

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Revision Date: 03/03/2023 Date of Issue: 01/08/2013

Version: 4.0

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY /UNDERTAKING

1.1. Product Identifier

Product Form Mixture
Product Name MED-1137

Synonyms Silicone Adhesive

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

Uses Advised Against No additional information available

1.3. Details of the Supplier of the Safety Data Sheet

NuSil Technology Europe 1198 Avenue Maurice Donat

Le Natura Bt. 2 06250 Mougins

France

+33492969331

productstewardship@avantorsciencesgcc.com www.nusil.com

1.4. Emergency Telephone Number

Emergency Number +1 703-527-3887 CHEMTREC (International and Maritime)

800-424-9300 CHEMTREC (in US)

+(44)-870-8200418 +(353)-19014670

## **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1. Classification of the Substance or Mixture

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

Skin Corr. 1C H314 EyeDam.1 H318

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

2.2. Label Elements

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

Hazard Pictograms (CLP)

Signal Word (CLP) Danger

Hazard Statements (CLP) H314 - Causes severe skin burns and eye damage.

Precautionary Statements (CLP) P260 - Do not breathe mist, spray, vapours.

P264 - Wash hands, forearms, and exposed areas thoroughly

after handling.

P280 - Wear eye protection, face protection, protective

clothing, protective gloves.

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P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce	е
vomiting	

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340 - IF INHALED: Remove person to fresh air and keep 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.

P310 - Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see Section 4 on this label).

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.

EUH0I 4 - Reacts violently with water.

EUH208- Contains Dibutyltin diacetate(I 067-33-0). May

produce an allergic reaction.

# **EUH-statements**

#### 2.3. Other Hazards

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

Dodecamethylcyclohexasiloxane (540-97-6)	This substance meets the vPvB criteria of REACH regulation, annex XIII
Decamethylcyclopentasiloxane (541-02-6)	This substance meets the vPvBcriteria of REACH regulation, annex XIII

The substance/mixture does not contain substance(s) equal to or greater than 0.1% by weight that are present in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008
Silanetriol, methyl-, triacetate	(CAS-No.) 4253-34-3 (EC-No.) 224-221-9	< 5	Acute Tox. 4 (Oral), H302 Skin Corr. I C, H3I 4 Eye Dam. I, H318
Silanetriol, ethyl-, triacetate	(CAS-No.) 17689-77-9 (EC-No.) 241-677-4	< 5	Acute Tox. 4 (Oral), H302 Skin Corr. I B, H3I 4 Eye Dam. I, H318
Dodecamethylcyclohexasiloxane substance listed as REACH Candidate (Dodecamethylcyclohexasiloxane (D6))	(CAS-No.) 540-97-6 (EC-No.) 208-762-8	<	Not classified
Decamethylcyclopentasiloxane substance listed as REACH Candidate (Decamethylcyclopentasiloxane (D5))	(CAS-No.) 541-02-6 (EC-No.) 208-764-9	<	Not classified
Dibutyltin diacetate	(CAS-No.) 1067-33-0 (EC-No.) 213-928-8	< 0.25	Skin Corr. I B, H3I 4 Eye Dam. I, H318 Skin Sens. I B, H3I 7 Muta. 2, H34 I Repr. I B, H360 STOT SE I, H370 STOT RE I, H372

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	Aquatic Acute I, H400 (M=IO) Aquatic Chronic I, H410
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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 Remove to fresh air and keep at rest in a position comfortable

Inhalation for breathing. Immediately call a poison center or

doctor/physician.

First-Aid Measures After Skin Immediately remove contaminated clothing. Immediately flush

skin with plenty of water for at least 30 minutes. Get immediate

medical advice/attention.

First-Aid Measures After Eye 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 Rinse mouth. Do NOT induce vomiting. Obtain emergency

Ingestion medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Effects Causes severe skin burns and eye damage.
Symptoms/Effects After May be corrosive to the respiratory tract.

Inhalation

Symptoms/Effects After Skin Causes severe irritation which will progress to chemical burns.

Contact

Contact

Symptoms/Effects After Eye Causes permanent damage to the cornea, iris, or conjunctiva.

Contact

Symptoms/Effects After May cause burns or irritation of the linings of the mouth, throat,

Ingestion and gastrointestinal tract.

Chronic Symptoms None expected under normal conditions of use.

**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 Carbon dioxide, foam, sand, dry chemical powder.
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 May hydrolyze with water to form acetic acid. May react

exothermically with water releasing heat. Adding an acid to a

base or base to an acid may cause a violent reaction.

