Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of Revision: 02/06/2024 Date of Issue: 08/15/2013





Version: 5.0

# **SECTION 1: Identification**

## 1.1. Product Identifier

Product Form Product Name Synonyms Mixture R31-2186 Part A Silicone Adhesive

## 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<br/>and Maritime)

## **SECTION 2: Hazards Identification**

### 2.1. Classification of the Substance or Mixture

#### **GHS-US Classification**

Repr. 2H361Aquatic Chronic 3H412Full text of hazard classes and H-statements: see section 16

### 2.2. Label Elements

#### GHS-US Labeling

Hazard Pictograms (GHS-US)



Warning

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

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

H361 - Suspected of damaging fertility or the unborn child H412 - Harmful to aquatic life with long lasting effects

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 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	%	<b>GHS-US Classification</b>
Silanamine, 1,1,1-trimethyl-N- (trimethylsilyl)-, hydrolysis products with silica	(CAS-No.) 68909-20-6	10 - 30	Not classified
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.
-	and Effects Both Acute and Delayed
Symptoms/Injuries	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	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.

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### 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

6.1. Personal Precautions, Pro	fective 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 Person	nel
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 Storag	e, 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 7.3. Specific End Use(s) For professional use only.	Strong acids, strong bases, strong oxidizers.

## **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 <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80 mg/m <sup>3</sup> /%SiO <sub>2</sub> )
Octamethylcyclotetrasiloxane (556-67-2)		
USA AIHA	WEEL TWA	10 ppm

#### 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.



Materials For Protective Clothing Hand Protection Eye And Face Protection Skin And Body Protection

Chemically resistant materials and fabrics.

Wear protective gloves. Chemical safety goggles. Wear suitable protective clothing. Safety Data Sheet

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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
9.2 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.

### 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 (	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	Not classified Not classified Not classified Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	: Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity (Si Exposure)	ngle : Not classified
Specific Target Organ Toxicity (R 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	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	Harmful to aquatic life with long lasting effects.	
Octamethylcyclotetrasiloxane (556-67-2)		
LC50 Fish	> 22 µg/l	
NOFC Chronic Fish	0 0044 mg/l	

#### 12.2. Persistence and Degradability R31-2186 Part A

Persistence and Degradability May cause long-term adverse effects in the environment.

# 12.3. Bioaccumulative Potential

K31-2186 Part A		
<b>Bioaccumulative Potential</b>	Not established.	
Octamethylcyclotetrasiloxane	e (556-67-2)	
BCF Fish 1	12400	
Partition coefficient n-	6.488 (at 25.1 °C)	
octanol/water (Log Pow)		
02/04/2024 ENL/En		4.10

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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	This material is hazardous to the aquatic environment. 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, are not listed, not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

R31-2186 Part A	
SARA Section 311/312 Hazard	Health hazard - Reproductive toxicity
Classes	

#### 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	
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 Chemica	l
Groups	

Groups

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

Date of Preparation or Latest Revision	02/06/2024
Other Information	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.
	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
	H226	Flammable liquid and vapor
	H361	Suspected of damaging fertility or the unborn child
	H410	Very toxic to aquatic life with long lasting effects
	H412	Harmful to aquatic life with long lasting effects
NFPA	A Health Hazard	1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA Fire Hazard 1 - Materials t		1 - Materials that must be preheated before ignition can occur.
		0 - Material that in themselves are normally stable, even under fire conditions.
HMIS	III Rating	

azard - Irritation or minor reversible injury possible
c - Chronic (long-term) health effects may result from
d overexposure
azard
l Hazard

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#### NuSil US GHS SDS

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Version: 5.0

## **SECTION 1: Identification**

### 1.1. Product identifier

Product Form: MixtureProduct Name: R31-2186 Part BSynonyms: Silicone Adhesive

### 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 Maritime)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

#### **GHS-US classification**

Skin Irrit. 2	H315
Eye Irrit. 2A	H319
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)

Signal word (GHS-US) Hazard statements (GHS-US)

Precautionary statements (GHS-US)



- : Danger
- : H315 Causes skin irritation
  - H319 Causes serious eye irritation
  - H360 May damage fertility or the unborn child
  - H412 Harmful to aquatic life with long lasting effects
- Precautionary statements (GHS- : 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 eye protection, face protection, protective clothing, protective gloves.
P302+P352 - If on skin: Wash with plenty of water.
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.
P321 - Specific treatment (see Section 4 on this SDS).
P332+P313 - If skin irritation occurs: Get medical advice/attention.

