



Version: 4.0

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

1.1. Product Identifier

Product form Product Name Synonyms Mixture MED-4162 Silicone Dispersion

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 Europe 1198 Avenue Maurice Donat Le Natura Bt. 2 06250 Mougins France +33 4 92 96 93 31 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) +(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 [CLP]

Flam. Liq. 3	H226
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation:vapour)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335
STOT RE 2	H373
Asp. Tox. 1	H304
Full toxt of bazard classes and H	statomor

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

2.2. Label Elements

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

EN (English)

Hazard Pictograms (CLP)

Signal Word (CLP)



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lazardous Ingredients	Reaction mass of ethylbenzene and xylene
lazard Statements (CLP)	H226 - Flammable liquid and vapour.
	H304 - May be fatal if swallowed and enters airways.
	H312+H332 - Harmful in contact with skin or if inhaled
	H315 - Causes skin irritation.
	H319 - Causes serious eye irritation.
	H335 - May cause respiratory irritation.
	H373 - May cause damage to organs (hearing organs) throug
	prolonged or repeated exposure.
Precautionary Statements (CLP)	P210 - Keep away from heat, hot surfaces, sparks, open flame
	and other ignition sources. No smoking.
	P233 - Keep container tightly closed.
	P240 - Ground and bond container and receiving equipment
	P241 - Use explosion-proof electrical, ventilating, and lighting
	equipment.
	P242 - Use non-sparking tools.
	P243 - Take action to prevent static discharges.
	P260 - Do not breathe vapors, mist, or spray
	P264 - Wash hands, forearms, and exposed areas thoroughly
	after handling
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear eye protection, protective clothing, protective
	gloves
	P301+P310 - IF SWALLOWED: Immediately call a POISON CENT
	or doctor
	P302+P352 - IF ON SKIN: Wash with plenty of water
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately a
	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
	do. Continue rinsing.
	P312 - Call a POISON CENTRE or doctor if you feel unwell.
	P321 - Specific treatment (see Section 4 on this SDS)
	P331 - Do NOT induce vomiting.
	P332+P313 - If skin irritation occurs: Get medical
	advice/attention.
	P337+P313 - If eye irritation persists: Get medical
	advice/attention.
	P362+P364 - Take off contaminated clothing and wash it befo
	reuse.
	P370+P378 - In case of fire: Use water spray, fog, carbon
	dioxide, alcohol-resistant foam, or dry chemical to extinguish
	P403+P235 - Store in a well-ventilated place. Keep cool.
	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.

 $\begin{array}{lll} \mbox{Contains PBT/vPvB substances} \geq 0.1\% \mbox{ assessed in accordance with REACH Annex XIII} \\ \mbox{Other Hazards Not Contributing} & \mbox{Exposure may aggravate pre-existing eye, skin, or respiratory} \end{array}$

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

to the Classification

conditions.

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 [CLP]
Reaction mass of ethylbenzene and xylene	(CAS-No.) Not Applicable (REACH Registration No.) 01-2119539452-40- 0053 (EC-No.) 905-588-0	60 - 80	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
Octamethylcyclotetrasiloxane substance listed as REACH Candidate (Octamethylcyclotetrasiloxane (D4))	(CAS-No.) 556-67-2 (EC-No.) 209-136-7 (EC Index-No.) 014-018- 00-1	< 3	Repr. 2, H361f Aquatic Chronic 4, H413
Decamethylcyclopentasiloxane substance listed as REACH Candidate (Decamethylcyclopentasiloxane (D5))	(CAS-No.) 541-02-6 (EC-No.) 208-764-9	< 3	Not classified
Dodecamethylcyclohexasiloxane substance listed as REACH Candidate (Dodecamethylcyclohexasiloxane (D6))	(CAS-No.) 540-97-6 (EC-No.) 208-762-8	< 1	Not classified

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. Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
First-Aid Measures After Skin Contact	Immediately remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. Immediately call a poison center or doctor/physician.

