

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 09/09/2019 Date of issue: 09/02/2015

1.2.1. Relevant Identified Uses Use of the Substance/Mixture

Company/Undertaking

Product Identifier

MED-4174

Safety Data Sheet

1.1.

1.2.

Product form

Svnonvms

Product Name

For professional use only.

Silicone Elastomer

1.2.2. Uses Advised Against

No additional information available

1.3. Details of the Supplier of the Safety Data Sheet

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1.4. Emergency Telephone Number

Emergency Number

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

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

Mixture

MED-4174

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture

Classification According to Regulation (EC) No. 1272/2008 [CLP] Not classified

2.2. Label Elements

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

No labelling applicable

2.3. Other Hazards

Contains vPvB substances >= 0.1% assessed in accordance with REACH Annex XIIIOther Hazards Not Contributing
to the ClassificationExposure may aggravate pre-existing eye, skin, or respiratory
conditions.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixture



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Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Octamethylcyclotetrasiloxane	(CAS-No.) 556-67-2 (EC-No.) 209-136-7 (EC Index-No.) 014-018-00-1	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Repr. 2, H361f Aquatic Chronic 4, H413
Decamethylcyclopentasiloxane	(CAS-No.) 541-02-6 (EC-No.) 208-764-9	< 1	Not classified
Dodecamethylcyclohexasiloxane	(CAS-No.) 540-97-6 (EC-No.) 208-762-8	< 1	Not classified

SECTION 4: First Aid Measures

4.1. Description of First-aid Measures

First-Aid Measures General	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where
	possible).
First-Aid Measures After	When symptoms occur: go into open air and ventilate
Inhalation	suspected area. Obtain medical attention if breathing difficulty persists.
First-Aid Measures After Skin	Remove contaminated clothing. Drench affected area with
Contact	water for at least 5 minutes. Obtain medical attention if irritation develops or persists.
First-Aid Measures After Eye	Rinse cautiously with water for at least 5 minutes. Remove
Contact	contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
First-Aid Measures After	Rinse mouth. Do NOT induce vomiting. Obtain medical
Ingestion	attention.
4.2. Most Important Symptoms	and Effects Both Acute and Delayed
Symptoms/Effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/Effects After Inhalation	Prolonged exposure may cause irritation.
Symptoms/Effects After Skin Contact	Prolonged exposure may cause skin irritation.
Symptoms/Effects After Eye Contact	May cause slight irritation to eyes.
Symptoms/Effects After Ingestion	Ingestion may cause adverse effects.
Chronic Symptoms	None expected under normal conditions of use.
4.3. Indication of Any Immedia	ate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting Measures

5.1. Extinguishing Media

Suitable Extinguishing Media

Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

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According to Regulation (EC) No. 1907/2006 (REACH) with its an	nendment Regulation (EU) 2015/830
Unsuitable Extinguishing Media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.
5.2. Special Hazards Arising I	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 Rel	ease Measures
6.1. Personal Precautions, Pro	ptective Equipment and Emergency Procedures
General Measures	Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapour, mist, spray).
6.1.1. For Non-Emergency Persor	Inel
Protective Equipment	Use appropriate personal protective equipment (PPE).
Emergency Procedures	Evacuate unnecessary personnel.
6.1.2. For Emergency Responders	5
Protective Equipment	Equip cleanup crew with proper protection.
Emergency Procedures	Ventilate area. 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.

6.2. **Environmental Precautions**

Prevent entry to sewers and public waters.

Methods and Materials for Containment and Cleaning Up 6.3.

Contain any spills with dikes or absorbents to prevent migration
and entry into sewers or streams.
Clean up spills immediately and dispose of waste safely.
Transfer spilled material to a suitable container for disposal.
Contact competent authorities after a spill.

6.4. **Reference to Other Sections**

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling And Storage

7.1. **Precautions for Safe Handling**

Precautions for Safe Handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing.
	Avoid breathing vapours, mist, spray.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety procedures.
7.2. Conditions for Safe Stora	ae. Including Any Incompatibilities

Conditions for safe storage, including Any incompatibilities Comply with applicable regulations.

Technical Measures

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

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 extrusion, transfer and compression molding and calendaring. For professional use only.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

No additional information available

8.2. Exposure Controls

Appropriate Engineering Controls Suitable eye/body wash equipment should be available in the 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.

SECTION 9: Physical and Chemical Hazards

9.1. Information on Basic Physical and Chemical Properties

Physical State	Gum
Colour	Translucent
Odour	Odourless
Odour 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
Vapour Pressure	No data available
Relative Vapour Density At 20 °C	No data available

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Relative Density	> 1 (Water=1)
Solubility	No data available
Partition Coefficient n-Octanol/W	ater 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, strong oxidizers.

10.6. Hazardous Decomposition Products

Carbon oxides (CO, CO₂). 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 sensitizer. Formaldehyde can also cause respiratory and eye irritation.

SECTION 11: Toxicological Information

11.1. Information On Toxicological Effects

Acute Toxicity	Not classified (Based on available data, the classification criteria are not met)

Octamethylcyclotetrasiloxane (556-67-2)	
1540 mg/kg	
794 µl/kg	
36 g/m³ (Exposure time: 4 h)	
541-02-6)	
> 5000 mg/kg (Species: Sprague-Dawley)	
> 2000 mg/kg (Species: New Zealand White) No deaths reported	
8,67 mg/l/4h (Species: Fischer)	
Dodecamethylcyclohexasiloxane (540-97-6)	
> 50 g/kg	
Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met)	

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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 criteria are not met)
Reproductive Toxicity	Not classified (Based on available data, the classification criteria are not met)
Specific Target Organ Toxicity (Single Exposure)	Not classified (Based on available data, the classification criteria are not met)
Specific Target Organ Toxicity (Re Exposure)	peated Not classified (Based on available data, the classification criteria are not met)
Aspiration Hazard	Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological Information

12.1. Toxicity

Ecology - General		Not classified.				
Octamethylcyclotetrasiloxane (556-67-2)						
LC50 fish 1 > 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)						
LC50 fish 2	> 1	> 1000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)				
12.2. Persistence and Degradability						
MED-4174						
Persistence and Degradability		Not established.				

