

SECTION 1: Identification of the Substance/mixture and of the Company/Undertaking

1.1. Product Identifier

Product form Mixture
Product Name MED-1000

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

1.2.1. Relevant Identified Uses

Use of the Substance/Mixture For professional use only.

1.2.2. Uses Advised Against

No additional information available

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

Classification According to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315

Eye Dam. 1 H318

Full text of hazard classes and H-statements : see section 1.6

2.2. Label Elements

Labelling According to Regulation (EC) No. 1272/2008 [CLP]

Hazard Pictograms (CLP)



GHS05

Danger

Signal Word (CLP)

Hazardous Ingredients

Silanetriol, ethyl-, triacetate

Hazard Statements (CLP)

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Precautionary Statements (CLP)

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

P280 - Wear eye 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

MED-1000

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor
P321 - Specific treatment (see Section 4 on this SDS)
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other Hazards

Other Hazards Not Contributing to the Classification

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

Unknown Aquatic Toxicity

70-80 percent of the mixture consists of ingredients of unknown aquatic toxicity.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixture

| Name | Product Identifier | % | Classification According to Regulation (EC) No. 1272/2008 [CLP] |
|----------------------------------|--|-----|--|
| Silanetriol, ethyl-, triacetate | (CAS-No.) 17689-77-9 (EC-No.) 241-677-4 | < 4 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 |
| Silanetriol, methyl-, triacetate | (CAS-No.) 4253-34-3 (EC-No.) 224-221-9 | < 1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 |

Full text of H-statements: 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. Obtain medical attention if irritation develops or persists. Immediately drench affected area with water for at least 15 minutes.

First-Aid Measures After Eye Contact

Immediately rinse 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 medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Effects

Causes skin irritation. Causes serious eye damage.

Symptoms/Effects After Inhalation

Prolonged exposure may cause irritation.

MED-1000

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|-------------------------------------|---|
| Symptoms/Effects After Skin Contact | Redness, pain, swelling, itching, burning, dryness, and dermatitis. |
| Symptoms/Effects After Eye Contact | Causes permanent damage to the cornea, iris, or conjunctiva. |
| Symptoms/Effects After Ingestion | Ingestion may cause adverse effects. |

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: Firefighting Measures

5.1. Extinguishing Media

| | |
|--------------------------------|---|
| Suitable Extinguishing Media | Water spray, fog, carbon dioxide (CO ₂), alcohol-resistant foam, or dry chemical. |
| Unsuitable Extinguishing Media | Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. 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. |
| Hazardous Decomposition Products in Case of Fire | Carbon oxides (CO, CO ₂). Silicon oxides. Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapours. Formaldehyde is a potential carcinogen and can act as a skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation. |

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 breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing. |
|------------------|---|

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.

MED-1000

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

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. Do not get in eyes, on skin, or on 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.

Incompatible Materials

Strong acids. Strong bases.

7.3. Specific End Use(S)

No additional information available

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

No additional information available

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.

Personal Protective Equipment



Materials for Protective Clothing

Chemically resistant materials and fabrics.

Hand Protection

Wear protective gloves.

Eye 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.

MED-1000

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 9: Physical and Chemical Hazards

9.1. Information on Basic Physical and Chemical Properties

| | |
|---------------------------------------|---------------------|
| Physical State | Liquid |
| Appearance | Colorless paste |
| Colour | Translucent |
| Odour | Acetic acid |
| Odour 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 |
| Vapour Pressure | No data available |
| Relative Vapour Density At 20 °C | No data available |
| Relative Density | > 1 |
| Solubility | No data available |
| Partition Coefficient n-Octanol/Water | No data available |
| Viscosity, Kinematic | No data available |
| Viscosity, Dynamic | No data available |
| Explosive Properties | No data available |
| Oxidising Properties | No data available |
| Explosive Limits | No data available |

9.2. Other Information

VOC content < 1 %

SECTION 10: Stability and Reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability

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

10.3. Possibility Of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions To Avoid

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

10.5. Incompatible Materials

Strong acids. Strong bases.

10.6. Hazardous Decomposition Products

None expected under normal conditions of use.

SECTION 11: Toxicological Information

11.1. Information On Toxicological Effects

Acute Toxicity Not classified

Silanetriol, ethyl-, triacetate (17689-77-9)

MED-1000

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|--|-------------------|
| Silanetriol, ethyl-, triacetate (17689-77-9) | |
| LD50 Oral Rat | 1460 mg/kg |
| LD50 Oral | 1462 mg/kg |
| Silanetriol, methyl-, triacetate (4253-34-3) | |
| LD50 Oral Rat | 1437 - 1780 mg/kg |
| LD50 Oral | 1602 mg/kg |

| | |
|--|----------------------------|
| Skin Corrosion/Irritation | Causes skin irritation. |
| Eye Damage/Irritation | Causes serious eye damage. |
| Respiratory or Skin Sensitization | Not classified |
| Germ Cell Mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive Toxicity | Not classified |
| Specific Target Organ Toxicity (Single Exposure) | Not classified |
| Specific Target Organ Toxicity (Repeated Exposure) | Not classified |
| Aspiration Hazard | Not classified |

SECTION 12: Ecological Information

12.1. Toxicity

Ecology - General Not classified.