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First-Aid Measures After Eye	Immediately rinse with water for at least 15 minutes. Remove		
Contact	contact lenses, if present and easy to do. Continue rinsing.		
	Immediately call a poison center or doctor/physician.		
First-Aid Measures After	Do NOT induce vomiting. Rinse mouth. Immediately call a		
Ingestion	POISON CENTER or doctor/physician.		
4.2. Most Important Sympto	oms and Effects Both Acute and Delayed		
Symptoms/Effects	Harmful in contact with skin or if inhaled. May be fatal if		
	swallowed and enters airways. Causes skin irritation. Causes		
	serious eye irritation. May cause respiratory irritation. May cause		
	damage to organs through prolonged or repeated exposure.		
Symptoms/Effects After	Inhalation is likely to cause adverse health effects including but		
Inhalation	not limited to: irritation, difficulty breathing, and		
	unconsciousness. High concentrations may cause central		
	nervous system depression such as dizziness, vomiting,		
	numbness, drowsiness, headache, and similar narcotic		
	symptoms.		
Symptoms/Effects After Skin	Redness, pain, swelling, itching, burning, dryness, and		
Contact	dermatitis. This material is harmful through skin contact, and		
	can cause adverse health effects or death in significant		
	amounts. This material may be absorbed through the skin and		
Symptoms/Effects After Eye	eyes. Contact causes severe irritation with redness and swelling of the		
Contact	conjunctiva.		
Symptoms/Effects After	Aspiration into the lungs can occur during ingestion or vomiting		
Ingestion	and may cause lung injury.		
Chronic Symptoms	May cause damage to organs (hearing organs) through		
	prolonged or repeated exposure.		
4.3 Indication of Any Imm	ediate Medical Attention and Special Treatment Needed		

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	Application of water stream to hot product may cause frothing and increase fire intensity. Do not use a heavy water stream. A heavy water stream may spread burning liquid.
5.2. Special Hazards Arising Fi	rom the Substance or Mixture
Fire Hazard	Flammable liquid and vapour. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
Explosion Hazard	May form flammable or explosive vapour-air mixture.
Reactivity	Reacts violently with strong oxidisers. Increased risk of fire or explosion.
Hazardous Decomposition	Carbon oxides (CO, CO ₂). Silicon oxides. Formaldehyde.
Products in Case of Fire	
5.3. Advice for Firefighters	
Precautionary Measures Fire	Under fire conditions, hazardous fumes will be present. Exercise caution when fighting any chemical fire.

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Firefighting Instructions	Use water spray or fog for cooling exposed containers. In case
	of major fire and large quantities: Evacuate area. Fight fire
	remotely due to the risk of explosion.
Protection During Firefighting	Do not enter fire area without proper protective equipment,
	including respiratory protection.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures 6.1.

General Measures	Do not get in eyes, on skin, or on clothing. Do not breathe
	vapor, mist or spray. Keep away from heat, hot surfaces, sparks,
	open flames, and other ignition sources. No smoking. Use
	special care to avoid static electric charges.
611 For Non-Emergency Perso	nnel

6.1.1. For Non-Emergency Personnel

Protective Equipment Use appropriate personal protective equipment (PPE). Evacuate unnecessary personnel. Stop leak if safe to do so. **Emergency Procedures** 6.1.2. For Emergency Responders **Protective Equipment**

Emergency Procedures

Equip cleanup crew with proper protection.

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. Eliminate ignition sources.

Environmental Precautions 6.2.

Notify authorities if liquid enters sewers or public waters. Prevent entry to sewers and public waters.

Methods and Materials for Containment and Cleanina Up 6.3.

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. Ventilate area.
Methods For Cleaning Up	Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Use only non-sparking tools. Contact competent authorities after a spill.

Reference to Other Sections 6.4.

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

SECTION 7: Handling And Storage

Precautions for Safe Handling 7.1.

Additional Hazards When Processed

Flammable vapors may accumulate in the head space of closed systems. Container may remain hazardous when empty. Handle empty containers with care because residual vapours are flammable.

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Precautions for Safe Handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe vapours, mist, spray. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Handle empty containers with care because they may still present a hazard. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety procedures.
7.2. Conditions for Safe Storage	ge, Including Any Incompatibilities
Technical Measures	Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.
Storage Conditions	Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in a well- ventilated place. Keep container tightly closed. Keep in fireproof place.
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**

