

Safety Data Sheet SIS6960.0
Date of issue: 09/14/2015 Version: 1.0

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

#### 1.1. Product identifier

Product form : Substance
Physical state : Solid

Substance name : SILICON DIOXIDE, amorphous

Product code : SIS6960.0 Formula : SiO2

Synonyms : FUMED SILICA; PYROGENIC SILICA

Chemical family : INORGANIC SILICATE

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

Use of the substance/mixture : Chemical intermediate

For research and industrial use only

# 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

# 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 (GHS-US)**

Not classified

# 2.2. Label elements

### **GHS-US labeling**

No labeling applicable

#### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

No data available

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substance

Substance type : Mono-constituent

Name : SILICON DIOXIDE, amorphous

CAS No : 112945-52-5

Name	Product identifier	%	Classification (GHS-US)
Silicon, amorphous	(CAS No) 112945-52-5	97 - 100	Not classified

# 3.2. Mixture

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. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, seek medical advice.

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

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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.

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

# Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : May be harmful if swallowed.

# Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing media : Not combustible. Unsuitable extinguishing media : None known

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : None known. Explosion hazard : None known.

#### Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Avoid contact with skin and

eyes. Do not breathe dust.

# **SECTION 6: Accidental release measures**

#### 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.

#### For emergency responders 6.1.2.

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".

# **Environmental precautions**

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

# Methods and material for containment and cleaning up

: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or For containment

streams.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

### Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

### Precautions for safe handling

Additional hazards when processed : While not flammable, the ability of fumed silica to generate static charge may present a hazard

when used in combination with flammable liquids.

Precautions for safe handling Avoid contact with skin and eyes. Use only in well ventilated areas. Avoid dust formation. Do

not breathe dust. Provide local exhaust or general room ventilation to minimize exposure to

Wash hands and other exposed areas with mild soap and water before eating, drinking or Hygiene measures smoking and when leaving work. Wash contaminated clothing before reuse.

# Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible materials : None known.

#### 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

### **Control parameters**

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USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ nuisance dust			

**Exposure controls** 

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

Personal protective equipment 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 (orange cartridge) respirator.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

: Solid Physical state Appearance : Powder. Molecular mass : 60.09 g/mol Color White.

Odor No data available Odor threshold : No data available

Refractive index : 1.46

: No data available pН Relative evaporation rate (butyl acetate=1) : No data available Melting point : > 1600 °C Freezing point : No data available No data available **Boiling point** Flash point No data available No data available Auto-ignition temperature

Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure < 0.01 mm Hg @ 20°C No data available

Relative density 2.2 100 % VOC content

Solubility Insoluble in water. Log Pow : No data available : No data available Log Kow No data available Viscosity, kinematic Viscosity, dynamic No data available Explosive properties : No data available : No data available Oxidizing properties **Explosion limits** : No data available

# Other information

Relative vapor density at 20 °C

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. **Chemical stability**

Stable.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. **Conditions to avoid**

None known.

#### 10.5. Incompatible materials

None known.

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# 10.6. Hazardous decomposition products

None known.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

Silicon, amorphous (112945-52-5)		
LD50 oral rat	3160 mg/kg; 8160 mg/kg; >5000 mg/kg	
ATE US (oral)	3160.000 mg/kg body weight	
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Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

# Silicon, amorphous (112945-52-5)

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : May be harmful if swallowed.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

# 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. Other adverse effects

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

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Landfill. 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

Not regulated for transport.

# 14.2. UN proper shipping name

Not applicable

# 14.3. Additional information

Other information : No supplementary information available.

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#### Transport by sea

No additional information available

#### Air transport

No additional information available

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

# Silicon, amorphous (112945-52-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

# Silicon, amorphous (112945-52-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Sustances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

# 15.3. US State regulations

SILICON DIOXIDE, amorphous(112945-52-5)						
U.S California - Proposition 65 - Carcinogens List	No					
U.S California - Proposition 65 - Developmental Toxicity	No					
U.S California - Proposition 65 - Reproductive Toxicity - Female	No					
U.S California - Proposition 65 - Reproductive Toxicity - Male	No					

# Silicon, amorphous (112945-52-5)

U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	

# **SECTION 16: Other information**

Abbreviations and acronyms

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health, IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

# **HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard : 0 Minimal Hazard Physical

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

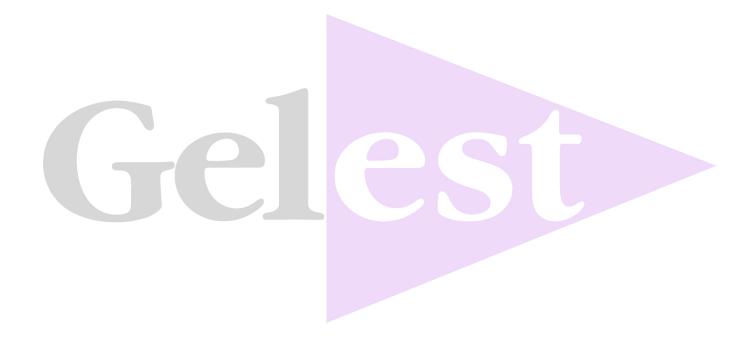
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According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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