

# SAFETY DATA SHEET

Version: v1

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

### 1.1 Product identifiers

Product name : tert-Amyl alcohol  
Product Number : A103419  
Brand : aladdin  
CAS-No. : 75-85-4

### 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 2), H225

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 1), H318

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

### 2.2 GHS Label elements, including precautionary statements

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**Pictogram**



Danger

**Signal word**

**Hazard statement(s)**

|           |                                            |
|-----------|--------------------------------------------|
| H225      | Highly Flammable liquid and vapor          |
| H315      | Causes skin irritation                     |
| H318      | Causes serious eye damage                  |
| H335      | May cause respiratory irritation           |
| H336      | May cause drowsiness or dizziness          |
| H312+H332 | Harmful in contact with skin or if inhaled |

**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.                                                          |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                               |
| P321           | Specific treatment (see ... on this label).                                                              |
| P302+P352      | IF ON SKIN: wash with plenty of water.                                                                   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower]. |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                               |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                 |
| 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.                                       |
| P317           | Get emergency 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

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|                  |                                                             |
|------------------|-------------------------------------------------------------|
| Synonyms         | : 2-Methyl-2-butanol 2-Methylbutan-2-ol tert-Pentyl alcohol |
| Formula          | : C <sub>5</sub> H <sub>12</sub> O                          |
| Molecular weight | : 88.15                                                     |
| CAS No.          | : 75-85-4                                                   |
| EC-NO.           | : 200-908-9                                                 |

| Component         | Classification    | Concentration   |
|-------------------|-------------------|-----------------|
| tert-Amyl alcohol | no data available | anhydrous, ≥99% |

## 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. Consult a physician.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). 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

Carbon dioxide (CO<sub>2</sub>) Foam Dry powder

#### Unsuitable extinguishing media

no data available

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

Carbon oxides Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 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

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.

### 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). Take up with liquid-absorbent material (e.g. Chemizorb®). 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.

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

Store in a cool and ventilated warehouse. Avoid 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 EN166(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                                   | form: Liquid color: Colorless |
| b) Odour                                        | no data available             |
| c) Odour Threshold                              | no data available             |
| d) pH                                           | no data available             |
| e) Melting point/freezing point                 | -12 °C                        |
| f) Initial boiling point and boiling range      | 102.5 °C                      |
| g) Flash point                                  | 19.4°C                        |
| 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                             | 0.805                         |
| 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             |

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|                           |                   |
|---------------------------|-------------------|
| 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**

Violent reactions possible with: Alkali metals Alkaline earth metals Hydrogen Risk of ignition or formation of inflammable gases or vapours with: Fluorine Strong oxidizing agents Oxygen

**10.4 Conditions to avoid**

Warming.

**10.5 Incompatible materials**

rubber, various plastics

**10.6 Hazardous decomposition products**

no data available

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

LD50 Oral - Rat - 5,200 mg/kg

Remarks: (External MSDS)

Inhalation: No data available

LD50 Dermal - Rabbit - 1,720 mg/kg

(OECD Test Guideline 402)

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

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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**

May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: SC0175000

prolonged or repeated exposure can cause:, Nausea, Dizziness, Headache, 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 static test LC50 - *Leuciscus idus* (Golden orfe) - 2,430 mg/l - 48 h (OECD Test Guideline 203) Remarks: (External MSDS)

Toxicity to daphnia and other aquatic invertebrates static test EC50 - *Daphnia magna* (Water flea) - 540 mg/l - 48 h (DIN 38412)

Toxicity to algae EC50 - *Desmodesmus subspicatus* (green algae) - > 500 mg/l - 72 h (OECD Test Guideline 201) Remarks: (External MSDS)

**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

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## 12.6 Other adverse effects

no data available

## 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.

## SECTION 14: Transport information

#### DOT (US)

UN number: 1105

Proper shipping name: Pentanols

Packing group: II

Reportable Quantity(RQ): no data available

Class: 3

Poison Inhalation Hazard: no data available

Environmental Hazards: no

#### IMDG

UN number: 1105

Proper shipping name: Pentanols

Packing group: II

EMS-No: no data available

#### IATA

UN number: 1105

Proper shipping name: Pentanols

Packing group: II

Class: 3

## 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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SDS sections updated v1

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