Xylenes (o-, m-, p- isomers)			
EU	IOELV TWA (mg/m³)	221 mg/m³ (pure)	
EU	IOELV TWA (ppm)	50 ppm (pure)	
EU	IOELV STEL (mg/m³)	442 mg/m³ (pure)	
EU	IOELV STEL (ppm)	100 ppm (pure)	
EU	Notes	Possibility of significant uptake through the skin (pure)	
Austria	MAK (mg/m³)	221 mg/m ³ (all isomers)	
Austria	MAK (ppm)	50 ppm (all isomers)	
Austria	MAK Short time value (mg/m³)	442 mg/m ³	
Austria	MAK Short time value (ppm)	100 ppm	
Belgium	Limit value (mg/m³)	221 mg/m ³	
Belgium	Limit value (ppm)	50 ppm	
Belgium	Short time value (mg/m³)	442 mg/m ³	
Belgium	Short time value (ppm)	100 ppm	
Belgium	OEL chemical category (BE)	Skin, Skin notation pure	
Bulgaria	OEL TWA (mg/m³)	221 mg/m³ (pure)	
Bulgaria	OEL TWA (ppm)	50 ppm (pure)	
Bulgaria	OEL STEL (mg/m³)	442 mg/m³ (pure)	
Bulgaria	OEL STEL (ppm)	100 ppm (pure)	

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According to Regulation (EC) No.	1907/2006 (REACH) with its amenament Regulation (EU) 2015/830	
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	221 mg/m³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	442 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Croatia	OEL chemical category (HR)	Skin notation
Croatia	Croatia - BLV	 1,5 mg/l Parameter: Xylene - Medium: blood - Sampling time: at the end of the work shift (alcohol before exposure to Xylene raises occurrence) 1,5 g/g creatinine Parameter: Methylhippuric acid - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
Cyprus	OEL TWA (mg/m³)	221 mg/m ³
Cyprus	OEL TWA (ppm)	50 ppm
Cyprus	OEL STEL (mg/m³)	442 mg/m ³
Cyprus	OEL STEL (ppm)	100 ppm
Cyprus	OEL chemical category (CY)	Skin-potential for cutaneous absorption
Czech Republic	Expoziční limity (PEL) (mg/m³)	200 mg/m ³
Czech Republic	OEL chemical category (CZ)	Potential for cutaneous absorption
Czech Republic	Czech Republic - BLV	820 µmol/mmol Creatinine Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift 1400 mg/g creatinine Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift
Denmark	Grænseværdie (langvarig) (mg/m³)	109 mg/m ³ (Xylene, all isomers)
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm (Xylene, all isomers)
Estonia	OEL TWA (mg/m³)	200 mg/m ³
Estonia	OEL TWA (ppm)	50 ppm
Estonia	OEL STEL (mg/m³)	450 mg/m ³
Estonia	OEL STEL (ppm)	100 ppm
Estonia	OEL chemical category (ET)	Skin notation
Finland	HTP-arvo (8h) (mg/m³)	220 mg/m³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	440 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Finland	OEL chemical category (FI)	Potential for cutaneous absorption
	OLL CHOMICAI CAICGOLY (11)	

