ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1
Revision Date: 2025-09-19
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## SECTION 1:Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

| | | |
|---|---|---|
| Product name | : | Potassium oxalate monohydrate |
| Product Number | : | P111570 |
| Brand | : | aladdin |
| CAS-No. | : | 6487-48-5 |

### 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 4), H302
Acute toxicity, transdermal (Class 4), H312
Severe eye injury/eye irritation (Category 2A), H319
Acute (short-term) aquatic hazard (category 3), H402

### 2.2 GHS Label elements, including precautionary statements

**Pictogram**

**Signal word** Warning

**Hazard statement(s)**

| | |
|---|---|
| H319 | Causes serious eye irritation |

| | |
|---|---|
| H402 | Harmful to aquatic life |
| H302+H312 | Harmful if swallowed or in contact with skin |
| **Precautionary statement(s)** | |
| P264 | Wash hands [and ...] thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P321 | Specific treatment (see ... on this label). |
| P330 | Rinse mouth. |
| 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. |
| P301+P317 | IF SWALLOWED: Get medical help. |
| P317 | Get emergency medical help. |
| 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

None identified

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

| | | |
|---|---|---|
| Synonyms | : | Ethanedioic acid Oxalic acid potassium salt |
| Formula | : | K2C2O4•H2O |
| Molecular weight | : | 184.23 |
| CAS No. | : | 6487-48-5 |
| EC-NO. | : | 209-506-8 |

| Component | Classification | Concentration |
|---|---|---|
| **Potassium oxalate monohydrate** | | |
| | no data available | AR, ≥99.8% |

## 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**
Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required.
**In case of skin contact**
Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.
**In case of eye contact**
RinseImmediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
**If swallowed**
Do NOT induce vomiting. Call a physician 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**
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

wear self-contained breathing and full protective gear.

### 5.4 Further information

Use water spray to cool unopened containers.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing.

### 6.2 Environmental precautions

Avoid release to the environment.See Section 12 for additional Ecological Information.

### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment. Avoid dust formation.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

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

Sensitive to light, store away from light

### 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 | no data available |
| b) Odour | no data available |
| c) Odour Threshold | no data available |
| d) pH | 7.0-8.5 at 50 g/l at 25 ° C |
| 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 | 2.127 |
| 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

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

Avoid dust formation. Excess heat. Exposure to moisture.

### 10.5 Incompatible materials

Bases, Strong oxidizing agents, Acid chlorides, Metals, Ammonia, Halogens, nitriles

### 10.6 Hazardous decomposition products

no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**
LD50 Oral - Rat - Male and Female -375 mg/kg
Remarks: (ECHA)
(Anhydrous substance)
Corresponding values have been specified for the following substance: oxalic acid
Inhalation: No data available
Acute toxicity estimate transdermal -1100.1 mg/kg
(Expert judgment)

**Skin corrosion/irritation**
Skin in vitro experimental research Result: Negative (OECD Testing Guideline 439) Note: Corresponding values have been specified for the following substances: diammonium oxalate monohydrate
**Serious eye damage/eye irritation**
Eye in vitro experimental research Result: Positive (OECD guidance - line 492) Note: Corresponding values have been specified for the following substances: diammonium oxalate monohydrate Eye in vitro experimental research Result: Non corrosive (OECD Testing Guideline 437) Note: Corresponding values have been specified for the following substances: diammonium oxalate monohydrate RESPIRATORY OR SKIN SENSITIZATION Local lymph node assay (LLNA) - Mouse Result: Negative (OECD Testing Guideline 429) Note: Corresponding values have been specified for the following substances: diammonium oxalate monohydrate
**Respiratory or skin sensitisation**
Local lymph node assay (LLNA) - Mouse Result: Negative (OECD Testing Guideline 429) Note: Corresponding values have been specified for the following substances: diammonium oxalate monohydrate
**Germ cell mutagenicity**
Test type: Ames test Testing system: Escherichia coli/Salmonella typhimurium Metabolic activation: with or without metabolic activation effect Method: OECD Testing Guideline 471 Result: Negative Note: Corresponding values have been specified for the following substances: Oxalic acid carcinogenicity 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**

## SECTION 12: Ecological information

### 12.1 Toxicity

Semi static toxicity test on water fleas and other aquatic invertebrates EC50- Daphnia magna ->33 mg/l -48 h
(OECD Testing Guidelines 202)
Note: Corresponding values have been specified for the following substances: Ammonium oxalate monohydrate.
Corresponding values have been specified for the following substances: Oxalic acid
Static toxicity test on algae ErC50- Pseudokirchneriella subcapita (green algae) ->78 mg/l -72 h
(OECD Testing Guidelines 201)
Note: Corresponding values have been specified for the following substances: Ammonium oxalate monohydrate.
Corresponding values have been specified for the following substances: Oxalic acid
Static test EC10- Pseudokirchneriella subcapita (green algae) ->78 mg/l -72 hours
(OECD Testing Guidelines 201)
Note: Corresponding values have been specified for the following substances: Ammonium oxalate monohydrate.
Corresponding values have been specified for the following substances: Oxalic acid

### 12.2 Persistence and degradability

Aerobic - exposure time 20 days Result: 89% - rapidly biodegradable. Remarks: (ECHA) Corresponding values have been specified for the following substance: oxalic acid

### 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

## SECTION 13:

### 13.1 Disposal considerations

**Product**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical

waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**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

Please note that waste disposal should also meet local regulations. If applicable, the chemical meets the requirements of the Regulations on the Safety Management of Hazardous Chemicals (adopted by the State Council on December 4, 2013).

## SECTION 16: Other information

| | |
|---|---|
| **Prepared By** | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: QualityAssurance@aladdinsci.com |
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Disclaimer

 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.