

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-14

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

### 1.1 Product identifiers

Product name : 4-Hydroxy-2,2,6,6-tetramethylpiperidine

Product Number : H156928
Brand : aladdin
CAS-No. : 2403-88-5

# 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)

Acute toxicity, oral (category 5), H303

Acute toxicity, transdermal (Category 5), H313

Skin corrosion/irritation (category 1B), H314

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

Skin allergy (category 1), H317

# 2.2 GHS Label elements, including precautionary statements

**Pictogram** 



Signal word

Danger

Hazard statement(s)



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H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H303+H313 May be harmful if swallowed or in contact with skin

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
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.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see ... on this label).

P330 Rinse mouth.

P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

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.

P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact

lenses if present and easy to do. Continue rinsing.

P317 Get emergency medical help.

P302+P361+P354 IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse

with water for several minutes.

P316 Get emergency medical help immediately.

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

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Synonyms : 2,2,6,6-Tetramethyl-4-piperidinol; 4-Hydroxy-2,2,6,6-

tetramethylpiperidine

Formula : C9H19NO

Molecular weight : 157.26

CAS No. : 2403-88-5

EC-NO. : no data available

Component Classification Concentration



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Component	Classification	Concentration
4-Hydroxy-2,2,6,6- tetramethylpiperidine		
	no data available	≥98%(GC)

### **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

# **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

Carbon oxides Nitrogen oxides Flammable When caught on fire, it may cause the production of hazardous gases or vapors

# 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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#### 5.4 Further information

no data available

### **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.

### **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

### 7.3 Specific end use(s)

no data available

# SECTION 8: Exposure controls/personal protection



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# 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

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: Powder, Crystals and/or Chunk color: white to pale yellow

b) Odour no data available c) Odour Threshold no data available d) pH no data available

e) Melting point/freezing point 132°C
f) Initial boiling point and boiling range 212-215 °C
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

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I) 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 g) Decomposition temperature no data available no data available r) Viscosity s) Explosive properties N no data available no data available t) Oxidizing properties N

# 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

Possible violent reactions may occur with it: Strong oxidizing agent Anhydride Halogenated acid acid

### 10.4 Conditions to avoid

no data available

# 10.5 Incompatible materials

light metal

### 10.6 Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - Rat -2413 mg/kg

(OECD Testing Guideline 401)

Inhalation: No data available

LD50 transdermal rat -> 2000 mg/kg

(OECD Testing Guideline 402)

### Skin corrosion/irritation

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Skin - Rabbit Result: Severe skin irritation (OECD Testing Guideline 404)

Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitisation

Maximum Response Test - Guinea Pig Result: Causing allergies. Contact with the skin can cause allergies. (OECD

Testing Guideline 406)

#### Germ cell mutagenicity

Test type: Ames test Testing System: Salmonella Typhimurium 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**

Heartfelt: cough, wheezing, pharyngitis, shortness of breath, spasms, inflammation, sore throat, spasms, inflammation, bronchitis, pneumonia, pulmonary edema, this substance

The damage to mucosal tissue, upper respiratory tract, eyes, and skin is enormous., To our knowledge, the chemical, physical, and toxic properties of this substance have not been fully studied.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Static toxicity test on fish LC50- Danio rerio (zebrafish) -> 1000 mg/l -96 h

(Directive 67/548/EEC, Appendix V,  $C1_{\circ}$ )

Toxicity to Daphnia magna and other aquatic invertebrates EC50- Daphnia magna -560 mg/l -24 hours

(Directive 67/548/EEC, Appendix V, C2, )

Toxic growth inhibition of algae EC50- Desmodesmus subspicatus (green algae) -158 mg/l -72 h

(Directive 67/548/EEC, Appendix V, C3.)

Growth inhibition NOEC - Desmodesmus subspicatus (green algae) -  $10 \, \text{mg/l}$  -  $72 \, \text{h}$ 

(Directive 67/548/EEC, Appendix V, C3.)

# 12.2 Persistence and degradability

Aerobic - exposure time 28 days Result: 3% - Not easily biodegradable. (Improved Sturm Test (Rapid Biodegradability Test))

# 12.3 Bioaccumulative potential

no data available



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### 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

### **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: 3259 Packing group: III Class: 8

Proper shipping name: Solid amine, Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

corrosive, unspecified (2,2,6,6- available available

tetramethyl-4-piperidinol)

Environmental Hazards: no

**IMDG** 

UN number: 3259 Packing group: III EMS-No: no data available

Proper shipping name: Solid amine, corrosive, unspecified (2,2,6,6-tetramethyl-4-piperidinol)

IATA

UN number: 3259 Packing group: III Class: 8
Proper shipping name: Solid amine, corrosive, unspecified (2,2,6,6-tetramethyl-4-piperidinol)

# **SECTION 15: Regulatory information**

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

### **SECTION 16: Other information**



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Prepared By Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com

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