

MED-1540

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 01/20/2020 Date of Issue: 12/13/2013



Version 3.0

SECTION 1: Identification

1.1. Product Identifier

Product Form Mixture
Product Name MED-1540
Synonyms 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
ehs@nusil.com
www.nusil.com

1.4. Emergency Telephone Number

Emergency Number 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 Corr. 1C H314
Eye Dam. 1 H318
Repr. 1B H360
Aquatic Acute 3 H402

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

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS05



GHS08

Signal Word (GHS-US)

Danger

Hazard Statements (GHS-US)

H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H360 - May damage fertility or the unborn child
H402 - Harmful to aquatic life

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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.
P260 - Do not breathe vapor, mist, spray.
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
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+310+313 - If exposed or concerned: Get medical advice/attention. Immediately call a poison center or doctor.
P321 - Specific treatment (see Section 4 on this SDS).
P363 - Wash contaminated clothing before reuse.
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	< 10	Not classified
Silanetriol, methyl-, triacetate	(CAS-No.) 4253-34-3	< 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318
Silanetriol, ethyl-, triacetate	(CAS-No.) 17689-77-9	< 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
Dibutyltin diacetate	(CAS-No.) 1067-33-0	< 0.3	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Muta. 2, H341

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			Repr. 1B, H360 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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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	Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid Measures After Skin Contact	Remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
First-aid Measures After Eye Contact	Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid Measures After Ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries	Causes severe skin burns and eye damage. May damage fertility. May damage the unborn child.
Symptoms/Injuries After Inhalation	May be corrosive to the respiratory tract.
Symptoms/Injuries After Skin Contact	Causes severe irritation which will progress to chemical burns.
Symptoms/Injuries After Eye Contact	Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After Ingestion	May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic Symptoms	May damage 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.

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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	May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

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.
Other Information	Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment And Emergency Procedures

General Measures	Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.
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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. Avoid release to the environment.

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. As an immediate precautionary measure, isolate spill or leak area in all directions.
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. Cautiously neutralize spilled liquid.

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

Additional Hazards When Processed	May release corrosive vapors.
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Precautions for Safe Handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard. Do not breathe vapors, mist, and spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing.

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. Store in original container or corrosive resistant and/or lined container.

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/m ³)	6 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	20 mppcf (80mg/m ³ /%SiO ₂)

8.2. Exposure Controls

Appropriate Engineering Controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

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



Materials For Protective Clothing

Chemically resistant materials and fabrics. Corrosion-proof clothing.

Hand Protection

Wear protective gloves.

Eye And Face Protection

Chemical safety goggles and face shield.

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.

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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
Color	No data available
Odor	No data available
Odor Threshold	No data available
pH	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
Specific Gravity	> 1
Solubility	No data available
Partition Coefficient n-Octanol/Water	No data available
Viscosity	No data available

9.2. Other Information

VOC Content < 1 %

SECTION 10: Stability and Reactivity

10.1. Reactivity

May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

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

Thermal decomposition generates : Carbon oxides (CO, CO₂). Silicon oxides.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity (Oral) : Not classified

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Acute Toxicity (Dermal) : Not classified
Acute Toxicity (Inhalation) : Not classified

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Silanetriol, methyl-, triacetate (4253-34-3)	
LD50 Oral Rat	1437 - 1780 mg/kg
Silanetriol, ethyl-, triacetate (17689-77-9)	
LD50 Oral Rat	1460 mg/kg

Skin Corrosion/Irritation Causes severe skin burns and eye damage.
Serious Eye Damage/Irritation Causes serious eye damage.
Respiratory or Skin Sensitization Not classified
Germ Cell Mutagenicity Not classified
Carcinogenicity Not classified
Reproductive Toxicity : May damage fertility or the unborn child.
Specific Target Organ Toxicity (Single Exposure) : Not classified
Specific Target Organ Toxicity (Repeated Exposure) : Not classified
Aspiration Hazard Not classified
Symptoms/Injuries After Inhalation May be corrosive to the respiratory tract.
Symptoms/Injuries After Skin Contact Causes severe irritation which will progress to chemical burns.
Symptoms/Injuries After Eye Contact Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After Ingestion May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic Symptoms May damage fertility or the unborn child.

SECTION 12: Ecological Information

12.1. Toxicity

Ecology - General Harmful to aquatic life.

Dibutyltin diacetate (1067-33-0)	
EC50 Daphnia 1	0.75 (0.65 - 0.86) mg/l Exposure time: 48-Hour (Species: Daphnia magna)
ErC50 (Algae)	0.1 mg/l
EC50 Chronic	0.035 mg/l Exposure time: 72 hour (Species: Skeletonema costatum)
NOEC (Acute)	0.65 mg/l
NOEC Chronic Crustacea	0.32 mg/l (48-Hour EC50 Daphnia magna)

12.2. Persistence and Degradability

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Persistence and Degradability	Not established.
Dibutyltin diacetate (1067-33-0)	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

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Bioaccumulative Potential	Not established.

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Silanetriol, methyl-, triacetate (4253-34-3)	
Log Pow	0.25 KowWin
Dibutyltin diacetate (1067-33-0)	
Bioaccumulative Potential	Not established.

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, regional, national, and international regulations.

Recommendations

Additional Information

Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials

Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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. Except by transportation by aircraft, the transport classification does not apply to packages smaller than 5.0 L (1.3 gallons).

14.1. In Accordance with DOT

Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS Silanetriol, ethyl-, triacetate ; Silanetriol, methyl-, triacetate)

Hazard Class

8

Identification Number

UN3265

Label Codes

8

Packing Group

III

ERG Number

153



14.2. In Accordance with IMDG

Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS Silanetriol, ethyl-, triacetate ; Silanetriol, methyl-, triacetate)

Hazard Class

8

Identification Number

UN3265

Packing Group

III

Label Codes

8

EmS-No. (Fire)

F-A

EmS-No. (Spillage)

S-B

MFAG Number

153



14.3. In Accordance with IATA

Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS Silanetriol, ethyl-, triacetate ; Silanetriol, methyl-, triacetate)

Packing Group

III

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Identification Number UN3265
Hazard Class 8
Label Codes 8
ERG Code (IATA) 8L



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 Classes	Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation Health hazard - Reproductive toxicity

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
Silanetriol, methyl-, triacetate (4253-34-3)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
Silanetriol, ethyl-, triacetate (17689-77-9)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
Dibutyltin diacetate (1067-33-0)
RTK - U.S. - Massachusetts - Right To Know List
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 01/20/2020

Revision

Other Information

This Document Has Been Prepared In Accordance With The Sds Requirements Of The Osha Hazard Communication Standard 29 Cfr 1910.1200 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:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1

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Eye Dam. 1	Serious eye damage/eye irritation Category 1
Muta. 2	Germ cell mutagenicity Category 2
Repr. 1B	Reproductive toxicity Category 1B
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Sens. 1B	Skin sensitization, category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H341	Suspected of causing genetic defects
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects

NFPA Health Hazard

3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA Fire Hazard

1 - Materials that must be preheated before ignition can occur.

NFPA Reactivity Hazard

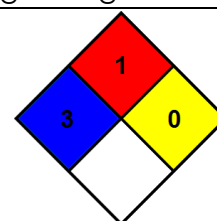
0 - Material that in themselves are normally stable, even under fire conditions.

HMIS III Rating
Health

3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
* Chronic - Chronic (long-term) health effects may result from repeated overexposure

Flammability
Physical

1 Slight Hazard
0 Minimal Hazard



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