



Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of Revision: 10/16/2023 Date of Issue: 08/19/2014

Version: 4.0

### **SECTION 1: Identification**

### 1.1. Product Identifier

Product Form Mixture

Product Name CF2-3521-2 Part A
Synonyms Fluorosilicone Elastomer

### 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

Number and 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 Labelina**

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.

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### 2.3. Other Hazards

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

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

# **SECTION 3: Composition/Information On Ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixture

Contact

Name	Product Identifier	%	GHS-US Classification
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica	(CAS No) 68909-20-6	10 - 30	Not classified
Titanium dioxide	(CAS No) 13463-67-7	< 1	Not classified
2,4,6-trimethyl-2,4,6-tris(3,3,3-trifluoropropyl)cyclotrisiloxane	(CAS-No.) 2374-14-3	< 0.25	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

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 where possible).
First-aid Measures After Inhalation	When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
First-aid Measures After Skin Contact	Remove contaminated clothing. Drench affected area with water for at least 15 minutes. 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	Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

p	
Symptoms/Injuries	Suspected of damaging fertility or the unborn child.
Symptoms/Injuries After	Prolonged exposure may cause irritation.
Inhalation	,

Symptoms/Injuries After Skin Prolonged exposure may cause skin irritation. Contact

Symptoms/Injuries After Eye May cause slight irritation to eyes.

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Symptoms/Injuries After

Ingestion may cause adverse effects.

Ingestion

Chronic Symptoms Suspected of damaging fertility or the unborn child.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## **SECTION 5: Fire-Fighting Measures**

### 5.1. Extinguishing Media

Suitable Extinguishing Media : Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media : Do not use a heavy water stream. Use of heavy stream of water

may spread fire.

### 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.

Firefighting Instructions

Use water spray or fog for cooling exposed containers.

Protection During Firefighting Do not enter fire area without proper protective equipment,

including respiratory protection.

### **SECTION 6: Accidental Release Measures**

### 6.1. Personal Precautions, Protective Equipment And Emergency Procedures

General Measures Do not get in eyes, on skin, or on clothing. Do not breathe

vapor, mist or spray.

### 6.1.1. For Non-Emergency Personnel

Protective Equipment Use appropriate personal protective equipment (PPE).

Emergency Procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective Equipment Equip cleanup crew with proper protection.

Emergency Procedures Upon arrival at the scene, a first responder is expected to

recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

## 6.3. Methods and Materials 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 Clean up spills immediately and dispose of waste safely.

Transfer spilled material to a suitable container for disposal.

Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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# **SECTION 7: Handling And Storage**

### 7.1. Precautions for Safe Handling

Precautions for Safe Handling Wash hands and other exposed areas with mild soap and

water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do NOT breathe (vapor,

mist, spray).

Hygiene Measures Handle in accordance with good industrial hygiene and safety

procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures Comply with applicable regulations.

Storage Conditions Keep container closed when not in use. Store in a dry, cool

place. Keep/Store away from direct sunlight, extremely high or

low temperatures and incompatible materials.

Incompatible Materials Strong acids, strong bases, strong oxidizers.

**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), 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		
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80 mg/m³/%SiO <sub>2</sub> )		
Titanium dioxide	Titanium dioxide (13463-67-7)			
USA ACGIH	ACGIH TWA (mg/m³)	(mg/m³) 10 mg/m³		
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen		
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)		
Octamethylcyclotetrasiloxane (556-67-2)				
USA AIHA	A AIHA WEEL TWA 10 ppm			

### 8.2. Exposure Controls

Appropriate Engineering 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 Chemically resistant materials and fabrics.

Clothing
Hand Protection
Wear protective gloves.

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Eye And Face Protection Chemical safety goggles.

Skin And Body Protection Wear suitable protective clothing.

Respiratory Protection 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.

## **SECTION 9: Physical and Chemical Properties**

### 9.1. Information on Basic Physical and Chemical Properties

Physical State Liquid
Appearance Black
Odor Odorless

Odor Threshold No data available Hq No data available **Evaporation Rate** No data available **Melting Point** No data available Freezing Point No data available **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) Not applicable Vapor Pressure No data available Relative Vapor Density at 20 °C No data available

Relative Density > 1

Solubility
Partition Coefficient n-Octanol/Water
Viscosity
No data available
No data available
No data available

### 9.2. Other Information

No additional information available

# **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, and incompatible materials.

### 10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

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### 10.6. Hazardous Decomposition Products

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

ACUTE TOXICITY	: NOT Classified
2,4,6-trimethyl-2,4,6-tris(3,3,3-trif	luoropropyl)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
Serious Eye Damage/Irritation	Not classified
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Titanium dioxide (13463-67-7)	
IARC group	2B

Reproductive Toxicity : Suspected of damaging fertility or the unborn

child.

In OSHA Hazard Communication Carcinogen list.