Hazardous Combustion

**Products** 

Carbon oxides (CO, CO2). Formaldehyde. Silicon oxides.

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Firefighting

#### 5.3. Advice for

**Firefighters** Precautionary Measures Fire Firefighting Instructions Protection During 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 breathe vapour, 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

recognise 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.

Cautiously neutralize spilled liquid. Absorb and/or contain spill with inert material. 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

Additional Hazards When May react with water to form acetic acid. May release

Processed corrosive vapours. Will decompose above 150 °C (> 300 °F)

releasing formaldehyde vapours.

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 vapours, mist, and spray.

Hygiene Measures Handle in accordance with good industrial hygiene and safety

procedures.

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

Technical Measures Comply with applicable regulations.

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# Storage Conditions

Store in accordance with applicable national storage class systems. 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. Store locked up/in a secure area.

Incompatible Materials

# 7.3. Specific End Use(s)

For professional use only

Strong acids, strong bases, strong oxidisers. Water.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

Please see section 16 for the legal basis of limit value information in section 8.I, including the national legislation or provision which gives rise to a given limit.

Tin organic compo	punds	
Austria	OEL TWA (Legal Basis:BGBI. II Nr. 254/2018)	0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)
Austria	OEL STEL (Legal Basis:BGBI. II Nr. 254/2018)	0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)
Austria	OEL Chemical Category (Legal Basis:BGBI.II Nr. 254/2018)	Skin notation except Tri-n-butyltin compounds
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	0,1 mg/m³
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	0,2 mg/m <sup>3</sup>
Belgium	OEL Chemical Category (Legal Basis:Royal Decree 21/01/2020)	Skin
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	0,1 mg/m³
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	0,1 mg/m³ (except Cyhexatin)
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	0,2 mg/m³ (except Cyhexatin)
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	0,1 mg/m <sup>3</sup>
Czech Republic	OEL Chemical Category (Legal Basis:Decree No. 107/2013)	Potential for cutaneous absorption
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	0,1 mg/m³ (except Tri-n-butyltin compounds)
Denmark	OEL Chemical Category (Legal Basis:BEK No. 698 of 28/05/2020)	Potential for cutaneous absorption
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	0,1 mg/m³
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	0,2 mg/m <sup>3</sup>
Estonia	OEL Chemical Category (Legal Basis:Regulation No. 105)	Skin notation
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	0,1 mg/m³
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	0,3 mg/m <sup>3</sup>
Finland	OEL Chemical Category HTP-ARVOT 2020)	Potential for cutaneous absorption
France	OEL STEL (Legal Basis:INRSED 984)	0,2 mg/m <sup>3</sup>
France	OEL TWA (Legal Basis:INRS ED 984)	0,1 mg/m³
Greece	OEL TWA (Legal Basis:PWHSE)	0,1 mg/m <sup>3</sup>
Greece	OEL STEL (Legal Basis:PWHSE)	0,2 mg/m <sup>3</sup>
Greece	OEL Chemical Category (Legal Basis:PWHSE)	skin - potential for cutaneous absorption
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	0,02 mg/m³
Hungary	OEL Chemical Category (Legal Basis:Decree No. 05/2020)	Potential for cutaneous absorption
Ireland	OEL TWA (Legal Basis:2020 COP)	0,1 mg/m³
Ireland	OEL STEL (Legal Basis:2020 COP)	0,2 mg/m <sup>3</sup>
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	0,1 mg/m³
USA ACGIH	OEL STEL (Legal Basis:IMDFN1)	0,2 mg/m <sup>3</sup>
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	0,1 mg/m³
Lithuania	OEL STEL (Legal Basis:HN 23:2011)	0,2 mg/m³
Lithuania	OEL Chemical Category (Legal Basis:HN 23:2011)	Skin notation
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	0,1 mg/m³
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	0,3 mg/m³ (value calculated)
Norway	OEL Chemical Category (Legal Basis:FOR-2020-04-06-695)	Skin notation
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	0,1 mg/m <sup>3</sup>
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	0,2 mg/m <sup>3</sup>

