

SAFETY DATA SHEET



Date Issued : 3/12/2014
SDS No : 125881

Fumed Silica

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Fumed Silica
GENERAL USE: Filler
PRODUCT CODE: 125881

MANUFACTURER

Fiberglass Coatings Inc.
4301A 34th Street North
St. Petersburg, FL 33714
Customer Service: (800) 272-7890
E-Mail: www.fgci.com
Emergency Contact: Chem-Tel
Emergency Phone: (800) 255-3924

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Aspiration Hazard

GHS LABEL

Harmful



Exclamation
mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H320: Causes eye irritation.
H316: Causes mild skin irritation.
H333: May be harmful if inhaled.

PRECAUTIONARY STATEMENT(S)

Prevention:

P261: Avoid breathing fumes, dust, vapors, gases, or spray.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White; Solid/powder

IMMEDIATE CONCERNS: Exposure to powder or dusts may be irritating to eyes, nose and throat.

POTENTIAL HEALTH EFFECTS

EYES: No acute toxic effects are expected. Slight irritation by mechanical effects is possible.

SKIN: No acute toxic skin effects are expected. Temporary discomfort like feeling of dryness on the skin.

INGESTION: Not expected in industrial use.

INHALATION: No acute toxic respiratory tract effects are expected. May cause physical discomfort to the respiratory tract.

ROUTES OF ENTRY: Skin, Inhalation, Eyes

CANCER STATEMENT: Not classified as a carcinogen by the International Agency for Research of Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

COMMENTS: Not mutagenic in different in-vitro and in-vivo test systems. A long term exposure exceeding TLV can lead to damaging effect as a result of mechanical overloading of the respiratory tract. Chronic respiratory exposure: Changes in respiratory organs observed in animal experiments (inflammatory processes) were reversible; no indication of silicosis. Animal tests have shown no indication to carcinogenic or to reproduction effects.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Pyrogenic micro-dispersed silica, synthetic X-ray amorphous silicon dioxide (SiO ₂)	> 99.9	112945-52-5

COMMENTS: The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. FIRST AID MEASURES

EYES: If contact with eyes, immediately flush eyes with plenty of water.

SKIN: If contact with skin, wash skin with plenty of water or with water and soap.

INGESTION: Drink plenty of water. Get medical attention if symptoms occur. Show label if possible.

INHALATION: If inhaled, remove to fresh air.

COMMENTS: Get medical attention if irritation occurs or if breathing becomes difficult.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: May be combustible at high temperature

GENERAL HAZARD: Material does not burn. Electrostatic charging is possible.

EXTINGUISHING MEDIA: Use an extinguishing media suitable to the surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS: N/A = Not Applicable

FIRE FIGHTING EQUIPMENT: Firefighters should wear full protective clothing including self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Cover any spilled material in accordance with regulations to prevent dispersal by wind. Damp down dust and fill into containers.

LARGE SPILL: Follow procedure for small spills. Large industrial vacuum may be necessary for large scale spill. Follow federal, state, and local regulations for disposal.

GENERAL PROCEDURES: Avoid dust formation. Do not breathe dust. Wear personal protection equipment.

7. HANDLING AND STORAGE

HANDLING: Avoid dust formation. Electrostatic discharge possible during transport and processing. Take precautionary measures against electrostatic charging. Ensure all parts of equipment are well earthed. Use inert gas when working with combustible and explosive liquids. Avoid dust deposit, remove dust regularly.

STORAGE: Store in a cool, dry, well-ventilated area, away from incompatible materials. Keep container closed when not being used.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)								
				EXPOSURE LIMITS				
				OSHA PEL		ACGIH TLV		
Chemical Name				ppm	mg/m ³	ppm	mg/m ³	
Pyrogenic micro-dispersed silica, synthetic X-ray amorphous silicon dioxide (SiO ₂)				TWA		6	[1]	10 [1]
Footnotes:								
1. Inhalable								

ENGINEERING CONTROLS: Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (PEL/TLV). Any installed emergency eye wash station or safety showers should be located near the work area.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash goggles and/or face shield. Always use proper eye protection around the work area.

SKIN: Protective gloves.