12.2. Persistence and Degradability

| | |
|-------------------------------|------------------|
| MED-1000 | |
| Persistence and Degradability | Not established. |

12.3. Bioaccumulative Potential

| | |
|--|------------------|
| MED-1000 | |
| Bioaccumulative potential | Not established. |
| Silanetriol, methyl-, triacetate (4253-34-3) | |
| Log Pow | 0,25 KowWin |

12.4. Mobility in Soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other Adverse Effects

Other Information Avoid release to the environment.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

| | |
|----------------------------|--|
| Product/Packaging 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. |

MED-1000

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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 ADR / RID / IMDG / IATA / ADN

| |
|---|
| 14.1. UN Number |
| Not regulated for transport |
| 14.2. UN Proper Shipping Name |
| Not regulated for transport |
| 14.3. Transport Hazard Class(Es) |
| Not regulated for transport |
| 14.4. Packing Group |
| Not regulated for transport |
| 14.5. Environmental Hazards |
| Not regulated for transport |

14.6. Special Precautions For User

No additional information available

14.7. Transport in Bulk According to Annex II of MARPOL and The IBC Code

Not applicable

SECTION 15: Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

15.1.1. EU-Regulations

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

| |
|--|
| Silanetriol, ethyl-, triacetate (17689-77-9) |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |
| Silanetriol, methyl-, triacetate (4253-34-3) |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

15.1.2. National Regulations

No additional information available

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

SECTION 16: Other Information

Indication of Changes

| Section | Section Header | Change | Date Changed |
|---------|---|----------|--------------|
| 2.1 | Classification According to Regulation (EC) No. 1272/2008 [CLP] | Modified | 15/06/2018 |
| 3.2 | Composition/information on ingredients | Modified | 15/06/2018 |
| 14 | Transport hazard class(es) | Removed | 15/06/2018 |

Date of Preparation or Latest Revision 15/06/2018

MED-1000

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Data Sources

Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS. According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Other Information

Full Text of H- and EUH-statements:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1C |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists
ADN - European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
BEI - Biological Exposure Indices (BEI)
BOD - Biochemical Oxygen Demand
CAS No. - Chemical Abstracts Service Number
CLP - Classification, Labeling and Packaging Regulation (EC) No 1272/2008
COD - Chemical Oxygen Demand
EC - European Community
EC50 - Median Effective Concentration
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Chemical Substances
EmS-No. (Fire) - IMDG Emergency Schedule Fire
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage
EU - European Union
ErC50 - EC50 in Terms of Reduction Growth Rate
GHS - Globally Harmonized System of Classification and Labeling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC Code - International Bulk Chemical Code
IMDG - International Maritime Dangerous Goods
IPRV - Ilgalaikio Poveikio Ribinis Dydis
IOELV - Indicative Occupational Exposure Limit Value
LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-Observed-Effect Concentration
Log Koc - Soil Organic Carbon-water Partitioning Coefficient
Log Kow - Octanol/water Partition Coefficient
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water
MAK - Maximum Workplace Concentration/Maximum Permissible Concentration

MARPOL - International Convention for the Prevention of Pollution
NDS - Najwyższe Dopuszczalne Stezenie
NDSCh - Najwyższe Dopuszczalne Stezenie Chwilowe
NDSP - Najwyższe Dopuszczalne Stezenie Pulapowe
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
NRD - Nevirsytinas Ribinis Dydis
NTP - National Toxicology Program
OEL - Occupational Exposure Limits
PBT - Persistent, Bioaccumulative and Toxic
PEL - Permissible Exposure Limit
pH - Potential Hydrogen
REACH - Registration, Evaluation, Authorisation, and Restriction of Chemicals
RID - Regulations Concerning the International Carriage of Dangerous Goods by Rail
SADT - Self Accelerating Decomposition Temperature
SDS - Safety Data Sheet
STEL - Short Term Exposure Limit
TA-Luft - Technische Anleitung zur Reinhaltung der Luft
TEL TRK - Technical Guidance Concentrations
ThOD - Theoretical Oxygen Demand
TLM - Median Tolerance Limit
TLV - Threshold Limit Value
TPRD - Trumpalaikio Poveikio Ribinis Dydis
TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern
TRGS 552 - Technische Regeln für Gefahrstoffe - N-Nitrosamine
TRGS 900 - Technische Regel für Gefahrstoffe 900 - Arbeitsplatzgrenzwerte
TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
VOC - Volatile Organic Compounds
VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
VLA-ED - Valor Límite Ambiental Exposición Diaria
VLE - Valeur Limite D'exposition
VME - Valeur Limite De Moyenne Exposition
vPvB - Very Persistent and Very Bioaccumulative
WEL - Workplace Exposure Limit
WGK - Wassergefährdungsklasse

Nusil EU GHS SDS

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MED-1000

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

This SDS is intended as a guide to the appropriate use, handling, storage and disposal of the product to which it relates by properly trained personnel, and is not intended to be comprehensive. Users of NuSil's products are advised to perform their own tests and to exercise their own judgment to determine the safety, suitability and appropriate use, handling, storage and disposal of each product and product combination for their own purposes and uses. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL DISCLAIMS LIABILITY FOR, AND BY USING NUSIL'S PRODUCTS PURCHASER AGREES THAT UNDER NO CIRCUMSTANCES SHALL NUSIL BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.



Polymer Systems Technology Limited

Silicone Sales & Services UK - Ireland - Benelux

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Unit 2. Network 4. Cressex Business Park,
Lincoln Road, High Wycombe, Bucks. HP12 3RF

tel: +44 (0) 1494 446610

web: <https://www.silicone-polymers.com>

email: sales@silicone-polymers.co.uk