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Portugal	OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014)	A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure
Romania	OEL TWA (Legal Basis:Gov. Dec. No I.218)	0,05 mg/m <sup>3</sup>
Romania	OEL STEL (Legal Basis:Gov. Dec. No I .218)	0,15 mg/m <sup>3</sup>
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	0,l mg/m³
Slovakia	OEL STEL (Legal Basis:Gov. Decree 33/2018)	0,2 mg/m <sup>3</sup>
Slovakia	OEL Chemical Category (Legal Basis:Gov. Decree 33/2018)	Potential for cutaneous absorption
Spain	OEL TWA (Legal Basis:OELCAIS)	0,l mg/m³
Spain	OEL STEL (Legal Basis:OELCAIS)	0,2 mg/m <sup>3</sup>
Spain	OEL Chemical Category (Legal Basis:OELCAIS)	skin - potential for cutaneous absorption
Sweden	OEL TLV (Legal Basis:AFS 2018:I)	0,I mg/m³ (total dust)
Sweden	OEL STEL (Legal Basis:AFS 2018:I)	0,2 mg/m³ (total dust)
Sweden	OEL Chemical Category (Legal Basis:AFS 2018:I)	Skin notation
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	0,2 mg/m³ (inhalable dust)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	0,l mg/m³ (inhalable dust)
Switzerland	OEL Chemical Category (Legal Basis:OLVSNAIF)	Skin notation

#### 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.

Personal Protective Equipment

Ensure all national/local regulations are observed.

Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection. Personal protective equipment should be chosen in accordance with Regulation (EU) 2016/425, CEN standards, and in discussion with the supplier of the protective equipment.











Materials for Protective Clothing

Chemically resistant materials and fabrics. Corrosion-proof clothina.

Hand Protection **Eve Protection** 

Skin and Body Protection **Respiratory Protection** 

Wear protective gloves.

Chemical safety goggles and face shield.

Wear suitable protective clothing.

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.

When using, do not eat, drink or smoke. Other Information

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

**Physical State** Liquid Colourless Colour, Appearance

No data available Odour Odour Threshold No data available pН No data available **Evaporation Rate** No data available Melting Point No data available Freezing Point No data available **Boiling Point** No data available

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Flash Point	> 135 oc (275 °F)
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability	No data available
Vapour Pressure	No data available
Relative Vapour Density At 20 °C	No data available
Relative Density	1,07 (water = 1)
Solubility	No data available
Partition Coefficient n-Octanol/Water	No data available
Viscosity	No data available
Explosive Properties	No data available
Oxidising Properties	No data available
Explosive Limits	No data available
Particle Aspect Ratio	Not applicable
Particle Aggregation State	Not applicable
Particle Agglomeration State	Not applicable
Particle Specific Surface Area	Not applicable
Particle Dustiness	Not applicable
9.2. Other Information	
VOE content	< 1 %

# **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

May hydrolyze with water to form acetic acid. 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 polymerisation 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 oxidisers. Water.

#### 10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO2). Corrosive vapours. Silicon oxides. Will decompose above 150 °C (>300° F) releasing formaldehyde vapours. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitiser. Formaldehyde can also cause respiratory and eye irritation.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

# 11.1. Information On Hazard Classes As Defined In Regulation (EC) No 1272/2008

Likely Routes of Exposure Dermal; Eye contact; Ingestion; Inhalation

Acute Toxicity (Oral) Not classified (Based on available data, the classification

criteria are not met)

Acute Toxicity (Dermal) Not classified (Based on available data, the classification

criteria are not met)

Acute Toxicity (Inhalation) Not classified (Based on available data, the classification

criteria are not met)

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Silanetriol, methyl-, triacetate (4253-34-3)			
LD50 Oral Rat	1437 - 1780 mg/kg		
LD50 Oral	1602 mg/kg		
Silanetriol, ethyl-, triacetate (17689-77-9)			
LD50 Oral Rat	1460 mg/kg		
LD50 Oral	1462 mg/kg		
Dibutyltin diacetate (1067-33-0)			
LD50 Oral	32 mg/kg		
Decamethylcyclopentasiloxane (541-02-6)			
LD50 Oral Rat	> 5000 mg/kg (Species: Sprague-Dawley)		
LD50 Dermal Rabbit	> 2000 mg/kg (Species: New Zealand White) No deaths reported		
LC50 Inhalation Rat	8,67 mg/l/4h		
Dodecamethylcyclohexasiloxane (540-97-6)			
LD50 Oral Rat	> 50 g/kg		
LD50 Dermal Rat	> 2000 mg/kg No deaths		
Skin Corrosion/Irritation	Causes severe skin burns.		
Eye Damage/Irritation	Causes serious eye damage.		
Respiratory or Skin Sensitization	Not classified (Based on available data, the classification		
	criteria are not met)		
Germ Cell Mutagenicity	Not classified (Based on available data, the classification		
	criteria are not met)		
Carcinogenicity	Not classified (Based on available data, the classification		
Caremogermenty	criteria are not met)		
Depre directive Tavicity	•		
Reproductive Toxicity	Not classified (Based on available data, the classification		
O 10 T 10 T 11	criteria are not met)		
Specific Target Organ Toxicity	Not classified (Based on available data, the classification		
(Single Exposure)	criteria are not met)		
Specific Target Organ Toxicity	Not classified (Based on available data, the classification		
(Repeated Exposure)	criteria are not met)		
Aspiration Hazard	Not classified (Based on available data, the classification		
	criteria are not met)		
Symptoms/Injuries After	May be corrosive to the respiratory tract.		
Inhalation	, 10 10 10 110 100p		
Symptoms/Injuries After Skin	Causes severe irritation which will progress to chemical burns.		
Contact	Caaba do voro irritation will progress to shormal barrie.		
Symptoms/Injuries After Eye	Causes permanent damage to the cornea, iris, or conjunctiva.		
Contact	Causes permanent damage to the cornea, ins, or conjunctiva.		
Symptoms/Injuries After	May cause burns or irritation of the linings of the mouth, throat,		
Ingestion	and gastrointestinal tract.		
Chronic Symptoms	None expected under normal conditions of use.		
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#### 11.2. Information On Other Hazards