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

P362+P364 - Take off contaminated clothing and wash it before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 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	10 - 30	Not classified
Siloxanes and Silicones, dimethyl, methyl hydrogen	(CAS No) 68037-59-2	< 20	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Methyl vinylcyclosiloxane	(CAS-No.) 2554-06-5	< 1	Repr. 1B, H360
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).

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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. Obtain medical attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.
1.2. Most important sympto	ms and effects, both acute and delayed
Symptoms/Injuries	: Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child.
Symptoms/Injuries After Inhalation	: Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact	: Redness, pain, swelling, itching, burning, dryness, and dermatitis.
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	: May damage fertility or the unborn child.

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

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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	: Avoid breathing (vapor, mist, spray). Avoid all contact with skin, eyes, or clothing.	
6.1.1. For non-emergency personnel		
Protective equipment	: Use appropriate personal protective equipment (PPE).	

Emergency procedures : Evacuate unnecessary personnel.

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6.1.2. For emergency respond	ders
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 preca	
Prevent entry to sewers and p	
6.3. Methods and materia	Il 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.

## **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. Avoid breathing vapors, mist, spray. Avoid contact with skin, eyes and clothing.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures.
7.2. Conditions for safe store	ige, 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	

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 <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80 mg/m <sup>3</sup> /%SiO <sub>2</sub> )
Octamethylcyclotetr	asiloxane (556-67-2)	
USA AIHA	WEEL TWA	10 ppm

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8.2. Exposure controls		
Appropriate engineering controls	: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Suitable eye/body wash equipment should be available in the vicinity of any potential exposure.	
Personal protective equipment	: Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.	
Materials for protective clothing	: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Suitable eye/body wash equipment should be available in the vicinity of any potential exposure.	
Hand protection	: Wear protective gloves.	
Eye protection	: Chemical safety goggles.	
Skin and body protection Respiratory protection	<ul> <li>Wear suitable protective clothing.</li> <li>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.</li> </ul>	
Other information	: When using, do not eat, drink or smoke.	
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# **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties 9.1.

	sical and chemical propertie
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	: No data available
Specific Gravity	: > 1 (water=1)
Solubility	: No data available
Partition coefficient: n-octanol/w	vater : No data available
Viscosity	: No data available
9.2. Other information	
VOC content	: < 1%

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## **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.

#### 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 > 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 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 ma/l/4hSkin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitization : Not classified : Not classified Germ cell mutagenicity Carcinogenicity : 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/effects after : Prolonged exposure may cause irritation. inhalation Symptoms/effects after skin : Redness, pain, swelling, itching, burning, dryness, and dermatitis. contact Symptoms/effects after eye : Contact causes severe irritation with redness and swelling of contact the conjunctiva. Symptoms/effects after : Ingestion may cause adverse effects. ingestion

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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		

#### 12.2. Persistence and degradability

	R3	<u>1-21</u>	86	Part	B
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Persistence and degradability May cause long-term adverse effects in the environment.

## 12.3. Bioaccumulative potential

R31-2186 Part B	
Bioaccumulative potential	Not established.
Octamethylcyclotetrasiloxane (	556-67-2)
BCF Fish 1	12400
Partition coefficient n- octanol/water (Log Pow)	6.488 (at 25.1 °C)

#### 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

Product/Packaging disposal	<ul> <li>Dispose of contents/container in accordance with local,</li></ul>
recommendations	regional, national, and international regulations. <li>Container may remain hazardous when empty. Continue to</li>
Additional information	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 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 not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

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R31-2186 Part B	
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	SARA Section 311/312 Hazard	Health hazard - Reproductive toxicity
	Classes	Health hazard - Skin corrosion or Irritation
		Health hazard - Serious eye damage or eye irritation

#### 15.2. US State regulations

Silanamine, 1,1,1-trimethyl-N-(trimethylsily	1)-, hydrolysis products with silica (68909-20-6	)
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U.S. - Texas - Effects Screening Levels - Long Term

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

#### 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 Revision	: 02/06/2024
Other information	: This document has been prepared in accordance with the SDS

requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
A Health Hazard	: 2 - Materials that, under emergency conditions, can cause temporary

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Full text of H-phrases:

incapacitation or residual injury.

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A	ccording to Federal Register / Vol. //, No. 58 / Monday, Marc	ch 26, 2012 / Rules and Regulations
	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	: 2 Moderate Hazard
		* Chronic - Chronic (long-term) health effects may result from repeated overexposure
	Flammability	: 1 Slight Hazard
	Physical	: 0 Minimal Hazard

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