

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-15

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

### 1.1 Product identifiers

Product name : Neodymium nitrate hexahydrate  
Product Number : N106057  
Brand : aladdin  
CAS-No. : 16454-60-7

### 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)

Oxidizing solids (Category 3), H272

Acute toxicity, Oral (Category 5), H303

Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), respiratory tract irritation, H335

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word	Warning
<b>Hazard statement(s)</b>	
H272	May intensify fire; oxidizer
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
<b>Precautionary statement(s)</b>	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P220	Keep away from clothing and other combustible materials.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and ...] thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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	: Neodymium(III) nitrate hexahydrate; Neodymium nitrate hexahydrate
Formula	: NdN3O9·6H2O
Molecular weight	: 438.35
CAS No.	: 16454-60-7
EC-NO.	: no data available

Component	Classification	Concentration
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Component	Classification	Concentration
<b>Neodymium nitrate hexahydrate</b>		
	Oxidizing solids Category 3; Acute toxicity Category 5; Skin irritation Category 2; Eye irritation Category 2A; Specific target organ toxicity - single exposure Category 3; H272, H303, H315, H319, H335	AR, ≥99%

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a doctor. Present this safety technical manual to the on-site doctor.

#### If inhaled

If inhaled, please move the patient to fresh air. If breathing stops, perform artificial respiration. Consult a doctor.

#### In case of skin contact

Rinse with soap and plenty of water. Consult a doctor.

#### In case of eye contact

Thoroughly rinse with plenty of water for at least 15 minutes and consult a doctor.

#### If swallowed

Do not feed anything to unconscious individuals. Rinse your mouth with water. Consult a doctor.

### 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 water mist, alcohol resistant foam, dry powder or carbon dioxide to extinguish the fire.

#### 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

Spray water 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 generation. Avoid inhaling vapors, aerosols, or gases. Ensure adequate ventilation. Evacuate personnel to a safe area. Avoid inhaling dust.

### 6.2 Environmental precautions

Do not let the product enter the sewer.

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

Sweep and shovel away. Contain the overflow, collect it with an anti electric vacuum cleaner or wet brush, and place it in a container for disposal according to local regulations (see Part 13). Place in a suitable closed container for processing.

### 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

Avoid contact with skin and eyes. Avoid the formation of dust and aerosols. Provide suitable exhaust equipment in areas where dust is generated. Do not approach sources of fire Smoking is strictly prohibited. Stay away from heat and ignition sources.

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

Store in a cool place. Keep the container sealed and store in a dry and ventilated place. Hygroscopic , 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

Operate according to industrial hygiene and safety regulations. Wash hands before rest and at the end of work.

#### Personal protective equipment

##### Eye/face protection

Masks and safety glasses, please use equipment that has been tested and approved by official standards such as

NIOSH (USA) or EN 166 (EU) to protect the eyes.

#### Skin protection

Gloves must be checked before use. Please use the correct method to remove the gloves (do not touch the outer surface of the gloves) and avoid any skin contact with the product. After use, please handle contaminated gloves carefully in accordance with relevant laws, regulations, and effective laboratory procedures and procedures.

Please clean and blow dry the protective gloves selected for your hands, which must comply with the specifications given in Regulation (EU) 2016/425 and the derived EN 374 standard.

#### Body Protection

Anti permeation clothing, flame retardant and anti-static protective clothing, and the type of protective equipment must be selected based on the concentration and content of hazardous substances in specific workplaces.

#### Respiratory protection

If the hazard assessment shows the need to use a gas mask with air purification, please use a full face multi-functional gas mask (US) or ABEK type (EN 14387) gas mask cartridge as a backup for engineering control. If a gas mask is the only way to protect, use a full face ventilation gas mask. The use of respirators and parts that have been tested and passed government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

no data available

## 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	no data available
e) Melting point/freezing point	40°C
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

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## 9.2 Other safety information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

strong reducing agent or reductant, strong acid

### 10.5 Incompatible materials

In case of fire, it will decompose into harmful substances- Rubidium oxide

### 10.6 Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

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

Inhalation - may cause respiratory irritation.

Specific target organ toxicity - single exposure

no data available

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**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

## 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

## SECTION 13:

### 13.1 Disposal considerations

**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubbing equipment, especially during ignition, as this substance is highly flammable. Hand over the retaining and non recyclable solutions to a licensed company for processing

**Contaminated packaging**

Discard as unused product.

## SECTION 14: Transport information

**DOT (US)**

UN number: 1465

Proper shipping name: Didymium  
nitrate

Packing group: III

Reportable Quantity(RQ): no data  
available

Class: 5.1

Poison Inhalation Hazard: no data  
available

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Environmental Hazards: no

**IMDG**

UN number: 1465	Packing group: III	EMS-No: no data available
Proper shipping name: Didymium nitrate		

**IATA**

UN number: 1465	Packing group: III	Class: 5.1
Proper shipping name: Didymium 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 ALADDIN SCIENTIFIC CORPORATION Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a>
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