Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 08/31/2022 Date of Issue: 09/25/2014





Version: 4.0

SECTION 1: Identification

1.1. Product Identifier

Product Form Product Name Synonyms Mixture MED-4971 Part A Silicone 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

Emergency800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International
and Maritime)

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture

GHS-US Classification

Repr. 2H361Aquatic Chronic 2H411Full text of hazard classes and H-statements: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) Hazard Statements (GHS-US) Warning H361 - Suspected of damaging fertility or the unborn child H411 - Toxic to aquatic life with long lasting effects

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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. P391 - Collect spillage. P405 - Store locked up.
	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 Exposure may aggravate pre-existing eye, skin, or respiratory 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-	(CAS No) 68909-20-6	20 - 40	Not classified
(trimethylsilyl)-, hydrolysis products with silica			
Octamethylcyclotetrasiloxane	(CAS-No.) 556-67-2	< 1	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	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	Rinse mouth. Do NOT induce vomiting. Obtain medical
Ingestion	attention.
09/21/2022 ENL/Enc	Nich (15)

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4.2. Most Important Symptoms and Effects Both Acute and Delayed

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.
Contact	
Symptoms/Injuries After	Ingestion may cause adverse effects.
Ingestion	
Chronic Symptoms	Suspected of damaging fertility or the unborn child.
4.3. Indication of Any Immedia	ate 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 F	rom 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 Pers	sonnel
Protective Equipment	Use appropriate personal protective equipment (PPE).
Emergency Procedures	Evacuate unnecessary personnel.
6.1.2. For emergency responde	ers
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.

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Methods and Materials for Containment and Cleaning Up 6.3.

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 Section	ns

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	ge, Including Any Incompatibilities
Technical Measures	Comply with applicable regulations.
Storage Conditions	Keep container closed when not in use. Store in a dry, cool
0	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) (mppcf)	20 mppcf (80 mg/m³/%SiO ₂)

8.2. **Exposure Controls**

Appropriate Engineering
Controls

Personal Protective Equipment

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.

Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



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Materials For Protective Clothing	Chemically resistant materials and fabrics.
Hand Protection	Wear protective gloves.
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	Colorless
Odor	Odorless
Odor Threshold	No data available
рН	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	>]
Solubility	No data available
Partition Coefficient n-Octanol/Water	No data available
Viscosity	No data available
0.0 Other Information	

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.

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10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

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			
Octamethylcyclotetrasiloxane (5	56-67-2)			
LD50 Oral Rat	1540 mg/kg			
LD50 Dermal Rabbit	794 µl/kg			
LC50 Inhalation Rat	36 g/m³ (Exposure time: 4 h)			
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			
Reproductive Toxicity	: Suspected of damaging 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 Inhalation	Prolonged exposure may cause irritation.			
Symptoms/Injuries After Skin Contact	Prolonged exposure may cause skin irritation.			
Symptoms/Injuries After Eye Contact	May cause slight irritation to eyes.			
Symptoms/Injuries After Ingestion	Ingestion may cause adverse effects.			
Chronic Symptoms	Suspected of damaging fertility or the unborn child.			

SECTION 12: Ecological Information

12.1. Toxicity

Ecology - General	Toxic 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			
MED-4971 Part A			
Persistence and Degradability	Not established.		

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12.3. Bioaccumulative Potential		
MED-4971 Part A		
Bioaccumulative Potential	Not established.	
Octamethylcyclotetrasiloxane (556-67-2)		
BCF Fish 1	12400	
Log Pow	5.1	

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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	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.

In Accordance with DOT 14.1.

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.
	(Octamethylcyclotetrasiloxane)

Hazard Class	9
Identification Number	UN3082
Label Codes	9
Packing Group	
Marine Pollutant	Marine pollutant
ERG Number	171
14.2. In Accordance wi	th IMDG
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Octamethylcyclotetrasiloxane)
Hazard Class	9
Identification Number	UN3082
Packing Group	III
Label Codes	9
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-F
Marine Pollutant	Marine pollutant
14.3. In Accordance wi	th IATA
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Octamethylcyclotetrasiloxane)
Packing Group	III
08/31/2022	Eb1/Epglish US1

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Identification Number	UN3082	
Hazard Class	9	
Label Codes	9	
ERG Code (IATA)	9L	

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, are not listed, not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