Based on available data this substance/the substances in this mixture not listed below do(es) not have endocrine disrupting properties with respect to humans as it does not meet the criteria set out in section A of Regulation (EU) No 2017/2100 and/or the criteria set out in Regulation (EU) 2018/605, or the substance(s) are not required to be disclosed.

# **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

Hazardous To The Aquatic Not classified (Based on available data, the classification Environment, Short-Term (Acute) criteria are not met)

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Environment, Long-Term (Chronic)	criteria are not met)
Dibutyltin diacetate (1 067-33-0)	
EC50 Crustacea	0,65 - 0,86 mg/l Exposure time: 48-Hour (Species: Daphnia magna)
ErC50 Algae	0,1 mg/l
NOEC Acute	0,65 mg/l
NOEC Chronic Crustacea	0,32 mg/l (48-Hour EC50 Daphnia magna)

Not classified (Based on available data, the classification

#### 12.2. Persistence and Degradability

MED-1137	
Persistence and Degradability	Not established.

#### 12.3. Bioaccumulative Potential

MED-1137	
Bioaccumulative Potential	Not established.
Silanetriol, methyl-, triacetate (4253-34-3)	
Partition coefficient n-octanol/water (Log POW)	0,25 KowWin
Dibutyltin diacetate (1 067-33-0)	
Partition coefficient n-octanol/water (Log POW)	3,39 (at 20 °C (at pH 5)
Decamethylcyclopentasiloxane (541-02-6)	
Partition coefficient n-octanol/water (Log POW)	8,023 (at 25.3 °C)
Dodecamethylcyclohexasiloxane (540-97-6)	
Partition coefficient n-octanol/water (Log POW)	8,87 (at 23.6 °C)

# 12.4. Mobility in Soil

No additional information available

#### 12.5. Results of PBT and vPvB Assessment

Dodecamethylcyclohexasiloxane (540-97-6)	This substance meets the vPvB criteria of REACH regulation, annex XIII
Decamethylcyclopentasiloxane (541-02-6)	This substance meets the vPvB criteria of REACH regulation, annex XIII

#### 12.6. Endocrine Disrupting Properties

Based on available data this substance/the substances in this mixture not listed below do(es) not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100 and/or the criteria set out in Regulation (EU) 2018/605, or the substance(s) are not required to be disclosed.

#### 12.7. 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,

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.

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ADR	IMDG	1 4 - 4					
		IATA	AON	RID			
14.1. UN Number	or ID Number						
UN 3265	UN 3265	UN 3265	UN 3265	UN 3265			
14.2. UN Proper Shipping Name							
CORROSIVE	CORROSIVE	Corrosive liquid,	CORROSIVE	CORROSIVE			
LIQUID, ACIDIC,	LIQUID, ACIDIC,	acidic, organic,	LIQUID, ACIDIC,	LIQUID, ACIDIC,			
ORGANIC, N.O.S.	ORGANIC, N.O.S.	n.o.s. (Silanetriol,	ORGANIC, N.O.S.	ORGANIC, N.O.S.			
(Silanetriol, ethyl-,	(Silanetriol, ethyl-,	ethyl-, triacetate	(Silanetriol, ethyl-,	(Silanetriol, ethyl-,			
triacetate;	triacetate;	; Silanetriol,	triacetate;	triacetate;			
Silanetriol,	Silanetriol,	methyl-,	Silanetriol,	Silanetriol,			
methyl-,	methyl-,	triacetate)	methyl-,	methyl-,			
triacetate)	triacetate)		triacetate)	triacetate)			
14.3. Transport H	azard Class						
8	8	8	8	8			
14.4. Packing Group							
III	III	III	III	III			
14.5. Environmen	ntal Hazards						
Dangerous for	Dangerous for	Dangerous for	Dangerous for	Dangerous for			
the environment :	the environment:	the environment:	the environment :	the environment :			
No	No	No	No	No			
	Marine pollutant :						
	No						

