

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2026-07-09  
Print Date: 2026-07-09

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

### 1.1 Product identifiers

Product name : Azone  
Product Number : A104374  
Brand : aladdin  
CAS-No. : 59227-89-3

### 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)

Long term aquatic hazards: Category 4

### 2.2 GHS Label elements, including precautionary statements

Pictogram : no data available  
Signal word : no data available  
Hazard statement(s)  
H413 : May cause long lasting harmful effects to aquatic life  
Precautionary statement(s)

|      |                                                                    |
|------|--------------------------------------------------------------------|
| P273 | Avoid release to the environment.                                  |
| P501 | Dispose of contents/container to an approved waste disposal plant. |

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

SECTION 3: Composition/information on ingredients

3.1 Substances

|                  |                                                              |
|------------------|--------------------------------------------------------------|
| Synonyms         | : Laurocapram;1-Dodecylazepan-2-one; N-Dodecyl-ε-caprolactam |
| Formula          | : C18H35NO                                                   |
| Molecular weight | : 281.48                                                     |
| CAS No.          | : 59227-89-3                                                 |
| EC-NO.           | : 261-668-9                                                  |

| Component | Classification    | Concentration |
|-----------|-------------------|---------------|
| Azone     |                   |               |
|           | no data available | ≥97%          |

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**  
Transfer to fresh air If breathing stops, perform artificial respiration If symptoms appear, seek medical treatment.

**In case of skin contact**  
Rinse with soap and plenty of water. Consult a doctor.

**In case of eye contact**  
Wash with plenty of water.

**If swallowed**  
Do not feed anything through the mouth to unconscious patients. Clean the mouth with water.

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

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 oxide (NO<sub>x</sub>).

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing.

### 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

Ensure sufficient ventilation. Use personal protective equipment Avoid the formation of dust

### 6.2 Environmental precautions

For more ecological information, please refer to Part 12.

### 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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

no data available

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Operate in accordance with good industrial hygiene and safety practices.

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

Keep container tightly closed and in a dry, cool and well-ventilated place.

### 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

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard 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 respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance

no data available

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|                                                 |                                                                                 |
|-------------------------------------------------|---------------------------------------------------------------------------------|
| 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                             | no data available                                                               |
| n) Water solubility                             | >Solubility: Insoluble in water, soluble in ethanol, ether, acetone and benzene |
| 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

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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

Prolonged exposure to air or moisture.

## 10.5 Incompatible materials

no data available

## 10.6 Hazardous decomposition products

Carbon oxides. Nitrogen oxies (NOx).

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

no data available

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

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

no data available

#### Specific target organ toxicity - repeated exposure

no data available

#### Aspiration hazard

no data available

#### Additional Information

no data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

no data available

### 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

May cause long-term and sustained harmful effects on aquatic organisms.

## 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:no data available             | Packing group:no data available           | Class:no data available                    |
| Proper shipping name:no data available  | Reportable Quantity(RQ):no data available | Poison Inhalation Hazard:no data available |
| Environmental Hazards:no data available |                                           |                                            |

**IMDG**

|                                        |                                 |                          |
|----------------------------------------|---------------------------------|--------------------------|
| UN number:no data available            | Packing group:no data available | EMS-No:no data available |
| Proper shipping name:no data available |                                 |                          |

**IATA**

|                                        |                                 |                         |
|----------------------------------------|---------------------------------|-------------------------|
| UN number:no data available            | Packing group:no data available | Class:no data available |
| Proper shipping name:no data available |                                 |                         |



**SECTION 15: Regulatory information**

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

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**SECTION 16: Other information**

|                  |                                                                                                |
|------------------|------------------------------------------------------------------------------------------------|
| Prepared By      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: QualityAssurance@aladdinsci.com |
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| Revision Summary | SDS sections updated v1                                                                        |

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