MED-6640 Part A

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Revision Date: 02/06/2025 Date of Issue: 29/05/2014 Version: 7.0

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

1.1. Product Identifier

Product Form	Mixture
Product Name	MED-6640 Part A
Synonyms	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

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
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

Flam. Liq. 3	H226
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation:gas)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

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

2.2. Label Elements

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

Hazard Pictograms (CLP)

GHS02 GHS07 GHS08

Signal Word (CLP)	Danger
Hazard 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) through prolonged or repeated exposure. H412 - Harmful to aquatic life with long lasting effects.
Precautionary Statements (CLP)	P210 - Keep away from heat, hot surfaces, sparks, open flames 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/lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P260 - Do not breathe mist, spray, vapours. P264 - Wash hands, forearms, and other exposed areas thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor. 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. P312 - Call a POISON CENTRE or doctor if you feel unwell. P321 - Specific treatment (see section 4 on this label). 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 before reuse. P370+P378 - In case of fire: Use carbon dioxide (CO2), extinguishing powder, foam, sand to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other Hazards

Other Hazards Not Contributing	Exposure may aggravate pre-existing eye, skin, or respiratory

to the Classification conditions.

Decamethylcyclopentasiloxane (541-02-6)	This substance meets the vPvB criteria of REACH regulation, annex XIII
Dodecamethylcyclohexasiloxane (540-97-6)	This substance meets the vPvB criteria of REACH regulation, annex XIII
Octamethylcyclotetrasiloxane (556-67-2)	This substance meets the PBT criteria of REACH regulation, annex XIII This substance meets the vPvB criteria of REACH regulation, annex XIII
Octamethyltrisiloxane (107-51-7)	This substance meets the vPvB criteria 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
Reaction mass of ethylbenzene and xylene	(CAS-No.) Not Applicable (EC-No.) 905-588-0 (REACH-no) 01-2119539452-40	70 - 90	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
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	(CAS-No.) 68909-20-6 (EC-No.) 272-697-1 (EC Index-No.) 014-052-00-7 (REACH-no) 01-2119379499-16 (synthetic amorphous silica); 01-2119438176-38 (hexamethyldisilazane)	< 10	STOT RE 2, H373*
Decamethylcyclopentasiloxane substance listed as REACH Candidate	(CAS-No.) 541-02-6 (EC-No.) 208-764-9	< 0,25	Not classified
Dodecamethylcyclohexasiloxane substance listed as REACH Candidate	(CAS-No.) 540-97-6 (EC-No.) 208-762-8	< 0,25	Not classified
Octamethylcyclotetrasiloxane substance listed as REACH Candidate	(CAS-No.) 556-67-2 (EC-No.) 209-136-7 (EC Index-No.) 014-018-00-1	< 0,25	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10)
Octamethyltrisiloxane substance listed on REACH Candidate List	(CAS-No.) 107-51-7 (EC-No.) 203-497-4	< 0,25	Flam. Liq. 3, H226

Full text of H-statements: see section 16

*This hazard applies to silica in dust form. There is no exposure to dust as the substance is bound within the matrix of the product.

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.
First-Aid Measures After Eye Contact	Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-Aid Measures After Ingestion	Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Place affected person on their side.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Effects	May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. Harmful in contact with skin. Harmful if inhaled. May be fatal if swallowed and enters airways. May cause damage to organs (hearing organs) through prolonged or repeated exposure.
Symptoms/Effects After Inhalation	Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness.
Symptoms/Effects After Skin Contact	Redness, pain, swelling, itching, burning, dryness, and 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 eyes.
Symptoms/Effects After Eye Contact	Contact causes severe irritation with redness and swelling of the conjunctiva.
Symptoms/Effects After Ingestion	Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.
Chronic Symptoms	May cause damage to organs (hearing organs) through prolonged or repeated exposure.

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	Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO_2). Water may be ineffective but water should be used to keep fire-exposed container cool.
Unsuitable Extinguishing Media	Do not use a heavy water stream. A heavy water stream may spread burning liquid.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard	Flammable liquid and vapour.
Explosion Hazard	May form flammable or explosive vapour-air mixture.
Reactivity	Reacts violently with strong oxidisers. Increased risk of fire or explosion.
Hazardous Combustion Products	Carbon oxides (CO, CO_2). Formaldehyde. Oxides of platinum. Silicon oxides.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

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

6.1.1. For Non-Emergency Personnel

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

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. Eliminate ignition sources. 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. Ventilate area.
Methods for Cleaning Up	Use only non-sparking tools. 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. 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 Processed	Handle empty containers with care because residual vapours are flammable. Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapours.

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. Take precautionary measures against static discharge. Use only non-sparking tools. Handle empty containers with care because they may still present a hazard. Use only outdoors or in a well-ventilated area. Do not breathe vapour, mist, or spray. 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, 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 accordance with applicable national storage class systems. 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 oxidisers.

7.3. Specific End Use(s)

For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Please see section 16 for the legal basis of limit value information in section 8.1, including the national legislation or provision which gives rise to a given limit.

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	4 mg/m³ (also Silica manufactured through wet process-inhalable fraction)
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	0,1 mg/m³ (respirable fraction) 4 mg/m³
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	2 mg/m³ (amorphous-respirable dust)
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	5 mg/m³ (Silicon dioxide, amorphous)
Germany	OEL TWA (Legal Basis:TRGS 900)	4 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Ireland	OEL TWA (Legal Basis:2020 COP)	6 mg/m³ (total inhalable dust) 2,4 mg/m³ (respirable dust)
Ireland	OEL STEL (Legal Basis:2020 COP)	18 mg/m³ (calculated-respirable dust) 7,2 mg/m³ (calculated-respirable dust)
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	1 mg/m³
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	1,5 mg/m³ (respirable dust)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	3 mg/m³ (value calculated-respirable dust)
Slovenia	OEL TWA (Legal Basis:No. 79/19)	4 mg/m³ (inhalable fraction, gel)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	4 mg/m³ (including Silica, amorphous-inhalable dust)

Reaction mass of ethylbenzene and xylene		
EU	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	221 mg/m³ (pure)
EU	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	50 ppm (pure)
EU	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	442 mg/m³ (pure)
EU	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	100 ppm (pure)

Reaction mass of ethylbenzene and xylene		
EU	Remark	Possibility of significant uptake through the skin (pure)
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	221 mg/m³ (all isomers)
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	50 ppm (all isomers)
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	442 mg/m³
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	100 ppm
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	221 mg/m³
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	50 ppm
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	442 mg/m³
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	100 ppm
Belgium	OEL Chemical Category (Legal Basis:Royal Decree 21/01/2020)	Skin, Skin notation pure
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	221 mg/m³ (pure)
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	50 ppm (pure)
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	442 mg/m³ (pure)
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	100 ppm (pure)
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	221 mg/m³
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	50 ppm
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	442 mg/m³
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	100 ppm
Croatia	OEL Chemical Category (Legal Basis:OG No. 91/2018)	Skin notation
Croatia	OEL BLV (Legal Basis:OG No. 91/2018)	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 (Legal Basis:KDP 16/2019)	221 mg/m³
Cyprus	OEL TWA (Legal Basis:KDP 16/2019)	50 ppm
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	442 mg/m³
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	100 ppm
Cyprus	OEL Chemical Category (Legal Basis:KDP 16/2019)	Skin-potential for cutaneous absorption
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	200 mg/m³
Czech Republic	OEL Chemical Category (Legal Basis:Decree No. 107/2013)	Potential for cutaneous absorption
Czech Republic	OEL BLV (Legal Basis:Reg. 41/2020)	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	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	109 mg/m³ (Xylene, all isomers)
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	25 ppm (Xylene, all isomers)
Denmark	OEL STEL (Legal Basis:BEK No. 698 of 28/05/2020)	442 mg/m³
Denmark	OEL STEL (Legal Basis:BEK No. 698 of 28/05/2020)	100 ppm
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	200 mg/m³
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	50 ppm
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	450 mg/m³
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	100 ppm
Estonia	OEL Chemical Category (Legal Basis:Regulation No. 105)	Skin notation
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	220 mg/m³
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	50 ppm
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	440 mg/m³
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	100 ppm
Finland	OEL Chemical Category HTP-ARVOT 2020)	Potential for cutaneous absorption
Finland	OEL BLV (Legal Basis:HTP-ARVOT 2020)	Parameter: Methylhippuric acid - Medium: urine - Sampling time: after the shift
France	OEL STEL (Legal Basis:INRS ED 984)	442 mg/m³ (restrictive limit)
France	OEL STEL (Legal Basis:INRS ED 984)	100 ppm (restrictive limit)
France	OEL TWA (Legal Basis:INRS ED 984)	221 mg/m³ (restrictive limit)

