

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-13

Print Date: 2025-09-19

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

### 1.1 Product identifiers

Product name : 2,6-Di-tert-butylphenol  
Product Number : D104361  
Brand : aladdin  
CAS-No. : 128-39-2

### 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)

Skin corrosion/irritation (Category 2), H315

Acute (short-term) aquatic hazard (Category 1), H400

Long term aquatic hazards (Category 1), H410

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H315

Causes skin irritation

H319

Causes serious eye irritation

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|                                   |                                                                                                                                  |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| H335                              | May cause respiratory irritation                                                                                                 |
| H400                              | Very toxic to aquatic life                                                                                                       |
| H410                              | Very toxic to aquatic life with long lasting effects                                                                             |
| <b>Precautionary statement(s)</b> |                                                                                                                                  |
| 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.                                                       |
| P321                              | Specific treatment (see ... on this label).                                                                                      |
| P391                              | Collect spillage.                                                                                                                |
| 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.                                                               |
| 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         | : 2,6-Bis(1,1-dimethylethyl)phenol  |
| Formula          | : C <sub>14</sub> H <sub>22</sub> O |
| Molecular weight | : 206.33                            |
| CAS No.          | : 128-39-2                          |
| EC-NO.           | : no data available                 |

| Component                      | Classification    | Concentration |
|--------------------------------|-------------------|---------------|
| <b>2,6-Di-tert-butylphenol</b> |                   |               |
|                                | no data available | ≥98%          |

## 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

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

### In case of skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

### In case of eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

### If swallowed

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center 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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

no data available

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

Oxocarbon Flammable Vapor is heavier than air, so it can diffuse along the ground. Under rapid heating, it forms an explosive mixture with air. When a fire occurs, it may cause the production of hazardous gases or vapors.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting 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

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

## 6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

## 6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate 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

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

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

Store in a cool and ventilated warehouse. Sensitive to light and stored away from Optical storage

### 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

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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**

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                                                                |
|-------------------------------------------------|----------------------------------------------------------------|
| a) Appearance                                   | form: Solid,Liquid color: White to Light Yellow,Reddish-Yellow |
| b) Odour                                        | no data available                                              |
| c) Odour Threshold                              | no data available                                              |
| d) pH                                           | no data available                                              |
| e) Melting point/freezing point                 | 34-39°C                                                        |
| f) Initial boiling point and boiling range      | 253°C                                                          |
| g) Flash point                                  | 118°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                             | 0.91                                                           |
| 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

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

no data available

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## 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

Strong heating

### 10.5 Incompatible materials

Copper; Copper compounds; brass

### 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 - rats - males and females ->5000 mg/kg

(OECD Testing Guidelines 401)

#### Skin corrosion/irritation

Skin Rabbit Result: Irritating to the skin- 24 hours (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eye Rabbit Result: No eye irritation (OECD Test Guideline 405)

#### Respiratory or skin sensitisation

The maximum reaction test - guinea pigs did not cause allergic reactions to the test animals. (OECD Testing Guidelines 406)

#### Germ cell mutagenicity

Testing system: Salmonella typhimurium Metabolic activation: with or without metabolic activation effect Result: Negative

#### 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**

Repeated toxicity - rats - male and female - oral - no harmful effects observed -100 mg/kg

Registration of toxic effects of chemical substances: SK8265000

To our knowledge, this chemical, physical, and toxic property has not been fully studied.

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**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish LC50- Pimephales promelas -1.4 mg/l -96 hours

(OECD Testing Guidelines 203)

Toxicity to Daphnia magna and other aquatic Invertebrate

Activity inhibition EC50- Daphnia magna -0.45 mg/l -48 hours

Toxicity static test on algae EC50- Scenedesmus capricornutum (freshwater algae) -3.6 mg/l -72 hours

Toxic respiratory inhibition of bacteria EC50- sludge treatment ->1000 mg/l -3 hours

(OECD Testing Guidelines 209)

**12.2 Persistence and degradability**

Aerobic - Exposure time 28 days Result: 5% - not easily biodegradable. (OECD Test Guide 301B)

**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**

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: 3077

Packing group: III

Class: 9

Proper shipping name: Solid substances harmful to the environment, not otherwise specified (2,6-bis (1,1-dimethylethyl) phenol)

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: yes

**IMDG**

UN number: 3077

Packing group: III

EMS-No: no data available

Proper shipping name: Solid substances harmful to the environment, not otherwise specified (2,6-bis (1,1-dimethylethyl) phenol)

**IATA**

UN number: 3077

Packing group: III

Class: 9

Proper shipping name: Solid substances harmful to the environment, not otherwise specified (2,6-bis (1,1-dimethylethyl) phenol)

**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

Email: QualityAssurance@aladdinsci.com

**Creation Date**

27-Jul-2023

**Revision Date**

13-Sep-2025

**Print Date**

19-Sep-2025

**Revision Summary**

SDS sections updated v1

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