



Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 12/21/2023

Date of issue: 09/23/2014

Version: 5.0

SECTION 1: Identification

1.1. Product identifier

Product form Mixture

Product name CF1-3710-2 Part A Synonyms Fluorosilicone Foam

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

Use of the substance/mixture For professional use only.

1.3. Details of the supplier of the safety data sheet

NuSil Technology LLC 1050 Cindy Lane

Carpinteria, California 93013

USA

(805) 684-8780

productstewardship@avantorsciencesgcc.com

www.nusil.com

1.4. Emergency telephone number

Emergency: 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and

number Maritime)

SECTION 2: Hazards identification

2.1. Classification of the Substance or Mixture

GHS-US Classification

Reproductive toxicity Category 1B H360 Aquatic Chronic 3 H412

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS08

Signal Word (GHS-US) Danger

Hazard Statements (GHS-US) H360 - May damage fertility or the unborn child

H412 - Harmful to aquatic life with long-lasting effects

Precautionary Statements (GHS-US) P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and

understood.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye

protection.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local,

regional, national, and international regulations.

2.3. Other Hazards

Other Hazards Not Contributing to Exposure may aggravate pre-existing eye, skin, or respiratory the Classification conditions.

2.4. Unknown acute toxicity (GHS US)

No data available

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with	(CAS No) 68909-20-6	10 - 20	Not classified
silica			
Quartz*	(CAS No) 14808-60-7	5 - 10	Carc. 1 A, H350
			STOT SE 3, H335
			STOT RE 1, H372
Methyl vinylcyclosiloxane	(CAS-No.) 2554-06-5	< 1	Repr. 1B, H360
2,4,6-trimethyl-2,4,6-tris(3,3,3-	(CAS-No.) 2374-14-3	< 1	Repr. 2, H361
trifluoropropyl)cyclotrisiloxane			STOT RE 1, H372
			STOT RE 2, H373
Octamethylcyclotetrasiloxane	(CAS-No.) 556-67-2	< 0.25	Flam. Liq. 3, H226
			Repr. 2, H361
			Aquatic Chronic 1, H410

^{*}Finely divided Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz dust is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz dust are not applicable to this product.

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general Never give anything by mouth to an unconscious person. If you feel

unwell, seek medical advice (show the label if possible).

First-aid measures after inhalation Remove to fresh air and keep at rest in a position comfortable for

> breathing. Obtain medical attention if breathing difficulty persists. Rinse immediately with plenty of water. Remove contaminated

First-aid measures after skin

contact clothing. Wash contaminated clothing before reuse. Obtain medical

attention if irritation develops or persists.

First-aid measures after eye Rinse cautiously with water for at least 15 minutes. Remove contact contact

lenses, if present and easy to do. Continue rinsing. Obtain medical

attention.

First-aid measures after ingestion Do NOT induce vomiting. Rinse mouth. Immediately call a POISON

CENTER or doctor/physician.

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

Symptoms/injuries May damage fertility or the unborn child.

Symptoms/injuries after inhalation May cause respiratory irritation.

Symptoms/injuries after skin

contact

May cause skin irritation.

Symptoms/injuries after eye

contact

May cause eye irritation.

Symptoms/injuries after ingestion Ingestion is likely to be harmful or have adverse effects.

Chronic symptoms May damage fertility or the unborn child.

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

If you feel unwell, seek medical advice (show the label where possible).

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SECTION 5: Fire-Fighting measures

5.1. Extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may

spread fire. Application of water stream to hot product may cause

frothing and increase fire intensity.

5.2. Special hazards arising from the substance or mixture

Fire hazard Not considered flammable but may burn at high temperatures.

Explosion hazard Product is not explosive.

Reactivity Hazardous reactions will not occur under normal conditions.

5.3. Advice for firefighters

Precautionary measures fire Exercise caution when fighting any chemical fire.

Use water spray or fog for cooling exposed containers.

Protection during firefighting Do not enter fire area without proper protective equipment, including

respiratory protection.

