

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation),
EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 04.02.2026

Version number 7 (replaces version 6)

Revision: 04.02.2026

*** SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** PENECOAT™ CLEAR**UFI:** P2A0-G02V-X000-7X0V**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture: Transparent liquid-applied polyurethane waterproofing coating.**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

PENETRON HELLAS S.A.

50, THRAKOMAKEDONON AV., 136 79 ACHARNES, GREECE

TEL.: +30 210 2448250 - FAX: + 30 210 2476803

Email: info@penetron.gr Site: www.penetron.gr

G.E.M.I. No: 07278001000

1.4 Emergency telephone number:

European Emergency Tel.: 112

*** SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation EC No 1272/2008 CLP:**

GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements**Labelling according to Regulation EC No 1272/2008 CLP:**

The product is classified and labelled according to the CLP regulation.

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Hazard pictograms:

GHS02 GHS07 GHS08

Signal word: Danger**Hazard-determining components of labelling:**

Reaction mass of ethylbenzene and m-xylene and p-xylene
 1,6-hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate
 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers
 xylene, mixture of isomers

Hazard statements:

H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H304 May be fatal if swallowed and enters airways.

Precautionary statements:

P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P331 Do NOT induce vomiting.
 P302+P352 IF ON SKIN: Wash with plenty of water and soap.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.
 As from 24 August 2023 adequate training is required before industrial or professional use.

2.3 Other hazards**Results of PBT and vPvB assessment**

The product does not contain ingredients that are considered either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at a concentration equal to or greater than 0,1 % w/w

PBT: Not applicable**vPvB:** Not applicable

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Determination of endocrine-disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Description:** Mixture: consisting of the following components.**Ingredients according Regulation (EU) 2020/878:**

EC number: 905-562-9 Reg.nr.: 01-2119488216-32-XXXX	Reaction mass of ethylbenzene and m-xylene and p-xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limit: STOT RE 2; H373: C ≥ 10 %	>20-<25%
CAS: 140921-24-0 ELINCS: 411-700-4 Index number: 616-079-00-5 Reg.nr.: 01-2119983489-15-XXXX	1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate Skin Sens. 1, H317	>10-<15%
CAS: 53880-05-0 NLP: 500-125-5	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers Skin Sens. 1B, H317; STOT SE 3, H335	>5-<10%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336 substance with a Community workplace exposure limit	>5-<10%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-XXXX	xylene, mixture of isomers Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 substance with a Community workplace exposure limit	>2-<4%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332 substance with a Community workplace exposure limit	>0.1-<1%
CAS: 4098-71-9 EINECS: 223-861-6 Index number: 615-008-00-5 Reg.nr.: 01-2119490408-31-XXXX	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate Acute Tox. 3, H331; Resp. Sens. 1, H334; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 % substance with a Community workplace exposure limit	>0.1-<0.6%

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SVHC

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No 1907/2006 (REACH), Article 59)

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Take affected persons out into the fresh air.

Seek immediate medical advice.

After inhalation:

If breathing is difficult, remove to fresh air. Restore breathing. Keep warm and quiet.

In case of unconsciousness place patient stably in side position for transportation.

In case of discomfort, call a doctor immediately.

After skin contact:

Remove contaminated clothing.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Immediately rinse the eyes with plenty of water, alternately lifting the upper and lower eyelids.

Check and remove contact lenses if any.

Continue to rinse for at least 15 minutes.

Seek medical attention if irritation occurs.

Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing:

Do not induce vomiting; call for medical help immediately.

Consult the doctor immediately and show the label or this Safety Data Sheet.

Never give something by mouth to an unconscious person

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing agents: CO₂, powder or water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3 Advice for firefighters**Protective equipment:**

Respiratory protective device.

Wear fully protective suit.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Avoid inhalation of vapors.

Wear protective clothing.

Keep away from ignition sources.

Avoid contact with skin and eyes.

6.1.1 For non-emergency personnel Avoid contact with dripping or leaking material.

6.1.2 For emergency responders

First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

6.2 Environmental precautions:

Do not allow it to enter sewers/ surface or ground water. It must not penetrate the earth's waters.

6.3 Methods and material for containment and cleaning up:

Collect with absorbent material (sand, diatomite).

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Wash contaminated clothes before reusing them.

Avoid contact with skin and eyes.

Avoid inhaling vapors.

Wash your hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in well-sealed containers and in well-ventilated areas. Keep it cool.

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Stored away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed.

Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

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* **SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 108-65-6 2-methoxy-1-methylethyl acetate**

IOELV (EU)	Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin
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WEL (United Kingdom)	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
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CAS: 1330-20-7 xylene, mixture of isomers

IOELV (EU)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin
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WEL (United Kingdom)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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CAS: 100-41-4 ethylbenzene

IOELV (EU)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm Skin
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WEL (United Kingdom)	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
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CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

WEL (United Kingdom)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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CAS: 77-58-7 dibutyltin dilaurate

WEL (United Kingdom)	Short-term value: 0.2 mg/m ³ Long-term value: 0.1 mg/m ³ as Sn; Sk
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CAS: 4083-64-1 4-isocyanatosulphonyltoluene tosyl isocyanate

WEL (United Kingdom)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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CAS: 2781-10-4 dibutyltin bis(2-ethylhexanoate)