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		Medium: urine - Sampling time: after the shift
France	VLE (mg/m³)	442 mg/m³ (restrictive limit)
France	VLE (ppm)	100 ppm (restrictive limit)
France	VME (mg/m³)	221 mg/m ³ (restrictive limit)
France	VME (ppm)	50 ppm (restrictive limit)
France	OEL chemical category (FR)	Risk of cutaneous absorption
France	France - BLV	1500 mg/g creatinine Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift
Germany	Occupational exposure limit value (mg/m³)	440 mg/m ³ (all isomers)
Germany	Occupational exposure limit value (ppm)	100 ppm (all isomers)
Germany	TRGS 903 Biological limit value	2000 mg/l Parameter: Methylhippuric(tolur-)acid (all isomers) - Medium: urine - Sampling time: end of shift (all isomers)
Germany	Chemical category	Skin notation all isomers
Gibraltar	Eight hours mg/m3	221 mg/m³ (pure)
Gibraltar	Eight hours ppm	50 ppm (pure)
Gibraltar	Short-term mg/m3	442 mg/m³ (pure)
Gibraltar	Short-term ppm	100 ppm (pure)
Gibraltar	OEL chemical category (GI)	Skin notation pure
Greece	OEL TWA (mg/m³)	435 mg/m ³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m³)	650 mg/m ³
Greece	OEL STEL (ppm)	150 ppm
Greece	OEL chemical category (GR)	skin - potential for cutaneous absorption
Hungary	AK-érték	221 mg/m ³
Hungary	CK-érték	442 mg/m ³
Hungary	OEL chemical category (HU)	Potential for cutaneous absorption
Ireland	OEL (8 hours ref) (mg/m ³)	221 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m3)	442 mg/m ³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Ireland	OEL chemical category (IE)	Potential for cutaneous absorption
Italy	OEL TWA (mg/m ³)	221 mg/m ³ (pure)
Italy	OEL TWA (ppm)	50 ppm (pure)
Italy	OEL STEL (mg/m³)	442 mg/m³ (pure)
Italy	OEL STEL (ppm)	100 ppm (pure)
Italy	OEL chemical category (IT)	skin - potential for cutaneous absorption pure
Latvia	OEL TWA (mg/m³)	221 mg/m ³
Latvia	OEL TWA (ppm)	50 ppm
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Latvia	OEL chemical category (LV)	skin - potential for cutaneous exposure
Lithuania	IPRV (mg/m³)	221 mg/m ³ (mixed isomers, pure)
Lithuania	IPRV (ppm)	50 ppm (mixed isomers, pure)
Lithuania	TPRV (mg/m ³)	442 mg/m ³ (mixed isomers, pure)
Lithuania	TPRV (ppm)	100 ppm (mixed isomers, pure)
Lithuania	OEL chemical category (LT)	Skin notation
Luxembourg	OEL TWA (mg/m ³)	221 mg/m ³
Luxembourg	OEL TWA (ppm)	50 ppm
Luxembourg	OEL STEL (mg/m ³)	442 mg/m ³
Luxembourg	OEL STEL (ppm)	100 ppm
Luxembourg	OEL chemical category (LU)	Possibility of significant uptake through the skin
Malta	OEL TWA (mg/m³)	221 mg/m ³ (pure)
Malta	OEL TWA (ppm)	50 ppm (pure)
Malta	OEL STEL (mg/m³)	442 mg/m³ (pure)
Malta	OEL STEL (ppm)	100 ppm (pure)
Malta	OEL chemical category (MT)	Possibility of significant uptake through the skin pure
Netherlands	Grenswaarde TGG 8H (mg/m³)	210 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	442 mg/m ³
Norway	Grenseverdier (AN) (mg/m ³)	108 mg/m³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	135 mg/m³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	37,5 ppm (value calculated)
Norway	OEL chemical category (NO)	Skin notation
Poland	NDS (mg/m³)	100 mg/m ³ (mixture of isomers)
Poland	NDSCh (mg/m³)	200 mg/m ³ (mixture of isomers)
Portugal	OEL TWA (mg/m³)	221 mg/m³ (indicative limit value)
Portugal	OEL TWA (ppm)	50 ppm (indicative limit value)
Portugal	OEL STEL (mg/m³)	442 mg/m³ (indicative limit value)
Portugal	OEL STEL (ppm)	100 ppm (indicative limit value)
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen,skin - potential for cutaneous exposure indicative limit value
Romania	OEL TWA (mg/m³)	221 mg/m³ (pure)
Romania	OEL TWA (ppm)	50 ppm (pure)
Romania	OEL STEL (mg/m³)	442 mg/m³ (pure)
Romania	OEL STEL (ppm)	100 ppm (pure)
Romania	OEL chemical category (RO)	Skin notation pure
Romania	Romania - BLV	3 g/l Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift
Slovakia	NPHV (priemerná) (mg/m³)	221 mg/m³