MED-4971 Part A				
SARA Section 311/312 Hazard	12 Hazard Health hazard - Reproductive toxicity			
Classes				
15.2. US State Regulations				
Silanamine, 1,1,1-trimethyl-N-(tri	methylsilyl)-, hydrolysis products with silica (68909-20-6)			
U.S Texas - Effects Screening Le	vels - Long Term			
U.S Texas - Effects Screening Le	vels - Short Term			
Octamethylcyclotetrasiloxane (556-67-2)				
U.S Maine - Chemicals of High	Concern			
U.S Minnesota - Chemicals of High Concern				
U.S Minnesota - Chemicals of High Concern - Persistent Bioaccumulative Toxins				
U.S Oregon - Priority Persistent Pollutant - Tier I - Persistent Pollutants				
U.S California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical				
Groups				
U.S Texas - Effects Screening Levels - Long Term				
U.S Texas - Effects Screening Levels - Short Term				

SECTION 16: Other Information, Including Date of Preparation or Last Revision

Date of Preparation or Latest Revision	08/31/2022
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 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Flam. Liq. 3	Flammable liquids Category 3
Repr. 2	Reproductive toxicity Category 2
H226	Flammable liquid and vapor
H361	Suspected of damaging fertility or the unborn child
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
A Health Hazard	1 - Materials that under emergency

NFPA Health Hazard

1 - Materials that, under emergency

conditions, can cause significant irritation.

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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	 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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NUSII US GHS SDS

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According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 08/31/2022 Date of Issue: 09/25/2014





Version: 3.0

SECTION 1: Identification

1.1. Product Identifier

Product Form Product Name Synonyms Mixture MED-4971 Part B Silicone 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

Emergency800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International
and Maritime)

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture

GHS-US Classification

Eye Irrit. 2AH319Repr. 2H361Aquatic Chronic 2H411

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

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) Hazard Statements (GHS-US)

Precautionary Statements (GHS-

Warning H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

H411 - Toxic to aquatic life with long lasting effects

P201 - Obtain special instructions before use.

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

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

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P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, and eye protection.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P337+P313 - If eye irritation persists: Get medical advice/attention.

P391 - Collect spillage.

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.

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	20 - 40	Not classified
Siloxanes and Silicones, dimethyl, methyl hydrogen	(CAS No) 68037-59-2	< 10	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Octamethylcyclotetrasiloxane	(CAS-No.) 556-67-2	< 1	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 1, H410
3-Butyn-2-ol, 2-methyl-	(CAS No) 115-19-5	< 1	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Repr. 2, H361 STOT SE 3, H336

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
First-aid Measures After Skin Contact	persists. 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	Rinse mouth. Do NOT induce vomiting. Obtain medical
Ingestion	attention.
4.2. Most Important Symptoms	and Effects Both Acute and Delayed
Symptoms/Injuries	Causes serious eye irritation. Suspected of damaging fertility or the unborn child.
Symptoms/Injuries After Inhalation	Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact	Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact	Contact causes severe irritation with redness and swelling of the conjunctiva.
Symptoms/Injuries After Ingestion	Ingestion may cause adverse effects.
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 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.

6.3. Methods and Materials for Containment and Cleaning Up

Contain any spills with dikes or absorbents to prevent migration
and entry into sewers or streams.
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.

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 Storag	ge, 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/m ³
USA OSHA	OSHA PEL (TWA) (mppcf)	20 mppcf (80 mg/m³/%SiO2)

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. Gloves. Protective clothing. Protective goggles. Insufficient

Personal Protective Equipment

ventilation: wear respiratory protection.



When using, do not eat, drink or smoke.

Chemically resistant materials and fabrics.

Materials For Protective Wear protective gloves. 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

Clothing

Hand Protection

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
рН	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

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Relative Vapor Density at 20 °C Relative Density Solubility Partition Coefficient n-Octanol/Water Viscosity No data available > 1 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 at normal conditions.

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.

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	
Octamethylcyclotetrasiloxane (556-67-2)		
LD50 Oral Rat	1540 mg/kg	
LD50 Dermal Rabbit	794 µl/kg	
LC50 Inhalation Rat	36 g/m ³ (Exposure time: 4 h)	
3-Butyn-2-ol, 2-methyl- (115-19-	5)	
LD50 oral rat	1420 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	21.3 mg/l/4h	
LC50 inhalation rat (mg/l)	> 21.3 mg/l/4h	
Skin Corrosion/Irritation	Not classified	
Serious Eye Damage/Irritation	Causes serious eye irritation.	
Respiratory or Skin Sensitization	Not classified	
Germ Cell Mutagenicity	Not classified	
Carcinogenicity	Not classified	
Reproductive Toxicity	: Suspected of damaging fertility or the unborn child.	
Specific Target Organ Toxicity (S Exposure)	ingle : Not classified	
09/21/2022	(21)	

Specific Target Organ Toxicity (Re Exposure)	epeated : Not classified
Aspiration Hazard	Not classified
Symptoms/Injuries After Inhalation	Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact	Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact	Contact causes severe irritation with redness and swelling of the conjunctiva.
Symptoms/Injuries After Ingestion	Ingestion may cause adverse effects.
Chronic Symptoms	Suspected of damaging fertility or the unborn child.

