

# 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   | : 2,5-Hexanedione |
| Product Number | : H106699         |
| Brand          | : aladdin         |
| CAS-No.        | : 110-13-4        |

### 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)

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

|      |                                                                |
|------|----------------------------------------------------------------|
| H227 | Combustible liquid                                             |
| H303 | May be harmful if swallowed                                    |
| H315 | Causes skin irritation                                         |
| H319 | Causes serious eye irritation                                  |
| H373 | Causes damage to organs through prolonged or repeated exposure |

Precautionary statement(s)

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|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P260           | Do not breathe dust/fume/gas/mist/vapors/spray.                                                                                  |
| 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.                                                                                           |
| 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.                                                                         |
| 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         | : Acetonylacetone 1,2-Diacetyethane             |
| Formula          | : C <sub>6</sub> H <sub>10</sub> O <sub>2</sub> |
| Molecular weight | : 114.14                                        |
| CAS No.          | : 110-13-4                                      |
| EC-NO.           | : 203-738-3                                     |

| Component              | Classification    | Concentration                    |
|------------------------|-------------------|----------------------------------|
| <b>2,5-Hexanedione</b> | no data available | analytical standard, ≥99.5% (GC) |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General advice**

no data available

**If inhaled**

no data available

**In case of skin contact**

no data available

**In case of eye contact**

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no data available

**If swallowed**

no data available

## 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**

Water,Foam,Carbon dioxide (CO2),Dry powder

**Unsuitable extinguishing media**

no data available

## 5.2 Special hazards arising from the substance or mixture

no data available

## 5.3 Advice for firefighters

no data available

## 5.4 Further information

no data available

# SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

no data available

## 6.2 Environmental precautions

no data available

## 6.3 Methods and materials for containment and cleaning up

no data available

## 6.4 Reference to other sections

For disposal see section 13.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

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no data available

## 7.2 Conditions for safe storage, including any incompatibilities

no data available

## 7.3 Specific end use(s)

no data available

# 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

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: clear, liquid color: colorless, yellow |
| b) Odour           | no data available                            |
| c) Odour Threshold | no data available                            |
| d) pH              | 6.1 at 10 g/l at 20 °C (68 °F)               |

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|                                                 |                                                    |
|-------------------------------------------------|----------------------------------------------------|
| e) Melting point/freezing point                 | 6 °C (43 °F) - lit.                                |
| f) Initial boiling point and boiling range      | 191 °C (376 °F) - lit.                             |
| g) Flash point                                  | 79 °C (174 °F) - 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                              | 2.60 hPa (1.95 mmHg) at 50 °C (122 °F)             |
| l) Vapour density                               | no data available                                  |
| m) Relative density                             | 0.973 g/mL at 25 °C (77 °F)                        |
| n) Water solubility                             | Easily soluble in water and most organic solvents. |
| 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

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

## 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

## 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

no data available

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SECTION 13:

13.1 Disposal considerations

**Product**  
 no data available  
**Contaminated packaging**  
 Dispose of as unused product.

SECTION 14: Transport information

|                                          |                                            |                                             |
|------------------------------------------|--------------------------------------------|---------------------------------------------|
| <b>DOT (US)</b>                          |                                            |                                             |
| 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 |                                            |                                             |
| <b>IMDG</b>                              |                                            |                                             |
| UN number: no data available             | Packing group: no data available           | EMS-No: no data available                   |
| Proper shipping name: no data available  |                                            |                                             |
| <b>IATA</b>                              |                                            |                                             |
| UN number: no data available             | Packing group: no data available           | Class: no data available                    |
| Proper shipping name: no data available  |                                            |                                             |

SECTION 15: Regulatory information

no data available

SECTION 16: Other information

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <b>Prepared By</b>      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: QualityAssurance@aladdinsci.com |
| <b>Creation Date</b>    | 10-Sep-2020                                                                                    |
| <b>Revision Date</b>    | 13-Sep-2025                                                                                    |
| <b>Print Date</b>       | 19-Sep-2025                                                                                    |
| <b>Revision Summary</b> | SDS sections updated v1                                                                        |

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