.

### 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

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

no data available

### 5.3 Advice for firefighters

If necessary, wear a self-contained breathing apparatus to put out the fire.

### 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 a breathing mask. Avoid inhaling vapors, aerosols, or gases. Ensure sufficient ventilation. Eliminate all sources of ignition. 将 Evacuate personnel to a safe area. Pay attention to the accumulation of steam at explosive concentrations, as it can accumulate in low lying areas on the ground.

### 6.2 Environmental precautions

If safety can be ensured, measures can be taken to prevent further leakage or overflow. Do not allow the product to enter the sewer.

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

Soak up with inert absorbent material and dispose of as hazardous waste. Place in a suitable closed container for disposal.

### 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

Avoid contact with skin and eyes. Avoid the formation of dust and aerosols. Provide suitable exhaust equipment in areas with dust generation.

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

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place. The opened container must be carefully resealed and kept in an upright position to prevent leakage.

### 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**

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**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's 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. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 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 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                                   | form: liquid color: colorless to pale yellow |
| b) Odour                                        | no data available                            |
| c) Odour Threshold                              | no data available                            |
| d) pH                                           | no data available                            |
| e) Melting point/freezing point                 | -45 °C                                       |
| f) Initial boiling point and boiling range      | 135°C/12mmHg                                 |
| g) Flash point                                  | 115°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                       | 0.956             |
| 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

no data available

### 10.5 Incompatible materials

strong acid, alkali, strong oxidant

### 10.6 Hazardous decomposition products

In case of fire, it will decompose into harmful substances. - Carbon oxide, Nitrogen oxides

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

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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**

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

## SECTION 13:

### 13.1 Disposal considerations

#### Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

#### DOT (US)

|                                                                                |                                           |                                            |
|--------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|
| UN number: 3276                                                                | Packing group: III                        | Class: 6.1                                 |
| Proper shipping name: Nitriles, liquid, toxic, n.o.s. (2-Methylglutaronitrile) | Reportable Quantity(RQ):no data available | Poison Inhalation Hazard:no data available |
| Environmental Hazards: No                                                      |                                           |                                            |

#### IMDG

|                                                                                |                    |                          |
|--------------------------------------------------------------------------------|--------------------|--------------------------|
| UN number: 3276                                                                | Packing group: III | EMS-No:no data available |
| Proper shipping name: Nitriles, liquid, toxic, n.o.s. (2-Methylglutaronitrile) |                    |                          |

#### IATA

|                                                                                |                    |            |
|--------------------------------------------------------------------------------|--------------------|------------|
| UN number: 3276                                                                | Packing group: III | Class: 6.1 |
| Proper shipping name: Nitriles, liquid, toxic, n.o.s. (2-Methylglutaronitrile) |                    |            |

## SECTION 15: Regulatory information

no data available

## SECTION 16: Other information

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#### Creation Date

10-Sep-2020

#### Revision Date

14-Jan-2026

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**Print Date**

14-Jan-2026

**Revision Summary**

SDS sections updated v1

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