SECTION 12: Ecological Information

12.1. Toxicity

Ecology - General	Toxic to aquatic life with long lasting effects.	
Octamethylcyclotetrasiloxane (556-67-2)	
LC50 Fish	> 22 µg/l	
NOEC Chronic Fish	0.0044 mg/l	
3-Butyn-2-ol, 2-methyl- (115-19-	5)	
LC50 fish 1	3120 (3120 - 3480) mg/I (Exposure time: 96 h - Species:	
	Pimephales promelas [flow-through])	
EC50 Daphnia 1	500 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 other aquatic organisms 1		
	subspicatus)	
LC50 fish 2	2200 (2200 - 4600) mg/l (Exposure time: 96 h - Species:	
	Leuciscus idus [static])	
EC50 other aquatic organisms 2		
	subspicatus)	
12.2. Persistence and Degrad	ability	
MED-4971 Part B		
Persistence and Degradability	e and Degradability Not established.	
12.3. Bioaccumulative Potent	ial	
MED-4971 Part B		
Bioaccumulative Potential	Not established.	
Octamethylcyclotetrasiloxane (556-67-2)	
BCF Fish 1	12400	
Log Pow	5.1	
3-Butyn-2-ol, 2-methyl- (115-19-	5)	
Log Pow	0.318 (at 25 °C)	
12.4. Mobility In Soil		
No additional information availab	ble	

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	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

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Octamethylcyclotetrasiloxane)
Hazard Class Identification Number Label Codes Packing Group Marine Pollutant ERG Number	9 UN3082 9 III Marine pollutant 171
14.2. In Accordance wit	h IMDG
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Octamethylcyclotetrasiloxane)
Hazard Class Identification Number Packing Group Label Codes EmS-No. (Fire) EmS-No. (Spillage) Marine Pollutant 14.3. In Accordance wit	9 UN3082 III 9 F-A S-F Marine pollutant
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Packing Group Identification Number Hazard Class Label Codes ERG Code (IATA)	(Octamethylcyclotetrasiloxane) III UN3082 9 9 9

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, are not listed, not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

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SARA Section 311/312 Hazard	Health hazard - Reproductive toxicity				
Classes	Health hazard – Eye irritation				
5.2. US State Regulations					
Silanamine, 1,1,1-trimethyl-N-(tri	methylsilyl)-, hydrolysis products with silica (68909-20-6)				
U.S Texas - Effects Screening Levels - Long Term					
U.S Texas - Effects Screening Levels - Short Term					
Octamethylcyclotetrasiloxane (5	556-67-2)				
U.S Maine - Chemicals of High Concern U.S Minnesota - Chemicals of High Concern					
U.S Minnesota - Chemicals of High Concern - Persistent Bioaccumulative Toxins					
U.S Oregon - Priority Persistent Pollutant - Tier I - Persistent Pollutants					
U.S California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical					
Groups					
U.S Texas - Effects Screening Levels - Long Term					
U.S Texas - Effects Screening Levels - Short Term					
3-Butyn-2-ol, 2-methyl- (115-19-	5				
RTK - U.S Massachusetts - Right To Know List					
RTK - U.S New Jersey - Right to Know Hazardous Substance List					
U.S New Jersey - Special Health Hazards Substances List					
RTK - U.S Pennsylvania - RTK (Rig	aht to Know) List				

SECTION 16: Other Information, Including Date of Preparation or Last Revision

08/31/2022

Date of Preparation or Latest 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:

Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
Repr. 2	Reproductive toxicity 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 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation

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	H318	Causes serious eye damage				
	H319	Causes serious eye irritation				
	H335	May cause respiratory irritation				
	H336	May cause drowsiness or dizziness				
	H361	Suspected of damaging fertility or the unborn child				
	H410	Very toxic to aquatic life with long lasting effects				
	H411	Toxic to aquatic life with long lasting effects				
		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		 Slight Hazard - Irritation or minor reversible injury possible Chronic - Chronic (long-term) health effects may result from repeated overexposure 				
Flam Physi	mability cal	1 Slight Hazard 0 Minimal Hazard				

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