Reaction mass of ethylbenzene and xylene		
France	OEL TWA (Legal Basis:INRS ED 984)	50 ppm (restrictive limit)
France	OEL Chemical Category (Legal Basis:INRS ED 984)	Risk of cutaneous absorption
France	OEL BLV (Legal Basis:Decree 2009-1570)	Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
Germany	OEL TWA (Legal Basis:TRGS 900)	220 mg/m³ (all isomers)
Germany	OEL TWA (Legal Basis:TRGS 900)	50 ppm (all isomers)
Germany	OEL BLV (Legal Basis:TRGS 903)	2000 mg/l Parameter: Methylhippuric(tolur-)acid (all isomers) - Medium: urine - Sampling time: end of shift (all isomers)
Germany	OEL Chemical Category (Legal Basis:TRGS 900)	Skin notation all isomers
Gibraltar	OEL TWA (Legal Basis:LN. 2018/181)	221 mg/m³ (pure)
Gibraltar	OEL TWA (Legal Basis:LN. 2018/181)	50 ppm (pure)
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	442 mg/m³ (pure)
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	100 ppm (pure)
Gibraltar	OEL Chemical Category (Legal Basis:LN. 2018/181)	Skin notation pure
Greece	OEL TWA (Legal Basis:PWHSE)	435 mg/m³
Greece	OEL TWA (Legal Basis:PWHSE)	100 ppm
Greece	OEL STEL (Legal Basis:PWHSE)	650 mg/m³
Greece	OEL STEL (Legal Basis:PWHSE)	150 ppm
Greece	OEL Chemical Category (Legal Basis:PWHSE)	skin - potential for cutaneous absorption
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	221 mg/m³
Hungary	OEL STEL (Legal Basis:Decree No. 05/2020)	442 mg/m³
Hungary	OEL Chemical Category (Legal Basis:Decree No. 05/2020)	Potential for cutaneous absorption
Ireland	OEL TWA (Legal Basis:2020 COP)	221 mg/m³
Ireland	OEL TWA (Legal Basis:2020 COP)	50 ppm
Ireland	OEL STEL (Legal Basis:2020 COP)	442 mg/m³
Ireland	OEL STEL (Legal Basis:2020 COP)	100 ppm
Ireland	OEL Chemical Category (Legal Basis:Decree No. 05/2020)	Potential for cutaneous absorption
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	20 ppm
USA ACGIH	BEI Value (Legal Basis:IMDFN1)	1,5 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift (technical or commercial grade)
Italy	OEL TWA (Legal Basis:Decree 81)	221 mg/m³ (pure)
Italy	OEL TWA (Legal Basis:Decree 81)	50 ppm (pure)
Italy	OEL STEL (Legal Basis:Decree 81)	442 mg/m³ (pure)
Italy	OEL STEL (Legal Basis:Decree 81)	100 ppm (pure)
Italy	OEL Chemical Category (Legal Basis:Decree 81)	skin - potential for cutaneous absorption pure
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	221 mg/m³
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	50 ppm
Latvia	OEL Chemical Category (Legal Basis:Reg. No. 325)	skin - potential for cutaneous exposure
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	221 mg/m³ (mixed isomers, pure)
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	50 ppm (mixed isomers, pure)
Lithuania	OEL STEL (Legal Basis:HN 23:2011)	442 mg/m³ (mixed isomers, pure)
Lithuania	OEL STEL (Legal Basis:A-N 684)	100 ppm (mixed isomers, pure)
Lithuania	OEL Chemical Category (Legal Basis:HN 23:2011)	Skin notation
Luxembourg	OEL TWA (Legal Basis:A-N 684)	221 mg/m³
Luxembourg	OEL TWA (Legal Basis:A-N 684)	50 ppm
Luxembourg	OEL STEL (Legal Basis:A-N 684)	442 mg/m³
Luxembourg	OEL STEL (Legal Basis:A-N 684)	100 ppm
Luxembourg	OEL Chemical Category (Legal Basis:A-N 684)	Possibility of significant uptake through the skin
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	221 mg/m³ (pure)
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	50 ppm (pure)
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	442 mg/m³ (pure)
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	100 ppm (pure)

Reaction mass of ethylbenzene and xylene		
Malta	OEL Chemical Category (Legal Basis:MOHSAA Ch. 424)	Possibility of significant uptake through the skin pure
Netherlands	OEL TWA (Legal Basis:OWCRLV)	210 mg/m³
Netherlands	OEL TWA (Legal Basis:OWCRLV)	47,5 ppm
Netherlands	OEL STEL (Legal Basis:OWCRLV)	442 mg/m³
Netherlands	OEL STEL (Legal Basis:OWCRLV)	100 ppm
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	108 mg/m³
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	25 ppm
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	135 mg/m³ (value calculated)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	37,5 ppm (value calculated)
Norway	OEL Chemical Category (Legal Basis:FOR-2020-04-06-695)	Skin notation
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	100 mg/m³ (mixture of isomers)
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	200 mg/m³ (mixture of isomers)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	221 mg/m³ (indicative limit value)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	50 ppm (indicative limit value)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	442 mg/m³ (indicative limit value)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	100 ppm (indicative limit value)
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 1.218)	221 mg/m³ (pure)
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	50 ppm (pure)
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	442 mg/m³ (pure)
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	100 ppm (pure)
Romania	OEL Chemical Category (Legal Basis:Gov. Dec. No 1.218)	Skin notation pure
Romania	OEL BLV (Legal Basis:Gov. Dec. No 1.218)	3 g/l Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	221 mg/m³
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	50 ppm
Slovakia	OEL STEL (Legal Basis:Gov. Decree 33/2018)	442 mg/m³
Slovakia	OEL Chemical Category (Legal Basis:Gov. Decree 33/2018)	Potential for cutaneous absorption
Slovakia	OEL BLV (Legal Basis:Gov. Decree 33/2018)	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 (Legal Basis:No. 79/19)	221 mg/m³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	50 ppm
Slovenia	OEL STEL (Legal Basis:No. 79/19)	442 mg/m³
Slovenia	OEL STEL (Legal Basis:No. 79/19)	100 ppm
Slovenia	OEL Chemical Category (Legal Basis:No. 79/19)	Potential for cutaneous absorption
Spain	OEL TWA (Legal Basis:OELCAIS)	221 mg/m³ (indicative limit value)
Spain	OEL TWA (Legal Basis:OELCAIS)	50 ppm (indicative limit value)
Spain	OEL STEL (Legal Basis:OELCAIS)	442 mg/m³
Spain	OEL STEL (Legal Basis:OELCAIS)	100 ppm
Spain	OEL Chemical Category (Legal Basis:OELCAIS)	skin - potential for cutaneous absorption
Spain	OEL BLV (Legal Basis:OELCAIS)	1 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	221 mg/m³ (Xylene)
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	50 ppm (Xylene)
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	442 mg/m³ (Xylene)
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	100 ppm (Xylene)
Sweden	OEL Chemical Category (Legal Basis:AFS 2018:1)	Skin notation
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	440 mg/m³
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	100 ppm
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	220 mg/m³
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	50 ppm
Switzerland	OEL Chemical Category (Legal Basis:OLVSNAIF)	Skin notation
Switzerland	OEL BLV (Legal Basis:OLVSNAIF)	2 g/l Parameter: Methylhippuric acid - Medium:

Reaction mass of ethylbenzene and xylene		
		urine - Sampling time: end of shift

8.2. Exposure Controls

Appropriate Engineering Controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapours 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.
Personal Protective Equipment	Gloves. Protective clothing. Protective goggles. 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. Wear fire/flame resistant/retardant clothing.
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 PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	Liquid
Colour, Appearance	Colourless
Odour	Solvent
Odour Threshold	No data available
pH	No data available
Evaporation Rate	No data available
Melting Point	No data available
Freezing Point	No data available
Boiling Point	140 °C (284 °F)
Flash Point	27 °C (81 °F)
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability	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
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

VOC content	70 – 90 %

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 polymerisation 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 oxidisers.

10.6. Hazardous Decomposition Products

Thermal decomposition generates: Carbon oxides (CO, CO_2). Oxides of platinum. 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	Ingestion; Dermal; Eye contact
Acute Toxicity (Oral)	Not classified (Based on available data, the classification criteria are not met)
Acute Toxicity (Dermal)	Harmful in contact with skin.
Acute Toxicity (Inhalation)	Harmful if inhaled.

MED-6640 Part A	
ATE CLP (dermal)	1.375,00 mg/kg bodyweight
ATE CLP (gases)	> 6700 ppm/4h

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 (Source: NLM_CIP)
LD50 Dermal Rat	> 2000 mg/kg (No deaths)

Octamethylcyclotetrasiloxane (556-67-2)	
LD50 Oral Rat	> 4800 mg/kg (No mortality)
LD50 Dermal Rat	> 2375 mg/kg (Source: ECHA)
LD50 Dermal Rabbit	> 2,5 ml/kg (No mortality)
LC50 Inhalation Rat	36 mg/l/4h

Reaction mass of ethylbenzene and xylene	
LD50 Oral Rat	3523 mg/kg
LC50 Inhalation Rat	6700 ppm/4h
ATE CLP (dermal)	1100,00 mg/kg bodyweight

Octamethyltrisiloxane (107-51-7)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 22,6 mg/l/4h

Skin Corrosion/Irritation	Causes skin irritation.
Eye Damage/Irritation	Causes serious eye irritation.
Respiratory or Skin Sensitisation	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)	May cause respiratory irritation.
Specific Target Organ Toxicity (Repeated Exposure)	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
Aspiration Hazard	May be fatal if swallowed and enters airways.
Symptoms/Injuries After Inhalation	Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness.
Symptoms/Injuries After Skin Contact	Redness, pain, swelling, itching, burning, dryness, and 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 eyes.
Symptoms/Injuries After Eye Contact	Contact causes severe irritation with redness and swelling of the conjunctiva.
Symptoms/Injuries After Ingestion	Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.
Chronic Symptoms	May cause damage to organs (hearing organs) through prolonged or repeated exposure.

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 Environment, Short–Term (Acute): Not classified (Based on available data, the classification criteria are not met)

Hazardous To The Aquatic Environment, Long–Term (Chronic): Harmful to aquatic life with long lasting effects.

Octamethylcyclotetrasiloxane (556-67-2)	
LC50 Fish	> 22 µg/l
NOEC Chronic Fish	0,0044 mg/l

Octamethyltrisiloxane (107-51-7)	
LC50 Fish	> 19,4 µg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) (No mortality)

12.2. Persistence and Degradability

MED-6640 Part A	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

MED-6640 Part A	
Bioaccumulative Potential	Not established.

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

Octamethylcyclotetrasiloxane (556-67-2)	
BCF Fish	12400
Partition coefficient n-octanol/water (Log Pow)	6,488 (at 25.1 °C

Reaction mass of ethylbenzene and xylene	
Partition coefficient n-octanol/water (Log Pow)	3,49 at 30 °C (at pH >=5-<=8)

Octamethyltrisiloxane (107-51-7)	
BCF Fish	7730 l/kg (whole body w.w.)
Partition coefficient n-octanol/water (Log Pow)	6,598 at 25,3 °C

12.4. Mobility in Soil

No additional information available

12.5. Results of PBT and vPvB Assessment

Decamethylcyclopentasiloxane (541-02-6)	This substance meets the vPvB criteria of REACH regulation, annex XIII
Dodecamethylcyclohexasiloxane (540-97-6)	This substance meets the vPvB criteria of REACH regulation, annex XIII
Octamethylcyclotetrasiloxane (556-67-2)	This substance meets the PBT criteria of REACH regulation, annex XIII This substance meets the vPvB criteria of REACH regulation, annex XIII
Octamethyltrisiloxane (107-51-7)	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 Recommendations	Dispose of contents/container in accordance with local, 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 or ID Number				
UN 1307	UN 1307	UN 1307	UN 1307	UN 1307
14.2. UN Proper Shipping Name				
XYLENES SOLUTION	XYLENES SOLUTION	XYLENES SOLUTION	XYLENES SOLUTION	XYLENES SOLUTION
14.3. Transport Hazard Class				
3	3	3	3	3
				
14.4. Packing Group				
III	III	III	III	III
14.5. Environmental Hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : 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 substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Decamethylcyclopentasiloxane (EC 208-764-9, CAS 541-02-6), Dodecamethylcyclohexasiloxane (EC 208-762-8, CAS 540-97-6), Octamethylcyclotetrasiloxane (EC 209-136-7, CAS 556-67-2), Octamethyltrisiloxane (EC 203-497-4, CAS 107-51-7)

15.1.1.3. POP (2019/1021) - Persistent Organic Pollutants Information
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)
15.1.1.4. PIC Regulation EU (649/2012) - Export and Import of Hazardous Chemicals Information
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)
15.1.1.5. REACH Annex XIV Information
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)
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	02/06/2025
Data Sources	Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.
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 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
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

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

Flam. Liq. 3	On basis of test data
Acute Tox. 4 (Dermal)	Calculation method
Acute Tox. 4 (Inhalation:gas)	Calculation method
Skin Irrit. 2	Calculation method
Eye Irrit. 2	Calculation method
STOT SE 3	Calculation method
STOT RE 2	Calculation method
Asp. Tox. 1	Calculation method
Aquatic Chronic 3	Calculation method

Indication of Changes

Section	Change	Date Changed	Version
1	Language modified	02/06/2025	7.0
2	Classification modified; Language modified	02/06/2025	7.0
3	Data modified; Language modified	02/06/2025	7.0
4	Language modified	02/06/2025	7.0
5	Language modified	02/06/2025	7.0
6	Language modified	02/06/2025	7.0
7	Language modified	02/06/2025	7.0
8	Data modified; Language modified	02/06/2025	7.0
9	Data modified	02/06/2025	7.0
10	Language modified	02/06/2025	7.0
11	Data modified; Language modified	02/06/2025	7.0
12	Data modified; Language modified	02/06/2025	7.0
13	Language modified	02/06/2025	7.0
14	Language modified	02/06/2025	7.0
15	Language modified	02/06/2025	7.0
16	Language modified	02/06/2025	7.0

Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienists
ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
BEI - Biological Exposure Indices (BEI)
BOD – Biochemical Oxygen Demand
CAS No. - Chemical Abstracts Service Number
CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008
COD – Chemical Oxygen Demand
EC – European Community
EC50 - Median Effective Concentration
EEC – European Economic Community
EINECS – European Inventory of Existing Commercial Chemical Substances
EmS-No. (Fire) - IMDG Emergency Schedule Fire
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage
EU – European Union
ErC50 - EC50 in Terms of Reduction Growth Rate
GHS – Globally Harmonized System of Classification and Labeling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC Code - International Bulk Chemical Code
IMDG - International Maritime Dangerous Goods
IPRV - Ilgalaikio Poveikio Ribinis Dydis
IOELV – Indicative Occupational Exposure Limit Value
LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-Observed-Effect Concentration
Log Koc - Soil Organic Carbon-water Partitioning Coefficient
NDS - 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
TA-Luft - Technische Anleitung zur Reinhaltung der Luft
TEL TRK – Technical Guidance Concentrations
ThOD – Theoretical Oxygen Demand
TLM - Median Tolerance Limit
TLV - Threshold Limit Value
TPRD - Trumpalaikio Poveikio Ribinis Dydis
TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern
TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine
TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte
TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
VOC – Volatile Organic Compounds
VLA-EC - Valor Límite Ambiental Exposición de Corta Duración

Log Kow - Octanol/water Partition Coefficient
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water
MAK – Maximum Workplace Concentration/Maximum Permissible Concentration
MARPOL - International Convention for the Prevention of Pollution
VLA-ED - Valor Límite Ambiental Exposición Diaria
VLE – Valeur Limite D'exposition
VME – Valeur Limite De Moyenne Exposition
vPvB - Very Persistent and Very Bioaccumulative
WEL – Workplace Exposure Limit
WGK - Wassergefährdungsklasse

Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)
AU_WES: Australia WES
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)
EC_RAR: European Commission Renewal Assessment Report
EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports
ECHA_API: European Chemicals Agency API
ECHA_RAC: ECHA Committee for Risk Assessment
EFSA: European Food Safety Authority
EPA: U.S. Environmental Protection Agency
EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)
EPA_HPV: High Production Volume Chemicals (U.S. Environmental Protection Agency)
EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)
EU_CLH: European Union Harmonised Classification and Labelling Proposal
EU_RAR: European Union Risk Assessment Report
FOOD_JOURN: Food Research Journal (1956)
IARC: The International Agency for Research on Cancer
IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
IUCLID: International Uniform Chemical Information Database
JAPAN_GHS: Japan GHS Basis for Classification Data
JP_J-CHECK: Japan J-Check
KR_NIER: South Korea National Institute of Environmental Research Evaluations
NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
NLM_CIP: National Library of Medicine ChemID plus database
NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
NLM_PUBMED: National Library of Medicine PubMed database
NTP: National Toxicology Program
NZ_CCID: New Zealand Chemical Classification and Information Database
OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)
WHO: World Health Organization

Limit Value Legal Basis*

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

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 - BGBl. 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 1: Substance List, Published through: Ministry of Economics and Labour of the Republic of Austria amended through the Government Gazette II (BGBL. II) No 119/2004) & BGBl. II No. 242/2006, BGBl. II No. 243/2007, lastly changed through BGBl. I Nr. 51/2011), BGBl. II Nr. 186/2015, BGBl. II Nr. 288/2017 amended by BGBl. II Nr. 254/2018.
Austria - BLV BGBl. II Nr. 254/2018 - Ordinance on health monitoring at the workplace 2008, published through BGBl. II Nr. 224/2007 by Austria Minister for Labor and Social Affairs, Lastly changed through BGBl. II Nr. 254/2018
Belgium - Royal Decree 21/01/2020 - Royal decree amending title 1 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 (1)
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.1 Limit values of chemical agents in the air of the working environment, and Annex № 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.10 of September 26, 2003 on the Protection of Workers from the Risks Associated with Exposure to Carcinogens and Mutagens at Work
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 mutagenic chemical substances (latest amendment 26/2020), and Presidential Decree 212/2006 - Protection of workers that are exposed to asbestos.
Hungary - Decree 05/2020 - 5/2020. (II. 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 1
Italy - Decree 81 - Title IX, Annex XLIII and XXXVIII, Professional Exposure Limits and Annex XXXIX Mandatory Biological Limit Values and Health Monitoring, Article 1, Law 123 of August 3, 2007, Legislative Decree 81 of April 9, 2008, Last amended: January 2020
Italy - IMDFN1 - Ministerial Decree of August 20, 1999 Final Note (1)
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/A1-272.
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

Annex No.1 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 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(I) 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 1 - Limits for air pollution, etc. and Appendix 3 - Biological Exposure Values, Amended by: No. 986 of October 11, 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. 105 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 Annexes1, 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.
XVIII, Updated from August 1, 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-2011-12-06-1358, Updated by: FOR-2020-04-06-695, FOR-2020-03-23-402, FOR-2018-12-20-2186, FOR-2018-08-21-1255, FOR-2017-12-20-2353.
Poland - Dz. U. 2020 Nr. 61 - Regulation of the Minister of Family, 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 1 - 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 1 - 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. 1 Mandatory National Occupational Exposure Limit Values for Chemical Agents. Amended by Decision no. 157, 584, 359, and 1.
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. 101/2005. 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. 100/2001 . 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 1 and 3. Latest edition Feb. 2019
Sweden - AFS 2018:1 - Statute Book of the Swedish Work Environment Authority, AFS 2018:1
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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Nusil EU GHS SDS (2020/878)

MED-6640 Part B

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Revision Date: 02/06/2025 Date of Issue: 29/05/2014 Version: 6.0

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

1.1. Product Identifier

Product Form	Mixture
Product Name	MED-6640 Part B
Synonyms	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

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
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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

Flam. Liq. 3	H226
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation:gas)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

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

2.2. Label Elements

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

Hazard Pictograms (CLP)

GHS02 GHS07 GHS08

Signal Word (CLP)	Danger
Hazard 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) through prolonged or repeated exposure. H412 - Harmful to aquatic life with long lasting effects.
Precautionary Statements (CLP)	P210 - Keep away from heat, hot surfaces, sparks, open flames 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/lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P260 - Do not breathe mist, spray, vapours. P264 - Wash hands, forearms, and other exposed areas thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor. 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. P312 - Call a POISON CENTRE or doctor if you feel unwell. P321 - Specific treatment (see section 4 on this label). 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 before reuse. P370+P378 - In case of fire: Use carbon dioxide (CO2), extinguishing powder, foam, sand to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other Hazards

Other Hazards Not Contributing	Exposure may aggravate pre-existing eye, skin, or respiratory

to the Classification conditions.