RESPIRATORY: In case of dust formation: A NIOSH approved particulate respirator with a P95 or higher rating.

PROTECTIVE CLOTHING: Clothing should be applicable for the job at hand to protect the skin from repeated exposure to the material.

WORK HYGIENIC PRACTICES: Do not breathe dust/vapor/mist/gas/aerosol. Wash thoroughly after handling.

OTHER USE PRECAUTIONS: Use only with adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid - Powder

ODOR: Odorless.

COLOR: White.

pH: 3.6 to 4.5

PERCENT VOLATILE: N/A = Not Applicable

FLASH POINT AND METHOD: N/A = Not Applicable

FLAMMABLE LIMITS: N/A = Not Applicable

AUTOIGNITION TEMPERATURE: N/A = Not Applicable

VAPOR PRESSURE: No data available.

VAPOR DENSITY: No data available.

BOILING POINT: No data available.

MELTING POINT: 1700°C (3092°F)

SOLUBILITY IN WATER: Insoluble.

EVAPORATION RATE: No data available.

DENSITY: approx. 2.2 g/cm³ at 20°C (68°F)

SPECIFIC GRAVITY: No data available.

VISCOSITY: No data available.

(VOC): No data available.

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: This product is stable under normal conditions of storage and use.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

INCOMPATIBLE MATERIALS: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Pyrogenic micro-dispersed silica, synthetic X-ray amorphous silicon dioxide (SiO ₂)	> 5000 mg / kg (Rat)	> 5000 mg / kg (dermal Rabbit)	2.08 mg/L (4h)

NOTES: Based on the available data acute toxic effects are not expected after single oral exposure. Based on the available data acute toxic effects are not expected after single dermal exposure. Based on the available data acute toxic effects are not expected after short-term inhalative exposure.

EYE EFFECTS: Based on the available data a clinically relevant eye irritation hazard is not expected.

SKIN EFFECTS: Based on the available data a clinically relevant skin irritation hazard is not expected.

CHRONIC: Chronic inhalative exposure: Changes in respiratory organs observed in animal experiments (inflammatory processes) were reversible; no indication of silicosis.

CARCINOGENICITY

Notes: Animal tests have not revealed any carcinogenic effects.

GENERAL COMMENTS: By handling the product for many years no damage to health was observed.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

BIOACCUMULATION/ACCUMULATION: Biodegradable.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: > 10000 mg/L (Brachydanio rerio)

96-HOUR EC₅₀: 10000 mg/L (Daphina Magna).

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be in accordance with all Federal, State, and local regulations. Empty containers may still be considered dangerous due to residual vapors/liquid/dust.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated by DOT

AIR (ICAO/IATA)

SHIPPING NAME: Not Regulated

VESSEL (IMO/IMDG)

SHIPPING NAME: Not Regulated

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Not Listed.

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** No

313 REPORTABLE INGREDIENTS: Not Listed.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Not Listed.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: None required.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All items are TSCA listed

TSCA STATUS: CAS Number 7631-86-9 (silica, amorphous)

CLEAN AIR ACT

40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: This material does not contain any hazardous air pollutants.

CALIFORNIA PROPOSITION 65: This product contains no ingredients that would be reportable under California Proposition 65 legislation.

OSHA HAZARD COMM. RULE: This product is not considered hazardous as defined by OSHA 29CFR, part 1910.1200

CANADA

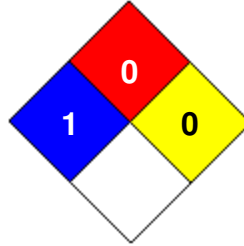
WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Not Listed.

DOMESTIC SUBSTANCE LIST (INVENTORY): 112945-52-5 Silica, amorphous, fumed**16. OTHER INFORMATION**

PREPARED BY: BC

HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	0
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	

NFPA CODES**HMIS RATINGS NOTES:** The customer is responsible for determining the PPE code for this material.**MANUFACTURER DISCLAIMER:** This information is compiled from sources believed reliable as of the date of issue, it is provided in good faith and correct to the best of our knowledge. No warranty, guarantee, or representation is made as to the sufficiency of the information for the safe use of the product nor to relieve the end user of their own Federal, State, and local regulatory compliance requirements.