

# SAFETY DATA SHEET

Version: v1

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

### 1.1 Product identifiers

Product name : NO3--N in Water  
Product Number : N299421  
Brand : aladdin  
CAS-No. : no data available

### 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)

Reproductive toxicity (Category 2), H361

Specific target organ systemic toxicity (single exposure) (Category 1), H370

Specific target organ systemic toxicity (repeated exposure) (Category 1), H372

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H272

May intensify fire; oxidizer

H361

Suspected of damaging fertility or the unborn child

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|                                   |                                                                                                 |
|-----------------------------------|-------------------------------------------------------------------------------------------------|
| H370                              | Causes damage to organs                                                                         |
| H372                              | Causes damage to organs through prolonged or repeated exposure                                  |
| <b>Precautionary statement(s)</b> |                                                                                                 |
| P201                              | Obtain special instructions before use.                                                         |
| P210                              | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking. |
| P202                              | Do not handle until all safety precautions have been read and understood.                       |
| P220                              | Keep away from clothing and other combustible materials.                                        |
| P221                              | Take any precaution to avoid mixing with combustibles/...                                       |
| P260                              | Do not breathe dust/fume/gas/mist/vapors/spray.                                                 |
| 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.                      |
| P308+P311                         | IF exposed or concerned: Call a POISON CENTER/doctor/...                                        |
| P370+P378                         | In case of fire: Use ... to extinguish.                                                         |
| P405                              | Store locked up.                                                                                |
| 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

### 3.2 Mixtures

|                  |                     |
|------------------|---------------------|
| Synonyms         | : no data available |
| Formula          | : no data available |
| Molecular weight | : no data available |

| Component                | Classification                                                                                                                                                                                                    | Concentration |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Potassium nitrate</b> |                                                                                                                                                                                                                   |               |
| CAS-No. : 7757-79-1      | Oxidizing solids Category 3; Reproductive toxicity Category 2; Specific target organ toxicity (single exposure) Category 1; Specific target organ toxicity (repeated exposure) Category 1; H272, H361, H370, H372 |               |
| EC-No. : 231-818-8       |                                                                                                                                                                                                                   |               |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**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

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or mixture**

Nitrogen oxides (NOx) Potassium oxides Not combustible. Has a fire-promoting effect due to release of oxygen. Ambient fire may liberate hazardous vapours.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

Use water spray to cool unopened containers.

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**SECTION 6: Accidental release measures**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**6.2 Environmental precautions**

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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

Store in a cool place. Keep the container tightly closed and store in a dry and 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 EN 166(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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                                            |
|-------------------------------------------------|--------------------------------------------|
| a) Appearance                                   | form: liquid color: Colorless, transparent |
| 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                             | 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

Risk of explosion with: Cyanides Sulfides combustible substances Fluorine Potassium acetates oxidisable substances phosphides Organic Substances Peroxides Aluminum antimony charcoal Titanium Zinc Powdered metals arsenic Boron Germanium nitrides magnesium sodium thiosulphate phosphorus strong reducing agents sulfur sugars  
Generates dangerous gases or fumes in contact with: Acids Possible formation of: nitrogen dioxide Risk of ignition or formation of inflammable gases or vapours with: calcium silicide

## 10.4 Conditions to avoid

no data available

## 10.5 Incompatible materials

no data available

## 10.6 Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 425)

LC50 Inhalation - Rat - male and female - 4 h - > 0,527 mg/l - dust/mist

(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 5.000 mg/kg I

(OECD Test Guideline 402)

#### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)

#### Respiratory or skin sensitisation

Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)

#### Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster fibroblasts  
Metabolic activation: without metabolic activation Result: negative Remarks: (ECHA) Test Type: In vitro mammalian  
cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic  
activation Method: OECD Test Guideline 476 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

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no data available

**Additional Information**

Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) - &gt; 1.500 mg/kg

RTECS: TT3700000

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. After absorption of large quantities: Methaemoglobinaemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, and spasms, key symptom: cyanosis (blue colouration of the blood). Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 12: Ecological information****12.1 Toxicity****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**

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.

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### SECTION 14: Transport information

|                                         |                                            |                                             |
|-----------------------------------------|--------------------------------------------|---------------------------------------------|
| <b>DOT (US)</b>                         |                                            |                                             |
| UN number: 1486                         | Packing group: III                         | Class: 5.1                                  |
| Proper shipping name: POTASSIUM NITRATE | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: no               |                                            |                                             |
| <b>IMDG</b>                             |                                            |                                             |
| UN number: 1486                         | Packing group: III                         | EMS-No: no data available                   |
| Proper shipping name: POTASSIUM NITRATE |                                            |                                             |
| <b>IATA</b>                             |                                            |                                             |
| UN number: 1486                         | Packing group: III                         | Class: 5.1                                  |
| Proper shipping name: POTASSIUM NITRATE |                                            |                                             |

### 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> |
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| <b>Print Date</b>       | 11-Sep-2025                                                                                                                                         |
| <b>Revision Summary</b> | SDS sections updated v1                                                                                                                             |

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