

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-15

Print Date: 2025-09-21

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

### 1.1 Product identifiers

Product name : Cyclopentanone  
Product Number : C108569  
Brand : aladdin  
CAS-No. : 120-92-3

### 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

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

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

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

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|                                   |                                                                                                                                  |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| H226                              | Flammable liquid and vapor                                                                                                       |
| H315                              | Causes skin irritation                                                                                                           |
| H319                              | Causes serious eye irritation                                                                                                    |
| <b>Precautionary statement(s)</b> |                                                                                                                                  |
| 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.                                                                            |
| P264                              | Wash hands [and ...] thoroughly after handling.                                                                                  |
| 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].                         |
| 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.                                                                         |
| P370+P378                         | In case of fire: Use ... to extinguish.                                                                                          |
| P403+P235                         | Store in a well-ventilated place. Keep cool.                                                                                     |
| 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.                                                                                     |

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                                     |
|------------------|-----------------------------------------------------|
| Synonyms         | : Adipic Ketone Ketocyclopentane Ketopentamethylene |
| Formula          | : C5H8O                                             |
| Molecular weight | : 84.12                                             |
| CAS No.          | : 120-92-3                                          |
| EC-NO.           | : 204-435-9                                         |

| Component      | Classification                                              | Concentration       |
|----------------|-------------------------------------------------------------|---------------------|
| Cyclopentanone | Flam. Liq. 3; Skin Irrit. 2; Eye Irrit. 2; H226, H315, H319 | analytical standard |

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## 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. 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

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

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

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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

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. Dry 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

Replace contaminated clothing immediately Use skin protective lotion. Wash hands and face after using this 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

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in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

Flame retardant antistatic protective clothing.

#### Respiratory protection

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

#### Control of environmental exposure

Do not let product enter drains. Risk of explosion.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|
| a) Appearance                                   | form: liquid color: Colorless to light yellow                                               |
| b) Odour                                        | no data available                                                                           |
| c) Odour Threshold                              | no data available                                                                           |
| d) pH                                           | no data available                                                                           |
| e) Melting point/freezing point                 | -51°C                                                                                       |
| f) Initial boiling point and boiling range      | 130-131 °C (lit.)                                                                           |
| g) Flash point                                  | 30 °C - closed cup                                                                          |
| 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                             | 0.951                                                                                       |
| n) Water solubility                             | It is miscible with ethanol, ether and other organic solvents and slightly soluble in water |
| 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

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**

Exothermic reaction with: Oxidizing agents polymerisation initiators Strong bases acids Risk of explosion with: Nitric acid hydrogen peroxide hydrazine and derivatives hydroxylamine

**10.4 Conditions to avoid**

Heating.

**10.5 Incompatible materials**

various plastics

**10.6 Hazardous decomposition products**

In the event of fire: see section 5

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

Oral: No data available

LC50 Inhalation - Rat - 19.500 mg/m3

Remarks: Lungs, Thorax, or Respiration:Dyspnea.

Lungs, Thorax, or Respiration:Other changes.

Liver:Other changes.

Dermal: No data available

**Skin corrosion/irritation**

Skin - Rabbit Result: Mild skin irritation

**Serious eye damage/eye irritation**

Eyes - Rabbit Result: Irritating to eyes. (OECD Test Guideline 405)

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

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**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**

RTECS: GY4725000

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 LC50 - *Leuciscus idus melanotus* - 2.950 mg/l - 48 hLC0 - *Leuciscus idus melanotus* - 2.760 mg/l - 48 h

Toxicity to daphnia

and other aquatic

invertebrates

LC50 - *Daphnia magna* (Water flea) - 1.800 mg/l - 24 h**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

**12.6 Other adverse effects**

no data available

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**SECTION 13:**

**13.1 Disposal considerations**

**Product**  
 Dispose of the remaining and non recyclable solution to a licensed company.

**Contaminated packaging**  
 no data available

**SECTION 14: Transport information**

|                                      |                                            |                                             |
|--------------------------------------|--------------------------------------------|---------------------------------------------|
| <b>DOT (US)</b>                      |                                            |                                             |
| UN number: 2245                      | Packing group: III                         | Class: 3                                    |
| Proper shipping name: CYCLOPENTANONE | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: no            |                                            |                                             |
| <b>IMDG</b>                          |                                            |                                             |
| UN number: 2245                      | Packing group: III                         | EMS-No: no data available                   |
| Proper shipping name: CYCLOPENTANONE |                                            |                                             |
| <b>IATA</b>                          |                                            |                                             |
| UN number: 2245                      | Packing group: III                         | Class: 3                                    |
| Proper shipping name: CYCLOPENTANONE |                                            |                                             |

**SECTION 15: Regulatory information**

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

**SECTION 16: Other information**

|                         |                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prepared By</b>      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
| <b>Creation Date</b>    | 20-Dec-2021                                                                                                                                         |
| <b>Revision Date</b>    | 15-Sep-2025                                                                                                                                         |
| <b>Print Date</b>       | 21-Sep-2025                                                                                                                                         |
| <b>Revision Summary</b> | SDS sections updated v1                                                                                                                             |

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