

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-23

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

### 1.1 Product identifiers

|                |                         |
|----------------|-------------------------|
| Product name   | : Praseodymium Standard |
| Product Number | : P106105               |
| Brand          | : aladdin               |
| CAS-No.        | : 7440-10-0             |

### 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,<br>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

Danger

Hazard statement(s)

|      |                                                        |
|------|--------------------------------------------------------|
| H228 | Flammable solid                                        |
| H250 | Catches fire spontaneously if exposed to air           |
| H251 | Self-heating; may catch fire                           |
| H315 | Causes skin irritation                                 |
| H319 | Causes serious eye irritation                          |
| H413 | May cause long lasting harmful effects to aquatic life |

**Precautionary statement(s)**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P210           | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.                                  |
| P222           | Do not allow contact with air.                                                                                                   |
| P231           | Handle under inert gas.                                                                                                          |
| P233           | Keep container tightly closed.                                                                                                   |
| P235           | Keep cool.                                                                                                                       |
| P240           | Ground/bond container and receiving equipment.                                                                                   |
| P241           | Use explosion-proof [electrical/ventilating/lighting/.../] equipment.                                                            |
| P264           | Wash hands [and ...] thoroughly after handling.                                                                                  |
| P273           | Avoid release to the environment.                                                                                                |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P321           | Specific treatment (see ... on this label).                                                                                      |
| P302+P335+P334 | Brush off loose particles from skin. Immerse in cool water [or wrap in wet bandages].                                            |
| 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.                                                                         |
| P370+P378      | In case of fire: Use ... to extinguish.                                                                                          |
| P407           | Maintain air gap between stacks or pallets.                                                                                      |
| P410           | Protect from sunlight.                                                                                                           |
| P413           | Store bulk masses greater than ... kg/...lbs at temperatures not exceeding ... °C/...°F.                                         |
| P420           | Store separately.                                                                                                                |
| 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.                                                                                     |

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS****SECTION 3: Composition/information on ingredients****3.1 Substances**

|                  |                      |
|------------------|----------------------|
| Synonyms         | : Praseodymium Metal |
| Formula          | : Pr                 |
| Molecular weight | : 140.91             |
| CAS No.          | : 7440-10-0          |
| EC-NO.           | : 231-120-3          |

| Component                    | Classification | Concentration |
|------------------------------|----------------|---------------|
| <b>Praseodymium Standard</b> |                |               |

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| Component | Classification    | Concentration               |
|-----------|-------------------|-----------------------------|
|           | no data available | ≥99.9% metals basis, Powder |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

#### 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

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

#### Unsuitable extinguishing media

no data available

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

Hazardous decomposition products formed under fire conditions.- praseodymium oxides

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary

### 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

Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

## 6.4 Reference to other sections

no data available

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking.

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

Keep container tightly closed in a dry and well-ventilated place. Air and moisture sensitive. Keep in a dry 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 gloves 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. Protective gloves against

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thermal risks

### Body Protection

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 full-face 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

no data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                                         |
|-------------------------------------------------|-----------------------------------------|
| a) Appearance                                   | form: powder color: dark gray           |
| b) Odour                                        | no data available                       |
| c) Odour Threshold                              | no data available                       |
| d) pH                                           | no data available                       |
| e) Melting point/freezing point                 | 931°C                                   |
| f) Initial boiling point and boiling range      | 3520°C                                  |
| 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                             | 6.71 g/cm <sup>3</sup> at 25 °C (77 °F) |
| 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

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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

Strong acids, Strong oxidizing agents, Halogens

## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- praseodymium oxides

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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 component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

### 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

May be harmful if inhaled. May cause respiratory tract irritation

### 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**  
no data available

**SECTION 13:**

- 13.1 Disposal considerations**
  - Product**  
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.Offer surplus and non-recyclable solutions to a licensed disposal company.Contact a licensed professional waste disposal service to dispose of this material
  - 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: UN number: 3208 Class: 4.3 Packing group: I Proper shipping name: Metallic substance, water-reactive, n.o.s.(Praseodymium) | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Marine Pollutant: No Poison Inhalation Hazard: No                                                                                                |                                            |                                             |
| Environmental Hazards: no data available                                                                                                         |                                            |                                             |
| <b>IMDG</b>                                                                                                                                      |                                            |                                             |
| UN number: no data available                                                                                                                     | Packing group: no data available           | EMS-No: no data available                   |

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Proper shipping name: UN number: 3208 Class: 4.3 Packing group: I Proper shipping name: Metallic substance, water-reactive, n.o.s.(Praseodymium) Marine Pollutant: No Poison Inhalation Hazard: No

**IATA**

UN number: no data available      Packing group: no data available      Class: no data available  
 Proper shipping name: UN number: 3208 Class: 4.3 Packing group: I Proper shipping name: Metallic substance, water-reactive, n.o.s.(Praseodymium) Marine Pollutant: No Poison Inhalation Hazard: No

**SECTION 15: Regulatory information**

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

**SECTION 16: Other information**

|                  |                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Prepared By      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
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