# 14.6. Special Precautions For User

No additional information available

# 14.7. Maritime Transport in Bulk According to IMO instruments

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

# 15.1.1.1. REACH Annex XVII Information

Contains no REACH substances with Annex XVII restrictions

#### 15.1.1.2. REACH Candidate List Information

Contains a substance on the REACH candidate list in concentration 0.1% or with a lower specific limit: Decamethylcyclopentasiloxane (D5) (EC 208-764-9, CAS 541-02-6),

Dodecamethylcyclohexasiloxane (D6) (EC 208-762-8, CAS 540-97-6)

#### 15.1.1.3. POP (2019/1021) - Persistent Organic Pollutants Information

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

# **15.1.1.4. PIC Regulation EU (649/2012) - Export and Import of Hazardous Chemicals Information** Substances subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals: Dibutyltin compounds (1 067-33-0)

#### 15.1.1.5. REACH Annex XIV Information

Contains no REACH Annex XIV substances

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#### 15.1.1.6. Substances Depleting the Ozone layer (1005/2009) Information

No additional information available

15.1.1.7. EC Inventory Information

No additional information available

15.1.1.8. Other Information

No additional information available

15.1.2. National Regulations

No additional information available

15.1.3. International Inventory Lists

No additional information available

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

#### **SECTION 16: OTHER INFORMATION**

Date of Preparation or Latest Revision

**Data Sources** 

03/03/2023

Acute toxicity (oral), Category 4

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.

Other Information According to Regulation (EC) No. 1907/2006 (REACH) with

its amendment Regulation (EU) 2020/878

Full Text of H-statements:
Acute Tox. 4 (Oral)

( /	3 , ( ), 3 ,		
Aquatic Acute I	Hazardous to the aquatic environment - Acute Hazard, Category I		
Aquatic Chronic I	Hazardous to the aquatic environment - Chronic Hazard, Category I		
Eye Dam. I	Serious eye damage/eye irritation, Category I		
Н302	Harmful if swallowed.		
Н314	Causes severe skin burns and eye damage.		
Н317	May cause an allergic skin reaction.		
Н318	Causes serious eye damage.		
Н341	Suspected of causing genetic defects.		
Н360	May damage fertility or the unborn child.		
Н370	Causes damage to organs.		
Н372	Causes damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
Mula. 2	Germ cell mutagenicity, Category 2		
Repr. IB	Reproductive toxicity, Category IB		
Skin Corr. I B	Skin corrosion/irritation, Category I, Sub-Category IB		
Skin Corr. I C	Skin corrosion/irritation, Category I, Sub-Category IC		
Skin Sens. I B	Skin sensitisation, category IB		
STOT RE I	Specific target organ toxicity - Repealed exposure, Category I		
STOT SE I	Specific target organ toxicity- single exposure, Category I		
STOT RE I	Specific target organ toxicity - Repealed exposure, Category I		

Classification and Procedure Used to Derive the Classification for Mixtures According to Regulation (EC) 1272/2008 [CLP]:

Skin Corr. IC	Calculation method
Eye Dam. I	Calculation method

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# **Indication of Changes**

Section	Change	Date Changed	Version
1	Language modified	24/06/2015	2.0
	Language modified	17/06/2019	3.0
	Language modified	03/03/2023	4.0
2	Language modified	24/06/2015	2.0
2	Language modified	17/06/2019	3.0
2	Language modified	03/03/2023	4.0
3	Data modified; Language modified	24/06/2015	2.0
3	Data modified	17/06/2019	3.0
3	Data modified; Language modified	03/03/2023	4.0
4	Language modified	24/06/2015	2.0
4	Language modified	17/06/2019	3.0
4	Language modified	03/03/2023	4.0
5	Language modified	24/06/2015	2.0
5	Language modified	17/06/2019	3.0
5	Language modified	03/03/2023	4.0
6	Language modified	24/06/2015	2.0
6	Language modified	17/06/2019	3.0
6	Language modified	03/03/2023	4.0
7	Language modified	24/06/2015	2.0
7	Language modified	17/06/2019	3.0
7	Language modified	03/03/2023	4.0
8	Language modified	24/06/2015	2.0
8	Data modified; Language modified	03/03/2023	4.0
9	Data modified	17/06/2019	3.0
9	Data modified	03/03/2023	4.0
10	Language modified	24/06/2015	2.0
10	Language modified	17/06/2019	3.0
10	Language modified	03/03/2023	4.0
	Data modified; Language modified	17/06/2019	3.0
	Data modified; Language modified	24/06/2015	2.0
12	Data modified	24/06/2015	2.0
12	Data modified; Language modified	17/06/2019	3.0
12	Data modified; Language modified	03/03/2023	4.0
14	Language modified	24/06/2015	2.0
14	Language modified	17/06/2019	3.0
14	Language modified	03/03/2023	4.0
15	Language modified	24/06/2015	2.0
15	Language modified	17/06/2019	3.0
15	Language modified	03/03/2023	4.0
16	Language modified	24/06/2015	2.0
16	Language modified	17/06/2019	3.0
16	Language modified	03/03/2023	4.0

# **Abbreviations and Acronyms**

ACGIH - American Conference of Governmental Industrial Hygienists

AON - 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

 $\ensuremath{\mathsf{CLP}}$  - 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

NOS - Najwyzsze Dopuszczalne Stezenie

NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe

NDSP - Najwyzsze 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

STOT - Specific Target Organ Toxicity

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EmS-No. (Fire) - IMDG Emergency Schedule Fire

EmS-No. (Spillage) - IMDG Emergency Schedule Spillage

EU - European Union

ErC50- EC50 in Terms of Reduction Growth Role

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 - Ilgoloikio 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 - Octonol/woter 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 octonol and water

MAK - Maximum Workplace Concentration/Maximum

Permissible Concentration

MARPOL - International Convention for the Prevention of Pollution

TA-Luft - Technische Anleitung zur Reinhollung der Luft

TEL TRK- Technical Guidance Concentrations

ThOD - Theoretical Oxygen Demond

TLM - Median Tolerance Limit

TLV - Threshold Limit Value

TPRD - Trumpoloikio Poveikio Ribinis Dydis

TRGS 510 - Technische Regel fur Gefohrstoffe 510 - Logerung von

Gefohrstoffen in ortsbeweglichen Beholtern

TRGS 552 - Technische Regeln fur Gefohrstoffe - N-Nitrosomine

TRGS 900 - Technische Regel fur Gefohrstoffe 900-

Arbeitsplotzgrenzwerte

TRGS 903 - Technische Regel fur Gefohrstoffe 903 - Biologische Grenzwerte

TSCA - Toxic Substances Control Act

TWA -Time Weighted Average

VOE - Volatile Organic Compounds

VLA-EC - Valor Lfmite Ambienlol Exposici6n de Corio Duroci6n

VLA-ED - Valor Lfmite Ambientol Exposici6n Diorio

VLE- Voleur Limite D'exposilion

VME - Voleur Limite De Moyenne Exposition vPvB - Very Persistent and Very Biooccumulotive

WEL- Workplace Exposure Limit

WGK - Wossergefohrdungsklosse

#### Limit Value Legal Basis\*

\*Includes the below and any related regulations/provisions, and subsequent omendements

**EU - 2019/1831 EU in accor. with 98/24/EC** - Directive 2019/1831 /EU of October 24, 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 2000/39/EC.

**EU - 2019/1243/EU, and 98/24/EC)** - Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work and amendment Regulation (EU) 2019/1243.

Austria - BGBI. II Nr. 254/2018 - Ordinance on Limit Values for Workplace Substances and on Carcinogens from the Federal Ministry of Economics and Labour, Published in 2003, Appendix I: Substance List, Published through: Ministry of Economics and Labour of the Republic of Austria amended through the Government Gazette II (BGBL.11) No 119/2004) & BGBI.11 No. 242/2006, BGBI. II No. 243/2007, lastly changed through BGBI. I Nr. 51/2011), BGBI. 11 Nr. 186/2015, BGBI. 11 Nr. 288/2017 amended by BGBI. II Nr. 254/2018.