Other information Refer to Section 9 for flammability properties.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor,

mist, spray).

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Stop leak if safe to do so. Eliminate ignition sources. 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

For containment Contain any spills with dikes or absorbents to prevent migration and

entry into sewers or streams.

Methods for cleaning up Clear up spills immediately and dispose of waste safely. Spills should

be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a

spill.

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

Hygiene measures Handle in accordance with good industrial hygiene and safety

procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures Comply with applicable regulations.

Storage conditions Store in a dry, cool and well-ventilated place. Keep container closed

when not in use. Keep/Store away from direct sunlight, extremely high

or low temperatures and incompatible materials.

Incompatible products Strong acids. Strong bases. Strong oxidizers.

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7.3. Specific end use(s)

For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)		
USA OSHA OSHA PEL (TWA) (mg/m³) 6 mg/m³		6 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80 mg/m³/%SiO ₂)
Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable fraction)
USA OSHA	OSHA PEL (STEL) (mg/m³)	250 mppcf/%SiO ₂ +5, 10 mg/m ³ /%SiO ₂ +2

Octamethylcyclotetra	siloxane (556-67-2)	
USA AIHA	WEEL TWA	10 ppm

8.2. Exposure controls

Appropriate Engineering Controls Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure. Ensure

adequate ventilation, especially in confined areas. Ensure all

national/local regulations are observed.

Personal Protective Equipment Gloves. Protective clothing. Protective goggles. Insufficient

ventilation: wear respiratory protection.









Materials For Protective Clothing

Hand Protection

Eye And Face Protection

Skin And Body Protection

Respiratory Protection

Chemically resistant materials and fabrics.

Wear protective gloves. Chemical safety goggles.

Wear suitable protective clothing.

If exposure limits are exceeded or irritation is experienced, approved

respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels

are not known wear approved respiratory protection.

Other Information When using, do not eat, drink or smoke.

Appropriate Engineering Controls : Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure. Ensure

adequate ventilation, especially in confined areas. Ensure all

national/local regulations are observed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Pale Tan
Odor : Slight

Odor threshold : No data available pH : No data available Evaporation Rate : No data available Melting point : No data available Freezing point : No data available

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Boiling point	: No data available
Flash point	: > 135 °C (> 275 °F)
Auto-ignition Temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Connection Crowdity	. 1 1 1 5

Specific Gravity : 1.1 - 1.5

Solubility : No data available
Partition coefficient: n-octanol/water : No data available
Viscosity : No data available

9.2. Other information

VOC Content <1%

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Silicon oxides. Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapors. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified

Quartz (14808-60-7)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rat	> 5000 mg/kg	
Methyl vinylcyclosiloxane (2554-06-5)		
LD50 Oral Rat	> 4800 mg/kg (Read accross, no deaths)	
LD50 Dermal Rabbit	> 2000 mg/kg (no deaths)	
LC50 Inhalation Rat	> 1.32 mg/l/4h (Species: Sprague-Dawley, maximum achievable	
	concentration, no deaths)	
2,4,6-trimethyl-2,4,6-tris(3,3,3-trifluoropropyl)cyclotrisiloxane (CAS 2374-14-3)		
LD50 oral rat	4659 mg/kg	

Octamethylcyclotetrasiloxane (556-67-2)		
LD50 Oral Rat	> 4800 mg/kg (No mortality)	
LD50 Dermal Rat	> 2375 mg/kg	
LD50 Dermal Rabbit	> 2.5 ml/kg (No mortality)	
LC50 Inhalation Rat	36 mg/l/4h	

Skin corrosion/irritation Not classified

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Serious eye damage/irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity
Not classified
Not classified
Not classified

Quartz (14808-60-7)	
IARC group	1
National Toxicity Program (NTP)	Known Human Carcinogens.
Status	

Reproductive toxicity : May damage fertility. May damage the unborn child.

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 respiratory irritation. Symptoms/injuries after skin May cause skin irritation.

contact

Symptoms/injuries after eye

contact

May cause eye irritation.

