

(Silicon Dioxide) DATE PREPARED: 1/6/2016

Section 1. Product and Company Identification

Silicon Dioxide **Product Name** 112945-52-5 **CAS Number**

Parchem - fine & specialty chemicals

415 Huguenot Street

New Rochelle, NY 10801

) (914) 654-6800 **(914)** 654-6899 parchem.com

™ info@parchem.com

EMERGENCY RESPONSE NUMBER

CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

Not classified as a hazardous substance or mixture

GHS Label Elements Pictograms: N/A Signal word: N/A

Hazard and precautionary statements

None

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3. Composition / Information on Ingredients

Common Name Silicon Dioxide

Synonym(s) Silica; Silicic Anhydride

Formula SiO₂

CAS Number 112945-52-5

COMPONENT	CAS NUMBER	CONCENTRATION
Silicon Dioxide	112945-52-5	≤ 100%

Section 4. First Aid Measures

Description of first-aid measures

General advice: Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Skin contact: Wash off with soap and plenty of water. **Eye contact:** Flush eyes with water as a precaution.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.



(Silicon Dioxide)
DATE PREPARED: 1/6/2016

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Indication of any immediate medical attention and special treatment needed: No data available

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or mixture: silicon oxides

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: No data available

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Avoid dust formation. Avoid breathing vapors, mist, or gas. For personal protection see section 8. **Environmental precautions:** No special environmental precautions required.

Methods and materials for containment and cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections: For disposal see section 13

Section 7. Handling and Storage

Precautions for safe handling: Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Hygroscopic. Storage class (TRGS 510): Non Combustible Solids



(Silicon Dioxide)
DATE PREPARED: 1/6/2016

Section 8. Exposure Controls / Personal Protection

Control parameters

Components with workplace control parameters

Component	CAS No	Value	Control Parameters	Basis
Pyrogenic	112945-52-5	TWA	20.000000 million	USA Occupational Exposure Limits
colloidal silica			particles/ ft ³	(OSHA) - Table Z - 3 Mineral Dusts
		Based or	n impinger samples counted	by light-field techniques. mppcf X
		35.3 = million particles per cubic meter = particles per c.c		
		TWA	80.000000 mg/m ³ / %	USA Occupational Exposure Limits
			SiO ₂	(OSHA) - Table Z - 3 Mineral Dusts
		TWA	20.00000 million	USA Occupational Exposure Limits
			particles/ ft ³	(OSHA) - Table Z - 3 Mineral Dusts
		Based on impinger samples counted by light-field techniques. mppcf X		
		35.3 = million particles per cubic meter = particles per c.c		
		TWA	80.000000 mg/m ³ / %	USA Occupational Exposure Limits
			SiO ₂	(OSHA) - Table Z - 3 Mineral Dusts
		TWA	20.000000 million	USA Occupational Exposure Limits
			particles/ ft ³	(OSHA) - Table Z - 3 Mineral Dusts
		Based on impinger samples counted by light-field techniques. mppcf X		
		35.3 = million particles per cubic meter = particles per c.c		
		TWA	80.000000 mg/m ³ / %	USA Occupational Exposure Limits
			SiO ₂	(OSHA) - Table Z - 3 Mineral Dusts
		TWA	6.000000 mg/m ³	USA. NIOSH Recommended
				Exposure Limits
		TWA	6.000000 mg/m ³	USA. NIOSH Recommended
				Exposure Limits
		TWA	20.000000 million	USA Occupational Exposure Limits
			particles/ ft ³	(OSHA) - Table Z - 3 Mineral Dusts
		Based on impinger samples counted by light-field techniques. mppcf X		
		35.3 = million particles per cubic meter = particles per c.c		
	22	TWA	80 mg/m³ / % SiO ₂	USA Occupational Exposure Limits
			eyere le le	(OSHA) - Table Z - 3 Mineral Dusts
		TWA	6 mg/m ³	USA. NIOSH Recommended
				Exposure Limits

Exposure controls

Appropriate engineering controls: General industrial hygiene practice.

Personal protective equipment

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



(Silicon Dioxide)
DATE PREPARED: 1/6/2016

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: No special environmental precautions required.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Solid **Odor:** No data available

Odor Threshold: No data available

pH (at 40g/L): 3.6 - 4.3

Melting point/freezing point: > 1,600°C (> 2,912°F)

Initial boiling point and boiling range: 2,200°C (3,992°F) at 1,013 hPa (760 mmHq)

Flash point: Not applicable

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapor pressure: No data available Vapor density: No data available Relative density: 2.200 g/cm³ Water solubility: Insoluble

Partition coefficient (n-Octanol/Water): No data available

Auto-ignition temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Explosive properties: No data available **Oxidizing properties:** No data available

Other safety information: No data available

Section 10. Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.



(Silicon Dioxide)
DATE PREPARED: 1/6/2016

Possibility of hazardous reactions: No data available

Conditions to avoid: Exposure to moisture may affect product quality.

Incompatible materials: Strong acids, Strong bases, Hydrogen fluoride, Oxidizing agents,

Ammonia, Oxygen difluoride, Chlorine trifluoride

Hazardous decomposition products

Other decomposition products: No data available

In the event of fire: see section 5

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available Respiratory or skin sensitization: No data available

Germ cell mutagenicity

Rat

Lungs

Body fluid assay

Rat

Unscheduled DNA synthesis

Carcinogenicity

Carcinogenicity - Rat - Inhalation

Tumorigenic: Carcinogenic by RTECS criteria.

Lungs, Thorax, or Respiration: Tumors.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Pyrogenic colloidal silica) **NTP:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available



(Silicon Dioxide)
DATE PREPARED: 1/6/2016

Additional Information

RTECS: VV7310000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Section 12. Ecological Information

Toxicity: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted.

Other adverse effects: No data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (US): Not dangerous goods **IMDG:** Not dangerous goods **IATA:** Not dangerous goods

Section 15. Regulatory Information

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Chronic Health Hazard

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components:

Pyrogenic Colloidal Silica (CAS-No. 112945-52-5)

New Jersey Right to Know Components

Pyrogenic Colloidal Silica (CAS-No. 112945-52-5)



(Silicon Dioxide)
DATE PREPARED: 1/6/2016

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

HMIS Rating Health: 0* Flammability: 0 Reactivity: 0

NFPA Rating Health: 0 Flammability: 0 Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 1/6/2016