Austria - BLV BGBI.11 Nr. 254/2018 - Ordinance on health monitoring at the workplace 2008, published through BGBI. II Nr. 224/2007 by Austria Minister for Labor and Social Affairs, Lastly changed through BGBI. II Nr. 254/2018

Belgium - Royal Decree 21/01/2020- Royal decree amending title I relating to chemical agents in Book VI of the code of well-being at work, with regard to the list of limit values of exposure to chemical agents and title 2 relating to carcinogens, mutagens and reprotoxics of Book VI of the code of well-being at work (I) Bulgaria - Reg. No. 13/10 -

Regulation No. 13 of December 30, 2003 on the Protection of Workers from Hazards Related to Exposure to Chemical Agents at Work Labor Code, Annex No.I Limit values of chemical agents in the air of the working environment, and Annex N2 2 Biological limit values of chemical agents and their metabolites (bio markers of exposure) or bio markers of effect Amended by: 71/2006, 67/2007, 2/2012, 46/2015, 73/2018, 5/2020), and Regulation No.I O of September 26, 2003 on the Protection of Workers from the Risks Associated with Exposure to Carcinogens and Mutagens at Work Annex No.I Occupational Exposure Limits, Amended by: 8/2004, 46/2015, 5/2020

Croatia - OG No. 91/2018- Regulation on the Protection of Workers from Exposure to Hazardous Chemicals at Work, the Limit Values of Exposure and the Biological Limit Values. Official Gazette No. 91 of October 12, 2018

Cyprus - KDP 16/2019 - Government of Cyprus Cabinet of Ministers Regulation 268/2001 - Safety and Health in the Working Greece - PWHSE - Occupational Exposure Limits - Protection of workers' health and safety from exposure to certain chemical substances during the workday, (latest amendment 82/2018) and Occupation Exposure Limits - Protection of workers' health and safety from exposure to certain carcinogenic and mutogenic chemical substances (latest amendment 26/2020), and Presidential Decree 212/2006 - Protection of workers that ore exposed to asbestos.

**Hungary - Decree 05/2020** - 5/2020. (11. 6.) ITM decree on the protection of the health and safety of workers from the risks related to chemical agents

**Ireland - 2020 COP** - 2020 Code of Practice for the Chemical Agents Regulations, Schedule I

Italy - Decree 81 - Title IX, Annex XLIII and XXXVIII, Professional Exposure Limits and Annex XXXIX Mandatory Biological Limit Values and Health Monitoring, Article I, Low 123 of August 3, 2007, Legislative Decree 81 of April 9, 2008, Lost amended: January 2020

Italy - IMDFNI - Ministerial Decree of August 20, 1999 Final Nole

Latvia - Reg. No. 325 - Cabinet of Ministers Regulation No. 325 - Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces, Amended by Cabinet of Ministers Regulation No. 92, 163, 407 and No. 11,

Lithuania - HN 23:2011 - Lithuanian Hygiene Standard HN 23:2011 Occupational Exposure Limit Values, Amended by Order V-695/AI-272.

**Luxembourg - A-N 684 -** Grand-Ducal Regulation of 20 July 2018 amending the Grand-Ducal Regulation of 14 November 2016 concerning the protection of the safety and health of employees against the risks associated with chemical agents in the workplace. Official journal of the Grand-Duke of Luxembourg, A-N°684 of 2018

**Malta - MOSHAA Ch. 424** - Malta Occupational Health and Safety Authority Act: Chapter 424 as amended by: Legal Notice 353, 53, 198, and 57.

**Netherlands- OWCRLV** - Occupational Working Conditions Regulation, Limit Values for substances harmful to health, Annex XVIII, Updated from August I, 2020.

**Norway - FOR-2020-04-060695 -** Regulations concerning action and limit values for physical and chemical agents in the working environment and classified biological agents, FOR-201 I-12-06-1358, Updated by: FOR-2020-04-06-695, FOR-2020-03-23-402, FOR-2018-12-20-2186, FOR-2018-08-21-I 255, FOR-2017-12-20-2353.

Poland - Dz. U. 2020 Nr. 61 - Regulation of the Minister of Family,

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Environment (Chemical Substances) Article 38, As amended by Regulation 16/2019 and Cabinet of Ministers Regulation 153/2001 - Safety and Health in the Working Environment (Chemical Substances-Carcinogens), as amended by Regulation 493/2004 - Safety and Health in the Working Environment (Chemical Substances - Carcinogens) AND Law 47(1) 2000 - Occupational Health and Safety (Asbestos), as amended by Decree 316/2006. Czech Republic - Reg. 41/2020- Regulation 41/2020 amending Regulation 361/2007 of Coll. establishing Occupation Exposure Limits as amended