Symptoms/injuries after ingestion Ingestion is likely to be harmful or have adverse effects. Chronic symptoms May damage fertility. May damage the unborn child.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - General Harmful to aquatic life with long-lasting effects.

Octamethylcyclotetrasiloxane (556-67-2)		56-67-2)
	LC50 Fish	> 22 µg/l
	NOEC Chronic Fish	0.0044 mg/l

12.2. Persistence and degradability

	12.2. I cisisience and degradability		
CF1-3710-2 Part A			
	Persistence and Degradability	May cause long-term adverse effects in the environment.	

12.3. Bioaccumulative potential

12.3. Bioaccumulative potential	
CF1-3710-2 Part A	
Bioaccumulative Potential	Not established.
Octamethylcyclotetrasiloxane (556-67-2)
BCF Fish 1	12400
Log Pow	5.1
Methyl vinylcyclosiloxane (2554-06-5)	
Partition coefficient n-	6.47
octanol/water (Log Pow)	

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of waste material in accordance with all local, regional,

national, and international regulations.

Ecology - waste materials Avoid release to the environment.

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SECTION 14: Transport information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

- **14.1.** In Accordance with DOT Not regulated for transport
- **14.2. In Accordance with IMDG** Not regulated for transport
- 14.3. In Accordance with IATA Not regulated for transport

SECTION 15: Regulatory information

15.1. US Federal regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, or are not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

CF1-3710-2 Part A	
SARA Section 311/312 Hazard	Health hazard - Reproductive toxicity
Classes	

15.2. US State regulations

10.2. 00 diale regulations		
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)		
U.S Texas - Effects Screening Levels - Long Term		
U.S Texas - Effects Screening Levels - Short Term		
Quartz (14808-60-7)		
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.	

Quartz (14808-60-7)

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits Mineral Dusts
- U.S. Illinois Toxic Air Contaminant Carcinogens
- U.S. Illinois Toxic Air Contaminants
- U.S. Maine Chemicals of High Concern
- RTK U.S. Massachusetts Right To Know List
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New York Occupational Exposure Limits Mineral Dusts
- U.S. New York Occupational Exposure Limits TWAs
- U.S. Oregon Permissible Exposure Limits Mineral Dusts
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs

Octamethylcyclotetrasiloxane (556-67-2)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

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- U.S. Maine Chemicals of Concern
- U.S. Oregon Priority Persistent Pollutant Tier I Persistent Pollutants
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Chemicals of High Concern Persistent Bioaccumulative Toxins
- U.S. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups

SECTION 16: Other information, including date of preparation or last revision

Revision date 12/21/2023

Other information This document has been prepared in accordance with the SDS

requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200.

Full text of H-phrases:

Carc. 1A	Carcinogenicity Category 1A
Repr. 1B	Reproductive toxicity Category 1
Repr. 2	Reproductive toxicity Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Flam. Liq. 3	Flammable liquids Category 3
H335	May cause respiratory irritation
H350	May cause cancer
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure (dermal)
H226	Flammable liquid and vapor
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

NFPA Health Hazard 1 - Materials that, under emergency

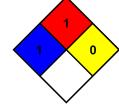
conditions, can cause significant irritation.

NFPA Fire Hazard 1 - Materials that must be preheated before

ignition can occur.

NFPA Reactivity Hazard 0 - Material that in themselves are normally

stable, even under fire conditions.



HMIS III Rating

Health 1 Slight Hazard - Irritation or minor reversible injury possible

* Chronic - Chronic (long-term) health effects may result from

repeated overexposure

Flammability 1 Slight Hazard
Physical 0 Minimal Hazard

The information provided in this Safety Data Sheet (SDS) was prepared based on data believed to be accurate as of the date of this SDS. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL TECHNOLOGY LLC AND ITS AFFILIATED COMPANIES ("NUSIL") EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN INCLUDING, WITHOUT LIMITATION, AS TO ACCURACY, COMPLETENESS, FITNESS FOR PURPOSE OR USE, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY AND STABILITY. This SDS is intended as a guide to the appropriate use, handling, storage and disposal of the product to which it relates by properly trained personnel, and is not

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intended to be comprehensive. Users of NuSil's products are advised to perform their own tests and to exercise their own judgment to determine the safety, suitability and appropriate use, handling, storage and disposal of each product and product combination for their own purposes and uses. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL DISCLAIMS LIABILITY FOR, AND BY USING NUSIL'S PRODUCTS PURCHASER AGREES THAT UNDER NO CIRCUMSTANCES SHALL NUSIL BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.