Decamethylcyclopentasiloxane (541-02-6)	This substance meets the vPvB criteria of REACH regulation, annex XIII
Dodecamethylcyclohexasiloxane (540-97-6)	This substance meets the vPvB criteria of REACH regulation, annex XIII
Octamethylcyclotetrasiloxane (556-67-2)	This substance meets the PBT criteria of REACH regulation, annex XIII This substance meets the vPvB criteria of REACH regulation, annex XIII
Octamethyltrisiloxane (107-51-7)	This substance meets the vPvB criteria 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
Reaction mass of ethylbenzene and xylene	(CAS-No.) Not Applicable (EC-No.) 905-588-0 (REACH-no) 01-2119539452-40	70 - 90	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
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	(CAS-No.) 68909-20-6 (EC-No.) 272-697-1 (EC Index-No.) 014-052-00-7 (REACH-no) 01-2119379499-16 (synthetic amorphous silica); 01-2119438176-38 (hexamethyldisilazane)	< 10	STOT RE 2, H373*
Siloxanes and Silicones, dimethyl, methyl hydrogen	(CAS-No.) 68037-59-2	< 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Decamethylcyclopentasiloxane substance listed as REACH Candidate	(CAS-No.) 541-02-6 (EC-No.) 208-764-9	< 0,25	Not classified
Dodecamethylcyclohexasiloxane substance listed as REACH Candidate	(CAS-No.) 540-97-6 (EC-No.) 208-762-8	< 0,25	Not classified
Octamethylcyclotetrasiloxane substance listed as REACH Candidate	(CAS-No.) 556-67-2 (EC-No.) 209-136-7 (EC Index-No.) 014-018-00-1	< 0,25	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10)
Octamethyltrisiloxane substance listed on REACH Candidate List	(CAS-No.) 107-51-7 (EC-No.) 203-497-4	< 0,25	Flam. Liq. 3, H226
3-Butyn-2-ol, 2-methyl-	(CAS-No.) 115-19-5 (EC-No.) 204-070-5	< 0,25	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Repr. 2, H361 STOT SE 3, H336

*This hazard applies to silica in dust form. There is no exposure to dust as the substance is bound within the matrix of the product.

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.
First-Aid Measures After Eye Contact	Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-Aid Measures After Ingestion	Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Place affected person on their side.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Effects	May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation. Harmful in contact with skin. Harmful if inhaled. May be fatal if swallowed and enters airways. May cause damage to organs (hearing organs) through prolonged or repeated exposure.
Symptoms/Effects After Inhalation	Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness.
Symptoms/Effects After Skin Contact	Redness, pain, swelling, itching, burning, dryness, and 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 eyes.
Symptoms/Effects After Eye Contact	Contact causes severe irritation with redness and swelling of the conjunctiva.
Symptoms/Effects After Ingestion	Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.
Chronic Symptoms	May cause damage to organs (hearing organs) through prolonged or repeated exposure.

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	Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO_2). Water may be ineffective but water should be used to keep fire-exposed container cool.
Unsuitable Extinguishing Media	Do not use a heavy water stream. A heavy water stream may spread burning liquid.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard	Flammable liquid and vapour.
Explosion Hazard	May form flammable or explosive vapour-air mixture.
Reactivity	Reacts violently with strong oxidisers. Increased risk of fire or explosion. Contact with water, alcohols, acids or bases, and many metals or metallic compounds can liberate flammable Hydrogen gas which can form explosive mixtures in air.
Hazardous Combustion Products	Carbon oxides (CO, CO_2). Explosive hydrogen gas. Formaldehyde. Silicon oxides.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

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

6.1.1. For Non-Emergency Personnel

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

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. Eliminate ignition sources.

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. Ventilate area.
Methods for Cleaning Up	Clean up spills immediately and dispose of waste safely. Use only non-sparking tools. 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. 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 Processed	Handle empty containers with care because residual vapours are flammable. Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapours.
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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Take precautionary measures against static discharge. Use only non-sparking tools. Handle empty containers with care because they may still present a hazard. Use only outdoors or in a well-ventilated area.
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. 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 accordance with applicable national storage class systems. 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	Alcohols. Metals. Strong acids, strong bases, strong oxidisers. Water.

7.3. Specific End Use(s)

For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Please see section 16 for the legal basis of limit value information in section 8.1, including the national legislation or provision which gives rise to a given limit.

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	4 mg/m³ (also Silica manufactured through wet process-inhalable fraction)
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	0,1 mg/m³ (respirable fraction) 4 mg/m³
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	2 mg/m³ (amorphous-respirable dust)
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	5 mg/m³ (Silicon dioxide, amorphous)
Germany	OEL TWA (Legal Basis:TRGS 900)	4 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Ireland	OEL TWA (Legal Basis:2020 COP)	6 mg/m³ (total inhalable dust) 2,4 mg/m³ (respirable dust)
Ireland	OEL STEL (Legal Basis:2020 COP)	18 mg/m³ (calculated-respirable dust) 7,2 mg/m³ (calculated-respirable dust)
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	1 mg/m³
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	1,5 mg/m³ (respirable dust)

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (68909-20-6)		
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	3 mg/m³ (value calculated-respirable dust)
Slovenia	OEL TWA (Legal Basis:No. 79/19)	4 mg/m³ (inhalable fraction, gel)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	4 mg/m³ (including Silica, amorphous-inhalable dust)
3-Butyn-2-ol, 2-methyl- (115-19-5)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	3 mg/m³
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	0,9 ppm
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	6 mg/m³
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	1,8 ppm
Germany	OEL TWA (Legal Basis:TRGS 900)	3 mg/m³
Germany	OEL TWA (Legal Basis:TRGS 900)	0,9 ppm
Slovenia	OEL TWA (Legal Basis:No. 79/19)	3 mg/m³ (2-Methylbut-3-on-2-ol)
Slovenia	OEL TWA (Legal Basis:No. 79/19)	0,9 ppm (2-Methylbut-3-on-2-ol)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	6 mg/m³ (2-Methylbut-3-on-2-ol)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	1,8 ppm (2-Methylbut-3-on-2-ol)
Reaction mass of ethylbenzene and xylene		
EU	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	221 mg/m³ (pure)
EU	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	50 ppm (pure)
EU	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	442 mg/m³ (pure)
EU	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	100 ppm (pure)
EU	Remark	Possibility of significant uptake through the skin (pure)
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	221 mg/m³ (all isomers)
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	50 ppm (all isomers)
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	442 mg/m³
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	100 ppm
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	221 mg/m³
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	50 ppm
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	442 mg/m³
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	100 ppm
Belgium	OEL Chemical Category (Legal Basis:Royal Decree 21/01/2020)	Skin, Skin notation pure
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	221 mg/m³ (pure)
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	50 ppm (pure)
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	442 mg/m³ (pure)
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	100 ppm (pure)
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	221 mg/m³
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	50 ppm
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	442 mg/m³
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	100 ppm
Croatia	OEL Chemical Category (Legal Basis:OG No. 91/2018)	Skin notation
Croatia	OEL BLV (Legal Basis:OG No. 91/2018)	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 (Legal Basis:KDP 16/2019)	221 mg/m³
Cyprus	OEL TWA (Legal Basis:KDP 16/2019)	50 ppm
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	442 mg/m³
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	100 ppm
Cyprus	OEL Chemical Category (Legal Basis:KDP 16/2019)	Skin-potential for cutaneous absorption
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	200 mg/m³
Czech Republic	OEL Chemical Category (Legal Basis:Decree No. 107/2013)	Potential for cutaneous absorption
Czech Republic	OEL BLV (Legal Basis:Reg. 41/2020)	820 µmol/mmol Creatinine Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift

Reaction mass of ethylbenzene and xylene		
		1400 mg/g creatinine Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	109 mg/m³ (Xylene, all isomers)
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	25 ppm (Xylene, all isomers)
Denmark	OEL STEL (Legal Basis:BEK No. 698 of 28/05/2020)	442 mg/m³
Denmark	OEL STEL (Legal Basis:BEK No. 698 of 28/05/2020)	100 ppm
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	200 mg/m³
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	50 ppm
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	450 mg/m³
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	100 ppm
Estonia	OEL Chemical Category (Legal Basis:Regulation No. 105)	Skin notation
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	220 mg/m³
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	50 ppm
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	440 mg/m³
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	100 ppm
Finland	OEL Chemical Category HTP-ARVOT 2020)	Potential for cutaneous absorption
Finland	OEL BLV (Legal Basis:HTP-ARVOT 2020)	Parameter: Methylhippuric acid - Medium: urine - Sampling time: after the shift
France	OEL STEL (Legal Basis:INRS ED 984)	442 mg/m³ (restrictive limit)
France	OEL STEL (Legal Basis:INRS ED 984)	100 ppm (restrictive limit)
France	OEL TWA (Legal Basis:INRS ED 984)	221 mg/m³ (restrictive limit)
France	OEL TWA (Legal Basis:INRS ED 984)	50 ppm (restrictive limit)
France	OEL Chemical Category (Legal Basis:INRS ED 984)	Risk of cutaneous absorption
France	OEL BLV (Legal Basis:Decree 2009-1570)	Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
Germany	OEL TWA (Legal Basis:TRGS 900)	220 mg/m³ (all isomers)
Germany	OEL TWA (Legal Basis:TRGS 900)	50 ppm (all isomers)
Germany	OEL BLV (Legal Basis:TRGS 903)	2000 mg/l Parameter: Methylhippuric(tolur-)acid (all isomers) - Medium: urine - Sampling time: end of shift (all isomers)
Germany	OEL Chemical Category (Legal Basis:TRGS 900)	Skin notation all isomers
Gibraltar	OEL TWA (Legal Basis:LN. 2018/181)	221 mg/m³ (pure)
Gibraltar	OEL TWA (Legal Basis:LN. 2018/181)	50 ppm (pure)
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	442 mg/m³ (pure)
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	100 ppm (pure)
Gibraltar	OEL Chemical Category (Legal Basis:LN. 2018/181)	Skin notation pure
Greece	OEL TWA (Legal Basis:PWHSE)	435 mg/m³
Greece	OEL TWA (Legal Basis:PWHSE)	100 ppm
Greece	OEL STEL (Legal Basis:PWHSE)	650 mg/m³
Greece	OEL STEL (Legal Basis:PWHSE)	150 ppm
Greece	OEL Chemical Category (Legal Basis:PWHSE)	skin - potential for cutaneous absorption
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	221 mg/m³
Hungary	OEL STEL (Legal Basis:Decree No. 05/2020)	442 mg/m³
Hungary	OEL Chemical Category (Legal Basis:Decree No. 05/2020)	Potential for cutaneous absorption
Ireland	OEL TWA (Legal Basis:2020 COP)	221 mg/m³
Ireland	OEL TWA (Legal Basis:2020 COP)	50 ppm
Ireland	OEL STEL (Legal Basis:2020 COP)	442 mg/m³
Ireland	OEL STEL (Legal Basis:2020 COP)	100 ppm
Ireland	OEL Chemical Category (Legal Basis:Decree No. 05/2020)	Potential for cutaneous absorption
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	20 ppm
USA ACGIH	BEI Value (Legal Basis:IMDFN1)	1,5 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift (technical or commercial grade)
Italy	OEL TWA (Legal Basis:Decree 81)	221 mg/m³ (pure)
Italy	OEL TWA (Legal Basis:Decree 81)	50 ppm (pure)

Reaction mass of ethylbenzene and xylene		
Italy	OEL STEL (Legal Basis:Decree 81)	442 mg/m³ (pure)
Italy	OEL STEL (Legal Basis:Decree 81)	100 ppm (pure)
Italy	OEL Chemical Category (Legal Basis:Decree 81)	skin - potential for cutaneous absorption pure
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	221 mg/m³
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	50 ppm
Latvia	OEL Chemical Category (Legal Basis:Reg. No. 325)	skin - potential for cutaneous exposure
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	221 mg/m³ (mixed isomers, pure)
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	50 ppm (mixed isomers, pure)
Lithuania	OEL STEL (Legal Basis:HN 23:2011)	442 mg/m³ (mixed isomers, pure)
Lithuania	OEL STEL (Legal Basis:A-N 684)	100 ppm (mixed isomers, pure)
Lithuania	OEL Chemical Category (Legal Basis:HN 23:2011)	Skin notation
Luxembourg	OEL TWA (Legal Basis:A-N 684)	221 mg/m³
Luxembourg	OEL TWA (Legal Basis:A-N 684)	50 ppm
Luxembourg	OEL STEL (Legal Basis:A-N 684)	442 mg/m³
Luxembourg	OEL STEL (Legal Basis:A-N 684)	100 ppm
Luxembourg	OEL Chemical Category (Legal Basis:A-N 684)	Possibility of significant uptake through the skin
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	221 mg/m³ (pure)
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	50 ppm (pure)
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	442 mg/m³ (pure)
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	100 ppm (pure)
Malta	OEL Chemical Category (Legal Basis:MOHSAA Ch. 424)	Possibility of significant uptake through the skin pure
Netherlands	OEL TWA (Legal Basis:OWCRLV)	210 mg/m³
Netherlands	OEL TWA (Legal Basis:OWCRLV)	47,5 ppm
Netherlands	OEL STEL (Legal Basis:OWCRLV)	442 mg/m³
Netherlands	OEL STEL (Legal Basis:OWCRLV)	100 ppm
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	108 mg/m³
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	25 ppm
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	135 mg/m³ (value calculated)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	37,5 ppm (value calculated)
Norway	OEL Chemical Category (Legal Basis:FOR-2020-04-06-695)	Skin notation
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	100 mg/m³ (mixture of isomers)
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	200 mg/m³ (mixture of isomers)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	221 mg/m³ (indicative limit value)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	50 ppm (indicative limit value)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	442 mg/m³ (indicative limit value)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	100 ppm (indicative limit value)
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 1.218)	221 mg/m³ (pure)
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	50 ppm (pure)
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	442 mg/m³ (pure)
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	100 ppm (pure)
Romania	OEL Chemical Category (Legal Basis:Gov. Dec. No 1.218)	Skin notation pure
Romania	OEL BLV (Legal Basis:Gov. Dec. No 1.218)	3 g/l Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	221 mg/m³
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	50 ppm
Slovakia	OEL STEL (Legal Basis:Gov. Decree 33/2018)	442 mg/m³
Slovakia	OEL Chemical Category (Legal Basis:Gov. Decree 33/2018)	Potential for cutaneous absorption
Slovakia	OEL BLV (Legal Basis:Gov. Decree 33/2018)	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 (Legal Basis:No. 79/19)	221 mg/m³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	50 ppm
Slovenia	OEL STEL (Legal Basis:No. 79/19)	442 mg/m³
Slovenia	OEL STEL (Legal Basis:No. 79/19)	100 ppm

Reaction mass of ethylbenzene and xylene		
Slovenia	OEL Chemical Category (Legal Basis:No. 79/19)	Potential for cutaneous absorption
Spain	OEL TWA (Legal Basis:OELCAIS)	221 mg/m³ (indicative limit value)
Spain	OEL TWA (Legal Basis:OELCAIS)	50 ppm (indicative limit value)
Spain	OEL STEL (Legal Basis:OELCAIS)	442 mg/m³
Spain	OEL STEL (Legal Basis:OELCAIS)	100 ppm
Spain	OEL Chemical Category (Legal Basis:OELCAIS)	skin - potential for cutaneous absorption
Spain	OEL BLV (Legal Basis:OELCAIS)	1 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	221 mg/m³ (Xylene)
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	50 ppm (Xylene)
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	442 mg/m³ (Xylene)
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	100 ppm (Xylene)
Sweden	OEL Chemical Category (Legal Basis:AFS 2018:1)	Skin notation
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	440 mg/m³
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	100 ppm
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	220 mg/m³
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	50 ppm
Switzerland	OEL Chemical Category (Legal Basis:OLVSNAIF)	Skin notation
Switzerland	OEL BLV (Legal Basis:OLVSNAIF)	2 g/l Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift

8.2. Exposure Controls

Appropriate Engineering Controls

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

Personal Protective Equipment

Gloves. Protective clothing. Protective goggles. 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. Wear fire/flame resistant/retardant clothing.