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Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	NPHV (Hraničná) (mg/m³)	442 mg/m ³
Slovakia	OEL chemical category (SK)	Potential for cutaneous absorption
Slovakia	Slovakia - BLV	1,5 mg/l Parameter: Xylene - Medium: blood - Sampling time: end of exposure or work shift (all isomers) 2000 mg/l Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of exposure or work shift
Slovenia	OEL TWA (mg/m³)	221 mg/m ³
Slovenia	OEL TWA (ppm)	50 ppm
Slovenia	OEL STEL (mg/m³)	442 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm
Slovenia	OEL chemical category (SI)	Potential for cutaneous absorption
Spain	VLA-ED (mg/m³)	221 mg/m³ (indicative limit value)
Spain	VLA-ED (ppm)	50 ppm (indicative limit value)
Spain	VLA-EC (mg/m³)	442 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Spain	OEL chemical category (ES)	skin - potential for cutaneous absorption
Spain	Spain - BLV	1 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift
Sweden	nivågränsvärde (NVG) (mg/m³)	221 mg/m ³ (Xylene)
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm (Xylene)
Sweden	kortidsvärde (KTV) (mg/m³)	442 mg/m ³ (Xylene)
Sweden	kortidsvärde (KTV) (ppm)	100 ppm (Xylene)
Sweden	OEL chemical category (SE)	Skin notation
Switzerland	KZGW (mg/m³)	870 mg/m ³
Switzerland	KZGW (ppm)	200 ppm
Switzerland	MAK (mg/m³)	435 mg/m ³
Switzerland	MAK (ppm)	100 ppm
Switzerland	OEL chemical category (CH)	Skin notation
Switzerland	Switzerland - BLV	2 g/l Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift
United Kingdom	WEL TWA (mg/m³)	220 mg/m ³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m ³)	441 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	WEL chemical category	Potential for cutaneous absorption

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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. 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. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Gas detectors should be used when toxic gases may be released. Gas detectors should be used when toxic gases may be released.

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

Materials for Protective Clothing

Personal Protective Equipment

Hand Protection

Eye Protection Skin and Body Protection Respiratory Protection Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Wear chemically resistant protective gloves. Wear protective gloves.

Chemical safety goggles.

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 Hazards

9.1. Information on Basic Physical and Chemical Properties

Physical State	Liquid
Colour	Colourless
Odour	Solvent
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	140 °C (284 °F)
Flash Point	27 °C (80 °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 (water = 1)
Solubility	No data available

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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	60 - 80 %

SECTION 10: Stability and Reactivity

10.1. Reactivity

Reacts violently with strong oxidisers. Increased risk of fire or explosion.

10.2. Chemical Stability

Flammable liquid and vapour. May form flammable or explosive vapour-air mixture.

10.3. Possibility Of Hazardous Reactions

Hazardous polymerization will not occur.

10.4. Conditions To Avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products

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

SECTION 11: Toxicological Information

11.1. Information On Toxicological Effects

Acute Toxicity	Harmful in contact with skin. Harmful if inhaled.	
MED-4162		
ATE CLP (dermal)	1617,647 mg/kg bodyweight	
ATE CLP (vapours)	16,176 mg/l/4h	
Octamethylcyclotetrasiloxane ((556-67-2)	
LD50 Oral Rat	> 4800 mg/kg	
LD50 Dermal Rabbit	> 2,5 ml/kg	
LC50 Inhalation Rat	36 g/m³ (Exposure time: 4 h)	
ATE CLP (oral)	1540 mg/kg bodyweight	
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 (Species: Fischer)	
Dodecamethylcyclohexasiloxane (540-97-6)		
LD50 Oral Rat	> 50 g/kg	
Reaction mass of ethylbenzene and xylene		
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Reaction mass of ethylbenzene and xylene			
LD50 Oral Rat	3523 mg/kg		
LC50 Inhalation Rat	6700 ppm/4h		
ATE CLP (dermal)	1100 mg/kg bodyweight		
ATE CLP (vapours)	11 mg/l/4h		
Skin Corrosion/Irritation	Causes skin irritation.		
Eye Damage/Irritation	Causes serious eye irritation.		
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 (Sir	ngle Exposure) May cause respiratory irritation.		
Specific Target Organ Toxicity (Re	epeated May cause damage to organs (hearing organs)		
Exposure)	through prolonged or repeated exposure.		
Aspiration Hazard	May be fatal if swallowed and enters airways.		

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	> 1000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)		
12.2. Persistence and Degrad			
MED-4162			
Persistence and Degradability	Not established.		
12.3. Bioaccumulative Potenti	al		
MED-4162			
Bioaccumulative potential Not established.			
Octamethylcyclotetrasiloxane (556-67-2)			
BCF Fish 1	12400		
Log Pow	5,1		
 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 PBT criteria of REACH regulation, annex XIII			
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 EN (English)

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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.
Additional Information	Handle empty containers with care because residual vapours are flammable.
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.