NuSil US GHS SDS





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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 12/21/2023 Date of issue: 09/02/2014

Version: 5.0

SECTION 1: Identification

1.1. Product identifier

Product form Mixture

Product name CF1-3710-2 Part B
Synonyms Fluorosilicone Foam

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

Use of the substance/mixture For professional use only.

1.3. Details of the supplier of the safety data sheet

NuSil Technology LLC 1050 Cindy Lane

Carpinteria, California 93013

USA

(805) 684-8780

productstewardship@avantorsciencesgcc.com

www.nusil.com

1.4. Emergency telephone number

Emergency: 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and

number Maritime)

SECTION 2: Hazards identification

2.1. Classification of the Substance or Mixture

GHS-US Classification

Repr. 2 H361 Aquatic Chronic 3 H412

Full text of hazard classes and H-statements: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS08

Signal Word (GHS-US) Warning

Hazard Statements (GHS-US) H361 - Suspected of damaging fertility or the unborn child

H412 - Harmful to aquatic life with long-lasting effects

Precautionary Statements (GHS-US) P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and

understood.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye

protection.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local,

regional, national, and international regulations.

2.3. Other Hazards

Other Hazards Not Contributing to

the Classification

Exposure may aggravate pre-existing eye, skin, or respiratory

conditions.

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2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica	(CAS No) 68909-20-6	10 - 20	Not classified
Quartz*	(CAS No) 14808-60-7	5 - 10	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372
Glass, oxide, chemicals*	(CAS No) 65997-17-3	< 5	Not classified
Siloxanes and Silicones, dimethyl, methyl hydrogen	(CAS No) 68037-59-2	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
2,4,6-trimethyl-2,4,6-tris(3,3,3-trifluoropropyl)cyclotrisiloxane	(CAS-No.) 2374-14-3	< 1	Repr. 2, H361 STOT RE 1, H372 STOT RE 2, H373
Octamethylcyclotetrasiloxane	(CAS-No.) 556-67-2	< 0.25	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 1, H410

^{*}Finely divided Quartz and Glass Oxide has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz and Glass Oxide is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz and Glass oxide are not applicable to this product.

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

4.1. Description of his dia measures		
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).	
First-aid measures after inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.	
First-aid measures after skin contact	Rinse immediately with plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.	
First-aid measures after eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.	
First-aid measures after ingestion	Do NOT induce vomiting. Rinse mouth. Immediately call a POISON	

CENTER or doctor/physician.

	d effects, both acute and delayed	
	Symptoms/injuries	Suspected of damaging fertility or the unborn child.
	Symptoms/injuries after inhalation	May cause respiratory irritation.
	Symptoms/injuries after skin contact	May cause skin irritation.
	Symptoms/injuries after eve	May cause eve irritation.

Symptoms/injuries after eye : May cause eye irritation contact

Symptoms/injuries after ingestion Ingestion is likely to be harmful or have adverse effects. Chronic symptoms Suspected of damaging fertility or the unborn child.

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

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Fire-Fighting measures

5.1. Extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may

spread fire. Application of water stream to hot product may cause

frothing and increase fire intensity.

5.2. Special hazards arising from the substance or mixture

Fire hazard Not considered flammable but may burn at high temperatures.

Explosion hazard Product is not explosive.

Reactivity Hazardous reactions will not occur under normal conditions.

5.3. Advice for firefighters

Precautionary measures fire Exercise caution when fighting any chemical fire.

major fire and large quantities: Evacuate area. Fight fire remotely due

to the risk of explosion.

