

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name : SPE Silica
CAS No : 112926-00-8
Type of product : Pure substance
Formula : (SiO₂)_x(H₂O)_y
Synonyms : amorphous silica, precipitated / amorphous silica, precipitated and gel

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Laboratory Use
Industrial/Professional use spec : Industrial
For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Phenomenex, Inc.
411 Madrid Ave.
90501 Torrance, CA - United States
T 310-212-0555 - F 310-328-7768
info@phenomenex.com - www.phenomenex.com

1.4. Emergency telephone number

Emergency number : INFOTRAC assistance (United States): +1-800-535-5053
INFOTRAC assistance (Outside United States): +1-352-323-3500

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

According to EC directives or the corresponding national regulations there is no labeling obligation for this product.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients**3.1. Substance**

Not applicable

3.2. Mixture

Comments : This product contains no hazardous components

SECTION 4: First aid measures**4.1. Description of first aid measures**

First-aid measures general : If you feel unwell, seek medical advice. Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact : Wash with water and soap. Take victim to a doctor if irritation persists. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

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according to Regulation (EC) No. 453/2010

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| First-aid measures after eye contact | : Rinse with water. Take victim to an ophthalmologist if irritation persists. Do not apply neutralizing agents. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. |
| First-aid measures after ingestion | : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Consult a doctor/medical service if you feel unwell. Call Poison Information Centre (www.big.be/antigif.htm). Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

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

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| Symptoms/injuries | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/injuries after inhalation | : Irritation of the respiratory tract and the other mucous membranes. Cough. |
| Symptoms/injuries after skin contact | : May cause moderate irritation. |
| Symptoms/injuries after eye contact | : May cause slight irritation. |

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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| Suitable extinguishing media | : Adapt extinguishing media to the environment. Use extinguishing media appropriate for surrounding fire. |
| Unsuitable extinguishing media | : No unsuitable extinguishing media known. Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

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| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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| Protective equipment | : Gloves. Protective goggles. Safety glasses. Protective clothing. |
| Emergency procedures | : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. Wash contaminated clothes. Evacuate unnecessary personnel. |

6.1.2. For emergency responders

| | |
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| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Ventilate area. |

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

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| Methods for cleaning up | : Stop dust cloud by humidifying. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Take up in absorbent material. |
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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

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| Precautions for safe handling | : Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Observe normal hygiene standards. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. |
| Hygiene measures | : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. |

7.2. Conditions for safe storage, including any incompatibilities

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| Storage conditions | : Keep container closed when not in use. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source. |
| Incompatible materials | : Direct sunlight. |
| Prohibitions on mixed storage | : Keep away from reducing agents/(strong) acids /(strong) bases. OXIDIZING AGENTS. |

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Storage area : Keep only in the original container in a cool, well ventilated place.

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 : Either local exhaust or general room ventilation is usually required.

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.



Materials for protective clothing : GIVE GOOD RESISTANCE: rubber.

Hand protection : Gloves. Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.

Eye protection : Safety glasses. In case of dust production: protective goggles. Chemical goggles or safety glasses. Safety glasses.

Skin and body protection : Protective clothing. Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.

Respiratory protection : Dust production: dust mask with filter type P2. Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Amorphous solid. Amorphous powder.

Molecular mass : 78.11 g/mol

Color : White.

Odor : Odourless.

pH : No data available

Melting point : 1700 °C

Freezing point : No data available

Boiling point : 2230 °C

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable

Relative density : 2.1

Solubility : Poorly soluble in water. Substance sinks in water.
Water: 0.15 g/100ml

Explosive properties : No data available

Oxidizing properties : No data available

Explosion limits : No data available

9.2. Other information

Minimum ignition energy : Not applicable

VOC content : Not applicable

Other properties : Hygroscopic. May generate electrostatic charges.

SECTION 10: Stability and reactivity

10.1. Reactivity

At very high temperature: release of carcinogenic products. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion.

10.2. Chemical stability

Hygroscopic. Not established.

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10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

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| LD50 oral rat | > 5000 mg/kg (Rat) |
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Irritation : Not classified

Corrosivity : Not classified

Sensitization : Not classified

Repeated dose toxicity : Not classified

Carcinogenicity : Not classified

Mutagenicity : Not classified

Toxicity for reproduction : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

IARC group : 3

SECTION 12: Ecological information

12.1. Toxicity

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.1.

Ecology - water : No water pollutant (surface water). Not harmful to fishes. Not harmful to invertebrates (Daphnia). Insufficient data available on ecotoxicity.

12.2. Persistence and degradability

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| Persistence and degradability | Biodegradability: not applicable. Not established. |
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| Biochemical oxygen demand (BOD) | Not applicable |
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| Chemical oxygen demand (COD) | Not applicable |
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| ThOD | Not applicable |
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| BOD (% of ThOD) | Not applicable |
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12.3. Bioaccumulative potential

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| Bioaccumulative potential | No bioaccumulation data available. Not established. |
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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

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dehydrate/make insoluble. Remove to an authorized dump. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Dispose in a safe manner in accordance with local/national regulations.

Additional information : Can be considered as non hazardous waste according to Directive 2008/98/EC.

Ecology - waste materials : Avoid release to the environment.

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not considered hazardous

Proper Shipping Name (IATA) : Not considered hazardous

14.3. Packing group

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Transport regulations (ADR) : Not subject

Transport regulations (RID) : Not subject

14.6.2. Transport by sea

Transport regulations (IMDG) : Not subject

14.6.3. Air transport

Transport regulations (IATA) : Not subject

14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

Contains no substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

VOC content : Not applicable

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

PHV SDS EU

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