

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-12

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

### 1.1 Product identifiers

Product name : 4-Nitro-m-cresol  
Product Number : N159535  
Brand : aladdin  
CAS-No. : 2581-34-2

### 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)

CFR 1910.1200: Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Germ Cell Mutagenicity [Category 2] Aquatic Hazard (Acute) [Category 2] Aquatic Hazard (Long-Term) [Category 2]

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed

H312

Harmful in contact with skin

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|                                   |                                                                                                                                  |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| H315                              | Causes skin irritation                                                                                                           |
| H319                              | Causes serious eye irritation                                                                                                    |
| H332                              | Harmful if inhaled                                                                                                               |
| H335                              | May cause respiratory irritation                                                                                                 |
| <b>Precautionary statement(s)</b> |                                                                                                                                  |
| 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.                                                                                  |
| 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.                                                       |
| P305+P351+P338                    | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P362+P364                         | Take off 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.                                                               |
| P264+P265                         | Wash hands [and ...] thoroughly after handling. Do not touch eyes.                                                               |
| P301+P317                         | IF SWALLOWED: Get medical help.                                                                                                  |
| P317                              | Get emergency medical help.                                                                                                      |
| P337+P317                         | If eye irritation persists: Get medical help.                                                                                    |
| P332+P317                         | If skin irritation occurs: Get medical help.                                                                                     |
| P319                              | Get medical help if you feel unwell.                                                                                             |

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                          |
|------------------|--------------------------|
| Synonyms         | : 3-Methyl-4-nitrophenol |
| Formula          | : C7H7NO3                |
| Molecular weight | : 153.14                 |
| CAS No.          | : 2581-34-2              |
| EC-NO.           | : no data available      |

| Component        | Classification    | Concentration |
|------------------|-------------------|---------------|
| 4-Nitro-m-cresol | no data available | ≥98%(HPLC)(T) |

**SECTION 4: First aid measures****4.1 Description of first aid measures****General advice**

no data available

**If inhaled**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

**In case of skin contact**

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.

**In case of eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.

**If swallowed**

Get medical advice/attention. Rinse mouth.

**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

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**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Dry chemical, foam, water spray, carbon dioxide.

**Unsuitable extinguishing media**

no data available

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

These products include: Carbon oxides Nitrogen oxides. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Closed containers may explode from heat of a fire.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus if possible.

**5.4 Further information**

Use water spray to cool unopened containers.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel

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should be controlled around the leakage area by roping off, etc.

## 6.2 Environmental precautions

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.

## 6.3 Methods and materials for containment and cleaning up

Clean up the dust and collect it in a closed container, taking care not to disperse it. Adhered or aggregated materials shall be disposed of in a timely manner in accordance with local 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

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid all contact! Conditions for safe storage, including any incompatibilities

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

Keep container tightly closed. Store in a cool and dark place. Store locked up. Store away from incompatible materials such as oxidizing agents.

### 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

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

#### Personal protective equipment

##### Eye/face protection

Safety goggles. A face-shield, if the situation requires.

##### 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

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Impervious gloves. Impervious protective clothing. Protective boots, if the situation requires.

**Respiratory protection**

Dust respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

**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                                   | form: Crystal - Powder Solid color: Pale yellow - Yellow         |
| b) Odour                                        | no data available                                                |
| c) Odour Threshold                              | Phenolic                                                         |
| d) pH                                           | no data available                                                |
| e) Melting point/freezing point                 | 128°C (262°F)                                                    |
| 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                             | Water: Very slightly soluble (1190mg/L, 20°C); Soluble: Methanol |
| o) Partition coefficient: n-octanol/water       | no data available                                                |
| p) Auto-ignition temperature                    | 455°C (851°F)                                                    |
| 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.

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**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

no data available

**10.5 Incompatible materials**

Oxidizing agents

**10.6 Hazardous decomposition products**Carbon dioxide, Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>)

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

orl-rat LD50:1200 mg/kg ipr-mus LD50:90 mg/kg ice-mus LD50:15 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

cyt-mus-ipr 2500 mg/kg/10W-I cyt-ham-lng 10mmol/L/6H(+/-S9)

**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**

RTECS Number:GP2625000

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**SECTION 12: Ecological information****12.1 Toxicity**Fish: 48h LC50:8.4 mg/L (*Oryzias latipes*) ;Crustacea: 24h EC50:7.8 mg/L (*Daphnia magna*)

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## 12.2 Persistence and degradability

0 % (by BOD) , 3 % (by TOC) , 6 % (by UV-VIS)

## 12.3 Bioaccumulative potential

5.2 - 31 (conc. 0.3 ppm) , 6.0 - 17 (conc. 0.03 ppm)

## 12.4 Mobility in soil

Log Pow: 2.48 Soil adsorption (Koc): Henry's Law (PaM /mol):  $1.63 \times 10^{-3}$ 

## 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

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil. Other considerations: Observe all federal, state and local regulations when disposing of the substance.

#### Contaminated packaging

Disposal of container: Dispose of as unused product. Do not re-use empty containers.

## SECTION 14: Transport information

### DOT (US)

UN number: UN2446

Packing group: III

Class: 6.1

Proper shipping name: Nitrocresols,  
solid

Reportable Quantity(RQ): no data  
available

Poison Inhalation Hazard: no data  
available

Environmental Hazards: no data available

### IMDG

UN number: UN2446

Packing group: III

EMS-No: EmS number: F-A, S-A

Proper shipping name: Nitrocresols, solid

### IATA

UN number: UN2446

Packing group: III

Class: 6.1

Proper shipping name: Nitrocresols, solid

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## SECTION 15: Regulatory information

### Toxic Substance Control Act

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory. US Federal Regulations

### US Federal Regulations

SARA 313: Not Listed

SARA 302: Not Listed

### State Regulations

Massachusetts Not Listed

New Jersey Not Listed

Pennsylvania Not Listed

### Other Information

NFPA Rating: HMIS Classification: Health: 2 Health: 2 Flammability: 0 Flammability: 0 Instability: 0 Physical: 0

### International Inventories

Canada: NDSL On NDSL

EC-No: 219-952-5

## 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       | 14-Sep-2025                                                                                                                                         |
| Revision Summary | SDS sections updated v1                                                                                                                             |

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