Specific Target Organ Toxicity (Single

**OSHA Hazard Communication** 

Exposure)

Carcinogen List

: Not classified

Specific Target Organ Toxicity (Repeated : Not classified

Exposure)

Aspiration Hazard Not classified

Symptoms/Injuries After Prolonged exposure may cause irritation.

Inhalation

Symptoms/Injuries After Skin Prolonged exposure may cause skin irritation.

Contact

Symptoms/Injuries After Eye May cause slight irritation to eyes.

Contact

Symptoms/Injuries After Ingestion may cause adverse effects.

Ingestion

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

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Titanium dioxide (13463-67-7)	
LC50 fish 1	> 1000 ml/l (Exposure Time: 96h - Species: Pimephales promelas
	(static)
Octamethylcyclotetrasiloxane (	556-67-2)
LC50 Fish	> 22 µg/l
NOEC Chronic Fish	0.0044 mg/l

### 12.2. Persistence and Degradability

CF2-3521-2 Part A	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

CF2-3521-2 Part A		
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 Dispose of contents/container in accordance with local,

Recommendations regional, national, and international regulations.

Additional Information Container may remain hazardous when empty. Continue to

observe all precautions.

Ecology - Waste Materials Keep out of sewers and waterways. Avoid release to the

environment.

# **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.

CF2-3521-2 Part A	
SARA Section 311/312 Hazard	Health hazard - Reproductive toxicity
Classes	

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### 15.2. US State 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

### Titanium dioxide (13463-67-7)

- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Illinois Toxic Air Contaminant Carcinogens
- 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 York Occupational Exposure Limits TWAs
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups
- 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

### Titanium dioxide (13463-67-7)

List	known to the State of California to cause
U.S California - Proposition 65 - Carcinogens	WARNING: This product contains chemicals

### 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

Date of Preparation or Latest 10/16/2023 Revision

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Other Information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

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
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
H226	Flammable liquid and vapor
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)
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.

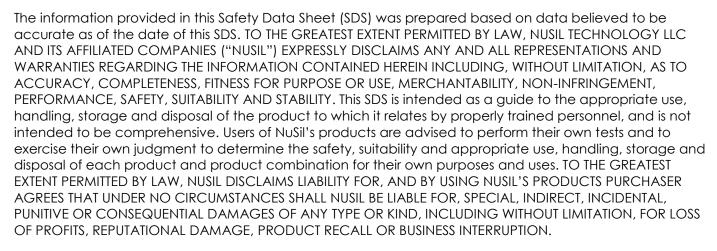
**HMIS III Rating** 

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



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### **SECTION 1: Identification**

### 1.1. Product Identifier

Product Form Mixture

Product Name CF2-3521-2 Part B

Synonyms Fluorosilicone Elastomer

### 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

**1.3. Details of the Supplier** 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

Number and Maritime)

### **SECTION 2: Hazards Identification**

# 2.1. Classification of the Substance or Mixture

# **GHS-US Classification**

Repr. 1B H360 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) 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-P:

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.

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### 2.3. Other Hazards

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

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

# **SECTION 3: Composition/Information On Ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product Identifier	%	GHS-US Classification
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica	(CAS No) 68909-20-6	10 - 30	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
Methyl vinylcyclosiloxane	(CAS-No.) 2554-06-5	< 1	Repr. 1B, H360
2,4,6-trimethyl-2,4,6-tris(3,3,3-trifluoropropyl)cyclotrisiloxane	(CAS-No.) 2374-14-3	< 0.25	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

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 where possible).
First-aid Measures After	When symptoms occur: go into open air and ventilate
Inhalation	suspected area. Obtain medical attention if breathing difficulty persists.
First-aid Measures After Skin Contact	Remove contaminated clothing. Drench affected area with water for at least 15 minutes. 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.
Conidci	Obtain medical attention.
First-aid Measures After	Rinse mouth. Do NOT induce vomiting. Obtain medical
Ingestion	attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries May damage fertility or the unborn child. Symptoms/Injuries After Prolonged exposure may cause irritation. Inhalation

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Symptoms/Injuries After Skin

Contact

Symptoms/Injuries After Eye

Contact

Ingestion

Symptoms/Injuries After Ingestion may cause adverse effects.

Chronic Symptoms May damage fertility or the unborn child.

Indication of Any Immediate Medical Attention and Special Treatment Needed If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

Prolonged exposure may cause skin irritation.

May cause slight irritation to eyes.

# **SECTION 5: Fire-Fighting Measures**

#### 5.1. **Extinguishing Media**

Suitable Extinguishina Media : Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media : Do not use a heavy water stream. Use of heavy stream of water

may spread fire.

### 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.

Hazardous reactions will not occur under normal conditions. Reactivity

5.3. Advice for Firefighters

Precautionary Measures Fire

Firefighting Instructions **Protection During Firefighting**  Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Do not enter fire area without proper protective equipment,

including respiratory protection.

