

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-18

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

### 1.1 Product identifiers

|                |                          |
|----------------|--------------------------|
| Product name   | : 2-amino-4-nitrotoluene |
| Product Number | : A104370                |
| Brand          | : aladdin                |
| CAS-No.        | : 99-55-8                |

### 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)

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

|      |                                                   |
|------|---------------------------------------------------|
| H301 | Toxic if swallowed                                |
| H311 | Toxic in contact with skin                        |
| H331 | Toxic if inhaled                                  |
| H351 | Suspected of causing cancer                       |
| H412 | Harmful to aquatic life with long lasting effects |

Precautionary statement(s)

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|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| 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.                        |
| P271      | Use only outdoors or in a well-ventilated area.                            |
| 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.                                                               |
| 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.         |
| P203      | Obtain, read and follow all safety instructions before use.                |
| P301+P316 | IF SWALLOWED: Get emergency medical help immediately.                      |
| P318      | if exposed or concerned, get medical advice.                               |
| 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         | : 2-Methyl-5-nitroaniline 5-Nitro-o-toluidine C.I. 37105 |
| Formula          | : C7H8N2O2                                               |
| Molecular weight | : 152.15                                                 |
| CAS No.          | : 99-55-8                                                |
| EC-NO.           | : no data available                                      |

| Component              | Classification    | Concentration       |
|------------------------|-------------------|---------------------|
| 2-amino-4-nitrotoluene | no data available | analytical standard |

## 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

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no data available

**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**

Rinse your mouth with water and then drink a large amount of water. If symptoms appear, seek medical treatment.

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

Inhalation in the human body causes the formation of methemoglobin, which can cause pallor disease at a certain concentration. Generally, it will attack after 2-4 hours or more,

**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**

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**

no data available

**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**

Do not generate dust during collection and disposal. Sweep and shovel away. Place in a suitable closed container for processing.

**6.2 Environmental precautions**

no data available

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

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## 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

No data available

### 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.

### 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

no data available

##### 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

no data available

##### 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

no data available

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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

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|                                                 |                   |
|-------------------------------------------------|-------------------|
| 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                 | 107°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 |
| t) Oxidizing properties N                       | no data available |

## 9.2 Other safety information

no data available

## 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

no data available

### 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**

It is toxic if absorbed through the skin and may cause skin irritation.

**Serious eye damage/eye irritation**

May cause eye irritation.

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

In vitro genotoxicity-mouse-embryonic morphological distortion

**Carcinogenicity**

Mouse - Oral Tumorigenesis: Meets RTECS criteria for carcinogenicity. Vascular: Neoplasms Liver: Neoplasms This product is or contains components classified as carcinogens by IARC, ACGIH, EPA, and NTP Limited evidence of carcinogenicity in animal studies 3 - Group 3: Not classified as carcinogenic to humans ( 5-Nitro-o-toluidine)

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

Toxic if swallowed.

**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

LC50 for fish - Pimephales promelas (fathead minnows) - 19 - 50 mg/l - 96.0 h EC50 for Daphnia and other aquatic invertebrates - Daphnia magna (Water flea) - 22.5 mg/l - 48 h

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

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no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

Toxic to aquatic organisms and has long-lasting effects. Avoid release into the environment.

**SECTION 13:**

**13.1 Disposal considerations**

**Product**

no data available

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

**DOT (US)**

|                                              |                                            |                               |
|----------------------------------------------|--------------------------------------------|-------------------------------|
| UN number: 2660                              | Packing group: III                         | Class: 6.1                    |
| Proper shipping name: NITROTOLUIDINES (MONO) | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: yes |
| Environmental Hazards: yes                   |                                            |                               |

**IMDG**

|                                              |                    |            |
|----------------------------------------------|--------------------|------------|
| UN number: 2660                              | Packing group: III | EMS-No: No |
| Proper shipping name: NITROTOLUIDINES (MONO) |                    |            |

**IATA**

|                                              |                    |            |
|----------------------------------------------|--------------------|------------|
| UN number: 2660                              | Packing group: III | Class: 6.1 |
| Proper shipping name: NITROTOLUIDINES (MONO) |                    |            |

**SECTION 15: Regulatory information**

no data available

**SECTION 16: Other information**

|                  |                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Prepared By      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
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| Print Date       | 24-Sep-2025                                                                                                                                         |
| Revision Summary | SDS sections updated v1                                                                                                                             |

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