

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-06-12

Print Date: 2025-06-12

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

### 1.1 Product identifiers

|                |                                  |
|----------------|----------------------------------|
| Product name   | : 2,4,6-Trichlorophenol solution |
| Product Number | : T108939                        |
| Brand          | : aladdin                        |
| CAS-No.        | : 88-06-2(Methanol)              |

### 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,<br>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)

Flammable liquid: Category 2, H225

Acute toxicity, Oral (Category 4), H302

Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 2A), H319

Carcinogenicity (Category 2), H351

Short-term (acute) aquatic hazard (Category 1), H400

Long-term (chronic) aquatic hazard (Category 1), H410

### 2.2 GHS Label elements, including precautionary statements

Pictogram



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| Signal word                       | Danger                                                                                                                           |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard statement(s)</b>        |                                                                                                                                  |
| H225                              | Highly Flammable liquid and vapor                                                                                                |
| H302                              | Harmful if swallowed                                                                                                             |
| H315                              | Causes skin irritation                                                                                                           |
| H319                              | Causes serious eye irritation                                                                                                    |
| H351                              | Suspected of causing cancer                                                                                                      |
| H410                              | Very toxic to aquatic life with long lasting effects                                                                             |
| <b>Precautionary statement(s)</b> |                                                                                                                                  |
| P201                              | Obtain special instructions before use.                                                                                          |
| P210                              | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.                                  |
| P202                              | Do not handle until all safety precautions have been read and understood.                                                        |
| P233                              | Keep container tightly closed.                                                                                                   |
| P240                              | Ground/bond container and receiving equipment.                                                                                   |
| P241                              | Use explosion-proof [electrical/ventilating/lighting/.../] equipment.                                                            |
| P242                              | Use only non-sparking tools.                                                                                                     |
| P243                              | Take precautionary measures against static discharge.                                                                            |
| P264                              | Wash hands [and ...] thoroughly after handling.                                                                                  |
| P270                              | Do not eat, drink or smoke when using this product.                                                                              |
| P273                              | Avoid release to the environment.                                                                                                |
| P281                              | Use personal protective equipment as required.                                                                                   |
| P391                              | Collect spillage.                                                                                                                |
| P302+P352                         | IF ON SKIN: wash with plenty of water.                                                                                           |
| P305+P351+P338                    | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P308+P313                         | IF exposed or concerned: Get medical advice/attention.                                                                           |
| P332+P313                         | IF SKIN irritation occurs: Get medical advice/attention.                                                                         |
| P337+P313                         | IF eye irritation persists: Get medical advice/attention.                                                                        |
| P403                              | Store in a well-ventilated place.                                                                                                |
| P405                              | Store locked up.                                                                                                                 |
| P501                              | Dispose of contents/container to an approved waste disposal plant.                                                               |
| P301+P312+P330                    | IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.                                                      |

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

|                  |                                                   |
|------------------|---------------------------------------------------|
| Synonyms         | : 2,4,6-Trichloro-2-hydroxybenzene 2,4,6-TCP      |
| Formula          | : C <sub>6</sub> H <sub>3</sub> Cl <sub>3</sub> O |
| Molecular weight | : 197.45                                          |

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| Component                    | Classification                                                                                              | Concentration |
|------------------------------|-------------------------------------------------------------------------------------------------------------|---------------|
| <b>Methanol</b>              |                                                                                                             |               |
| CAS-No. : 67-56-1            | Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H311, H370                                         |               |
| EC-No. :                     | Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2, H371                                 |               |
| <b>2,4,6-Trichlorophenol</b> |                                                                                                             |               |
| CAS-No. : 88-06-2            | Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Carc. 2; Aquatic Acute 1; Aquatic                                |               |
| EC-No. : 201-795-9           | Chronic 1; H302, H315, H319, H351, H400, H410 M-Factor - Aquatic<br>Acute: 10 M-Factor - Aquatic Chronic: 1 |               |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Unsuitable extinguishing media

no data available

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

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Hydrogen chloride gas

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting 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

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

### 6.2 Environmental precautions

If safety can be ensured, measures can be taken to prevent further leakage or overflow. Don't let the product go down the drain.

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

Dry it out. Discard. Clear the affected area. Avoid dust.

### 6.4 Reference to other sections

no data available

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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

Keep the container closed and store it in a dry, ventilated and cool place. 2-8 °C, store away from light.

### 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 EN 166(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

## 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                 | no data available |
| 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 |

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- |                           |                   |
|---------------------------|-------------------|
| 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

no data available

### 10.3 Possibility of hazardous reactions

Possible violent reactions may occur with it: strong oxidant Halogenated acid acid anhydride

### 10.4 Conditions to avoid

Strong heating

### 10.5 Incompatible materials

no data available

### 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 -820.0 mg/kg

Note: (RTECS)

Symptoms: Possible damage: Mucosal irritation

Transcutaneous: No data available

#### Skin corrosion/irritation

Skin - Rabbit Result: Skin irritation -24 hours Note: (RTECS) Note: Classified according to Annex 6 (Tables 3.1/3.2) of EU CLP Regulation 1272/2008

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: Severe eye irritation -24 hours Note: (RTECS) Note: Classified according to Annex 6 (Tables 3.1/3.2) of EU CLP Regulation 1272/2008

#### Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

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Suspected of causing cancer.

**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**

It depends on the duration and intensity of contact. The degree of stimulation ranges from mild to severe tissue damage. Damage to the eyes, as far as we know, this chemical and physical

The toxicity properties have not been fully studied.

After absorbing toxic substances:

central nervous system disorders

Cardiovascular deconditioning

Other hazards cannot be ruled out.

Operate in accordance with good industrial hygiene and safety regulations.

Damage to eyes-

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## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish LC50- *Lepomis macrochirus* -0.32 mg/l -96 h Remarks: (ECOTOX database)

Toxicity to *Daphnia magna* and other aquatic invertebrates EC50- *Daphnia magna* -2.2 mg/l -48 h Remarks: (ECOTOX database)

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

Bioaccumulation *Poecillia reticulata* -36 days -0.0005 mg/l (2,4,6-trichlorophenol) Bioaccumulation Factor (BCF): 12180

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

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### 12.6 Other adverse effects

no data available

## SECTION 13:

### 13.1 Disposal considerations

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Discard as an unused product.

## SECTION 14: Transport information

**DOT (US)**

|                                                               |                                            |                                             |
|---------------------------------------------------------------|--------------------------------------------|---------------------------------------------|
| UN number: 1230                                               | Packing group: III                         | Class: 6.1(9)                               |
| Proper shipping name: 2,4,6-trichlorophenol standard solution | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: Yes                                    |                                            |                                             |

**IMDG**

|                                                               |                    |                           |
|---------------------------------------------------------------|--------------------|---------------------------|
| UN number: 1230                                               | Packing group: III | EMS-No: no data available |
| Proper shipping name: 2,4,6-trichlorophenol standard solution |                    |                           |

**IATA**

|                                                               |                    |               |
|---------------------------------------------------------------|--------------------|---------------|
| UN number: 1230                                               | Packing group: III | Class: 6.1(9) |
| Proper shipping name: 2,4,6-trichlorophenol standard solution |                    |               |

## SECTION 15: Regulatory information

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

## SECTION 16: Other information

|                  |                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Prepared By      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
| Creation Date    | 12-Jun-2025                                                                                                                                         |
| Revision Date    | 12-Jun-2025                                                                                                                                         |
| Print Date       | 12-Jun-2025                                                                                                                                         |
| Revision Summary | SDS sections updated v1                                                                                                                             |

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