

# SAFETY DATA SHEET

Version: v1

Revision Date: 2024-01-16

Print Date: 2024-01-23

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

### 1.1 Product identifiers

Product name : 1,3,5-Trimethylbenzene solution  
Product Number : T105014  
Brand : aladdin  
CAS-No. : 108-67-8(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,  
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 liquids (Category 3), H226

Acute toxicity, Inhalation (Category 4), H332

Skin corrosion/irritation (Category 2), H315

Specific target organ toxicity - single exposure (Category 3), respiratory tract irritation, H335

Aspiration hazard (Category 1), H304

Short-term (acute) aquatic hazard (Category 2), H401

Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

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## 2.2 GHS Label elements, including precautionary statements

|                            |                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Pictogram                  |                                              |
| Signal word                | Danger                                                                                                                         |
| Hazard statement(s)        |                                                                                                                                |
| H226                       | Flammable liquid and vapor                                                                                                     |
| H304                       | May be fatal if swallowed and enters airways                                                                                   |
| H315                       | Causes skin irritation                                                                                                         |
| H332                       | Harmful if inhaled                                                                                                             |
| H335                       | May cause respiratory irritation                                                                                               |
| H411                       | Toxic to aquatic life with long lasting effects                                                                                |
| Precautionary statement(s) |                                                                                                                                |
| P210                       | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.                                |
| 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.                                                                          |
| P261                       | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                               |
| P264                       | Wash hands [and ...] thoroughly after handling.                                                                                |
| 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.                                                     |
| P331                       | Do NOT induce vomiting.                                                                                                        |
| P391                       | Collect spillage.                                                                                                              |
| P301+P310                  | IF SWALLOWED: Immediately call a POISON CENTER/doctor/...                                                                      |
| P303+P361+P353             | IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].                       |
| P332+P313                  | IF SKIN irritation occurs: Get medical advice/attention.                                                                       |
| P370+P378                  | In case of fire: Use ... to extinguish.                                                                                        |
| P405                       | Store locked up.                                                                                                               |
| P403+P233                  | Store in a well-ventilated place. Keep container tightly closed.                                                               |
| P403+P235                  | Store in a well-ventilated place. Keep cool.                                                                                   |
| P501                       | Dispose of contents/container to an approved waste disposal plant.                                                             |
| P304+P340+P312             | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor. if you feel unwell. |

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

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

|                  |                                   |
|------------------|-----------------------------------|
| Synonyms         | : sym-Trimethylbenzene Mesitylene |
| Formula          | : no data available               |
| Molecular weight | : no data available               |

| 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>1,3,5-Trimethylbenzene</b> |                                                                                                                                                                                                                                                                   |               |
| CAS-No. : 108-67-8            | Flammable liquids Category 3; Acute toxicity Category 4; Skin                                                                                                                                                                                                     |               |
| EC-No. : 203-604-4            | corrosion/irritation Category 2; Specific target organ toxicity - single exposure Category 3; Aspiration hazard Category 1; Short-term (acute) aquatic hazard Category 2; Long-term (chronic) aquatic hazard Category 2; H226, H332, H315, H335, H304, H401, H411 |               |

## 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

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 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

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

Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.

## 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

### 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). Dispose of properly. Clean up affected area.

### 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

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. For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Storage class (TRGS 510): 3: Flammable liquids

## 7.3 Specific end use(s)

no data available

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

| Component  | CAS No.  | Value | Control parameters | Basis                                                                                      |
|------------|----------|-------|--------------------|--------------------------------------------------------------------------------------------|
| mesitylene | 108-67-8 | TWA   | 25 ppm125<br>mg/m3 | U.S.A. NIOSH recommended exposure limits                                                   |
|            |          | TWA   | 25 ppm             | U.S.A. ACGIH threshold limit value (TLV)                                                   |
|            |          | TWA   | 25 ppm125<br>mg/m3 | USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000                              |
|            |          | PEL   | 25 ppm125<br>mg/m3 | Allowable exposure limits for chemical pollutants in California (article 107, paragraph 8) |

## 8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

**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.

**Body Protection**

Flame retardant antistatic protective clothing.

**Respiratory protection**

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

**Control of environmental exposure**

Do not let product enter drains. Risk of explosion.

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## 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                             | 1                                                                                  |
| n) Water solubility                             | Insoluble in water, soluble in alcohol, ether, benzene and other organic solvents. |
| 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                                                                  |

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## 9.2 Other safety information

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Heating.

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male - 6,000 mg/kg (EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)) LC50 Inhalation - Rat - male and female - 4 h - 10.2 mg/l - vapor Remarks: (ECHA) LD50 Dermal - Rat - male and female - > 2,000 mg/kg Remarks: (ECHA)

Skin corrosion/irritation

Skin - Rabbit Result: Irritating to skin. - 4 h (Regulation (EC) No. 440/2008, Annex, B.4)

Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Remarks: (in analogy to similar products)

Respiratory or skin sensitisation

Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406) Remarks: (in analogy to similar products)

Germ cell mutagenicity

Test Type: Ames test Test system: S. typhimurium Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471 Result: negative Test Type: Micronucleus test Species: Mouse Cell type: Red blood cells (erythrocytes) Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: negative

Carcinogenicity

no data available

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Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

May cause respiratory irritation. - Respiratory system

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

May be fatal if swallowed and enters airways.

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 90 Days - NOAEL (No observed adverse effect level) - 600

mg/kg RTECS: OX6825000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish flow-through test LC50 - *Carassius auratus* (goldfish) - 12.52 mg/l - 96 h Remarks: (ECHA) Toxicity to daphnia and other aquatic invertebrates static test LC50 - *Daphnia magna* (Water flea) - 6 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test ErC50 - *Desmodesmus subspicatus* (green algae) - 53 mg/l - 48 h (DIN 38412) Toxicity to bacteria static test NOEC - activated sludge - 24.2 mg/l - 28 h Remarks: (ECHA)

### 12.2 Persistence and degradability

Biodegradability aerobic Theoretical oxygen demand - Exposure time 28 d Result: 61 % - Readily biodegradable. (OECD Test Guideline 301F) Remarks: The 10 day time window criterion is not fulfilled.

### 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

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

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Dispose of as unused product.

## SECTION 14: Transport information

### DOT (US)

UN number: 2325

Packing group: III

Class: 3

Proper shipping name: 1,3,5-Trimethylbenzene solution

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: yes

### IMDG

UN number: 2325

Packing group: III

EMS-No: no data available

Proper shipping name: 1,3,5-Trimethylbenzene solution

### IATA

UN number: 2325

Packing group: III

Class: 3

Proper shipping name: 1,3,5-Trimethylbenzene 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

ALADDIN SCIENTIFIC CORPORATION

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### Creation Date

16-Nov-2021

### Revision Date

16-Jan-2024

### Print Date

23-Jan-2024

### Revision Summary

SDS sections updated v1

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