



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

Product Form:

Substance Name: FIBERLAY FUMED SILICA

Code(s): 157200, 15721, 15722, 15724, 15728

1.2 Recommended Use of the Chemical and Restrictions on use:

Relevant applications identified:

Sealants
Colored printing inks.
Paints and varnishes
Adhesive
Silicone rubber
Cosmetic ingredient
Cosmetics
Agrochemicals

Function:

Anticaking agent
Anti-blocking agents
Coating agent
Dispersing agent
Flow-promoting agent
Reinforcing agent
Carrier

1.3 Details of the Supplier of the Safety Data Sheet

Fiberlay Inc.
1468 Northgate Blvd
Sarasota, FL 34234
T 206-782-0660
F 888-782-0662
www.Fiberlay.com

1.4 Emergency Telephone Number

Emergency Number: CHEMTREC: Domestic - 800-424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation 29CFR 1910.1200

Remarks Not a hazardous substance or mixture.

2.2 Label elements

Statutory basis Classification according to Regulation 29CFR 1910.1200

Remarks Not a hazardous substance or mixture.

2.3 Other hazards

Silicon dioxide, chemically prepared Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Ingredients	Cas No	%
Silicone dioxide (chemically prepared)	112945-52-5	100

Comments: Not a hazardous substance or mixture

Other information: A new CAS , 112945-52-5, has been assigned to amorphous, fumed silica to distinguish it from crystalline silica. According to the EPA, this product meets TSCA requirements and is listed on the TSCA inventory as silica with CAS 7631-86-9.

3.2 Mixtures

Not applicable

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation

*In case product dust is released: Possible discomfort: cough, sneezing
Move victims into fresh air.*

Skin contact

Wash off with soap and plenty of water.

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention.

Ingestion

*If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water.
In case of discomfort, obtain medical attention.*

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

None known

4.3 Indication of any immediate medical attention and special treatment needed

No hazards which require special first aid measures.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, CO₂, dry powder. Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media: Do not use full-force water jet in order to avoid dispersal and spread of the fire.

5.2 Special hazards arising from the substance or mixture

None known.

5.3 Advice for firefighters

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2 Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

6.3 Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. HANDLING AND STORAGE

7.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

7.2 Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

7.3 Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Ingredient	Cas No.	Time Weighted Average (TWA)[®]Z3) Control Parameters
Silicon Dioxide, chemically prepared	112945-52-5	20millions of particles per cubic foot of air
	7631-86-9	0.8 mg/m ³

The exposure limit is calculated from the equation, 80/(%SiO₂), using a value of 100% SiO₂. Lower values of % SiO₂ will give higher exposure limits.

8.2 Exposure Controls

Personal Protective Equipment

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable

federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hand protection

Use impermeable gloves.

Eye protection

Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.

Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before re-use.

Protective measures

Handle in accordance with good industrial hygiene and safety practice.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid
Color	White
Form	Powder
Odor	Odorless
Odor Threshold	Not applicable
pH (suspension)	3.7-4.5 (40 g/l) 20°C
Melting point / range	Ca. 1700°C
Boiling point / range	Not determined
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Density	Ca. 2.2 g/cm ³ (20°C)
Water solubility	>1mg/l
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Thermal decomposition	>2000°C
Viscosity, dynamic	Not applicable

9.2 Other Information

Explosiveness	Not to be expected in view of the structure
Minimum ignition energy	Not applicable
Tapped density	Ca. 50g/l Method DIN / ISO 787 / 11

10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

See Section 10.1 Reactivity

10.4 Conditions to avoid

No dangerous reactions known under conditions of normal use. Operations that create dust.

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

None known

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity:	LD50 Rat:	>3300 mg/kg	No deaths occurred
	LD50 Rat:	>5000 mg/kg	
	Method:	OECD Test Guideline 401	Comparable product
Acute inhalation toxicity:	LC0 Rat:	0.139 mg/l 4h	
	Method:	Analogous OECD	(maximum conc. attainable in experiments) No deaths occurred
Acute dermal toxicity:	LD50 Rabbit:	>5000 mg/kg	Comparable product
Skin irritation:	Rabbit		
	Method:	Analogous OECD	Not irritating
Eye irritation:	Rabbit		
	Method:	Analogous OECD	Not irritating
Sensitization:		Not known	
Repeated dose toxicity:	Oral:	No negative effects	
	Inhalation:	No irreversible changes and no indication of silicosis	
Assessment STOT Single exposure:		No evidence for hazardous properties	
Assessment STOT Repeat exposure:		No evidence for hazardous properties	

Risk of aspiration toxicity:	No aspiration toxicity classification
Mutagenicity assessment:	No evidence of mutagenic effects or reported in literature
Carcinogenicity	No negative effects
Carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA
Toxicity to reproduction	No negative effects.
Human experience	Silicosis or other product specific illnesses of the respiratory tract have not been reported.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish: *LC50 (Brachydanio rerio): > 10000 mg/l / 96 h*

Method: OECD 203 The reported toxic effects relate to the nominal concentration

Toxicity in aquatic invertebrates: *EC50 Daphnia magna: > 1000 mg/l / 24 h*

Method: OECD 202 The reported toxic effects relate to the nominal concentration.

12.2 Persistence and degradability

Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances

12.3 Bio-accumulative potential

Bio-accumulation: Not to be accepted

12.4 Mobility in soil

Mobility: No remarkable mobility in soil is to be expected

12.5 Other adverse effects

Further Information The classification criteria are not met based on the available data

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product:

Waste must be disposed of in accordance with federal, state, provincial and local regulations

Uncleaned packaging

Packaging material should be recycled or disposed of in accordance with federal, state and local regulations

14. TRANSPORT INFORMATION

Not dangerous according to transport regulations.

14.1	UN number:	--
14.2	UN proper shipping name:	--
14.3	Transport hazard class(es):	--
14.4	Packing group:	--
14.5	Environmental hazards (Marine pollutant):	
14.6	Special precautions for user:	Yes

Not dangerous according to transport regulations.

15. REGULATORY INFORMATION

US Federal Regulations

OSHA

If listed below, chemical specific standards apply to the product or components:

- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- No SARA Hazards

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

State Regulations

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

HMIS Ratings

Health:	1
Flammability :	0
Physical Hazard :	0

NFPA Ratings

Health: 1
Flammability: 0
Reactivity: 0

16. OTHER INFORMATION

Fiberlay Inc. believes the law requires us to inform you that detectable amounts of any of the listed chemicals might be present in Fiberlay products. Based on a review of the list, Fiberlay products, like all synthetic and naturally occurring chemical substances, may conceivably contain trace contaminants of some of the listed substances. While not necessarily added to our products as ingredients, some of the listed chemicals may be present in the raw materials as received from suppliers over which we have no control.

Preparation Date: 12-31-2018

Prepared by: Kevin Aber

Comments: This Safety Data Sheet was prepared using information provided by Fiberlay Inc.

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The logo for Fiberlay, featuring the word "Fiberlay" in a large, stylized, pink font with a white outline and a blue shadow effect. A registered trademark symbol (®) is located at the bottom right of the word.