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

1.1. Product identifier

Product form: Substance
Physical state: Solid
Substance name: PRASEODYMIUM ZIRCONIUM SILICATE
Product code: SIP6902.2
Formula: C18H54N3PrSi6
Synonyms: PRASEODYMIUM HEXAMETHYLDISILAZIDE
PRASEODYMIUM(3+) BIS(TRIMETHYLSILYL)AMIDE
TRIS[TRIS(TRIMETHYLSILYL)AMIDO]PRASEODYMIUM
Chemical family: RARE EARTH COMPOUND

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses
Use of the substance/mixture: Chemical intermediate

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

GELEST, INC.
11 East Steel Road
Morrisville, PA 19067
USA
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST
info@gelest.com - www.gelest.com

GELEST INC.
Fritz-Klatte-Strasse 8
65933 Frankfurt
Germany
T +49 (0) 69 3535106-500 - F +49 (0) 69 3535106-501 - (M-F): 8:00 AM - 4:00 PM
info@gelestde.com - www.gelestde.com

1.4. Emergency telephone number
Emergency number: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Skin corrosion/irritation, Category 2: H315
Serious eye damage/eye irritation, Category 2: H319
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation: H335

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP):

Signal word (CLP): Warning


2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

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<tr>
<th>Substance type</th>
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<td>Mono-constituent</td>
<td>PRASEODYMIUM ZIRCONIUM SILICATE</td>
<td>35789-00-5</td>
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<th>%</th>
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<td>Praseodymium tris(hexamethyldisilazide)</td>
<td>(CAS-No.) 35789-00-5</td>
<td>95 - 100</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2, H319</td>
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</tbody>
</table>

Full text of H-statements: see section 16

3.2. Mixtures
Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact: Wash with plenty of water/…. Get medical advice/attention.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation: May cause respiratory irritation.
Symptoms/effects after skin contact: Causes skin irritation.
Symptoms/effects after eye contact: Causes serious eye irritation.
Symptoms/effects after ingestion: No information available.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use straight streams.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

5.3. Advice for firefighters

Firefighting instructions: Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Protective equipment : Wear protective equipment as described in Section 8.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling : Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Use only outdoors or in a well-ventilated area.
Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions : Keep container tightly closed. Store locked up.
Storage area : Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Exposure controls
Appropriate engineering controls:
Provide local exhaust or general room ventilation.

Personal protective equipment:
Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:
Neoprene or nitrile rubber gloves

Eye protection:
Chemical goggles. Contact lenses should not be worn

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (teal cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state : Solid
Appearance : Powder,
Molecular mass : 622.07 g/mol
**PRASEODYMIUM ZIRCONIUM SILICATE**
Safety Data Sheet

**SECTION 1**

**1.0. Identification**

- **Identification**
  - *Chemical name:* Praseodymium zirconium silicate
  - *Synonyms:* Praseodymium silicate, Praseodymium oxide

**1.1. Supppliers’ emergency telephone numbers**

No additional information available

**1.2. Hazards identification**

- **Precautionary statements**
  - *Hazard statement:* GHS07 - May cause respiratory irritation.
  - *Precautionary statement:* GHS08 - Use personal protective equipment as indicated.
  - *Precautionary statement:* GHS09 - Take precautions to prevent dust creation.

**2.0. Composition information**

- **Information on ingredients**
  - *Praseodymium oxide:* 99.5%
  - *Zirconium oxide:* 0.5%

**3.0. first aid measures**

- **Emergency procedures**
  - *Eye contact:* Rinse with water for 15 minutes.
  - *Skin contact:* Wash with soap and water.
  - *Inhalation:* Move to fresh air. If breathing difficulty, seek medical attention.
  - *Ingestion:* If swallowed, do not induce vomiting. Seek medical attention.

**4.0. Fire-fighting measures**

- **Extinguishing media**
  - *Extinguishing media:* Water, dry chemical.
  - *Special hazards:* Non-flammable.

**5.0. Spill response measures**

- **Personal protective equipment**
  - *Respiratory protection:* Face mask with HEPA filter.
  - *Eye protection:* Chemical splash goggles.
  - *Skin protection:* Rubber gloves.

**6.0. Environmental precautions**

- **Precautions for disposal**
  - *Waste disposal:* Inert material.
  - *Precautions:* None.

**7.0. Handling and storage**

- **Precautions for use**
  - *Conditions for safe storage:* Dry, well-ventilated area.

**8.0. exposure controls/Personal protective equipment**

- **Respiratory protection**
  - *Respiratory protection:* Not required.

