

## **MATERIAL SAFETY DATA SHEET**

### **PRASEODYMIUM OXIDE 99.9% AR MSDS CAS: 12037-29-5**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name:** PRASEODYMIUM OXIDE 99.9% AR

**CAS#:** 12037-29-5

**Synonym:** Praseodymium(III, IV) Oxide, 99.999%

**Chemical Name:** Not available.

**Chemical Formula:** Pr<sub>6</sub>O<sub>11</sub>

**Brand:** OXFORD

##### **Details Of The Supplier Of The Safety Data Sheet :**

**Company identification:** OXFORD LAB FINE CHEM LLP  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
Mumbai, Maharashtra, INDIA.  
Tel: 91-250-2390989  
Tel/Fax: 91-250-2390032

#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

Name	CAS #	% by Weight
Praseodymium Oxide AR	12037-29-5	100

#### **Section 3: Hazards Identification**

**Risk advice to man and the environment:** Irritating to eyes, respiratory system and skin.

## Section 4: First Aid Measures

**General advice:** Consult a physician. Show this 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:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:**

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

## Section 5: Fire and Explosion Data

**Suitable extinguishing media:**

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

**Special protective equipment for fire-fighters:**

Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6: Accidental Release Measures

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions:** Do not let product enter drains.

**Methods for cleaning up:**

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

## Section 7: Handling and Storage

**Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

## Section 7: Handling and Storage (Continued)

**Storage:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Air sensitive. hygroscopic Handle and store under inert gas.

## Section 8: Exposure Controls/Personal Protection

### Personal protective equipment

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

**Eye protection:** Safety glasses.

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9: Physical and Chemical Properties

Appearance Form	: Solid
Colour	: Black powder
Molecular Weight	: 1021.44 g/mole
pH	: No data available
Melting point	: 2200 °C
Boiling point	: No data available
Flash point	: No data available
Ignition temperature	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Density	: 6.5 g/cm <sup>3</sup> at 25 °C
Water solubility	: No data available

## Section 10: Stability and Reactivity Data

**Storage stability:** Stable under recommended storage conditions.

**Conditions to avoid:** Exposure to moisture.

**Materials to avoid:** Strong oxidizing agents, Carbon dioxide (CO<sub>2</sub>)

**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NO<sub>x</sub>), praseodymium oxides

## Section 11: Toxicological Information

**Acute toxicity:** LD50 Oral - rat - > 5.000 mg/kg

**Irritation and corrosion:** No data available

**Sensitisation:** No data available

### **Chronic exposure**

**IARC:** 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.

Genotoxicity in vivo - mouse - Intraperitoneal

Cytogenetic analysis

### **Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

## Section 12: Ecological Information

**Elimination information (persistence and degradability):** No data available

**Ecotoxicity effects:** No data available

**Further information on ecology:** No data available

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Maharashtra, INDIA.

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**Email:** sales@oxfordlabchem.com /  
info@oxfordlabchem.com  
**Web:** www.oxfordlabchem.com

## Section 13: Disposal Considerations

**Product:** Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging:** Dispose of as unused product.

## Section 14: Transport Information

### Land transport (ADR-RID)

**General information:** Not regulated.

### Sea transport (IMDG) [English only]

**General information:** Not regulated.

### Air transport (ICAO-IATA) [English only]

**General information:** Not regulated.

## Section 15: Other Regulatory Information

### Labelling according to EC Directives

**Hazard symbols:** Xi Irritant

### R-phrases(s):

R36/37/38 Irritating to eyes, respiratory system and skin.

### S-phrases(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 Wear suitable gloves and eye/face protection.

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## **Section 16 - Additional Information**

**References:** Not available.

**Other Special Considerations:** Not available.

### ***Disclaimer:***

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