Protection during firefighting Do not enter fire area without proper protective equipment, including

respiratory protection.

Other information Refer to Section 9 for flammability properties.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor,

mist, spray).

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Stop leak if safe to do so. Eliminate ignition sources. 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

For containment Contain any spills with dikes or absorbents to prevent migration and

entry into sewers or streams.

Methods for cleaning up Clear up spills immediately and dispose of waste safely. Spills should

be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a

spill.

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

Hygiene measures Handle in accordance with good industrial hygiene and safety

procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures Comply with applicable regulations.

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Storage conditions Store in a dry, cool and well-ventilated place. Keep container closed

when not in use. Keep/Store away from direct sunlight, extremely high

or low temperatures and incompatible materials.

Incompatible products Strong acids. Strong bases. Strong oxidizers.

7.3. Specific end use(s)

For professional use only. For use as a solvent resistant seal, and in shock and vibration dampening situations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)			
USA OSHA	OSHA PEL (TWA) (mg/m³)	6 mg/m³	
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80 mg/m³/%SiO ₂)	
Quartz (14808-60-7)	Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³	
USA OSHA	OSHA PEL (STEL) (mg/m³)	250 mppcf/%SiO ₂ +5, 10 mg/m³/%SiO ₂ +2	
Glass, oxide, chemicals (65997-17-3)			
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ total dust, 5 mg/m³, respirable	
		fraction 8 hr	
Octamethylcyclote	Octamethylcyclotetrasiloxane (556-67-2)		
USA AIHA	WEEL TWA	10 ppm	

8.2. Exposure controls

Appropriate Engineering Controls Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure. Ensure

adequate ventilation, especially in confined areas. Ensure all

national/local regulations are observed.

Personal Protective Equipment Gloves. Protective clothing. Protective goggles. Insufficient

ventilation: wear respiratory protection.









Materials For Protective Clothing

Hand Protection Eye And Face Protection Skin And Body Protection Respiratory Protection Chemically resistant materials and fabrics. Wear protective gloves.

Wear protective gloves. Chemical safety goggles.

Wear suitable protective clothing.

If exposure limits are exceeded or irritation is experienced, approved

respiratory protection should be worn. In case of inadequate

ventilation, oxygen deficient atmosphere, or where exposure levels

are not known wear approved respiratory protection. When using, do not eat, drink or smoke.

Other Information When using, do not eat, drink or smoke

Appropriate Engineering Controls Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure. Ensure

adequate ventilation, especially in confined areas. Ensure all

national/local regulations are observed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Dark Grey
Odor : Slight

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Odor threshold : No data available pH : No data available Relative evaporation rate (butyl : No data available

acetate=1)

Melting point : No data available Freezing point : No data available : No data available Boiling point Flash point : > 135 °C (> 275 °F) **Auto-ignition Temperature** : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available

Specific Gravity : 1.10-1.15

Solubility : No data available
Partition coefficient: n-octanol/water : No data available
Viscosity : No data available

9.2. Other information

VOC Content <1%

SECTION 10: Stability and reactivity

10.1. Reactivity

Contact with water, alcohols, acids or bases, and many metals or metallic compounds can liberate flammable Hydrogen gas which can form explosive mixtures in air.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Evolved hydrogen gas is flammable and may form explosive mixtures with air.

10.4. Conditions to avoid

LC50 Inhalation Rat

Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

10.5. Incompatible materials

Water, alcohols, acids, bases, strong oxidizing agents, catalytic metals, metallic compounds.

10.6. Hazardous decomposition products

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Flammable hydrogen gas. Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified.

Quartz (14808-60-7)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rat	> 5000 mg/kg	
2,4,6-trimethyl-2,4,6-tris(3,3,3-trifluoropropyl)cyclotrisiloxane (CAS 2374-14-3)		
LD50 oral rat	4659 mg/kg	
Octamethylcyclotetrasiloxane (556-67-2)		
LD50 Oral Rat	> 4800 mg/kg (No mortality)	
LD50 Dermal Rat	> 2375 mg/kg	
LD50 Dermal Rabbit	> 2.5 ml/kg (No mortality)	•

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36 mg/l/4h

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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.