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 PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	Liquid
Colour, Appearance	Colourless
Odour	Solvent
Odour Threshold	No data available
pH	No data available
Evaporation Rate	No data available
Melting Point	No data available
Freezing Point	No data available
Boiling Point	140 °C (284 °F)
Flash Point	27 °C (81 °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
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

VOC content	70 – 90 %

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reacts violently with strong oxidisers. Increased risk of fire or explosion. Contact with water, alcohols, acids or bases, and many metals or metallic compounds can liberate flammable Hydrogen gas which can form explosive mixtures in air.

10.2. Chemical Stability

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

10.3. Possibility of Hazardous Reactions

Hazardous polymerisation will not occur. Evolved hydrogen gas is flammable and may form explosive mixtures with air.

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

Alcohols. Metals. Strong acids, strong bases, strong oxidisers. Water.

10.6. Hazardous Decomposition Products

May produce explosive hydrogen gas on contact with incompatibilities or upon thermal decomposition. Thermal decomposition generates: Carbon oxides (CO, CO_2). Silicon oxides. Will decompose above 150 °C (>300 °F) releasing formaldehyde vapours. Formaldehyde is a potential carcinogen and can act as a 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	Ingestion; Dermal; Eye contact
Acute Toxicity (Oral)	Not classified (Based on available data, the classification criteria are not met)
Acute Toxicity (Dermal)	Harmful in contact with skin.
Acute Toxicity (Inhalation)	Harmful if inhaled.

MED-6640 Part B	
ATE CLP (dermal)	1375 mg/kg bodyweight
ATE CLP (gases)	> 6700 ppm/4h

3-Butyn-2-ol, 2-methyl- (115-19-5)	
LD50 Oral Rat	1950 mg/kg (Source: NLM_CIP)
LD50 Dermal Rat	> 2000 mg/kg (no deaths)
LC50 Inhalation Rat	> 21300 mg/m³ (Exposure time: 4 h Source: OECD_SIDS)

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 (Source: NLM_CIP)
LD50 Dermal Rat	> 2000 mg/kg (No deaths)

Octamethylcyclotetrasiloxane (556-67-2)	
LD50 Oral Rat	> 4800 mg/kg (No mortality)
LD50 Dermal Rat	> 2375 mg/kg (Source: ECHA)
LD50 Dermal Rabbit	> 2,5 ml/kg (No mortality)
LC50 Inhalation Rat	36 mg/l/4h

Octamethyltrisiloxane (107-51-7)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 22,6 mg/l/4h

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

Skin Corrosion/Irritation	Causes skin irritation.
Eye Damage/Irritation	Causes serious eye irritation.
Respiratory or Skin Sensitisation	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)	May cause respiratory irritation.
Specific Target Organ Toxicity (Repeated Exposure)	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
Aspiration Hazard	May be fatal if swallowed and enters airways.
Symptoms/Injuries After Inhalation	Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness.
Symptoms/Injuries After Skin Contact	Redness, pain, swelling, itching, burning, dryness, and 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 eyes.
Symptoms/Injuries After Eye Contact	Contact causes severe irritation with redness and swelling of the conjunctiva.
Symptoms/Injuries After Ingestion	Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.
Chronic Symptoms	May cause damage to organs (hearing organs) through prolonged or repeated exposure.

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 Environment, Short–Term (Acute)	Not classified (Based on available data, the classification criteria are not met)
Hazardous To The Aquatic Environment, Long–Term (Chronic)	Harmful to aquatic life with long lasting effects.

3-Butyn-2-ol, 2-methyl- (115-19-5)	
LC50 - Fish	3120 – 3480 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Crustacea	500 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms	500 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
LC50 Fish	2200 – 4600 mg/l (Exposure time: 96 h - Species: Leuciscus idus [static])
EC50 Other Aquatic Organisms	500 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)

Octamethylcyclotetrasiloxane (556-67-2)	
LC50 Fish	> 22 µg/l
NOEC Chronic Fish	0,0044 mg/l

Octamethyltrisiloxane (107-51-7)	
LC50 Fish	> 19,4 µg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) (No mortality)

12.2. Persistence and Degradability

MED-6640 Part B	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

MED-6640 Part B	
Bioaccumulative Potential	Not established.

3-Butyn-2-ol, 2-methyl- (115-19-5)

3-Butyn-2-ol, 2-methyl- (115-19-5)	
Partition coefficient n-octanol/water (Log Pow)	0,318 at 25 °C

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

Octamethylcyclotetrasiloxane (556-67-2)	
BCF Fish	12400
Partition coefficient n-octanol/water (Log Pow)	6,488 at 25.1 °C

Octamethyltrisiloxane (107-51-7)	
BCF Fish	7730 l/kg (whole body w.w.)
Partition coefficient n-octanol/water (Log Pow)	6,598 at 25,3 °C

Reaction mass of ethylbenzene and xylene	
Partition coefficient n-octanol/water (Log Pow)	3,49 at 30 °C (at pH >=5-<=8)

12.4. Mobility in Soil

No additional information available

12.5. Results of PBT and vPvB Assessment

Decamethylcyclopentasiloxane (541-02-6)	This substance meets the vPvB criteria of REACH regulation, annex XIII
Dodecamethylcyclohexasiloxane (540-97-6)	This substance meets the vPvB criteria of REACH regulation, annex XIII
Octamethylcyclotetrasiloxane (556-67-2)	This substance meets the PBT criteria of REACH regulation, annex XIII This substance meets the vPvB criteria of REACH regulation, annex XIII
Octamethyltrisiloxane (107-51-7)	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 Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

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

Ecology - Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

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

ADR	IMDG	IATA	ADN	RID
14.1. UN Number or ID Number				
UN 1307	UN 1307	UN 1307	UN 1307	UN 1307
14.2. UN Proper Shipping Name				
XYLENES SOLUTION	XYLENES SOLUTION	XYLENES SOLUTION	XYLENES SOLUTION	XYLENES SOLUTION
14.3. Transport Hazard Class				
3	3	3	3	3
				
14.4. Packing Group				
III	III	III	III	III
14.5. Environmental Hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : 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 substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Decamethylcyclopentasiloxane (EC 208-764-9, CAS 541-02-6), Dodecamethylcyclohexasiloxane (EC 208-762-8, CAS 540-97-6), Octamethylcyclotetrasiloxane (EC 209-136-7, CAS 556-67-2), Octamethyltrisiloxane (EC 203-497-4, CAS 107-51-7)

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

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

15.1.1.4. PIC Regulation EU (649/2012) - Export and Import of Hazardous Chemicals Information

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

15.1.1.5. REACH Annex XIV Information

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

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	02/06/2025
Data Sources	Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.
Other Information	According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full Text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
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

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

Flam. Liq. 3	On basis of test data
Acute Tox. 4 (Dermal)	Calculation method
Acute Tox. 4 (Inhalation:gas)	Calculation method
Skin Irrit. 2	Calculation method
Eye Irrit. 2	Calculation method
STOT SE 3	Calculation method
STOT RE 2	Calculation method
Asp. Tox. 1	Calculation method
Aquatic Chronic 3	Calculation method