In accordance with ADR / RID / IMDG / IATA / ADN

				•	
ADR	IMDG	IATA	ADN	RID	
14.1. UN Number					
1307	1307	1307	1307	1307	
14.2. UN Proper S	14.2. UN Proper Shipping Name				
XYLENES	XYLENES	XYLENES	XYLENES	XYLENES	
(Solution)	(Solution)	(Solution)	(Solution)	(Solution)	
14.3. Transport Hazard Class(Es)					
3	3	3	3	3	
14.4. Packing Gr	ουρ				
III				III	
14.5. Environmental 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/ C!.ID	P E H				

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 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)

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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, 4, 5, 6, 7, 8, 9, 10,	Minor changes to whole sections	Modified	15/01/2020
11, 12, 13, 14, 15, 16			
2	Classification According to Regulation (EC)	Modified	15/01/2020
No. 1272/2008 [CLP]			
3	Composition/information on ingredients	Modified	15/01/2020
Date of Preparation or Latest Revision 15/01/2020			

Date of Preparation or Latest Revision 15/0 Data Sources Info

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 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard,
	Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure,
	Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category
	3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.

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H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

Abbreviations and Acronyms

Abbieviations and Actonyms	
ACGIH – American Conference of Governmental Industrial Hygienists	NDS - Najwyzsze Dopuszczalne Stezenie
ADN – European Agreement Concerning the International Carriage of Dangerous	NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe
Goods by Inland Waterways	NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe
ADR - European Agreement Concerning the International Carriage of Dangerous	NOAEL - No-Observed Adverse Effect Level
Goods by Road	NOEC - No-Observed Effect Concentration
ATE - Acute Toxicity Estimate	NRD - Nevirsytinas Ribinis Dydis
BCF - Bioconcentration Factor	NTP – National Toxicology Program
BEI - Biological Exposure Indices (BEI)	OEL - Occupational Exposure Limits
BOD – Biochemical Oxygen Demand	PBT - Persistent, Bioaccumulative and Toxic
CAS No Chemical Abstracts Service Number	PEL - Permissible Exposure Limit
CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008	pH – Potential Hydrogen
COD – Chemical Oxygen Demand	REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals
EC – European Community	RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail
EC50 - Median Effective Concentration	SADT - Self Accelerating Decomposition Temperature
EEC – European Economic Community	SDS - Safety Data Sheet
EINECS – European Inventory of Existing Commercial Chemical Substances	STEL - Short Term Exposure Limit
EmS-No. (Fire) - IMDG Emergency Schedule Fire	STOT - Specific Target Organ Toxicity
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage	TA-Luft - Technische Anleitung zur Reinhaltung der Luft
EU – European Union	TEL TRK – Technical Guidance Concentrations
ErC50 - EC50 in Terms of Reduction Growth Rate	ThOD – Theoretical Oxygen Demand
GHS – Globally Harmonized System of Classification and Labeling of Chemicals	TLM - Median Tolerance Limit
IARC - International Agency for Research on Cancer	TLV - Threshold Limit Value
IATA - International Air Transport Association	TPRD - Trumpalaikio Poveikio Ribinis Dydis
IBC Code - International Bulk Chemical Code	TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in
IMDG - International Maritime Dangerous Goods	ortsbeweglichen Behältern
IPRV - Ilgalaikio Poveikio Ribinis Dydis	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	TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte
LD50 - Median Lethal Dose	TSCA - Toxic Substances Control Act
LOAEL - Lowest Observed Adverse Effect Level	TWA - Time Weighted Average
LOEC - Lowest-Observed-Effect Concentration	VOC – Volatile Organic Compounds
Log Koc - Soil Organic Carbon-water Partitioning Coefficient Log Kow - Octanol/water Partition Coefficient	VLA-EC - Valor Límite Ambiental Exposición de Corta Duración VLA-ED - Valor Límite Ambiental Exposición Diaria
Log Row - Octahol/water Parillon Coefficient Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-	VLA-ED - Valor Limite Ambiental Exposicion Diana VLE – Valeur Limite D'exposition
phase system consisting of two largely immiscible solvents, in this case octanol and	VME – Valeur Limite De Moyenne Exposition
water	vPvB - Very Persistent and Very Bioaccumulative
MAK – Maximum Workplace Concentration/Maximum Permissible Concentration	WEL – Workplace Exposure Limit
MARPOL - International Convention for the Prevention of Pollution	WEL – Workplace Exposure Linni WGK - Wassergefährdungsklasse
	TOK - Trassigura il autigstiasse

Nusil EU GHS SDS

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