Quartz (14808-60-7)	
IARC group	
17 (17)	'
National Toxicity Program (NTP)	Known Human Carcinogens.
rialional toxicity i togram (iiii)	Known norman Carellogens.
Status	
1 310103	

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

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

exposure)

Aspiration hazard Not classified.

Symptoms/injuries after inhalation Prolonged exposure may cause irritation.

Symptoms/injuries after skin Prolonged exposure may cause skin irritation.

contact

Symptoms/injuries after eye

contact

May cause irritation to eyes.

Symptoms/injuries after ingestion Ingestion is likely to be harmful or have adverse effects.

Chronic symptoms Suspected of damaging fertility or the unborn child.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - General Harmful to aquatic life with long-lasting effects.

Octamethylcyclotetrasiloxane (556-67-2)	
LC50 Fish	> 22 µg/l
NOEC Chronic Fish	0.0044 mg/l

12.2. Persistence and Degradability

CF1-3710-2 Part B	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

CF1-3710-2 Part B	
Bioaccumulative Potential	Not established.
Octamethylcyclotetrasiloxane (556-67-2)	
BCF Fish 1	12400
Log Pow	5.1

12.4. Mobility In Soil

No additional information available

12.5. Other adverse effects

Other information Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations Dispose of waste material in accordance with all local, regional,

national, and international regulations.

Ecology - waste materials Avoid release to the environment.

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SECTION 14: Transport information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

- **14.1.** In Accordance with DOT Not regulated for transport
- **14.2. In Accordance with IMDG** Not regulated for transport
- 14.3. In Accordance with IATA Not regulated for transport

SECTION 15: Regulatory information

15.1. US Federal regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, or are not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

CF1-3710-2 Part B	
SARA Section 311/312 Hazard	Health hazard - Reproductive toxicity
Classes	

15.2. US State regulations

15.2. US Sidie regulations	
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)	
U.S Texas - Effects Screening Levels - Long Term	
U.S Texas - Effects Screening Levels - Short Term	
Quartz (14808-60-7)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer

Quartz (14808-60-7)

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits Mineral Dusts
- U.S. Illinois Toxic Air Contaminant Carcinogens
- U.S. Illinois Toxic Air Contaminants
- U.S. Maine Chemicals of High Concern
- RTK U.S. Massachusetts Right To Know List
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. Oregon Permissible Exposure Limits Mineral Dusts
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs

Glass, oxide, chemicals (65997-17-3)

- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Minnesota Hazardous Substance List
- U.S. Texas Effects Screening Levels Long Term

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- U.S. Texas Effects Screening Levels Short Term
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs

Octamethylcyclotetrasiloxane (556-67-2)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Maine Chemicals of Concern
- U.S. Oregon Priority Persistent Pollutant Tier I Persistent Pollutants
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Chemicals of High Concern Persistent Bioaccumulative Toxins
- U.S. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups

SECTION 16: Other information, including date of preparation or last revision

Revision date 12/21/2023

Other information This document has been prepared in accordance with the SDS

requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200.

Full text of H-phrases: see section 16:

C 1 A	Complete and in the Code and at 14
Carc. 1A	Carcinogenicity Category 1A
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Flam. Liq. 3	Flammable liquids Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure (Oral)
H373	May cause damage to organs through prolonged or repeated exposure (dermal)
H226	Flammable liquid and vapor
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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NFPA Health Hazard 1 - Materials that, under emergency

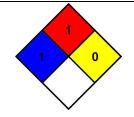
conditions, can cause significant irritation.

NFPA Fire Hazard 1 - Materials that must be preheated before

ignition can occur.

NFPA Reactivity Hazard 0 - Material that in themselves are normally

stable, even under fire conditions.



HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

* Chronic - Chronic (long-term) health effects may result from

repeated overexposure

Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

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