Indication of Changes

Section	Change	Date Changed	Version
1	Language modified	02/06/2025	6.0
2	Classification modified; Language modified	02/06/2025	6.0
3	Data modified; Language modified	02/06/2025	6.0
4	Language modified	02/06/2025	6.0
5	Language modified	02/06/2025	6.0
6	Language modified	02/06/2025	6.0
7	Language modified	02/06/2025	6.0
8	Data modified; Language modified	02/06/2025	6.0
9	Data modified	02/06/2025	6.0
10	Language modified	02/06/2025	6.0
11	Data modified; Language modified	02/06/2025	6.0
12	Data modified; Language modified	02/06/2025	6.0
13	Language modified	02/06/2025	6.0
14	Language modified	02/06/2025	6.0
15	Language modified	02/06/2025	6.0
16	Language modified	02/06/2025	6.0

Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienists
ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
BEI - Biological Exposure Indices (BEI)
BOD – Biochemical Oxygen Demand
CAS No. - Chemical Abstracts Service Number
CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008
COD – Chemical Oxygen Demand
EC – European Community
EC50 - Median Effective Concentration
EEC – European Economic Community
EINECS – European Inventory of Existing Commercial Chemical Substances
EmS-No. (Fire) - IMDG Emergency Schedule Fire
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage
EU – European Union
ErC50 - EC50 in Terms of Reduction Growth Rate
GHS – Globally Harmonized System of Classification and Labeling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC Code - International Bulk Chemical Code
IMDG - International Maritime Dangerous Goods
IPRV - Ilgalaikio Poveikio Ribinis Dydis
IOELV – Indicative Occupational Exposure Limit Value
LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-Observed-Effect Concentration
Log Koc - Soil Organic Carbon-water Partitioning Coefficient
Log Kow - Octanol/water Partition Coefficient
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water
MAK – Maximum Workplace Concentration/Maximum Permissible Concentration
MARPOL - International Convention for the Prevention of Pollution
NDS - 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
TA-Luft - Technische Anleitung zur Reinhaltung der Luft
TEL TRK – Technical Guidance Concentrations
ThOD – Theoretical Oxygen Demand
TLM - Median Tolerance Limit
TLV - Threshold Limit Value
TPRD - Trumpalaikio Poveikio Ribinis Dydis
TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern
TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine
TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte
TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
VOC – Volatile Organic Compounds
VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
VLA-ED - Valor Límite Ambiental Exposición Diaria
VLE – Valeur Limite D'exposition
VME – Valeur Limite De Moyenne Exposition
vPvB - Very Persistent and Very Bioaccumulative
WEL – Workplace Exposure Limit
WGK - Wassergefährdungsklasse

Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)
AU_WES: Australia WES
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)
EC_RAR: European Commission Renewal Assessment Report
FOOD_JOURN: Food Research Journal (1956)
IARC: The International Agency for Research on Cancer
IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
IUCLID: International Uniform Chemical Information Database

EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports
ECHA_API: European Chemicals Agency API
ECHA_RAC: ECHA Committee for Risk Assessment
EFSA: European Food Safety Authority
EPA: U.S. Environmental Protection Agency
EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)
EPA_HPV: High Production Volume Chemicals (U.S. Environmental Protection Agency)
EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)
EU_CLH: European Union Harmonised Classification and Labelling Proposal
EU_RAR: European Union Risk Assessment Report
JAPAN_GHS: Japan GHS Basis for Classification Data
JP_J-CHECK: Japan J-Check
KR_NIER: South Korea National Institute of Environmental Research Evaluations
NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
NLM_CIP: National Library of Medicine ChemID plus database
NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
NLM_PUBMED: National Library of Medicine PubMed database
NTP: National Toxicology Program
NZ_CCID: New Zealand Chemical Classification and Information Database
OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)
WHO: World Health Organization

Limit Value Legal Basis*

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

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 - BGBl. 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 1: Substance List, Published through: Ministry of Economics and Labour of the Republic of Austria amended through the Government Gazette II (BGBL. II) No 119/2004) & BGBl. II No. 242/2006, BGBl. II No. 243/2007, lastly changed through BGBl. I Nr. 51/2011), BGBl. II Nr. 186/2015, BGBl. II Nr. 288/2017 amended by BGBl. II Nr. 254/2018.
Austria - BLV BGBl. II Nr. 254/2018 - Ordinance on health monitoring at the workplace 2008, published through BGBl. II Nr. 224/2007 by Austria Minister for Labor and Social Affairs, Lastly changed through BGBl. II Nr. 254/2018
Belgium - Royal Decree 21/01/2020 - Royal decree amending title 1 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 (1)
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.1 Limit values of chemical agents in the air of the working environment, and Annex № 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.10 of September 26, 2003 on the Protection of Workers from the Risks Associated with Exposure to Carcinogens and Mutagens at Work Annex No.1 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 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(I) 2000 - Occupational
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 mutagenic chemical substances (latest amendment 26/2020), and Presidential Decree 212/2006 - Protection of workers that are exposed to asbestos.
Hungary - Decree 05/2020 - 5/2020. (II. 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 1
Italy - Decree 81 - Title IX, Annex XLIII and XXXVIII, Professional Exposure Limits and Annex XXXIX Mandatory Biological Limit Values and Health Monitoring, Article 1, Law 123 of August 3, 2007, Legislative Decree 81 of April 9, 2008, Last amended: January 2020
Italy - IMDFN1 - Ministerial Decree of August 20, 1999 Final Note (1)
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/A1-272.
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 1, 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-2011-12-06-1358, Updated by: FOR-2020-04-06-695, FOR-2020-03-23-402, FOR-2018-12-20-2186, FOR-2018-08-21-1255, FOR-2017-12-20-2353.
Poland - Dz. U. 2020 Nr. 61 - Regulation of the Minister of Family, 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 1 - 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

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 1 - Limits for air pollution, etc. and Appendix 3 - Biological Exposure Values, Amended by: No. 986 of October 11, 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. 105 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 Annexes1, 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.
exposure limits and biological exposure indices to chemical agents. Table 1 - 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. 1 Mandatory National Occupational Exposure Limit Values for Chemical Agents. Amended by Decision no. 157, 584, 359, and 1.
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. 101/2005. 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. 100/2001 . 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 1 and 3. Latest edition Feb. 2019
Sweden - AFS 2018:1 - Statute Book of the Swedish Work Environment Authority, AFS 2018:1
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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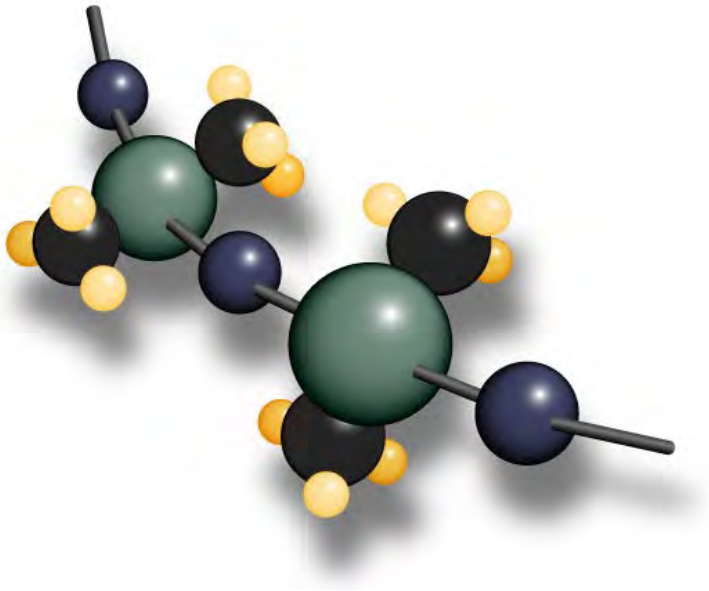

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