

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-13

Print Date: 2025-09-20

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

### 1.1 Product identifiers

Product name : 4,4'-Methylene-bis(2-methylaniline)  
Product Number : M114089  
Brand : aladdin  
CAS-No. : 838-88-0

### 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) Grade 4

Serious damage/irritation to eyes Category 2A

Skin Sensitivity Level 1

Germ Cell Sensitivity Level 2

Carcinogenicity Class 2

Acute aquatic toxicity Class 1

Chronic aquatic toxicity Class 1

### 2.2 GHS Label elements, including precautionary statements

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

**Pictogram**



**Signal word**

Danger

**Hazard statement(s)**

|      |                                                      |
|------|------------------------------------------------------|
| H302 | Harmful if swallowed                                 |
| H317 | May cause an allergic skin reaction                  |
| H350 | May cause cancer                                     |
| H400 | Very toxic to aquatic life                           |
| H410 | Very toxic to aquatic life with long lasting effects |

**Precautionary statement(s)**

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| P261      | Avoid breathing dust/fume/gas/mist/vapors/spray.                           |
| P264      | Wash hands [and ...] thoroughly after handling.                            |
| P270      | Do not eat, drink or smoke when using this product.                        |
| P272      | Contaminated work clothing should not be allowed out of the workplace.     |
| P273      | Avoid release to the environment.                                          |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection. |
| P321      | Specific treatment (see ... on this label).                                |
| P330      | Rinse mouth.                                                               |
| P391      | Collect spillage.                                                          |
| P302+P352 | IF ON SKIN: wash with plenty of water.                                     |
| P333+P313 | IF SKIN irritation or rash occurs: Get medical advice/attention.           |
| P362+P364 | Take off contaminated clothing and wash it before reuse.                   |
| P405      | Store locked up.                                                           |
| P501      | Dispose of contents/container to an approved waste disposal plant.         |
| P203      | Obtain, read and follow all safety instructions before use.                |
| P301+P317 | IF SWALLOWED: Get medical help.                                            |
| P318      | if exposed or concerned, get medical advice.                               |

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                                                                                            |
|------------------|------------------------------------------------------------------------------------------------------------|
| Synonyms         | : 4,4'-Methylenebis-o-toluidine; 4,4'-Diamino-3,3'-dimethyldiphenylmethane; 4,4'-Methylene-di(o-toluidine) |
| Formula          | : C <sub>15</sub> H <sub>18</sub> N <sub>2</sub>                                                           |
| Molecular weight | : 226.32                                                                                                   |
| CAS No.          | : 838-88-0                                                                                                 |
| EC-NO.           | : 212-658-8                                                                                                |

| Component | Classification | Concentration |
|-----------|----------------|---------------|
|-----------|----------------|---------------|

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| Component                           | Classification    | Concentration       |
|-------------------------------------|-------------------|---------------------|
| 4,4'-Methylene-bis(2-methylaniline) |                   |                     |
|                                     | no data available | analytical standard |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

no data available

#### If inhaled

Move victim to fresh air, keep breathing, and rest. If you feel unwell seek medical advice/attention.

#### In case of skin contact

Immediately remove/take off all contaminated clothing. Wash skin/shower with water. If skin irritation or rash occurs: Get medical advice/attention.

#### In case of eye contact

Rinse carefully with water for a few minutes. If convenient and easy to operate, remove contact lenses. Continue cleaning. If eye irritation: Get medical advice/attention.

#### If swallowed

Rinse mouth, do not induce vomiting. Get medical attention immediately.

### 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 powder, foam, water mist, carbon dioxide

#### Unsuitable extinguishing media

no data available

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

Be careful, it may decompose and produce toxic fumes when burning or at high temperature.

### 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

Be careful not to discharge into rivers etc. Because the consideration has a negative impact on the environment.

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

Clean and collect dust and seal it in a closed container. Be careful not to scatter. Attachments or collections should be disposed of immediately in accordance with applicable laws and regulations.

### 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

Technical measures: Handle in a well-ventilated place. Wear suitable protective equipment. Prevent dust from spreading. Wash hands and face thoroughly after handling. CAUTION: If dust or aerosols are generated, use local exhaust. Precautions: Avoid contact with skin, eyes and clothing.

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

no data available

### 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

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                 | 155-157°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 |
| 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 |

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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

Oxidizer

### 10.6 Hazardous decomposition products

carbon dioxide, carbon monoxide, Nitrogen oxides (NOx)

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

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

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no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

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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 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.

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## SECTION 14: Transport information

### DOT (US)

UN number: 3077

Packing group: III

Class: 9

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|                                         |                                            |                                             |
|-----------------------------------------|--------------------------------------------|---------------------------------------------|
| Proper shipping name: no data available | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
|-----------------------------------------|--------------------------------------------|---------------------------------------------|

Environmental Hazards: Yes

**IMDG**

|                                         |                    |                           |
|-----------------------------------------|--------------------|---------------------------|
| UN number: 3077                         | Packing group: III | EMS-No: no data available |
| Proper shipping name: no data available |                    |                           |

**IATA**

|                                         |                    |          |
|-----------------------------------------|--------------------|----------|
| UN number: 3077                         | Packing group: III | Class: 9 |
| Proper shipping name: no data available |                    |          |

## 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<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
| <b>Creation Date</b>    | 11-Apr-2022                                                                                                                                         |
| <b>Revision Date</b>    | 13-Sep-2025                                                                                                                                         |
| <b>Print Date</b>       | 20-Sep-2025                                                                                                                                         |
| <b>Revision Summary</b> | SDS sections updated v1                                                                                                                             |

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