12.3. Bioaccumulative Potential

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Bioaccumulative potential Not established.

12.4. Mobility in Soil

No additional information available

12.5. Results of PBT and vPvB assessment

Octamethylcyclotetrasiloxane (556-67-2)

This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII

Decamethylcyclopentasiloxane (541-02-6)

This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII

Dodecamethylcyclohexasiloxane (540-97-6)

This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII

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,
Recommendations	regional, national, and international regulations.
Ecology - Waste Materials	Avoid release to the environment.

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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 REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration \geq 0.1% or with a lower specific limit:

Octamethylcyclotetrasiloxane (D4) (EC 209-136-7, CAS 556-67-2) Decamethylcyclopentasiloxane (D5) (EC 208-764-9, CAS 541-02-6), Dodecamethylcyclohexasiloxane (D6) (EC 208-762-8, CAS 540-97-6) Contains no REACH Annex XIV 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
1	Identification of the Substance/mixture and of the Company/Undertaking	Modified	09/09/2019
2	Hazards identification	Modified	09/09/2019
3	Composition/information on ingredients	Modified	09/09/2019
3	Composition/information on ingredients	Modified	09/09/2019
11	Toxicological information	Modified	09/09/2019

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	15	Regulatory information	n		Modified	09/09/2019		
_	Date of Pr Revision	reparation or Latest	09/09/2019					
						ы		
	Data Sour	Ces		Information and data obtained and used in the authoring of				
			,			base 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	adoption of GHS.				
	Other Information			According to Regulation (EC) No. 1907/2006 (REACH) with its				
			amendment Regulation (EU) 2015/830					
	Abbreviat	ions and Acronyms						
	ACGIH – America	n Conference of Governmental Industrial H Agreement Concerning the International C		MARPOL - International Cor NDS - Najwyzsze Dopuszcza	nvention for the Prevention of	Pollution		
	Goods by Inland	Waterways		NDSCh - Najwyzsze Dopusza	czalne Stezenie Chwilowe			
ADR - European Agreement Concerning the International Carriage of E Goods by Road			arriage of Dangerous	NDSP - Najwyzsze Dopuszcz NOAEL - No-Observed Adve				
ATE - Acute Toxicity Estimate BCF - Bioconcentration Factor				NOEC - No-Observed Effect Concentration NRD - Nevirsytinas Ribinis Dydis				
	BEI - Biological Exp	oosure Indices (BEI)		NTP – National Toxicology Program				
	BOD – Biochemical Oxygen Demand CAS No Chemical Abstracts Service Number			OEL - Occupational Exposure Limits PBT - Persistent, Bioaccumulative and Toxic				
	CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008			PEL - Permissible Exposure Limit				
COD – Chemical Oxygen Demand EC – European Community				pH – Potential Hydrogen REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals				
		ective Concentration		RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail				
EEC – European Economic Community EINECS – European Inventory of Existing Commercial Chemical Substances			al Substances					
EmS-No. (Fire) - IMDG Emergency Schedule Fire EmS-No. (Spillage) - IMDG Emergency Schedule Spillage			STEL - Short Term Exposure Limit TA-Luft - Technische Anleitung zur Reinhaltung der Luft					
	EU – European Un	ion		TEL TRK – Technical Guidance Concentrations				
	ErC50 - EC50 in Terms of Reduction Growth Rate GHS – Globally Harmonized System of Classification and Labeling of Chemicals			ThOD – Theoretical Oxygen Demand TLM - Median Tolerance Limit				
IARC - International Agency for Research on Cancer IATA - International Air Transport Association				TLV - Threshold Limit Value TPRD - Trumpalaikio Poveikio Ribinis Dydis				
	IBC Code - Interne	ational Bulk Chemical Code		TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in				
IMDG - International Maritime Dangerous Goods IPRV - Ilgalaikio Poveikio Ribinis Dydis				ortsbeweglichen Behältern TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine				
IOELV – Indicative Occupational Exposure Limit Value			TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte					
LC50 - Median Lethal Concentration LD50 - Median Lethal Dose			TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte TSCA - Toxic Substances Control Act					
LOAEL - Lowest Observed Adverse Effect Level			TWA - Time Weighted Average					
LOEC - Lowest-Observed-Effect Concentration Log Koc - Soil Organic Carbon-water Partitioning Coefficient			VOC – Volatile Organic Compounds VLA-EC - Valor Límite Ambiental Exposición de Corta Duración					
Log Kow - Octanol/water Partition Coefficient			VLA-ED - Valor Límite Ambiental Exposición Diaria VLE – Valeur Limite D'exposition					
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in two-phase system consisting of two largely immiscible solvents, in this case octa				VME – Valeur Limite De Moyenne Exposition				
and water MAK – Maximum Workplace Concentration/Maximum Permissik			ssible Concentration	vPvB - Very Persistent and Very Bioaccumulative ation WEL – Workplace Exposure Limit				
				WGK - Wassergefährdungsk				

Nusil FU GHS SDS

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