**9.0. physical and chemical properties**

- **Physical state:** Solid.
- **pH:** No data available.
- **Refractive index:** No data available.
- **Density:** No data available.
- **Viscosity:** No data available.
- **Stability:** Stable.
- **Decomposition temperature:** No data available.
- **Melting point:** 154 - 157 °C
- **Boiling point:** No data available.
- **Auto-ignition temperature:** No data available.
- **Flash point:** No data available.
- **Vapour pressure:** < 0.0001 mm Hg @ 25°C
- **Vapour density at 20 °C:** No data available.
- **Solubility:** Reacts with water.
- **Log Pow:** No data available.
- **Log Kow:** No data available.

**10.0. stability and reactivity**

- **Stability:** Stable.
- **Reactivity:** No data available.
- **Chemical stability:** Stable.
- **Possibility of hazardous reactions:** Material decomposes slowly in contact with air by reaction with water and carbon dioxide.
- **Conditions to avoid:** No additional information available.
- **Incompatible materials:** No additional information available.
- **Hazardous decomposition products:** Hexamethyldisilazane, Organic acid vapors, Praseodymium oxide fumes.

**11.0. toxicological information**

- **Information on toxicological effects**
  - **Acute toxicity:** Not classified.
  - **Skin corrosivity/irritation:** Causes skin irritation.
  - **Serious eye damage/irritation:** Causes serious eye irritation.
  - **Respiratory or skin sensitisation:** Not classified.
  - **Germ cell mutagenicity:** Not classified.
  - **Carcinogenicity:** Not classified.
  - **STOT - single exposure:** May cause respiratory irritation.
  - **STOT - repeated exposure:** Not classified.
  - **Aspiration hazard:** Not classified.
  - **None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
Symptoms/effects after inhalation: May cause respiratory irritation.
Symptoms/effects after skin contact: Causes skin irritation.
Symptoms/effects after eye contact: Causes serious eye irritation.
Symptoms/effects after ingestion: No information available.
Reason for classification: Expert judgment

SECTION 12: Ecological information

12.1. Toxicity
Acute aquatic toxicity: Not classified
Chronic aquatic toxicity: Not classified

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
Other adverse effects: This substance may be hazardous to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Sewage disposal recommendations: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number
In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
UN-No. (ADR): Not applicable
UN-No. (IMDG): Not applicable
UN-No. (IATA): Not applicable
UN-No. (ADN): Not applicable
UN-No. (RID): Not applicable

14.2. UN proper shipping name
Proper Shipping Name (ADR): Not applicable
Proper Shipping Name (IMDG): Not applicable
Proper Shipping Name (IATA): Not applicable
Proper Shipping Name (ADN): Not applicable
Proper Shipping Name (RID): Not applicable

14.3. Transport hazard class(es)
ADR Transport hazard class(es) (ADR): Not applicable
IMDG Transport hazard class(es) (IMDG): Not applicable
IATA Transport hazard class(es) (IATA): Not applicable
ADN Transport hazard class(es) (ADN): Not applicable
PRASEODYMIUM ZIRCONIUM SILICATE
Safety Data Sheet

RID
Transport hazard class(es) (RID) : Not applicable

14.4. Packing group
Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user
- Overland transport
Not applicable
- Transport by sea
Not applicable
- Air transport
Not applicable
- Inland waterway transport
Not applicable
- Rail transport
Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
No REACH Annex XVII restrictions
PRASEODYMIUM ZIRCONIUM SILICATE is not on the REACH Candidate List
PRASEODYMIUM ZIRCONIUM SILICATE is not on the REACH Annex XIV List
PRASEODYMIUM ZIRCONIUM SILICATE is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

15.1.2. National regulations

Germany

Netherlands
SZW-list van kankerverwekkende stoffen : The substance is not listed
SZW-list van mutagene stoffen : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark
15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

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<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tr>
<td>ND</td>
<td>Not Determined, No Data</td>
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<tr>
<td>NA</td>
<td>Not Applicable</td>
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<tr>
<td>LD</td>
<td>Lethal Dose</td>
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<td>LC</td>
<td>Lethal Concentration</td>
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<td>ATE</td>
<td>Acute Toxicity Estimates</td>
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<td>H</td>
<td>hour</td>
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<td>°C</td>
<td>°C unless otherwise stated</td>
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<td>mm</td>
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<td>Hg</td>
<td>torr</td>
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<td>PEL</td>
<td>permissible exposure level</td>
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<td>TWA</td>
<td>time weighted average</td>
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<td>threshold limit value</td>
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<td>Test Guideline</td>
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<td>The Organisation for Economic Co-operation and Developing; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor</td>
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Other information: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

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<th>Code</th>
<th>Description</th>
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<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
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<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
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</table>

SDS EU (REACH Annex II) - Custom

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

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