### SECTION 6: Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment And Emergency Procedures

General Measures Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

6.1.1. For Non-Emergency Personnel

Protective Equipment Use appropriate personal protective equipment (PPE).

**Emergency Procedures** Evacuate unnecessary personnel.

6.1.2. For emergency responders

**Protective Equipment** Equip cleanup crew with proper protection.

**Emergency Procedures** Upon arrival at the scene, a first responder is expected to

recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

#### 6.2. **Environmental Precautions**

Prevent entry to sewers and public waters.

#### Methods and Materials for Containment and Cleaning Up 6.3.

Contain any spills with dikes or absorbents to prevent migration For Containment

and entry into sewers or streams.

Methods for Cleaning Up Clean up spills immediately and dispose of waste safely.

Transfer spilled material to a suitable container for disposal.

Contact competent authorities after a spill.

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### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

# **SECTION 7: Handling And Storage**

### 7.1. Precautions for Safe Handling

Precautions for Safe Handling Wash hands and other exposed areas with mild soap and

water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do NOT breathe (vapor,

mist, spray).

Hygiene Measures Handle in accordance with good industrial hygiene and safety

procedures.

## 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures Comply with applicable regulations.

Storage Conditions Keep container closed when not in use. Store in a dry, cool

place. Keep/Store away from direct sunlight, extremely high or

low temperatures and incompatible materials. Strong acids, strong bases, strong oxidizers.

Incompatible Materials
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), 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
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80 mg/m³/%SiO <sub>2</sub> )
Octamethylcyclotetrasiloxane (556-67-2)		
AHIA AZII	WFFI TWA	10 nnm

### 8.2. Exposure Controls

Appropriate Engineering Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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

Gloves. Profective cloining. Profective goggles. Insufficient



Chemically resistant materials and fabrics.

Materials For Protective

Clothing

Hand Protection Wear protective gloves. Eye And Face Protection Chemical safety goggles.

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Skin And Body Protection Wear suitable protective clothing.

Respiratory Protection 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.

# **SECTION 9: Physical and Chemical Properties**

### 9.1. Information on Basic Physical and Chemical Properties

Physical State Liquid
Appearance Colorless
Odor Odorless

Odor Threshold No data available No data available На **Evaporation Rate** No data available **Melting Point** No data available Freezing Point No data available **Boiling Point** No data available > 135 °C (275 °F) Flash Point **Auto-ignition Temperature** No data available **Decomposition Temperature** No data available Flammability (solid, gas) Not applicable Vapor Pressure No data available Relative Vapor Density at 20 °C No data available

Relative Density > 1

Solubility
Partition Coefficient n-Octanol/Water
Viscosity
No data available
No data available
No data available

### 9.2. Other Information

No additional information available

# **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

Direct sunlight, extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible materials

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

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### 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

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
2,4,6-trimethyl-2,4,6-tris(3,3,3-trifluoropropyl)cyclotrisiloxane (CAS 2374-14-3)	
LD50 oral rat	4659 ma/ka

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
Serious Eye Damage/Irritation
Respiratory or Skin Sensitization
Germ Cell Mutagenicity
Carcinogenicity
Not classified
Not classified
Not classified
Not classified

Reproductive Toxicity : May damage fertility or the unborn child.

Specific Target Organ Toxicity (Single : Not classified

Exposure)

Specific Target Organ Toxicity (Repeated : Not classified

Exposure)

Aspiration Hazard Not classified

Symptoms/Injuries After Prolonged exposure may cause irritation.

Inhalation

Symptoms/Injuries After Skin Prolonged exposure may cause skin irritation.

Contact

Symptoms/Injuries After Eye May cause slight irritation to eyes.

Contact

Symptoms/Injuries After Ingestion may cause adverse effects.

Ingestion

Chronic Symptoms May damage 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

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### 12.2. Persistence and Degradability

CF2-3521-2 Part B	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

CF2-3521-2 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 Dispose of contents/container in accordance with local,

Recommendations regional, national, and international regulations.

Additional Information Container may remain hazardous when empty. Continue to

observe all precautions.

Ecology - Waste Materials Keep out of sewers and waterways. Avoid release to the

environment.

# **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.

CF2-3521-2 Part B	
SARA Section 311/312 Hazard	Health hazard - Reproductive toxicity
Classes	

### 15.2. US State Regulations

Octamethylcyclotetrasiloxane (5	556-67-2)

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- 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

Date of Preparation or Latest

10/16/2023

Revision

Other Information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29

CFR 1910.1200.

## GHS Full Text Phrases:

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
Repr. 1B	Reproductive toxicity Category 1B
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
H226	Flammable liquid and vapor
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 (Oral)
H373	May cause damage to organs through prolonged or repeated exposure (dermal)
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

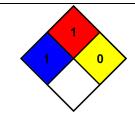
\* Chronic - Chronic (long-term) health effects may result from

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

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