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**MATERIAL SAFETY DATA SHEET (MSDS)****PRASEODYMIUM OXIDE AR****1 - Chemical Product**

MSDS Name:Praseodymium(iii iv) oxide Synonym:

Cas no:12037-29-5

Product Coad: P0171600025

Molecular Formula: O11Pr6

Molecular Weight: 1021.44

**2 - COMPOSITION, INFORMATION ON INGREDIENTS**

CAS#	Chemical Name	content	EINECS#
12037-29-5	Praseodymium oxide	99.9	234-857-9

**3 - HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Hygroscopic (absorbs moisture from the air).The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye:Dust may cause mechanical irritation.

Skin:May cause skin irritation.

Ingestion:May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation:Inhalation of dust may cause respiratory tract irritation.

Chronic:Repeated inhalation may cause chronic bronchitis.

**4 - FIRST AID MEASURES**

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

**5 - FIRE FIGHTING MEASURES****General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is noncombustible.

**Extinguishing Media:**

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**6 - ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

**7 - HANDLING and STORAGE**

Handling:Wash thoroughly after handling. Use with adequate ventilation.

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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**MATERIAL SAFETY DATA SHEET (MSDS)****PRASEODYMIUM OXIDE AR****8 - EXPOSURE CONTROLS, PERSONAL PROTECTION****Engineering Controls:**

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 12037-29-5: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:Wear appropriate protective gloves to prevent skin exposure.

Clothing:Wear appropriate protective clothing to prevent skin exposure.

Respirators:Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Powder

Color: dark brown-black

Odor: odorless

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 2200 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density:

**10 - STABILITY AND REACTIVITY**

Chemical Stability:Stable under normal temperatures and pressures. Substance readily absorbs carbon dioxide from air.

Conditions to Avoid:Incompatible materials, dust generation, moisture.

Incompatibilities with Other Materials:Strong oxidizing agents - moisture.

Hazardous Decomposition Products:Not known.

Hazardous Polymerization: Has not been reported

**11 - TOXICOLOGICAL INFORMATION**

RTECS#:

CAS# 12037-29-5: TU1480000 LD50/LC50:

CAS# 12037-29-5: Oral, rat: LD50 = >5 gm/kg.

Carcinogenicity:

Praseodymium oxide - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

**12 - ECOLOGICAL INFORMATION****13 - DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

**14 - TRANSPORT INFORMATION**

Not regulated

**15 - REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

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**MATERIAL SAFETY DATA SHEET (MSDS)****PRASEODYMIUM OXIDE AR****Safety Phrases:**

S 24/25 Avoid contact with skin and eyes.  
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S 37/39 Wear suitable gloves and eye/face protection.  
WGK (Water Danger/Protection)  
CAS# 12037-29-5: No information available.  
Canada  
CAS# 12037-29-5 is listed on Canada's DSL List.  
CAS# 12037-29-5 is not listed on Canada's Ingredient Disclosure List.  
US FEDERAL  
TSCA  
CAS# 12037-29-5 is listed on the TSCA inventory.

**16: Other Information**

**References:** Laboratory Reagent

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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