Czech Republic - Decree No. 107/2013 - Decree No. 107/2013 Coll., amending Decree No. 432/2003 Coll., laying down the conditions for the application of the work into categories, limit values for the parameters of biological exposure tests, collection of biological material conditions for the implementation of biological exposure tests and requirements for reporting work with asbestos and biological agents

Denmark - BEK No. 698 of 28/05/2020 - Order on Limit Values for Substances and Materials, The Statutory Order No, 507 of May 17, 2011, Appendix I - Limits for air pollution, etc. and Appendix 3 - Biological Exposure Values, Amended by: No. 986 of October II, 2012, No. 655 of May 31, 2018, No. 1458 December 13, 2019, No. 698 of May 28, 2020

Estonia - Regulation No. 105 - Health and Safety Requirements for the Use of Dangerous Chemicals and Materials Containing Them and Occupational Exposure Limits to Chemical Agents Government of the Republic, Regulation No. I 05 of 20 March 2001, Amended 17 October 2019, and 17 January, 2020. Finland - HTP-ARVOT 2020 - Concentrations Known to be Hazardous, 654/2020 OEL values 2020 Publications of Ministry of Social Affairs and Health 2020:24 Annexesl, 2 and 3. France - INRS ED 984 - Occupational Exposure Limit Values to Chemical Agents in France Published 2016 by the INRS National Institute of Research and Safety Health and safety of work, revised, updated by: Decree 2016-344, JORF No 0119, and Decree 2019-1487.

France - Decree 2009-1570 - Decree 2009-1570 of December 15, 2009, relative to the control of chemical risk on workplaces.

Germany - TRGS 900- Occupational Exposure Limits, Technical Rules for Dangerous Substances, latest amendment March, 2020

Germany - TRGS 903 - Biological Threshold Limits (BGW-Values), Technical Rules for Dangerous Substances, latest amendment March, 2020

Gibraltar - LN. 2018/131 - Factories (Control of Chemical Agents at Work) Regulations 2003 LN. 2003/035, amended by LN. 2008/035, LN. 2008/050, LN. 2012/021, LN. 2015/143, LN. 2018/181.

Labor and Social Policy of June 12, 2018 on the Highest Allowable Concentrations and Intensities of Factors Harmful to Health in the Work Environment Dz.U. 2018 Nr. 1286 of June 12, 2018, Annex I - List of values of the highest permissible chemical concentrations and dust factors harmful to health in the work environment, amended by: Dz. U. 2020 Nr. 61.

Portugal - Portuguese Norm NP 1796:2014 - Occupational exposure limits and biological exposure indices to chemical agents. Table I - Occupational exposure limits and biological exposure indices to chemical agents (OELs), Law Decree 35/2020.

Romania - Gov. Dec. No 1.218- Governmental Decision No. 1.218 from 06/09/2006 on the minimum health and safety requirements for protection of workers from the risks related to exposure to chemical agents, Annex No. I Mandatory National Occupational Exposure Limit Values for Chemical Agents. Amended by Decision no. 157, 584, 359, and I. Slovakia - Gov. Decree 33/2018 - Government Decree of Slovak

Republic 33/2018 on January 17, 2018 amending Government Decree of Slovak Republic 355/2006 about protection of health of employees when working with chemical agents Slovenia - No. 79/19 - Regulation for protection of workers against risks related to carcinogenic or mutagenic substances exposure. Annex III - Classification and binding levels of carcinogenic or mutagenic substances for occupational exposure. The Official Journal of the Republic of Slovenia, No. I OI /2005. Amended by 38/15, 79/19. Regulation for protection of workers against risks related to exposure to chemical substances at the workplace. Republic of Slovenia, No. I 00/2001 . Annex I - List of Binding Occupational Exposure Limit Values. Amended by 39/05, 53/07, 102/10, 38/15, 78/18, 78/19

Spain - AFS 2018:1 - NATIONAL INSTITUTE FOR HEALTH AND SAFETY AT WORK. Occupational exposure limits for chemical agents in Spain. Tables I and 3. Latest edition Feb. 2019

Sweden - AFS 2018:1 - Statute Book of the Swedish Work Environment Authority, AFS 2018:I

The Swedish Work Environment Authority's Ordinance and General Guidance on Hygienic Limit Values

**Switzerland - OLVSNAIF -** Occupational Limit Values 2020 Swiss National Accident Insurance Fund. List of Biological Limit Values (BAT-Werte) and List of MAK Values.

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# Silicone Sales & Services UK - Ireland - Benelux

© 2025 - Polymer Systems Technology Limited™ 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

