

Revision Date 03-May-2012

Revision Number 2

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product Identifier

Product Description:

Praseodymium(III)-nitrate pentahydrate

Cat No.

194590000; 194590500

Synonyms

None.

### Relevant identified uses of the substance or mixture and uses advised against

Recommended Use

Laboratory chemicals

Uses advised against

No Information available

### Details of the supplier of the safety data sheet

#### Company

Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

E-mail address

begel.sdsdesk@thermofisher.com

### Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300

CHEMTREC Phone Number, Europe: 001-703-527-3887

## SECTION 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Oxidizing solids.

Category 2

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

Symbol(s)

O - Oxidizing

R-phrases(s)

R 8 - Contact with combustible material may cause fire

### Label Elements

Praseodymium(III)-nitrate pentahydrate

Revision Date 03-May-2012

## SECTION 2. HAZARDS IDENTIFICATION



**Signal Word**

**Danger**

**Hazard Statements**

H272 - May intensify fire; oxidizer

**Precautionary Statements - EU (§28, 1272/2008)**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

**Other Hazards**

No information available.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component                                          | EC-No. | Weight % | CAS-No     | 67/548/EEC Classification | CLP Classification - Regulation (EC) No 1272/2008 | REACH No. |
|----------------------------------------------------|--------|----------|------------|---------------------------|---------------------------------------------------|-----------|
| Praseodymium trinitrate pentahydrate<br>14483-17-1 |        | 99.9     | 14483-17-1 | O; R8;                    | Ox. Sol. 2 (H272)                                 | -         |

**For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16**

## SECTION 4. FIRST AID MEASURES

**Description of first aid measures**

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

**Ingestion**

Clean mouth with water. Get medical attention.

**Inhalation**

Remove from exposure, lie down. Move to fresh air. Obtain medical attention.

**Notes to Physician**

Treat symptomatically

Praseodymium(III)-nitrate pentahydrate

Revision Date 03-May-2012

**SECTION 5. FIRE-FIGHTING MEASURES****Extinguishing media****Suitable Extinguishing Media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. chemical foam.

**Extinguishing media which must not be used for safety reasons**

No information available.

**Special hazards arising from the substance or mixture**

Oxidizer: Contact with combustible/organic material may cause fire.

**Advice for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

**Environmental precautions**

Prevent further leakage or spillage if safe to do so

**Methods and material for containment and cleaning up**

Sweep up or vacuum up spillage and collect in suitable container for disposal.

**SECTION 7. HANDLING AND STORAGE****Precautions for Safe Handling**

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation.

**Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

**Specific End Uses****SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

## Praseodymium(III)-nitrate pentahydrate

Revision Date 03-May-2012

|                                                 |                                                                                                                                                                                                                                                  |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure limits</b>                          | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.                                                                                      |
| <b>Biological limit values</b>                  | This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.                                                                                                 |
| <b>Derived No Effect Level (DNEL)</b>           | No information available.                                                                                                                                                                                                                        |
| <b>Predicted No Effect Concentration (PNEC)</b> | No information available.                                                                                                                                                                                                                        |
| <b><u>Exposure controls</u></b>                 |                                                                                                                                                                                                                                                  |
| <b>Engineering Measures</b>                     | Ensure adequate ventilation, especially in confined areas                                                                                                                                                                                        |
| <b>Personal protective equipment</b>            |                                                                                                                                                                                                                                                  |
| <b>Eye Protection</b>                           | Goggles                                                                                                                                                                                                                                          |
| <b>Hand Protection</b>                          | Protective gloves                                                                                                                                                                                                                                |
| <b>Skin and body protection</b>                 | Wear appropriate protective gloves and clothing to prevent skin exposure                                                                                                                                                                         |
| <b>Respiratory Protection</b>                   | 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 |
| <b>Hygiene Measures</b>                         | Handle in accordance with good industrial hygiene and safety practice                                                                                                                                                                            |
| <b>Environmental exposure controls</b>          | No information available.                                                                                                                                                                                                                        |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Physical State</b>           | Powder, Solid             |
| <b>Appearance</b>               | Green                     |
| <b>pH</b>                       | No information available. |
| <b>Vapor Density</b>            | 14.4                      |
| <b>Boiling Point/Range</b>      | No information available. |
| <b>Melting Point/Range</b>      | No information available. |
| <b>Flash Point</b>              | No information available. |
| <b>Autoignition Temperature</b> | No information available. |
| <b>Molecular Formula</b>        | N3 O9 Pr . 5 H2 O         |
| <b>Molecular Weight</b>         | 417                       |

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

### Chemical Stability

Stable under normal conditions

### Possibility of Hazardous Reactions

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Hazardous Polymerization</b> | No information available. |
| <b>Hazardous Reactions .</b>    | No information available. |

Praseodymium(III)-nitrate pentahydrate

Revision Date 03-May-2012

**Conditions to Avoid**

Incompatible products, Exposure to moist air or water, Combustible material.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**Nitrogen oxides (NO<sub>x</sub>).**SECTION 11. TOXICOLOGICAL INFORMATION****Information on Toxicological Effects****Acute Toxicity****Product Information**

No acute toxicity information is available for this product

**Component Information****Chronic Toxicity****Carcinogenicity**

There are no known carcinogenic chemicals in this product

**Sensitization****Mutagenic Effects****Reproductive Effects****Developmental Effects****Target Organs****Endocrine Disruptor Information**

No information available.

No information available.

No information available.

No information available.

No information available.

None known

**SECTION 12. ECOLOGICAL INFORMATION****Toxicity****Ecotoxicity effects**

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

**Persistence and degradability**

No information available

**Bioaccumulative potential**

Praseodymium(III)-nitrate pentahydrate

Revision Date 03-May-2012

No information available.

#### Mobility in soil

No information available.

#### Results of PBT and vPvB assessment

#### Other adverse effects

No information available

## SECTION 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste from Residues / Unused Products**

Dispose of in accordance with local regulations

**Contaminated Packaging**

Empty containers should be taken to local recyclers for disposal

## SECTION 14. TRANSPORT INFORMATION

#### IMDG/IMO

|                      |                             |
|----------------------|-----------------------------|
| UN-No                | 1477                        |
| Hazard Class         | 5.1                         |
| Packing Group        | II                          |
| Proper Shipping Name | NITRATES, INORGANIC, N.O.S. |

#### ADR

|                      |                             |
|----------------------|-----------------------------|
| UN-No                | 1477                        |
| Hazard Class         | 5.1                         |
| Packing Group        | II                          |
| Proper Shipping Name | NITRATES, INORGANIC, N.O.S. |

#### IATA

|                      |                             |
|----------------------|-----------------------------|
| UN-No                | 1477                        |
| Hazard Class         | 5.1                         |
| Packing Group        | II                          |
| Proper Shipping Name | NITRATES, INORGANIC, N.O.S. |

## SECTION 15. REGULATORY INFORMATION

Praseodymium(III)-nitrate pentahydrate

Revision Date 03-May-2012

## SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

### International Inventories

| Component                            | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | CHINA | AICS | KECL |
|--------------------------------------|--------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Praseodymium trinitrate pentahydrate | -      | -      |     | -    | -   | -    | -     | -    | X     | -    | -    |

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**AICS** - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

### Chemical Safety Assessment

## SECTION 16. OTHER INFORMATION

### Full text of R-phrases referred to under sections 2 and 3

R 8 - Contact with combustible material may cause fire

Revision Date 03-May-2012

Revision Summary

Reason for revision Not applicable

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

### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet