



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Praseodymium, powder**

PRODUCT NUMBER: 2953

CAS NUMBER: 7440-10-0

### MANUFACTURER:

Prochem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

|      |                                                                                |
|------|--------------------------------------------------------------------------------|
| H228 | Flammable solid.                                                               |
| H260 | In contact with water releases flammable gases which may ignite spontaneously. |

### Precautionary Phrases

|           |                                                                                       |
|-----------|---------------------------------------------------------------------------------------|
| P210      | Keep away from heat/sparks/open flames/hot surfaces.-No smoking.                      |
| P231+P232 | Handle under inert gas. Protect from moisture.                                        |
| P241      | Use explosion-proof electrical/ventilating/lighting equipment.                        |
| P370+P378 | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. |
| P402+P404 | Store in a dry place. Store in a closed container.                                    |

### HMIS CLASSIFICATION:

Health: 1 Fire: 3 Reactivity Hazard: 2

### NFPA RATING:

Health: 1 Flammability: 3 Reactivity Hazard: 2

**EYE CONTACT:** May cause slight to mild irritation of the eyes.

**SKIN CONTACT:** May cause slight to mild irritation of the skin.

**INHALATION:** Inhalation may be irritating to the nasal cavity, mucous membranes, and respiratory tract.

**INGESTION:** May be harmful if swallowed.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Pr

Molecular Weight: 140.90

| CHEMICAL NAME | CAS#      | %   |
|---------------|-----------|-----|
| Praseodymium  | 7440-10-0 | 100 |

### SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under the eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

### SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not available

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Special powder for metal fires. Do not use water.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Praseodymium oxides

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Keep unprotected persons away. Keep away from sources of ignition.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Cover powder with sodium carbonate or dolomite to reduce formation of dust. Sweep up and dispose accordingly.

### SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Ensure adequate ventilation. Handle under dry protective gas. Protect against electrostatic charges.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store away from air, moisture, water, acids, oxidizing agents, halogens, and acid chlorides. Store under dry inert gas. Air and moisture sensitive.

### SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Contains no substances with occupational exposure limit values.

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Grey to silver powder

**ODOR:** None

**MOLECULAR WEIGHT:** 140.90

**BOILING POINT:** 3020°C

**MELTING POINT:** 935°C

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

**SPECIFIC GRAVITY:** 6.77gm/ml

**SOLUBILITY:** Reacts with water

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Contact with hot water. Mixtures of fine dust and air.

**INCOMPATIBILITY:** Water, alcohols, oxidizers, oxygen, halogens, halocarbons, and mineral acids.

**DECOMPOSITION PRODUCTS:** Praseodymium oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Not available

**CARCINOGENIC EFFECTS:** No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

**MUTAGENIC EFFECTS:** Not available

**TETRATOGENIC EFFECTS:** Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

No data available.

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

**DOT:** UN3089

Metal powders, flammable, n.o.s.

(Praseodymium)

CLASS 4.1

PGII

**IATA:** UN3089

Metal powder, flammable, n.o.s.

(Praseodymium)

CLASS 4.1

PGII

Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory

**SARA 302/304:** Not Listed

**SARA 311/312:** Reactivity Hazard

**SARA (TITLE 313):** Not Listed

**CALIFORNIA PROP. 65:** Not Listed

## SECTION 16 OTHER INFORMATION

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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