WEL (United Kingdom)	Short-term value: 0.2 mg/m ³ Long-term value: 0.1 mg/m ³ as Sn; Sk
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CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

WEL (United Kingdom)	Long-term value: 10 mg/m ³
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DNELs**Reaction mass of ethylbenzene and m-xylene and p-xylene**

Oral	DNEL General Population (long term exposure - systemic effect)	5 mg/kg bw/d (human)
Dermal	DNEL Workers (long term exposure - systemic effect)	212 mg/kg bw/d (human)
	DNEL General Population (long term exposure - systemic effect)	125 mg/kg bw/d (human)
Inhalative	DNEL Workers (long term exposure - systemic effect)	221 mg/m ³ (human)
	DNEL Workers (short term exposure - systemic effect)	442 mg/m ³ (human)
	DNEL Workers (long term exposure - local effect)	221 mg/m ³ (human)
	DNEL General Population (long term exposure - systemic effect)	65.3 mg/m ³ (human)
	DNEL General Population (acute/short term exposure - local effect)	260 mg/m ³ (human)
	DNEL General Population (long term exposure - local effect)	65.3 mg/m ³ (human)
	DNEL General Population (acute/short term exposure - systemic effect)	260 mg/m ³ (human)
	DNEL Workers (acute/short term exposure - local effect)	442 mg/m ³ (human)

CAS: 140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

Oral	DNEL General Population (long term exposure - systemic effect)	3.3 mg/kg bw/d (human)
Dermal	DNEL Workers (long term exposure - systemic effect)	9.3 mg/kg bw/d (human)
	DNEL General Population (long term exposure - systemic effect)	3.3 mg/kg bw/d (human)
Inhalative	DNEL Workers (long term exposure - systemic effect)	3.3 mg/m ³ (human)
	DNEL General Population (long term exposure - systemic effect)	0.58 mg/m ³ (human)

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

Oral	DNEL General Population (long term exposure - systemic effect)	36 mg/kg bw/d (human)
Dermal	DNEL Workers (long term exposure - systemic effect)	796 mg/kg bw/d (human)
	DNEL General Population (long term exposure - systemic effect)	320 mg/kg bw/d (human)

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Inhalative	DNEL Workers (long term exposure - systemic effect)	275 mg/m ³ (human)
	DNEL General Population (long term exposure - systemic effect)	33 mg/m ³ (human)
	DNEL General Population (long term exposure - local effect)	33 mg/m ³ (human)
	DNEL Workers (acute/short term exposure - local effect)	550 mg/m ³ (human)
CAS: 1330-20-7 xylene, mixture of isomers		
Oral	DNEL General Population (long term exposure - systemic effect)	2.5 mg/kg bw/d (human)
Dermal	DNEL Workers (long term exposure - systemic effect)	212 mg/kg bw/d (human)
	DNEL General Population (long term exposure - systemic effect)	125 mg/kg bw/d (human)
Inhalative	DNEL Workers (long term exposure - systemic effect)	221 mg/m ³ (human)
	DNEL Workers (short term exposure - systemic effect)	442 mg/m ³ (human)
	DNEL Workers (long term exposure - local effect)	221 mg/m ³ (human)
	DNEL General Population (long term exposure - systemic effect)	65.3 mg/m ³ (human)
	DNEL General Population (acute/short term exposure - local effect)	260 mg/m ³ (human)
	DNEL General Population (long term exposure - local effect)	65.3 mg/m ³ (human)
	DNEL General Population (acute/short term exposure - systemic effect)	260 mg/m ³ (human)
	DNEL Workers (acute/short term exposure - local effect)	442 mg/m ³ (human)
CAS: 100-41-4 ethylbenzene		
Oral	DNEL General Population (long term exposure - systemic effect)	1.6 mg/kg bw/d (human)
Dermal	DNEL Workers (long term exposure - systemic effect)	180 mg/kg bw/d (human)
Inhalative	DNEL Workers (long term exposure - systemic effect)	77 mg/m ³ (human)
	DNEL General Population (long term exposure - systemic effect)	15 mg/m ³ (human)
	DNEL Workers (acute/short term exposure - local effect)	293 mg/m ³ (human)

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CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Inhalative	DNEL Workers (long term exposure - local effect)	0.045 mg/m ³ (human)
	DNEL Workers (acute/short term exposure - local effect)	0.045 mg/m ³ (human)

PNECs**Reaction mass of ethylbenzene and m-xylene and p-xylene**

PNEC freshwater	0.044 mg/l
PNEC freshwater (intermittent releases)	0.01 mg/l
PNEC marinewater	0.004 mg/l
PNEC sediment freshwater	2.52 mg/kg dw
PNEC sediment marinewater	0.252 mg/kg dw
PNEC soil	0.852 mg/kg dw
PNEC STP	1.6 mg/l
PNEC marinewater (intermittent releases)	0.001 mg/l

CAS: 140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

PNEC freshwater	0.043 mg/l
PNEC freshwater (intermittent releases)	0.43 mg/l
PNEC marinewater	0.004 mg/l
PNEC sediment freshwater	164.5 mg/kg dw
PNEC sediment marinewater	16.5 mg/kg dw
PNEC soil	32.9 mg/kg dw
PNEC STP	35 mg/l

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

PNEC freshwater	0.635 mg/l
PNEC freshwater (intermittent releases)	6.35 mg/l
PNEC marinewater	0.064 mg/l
PNEC sediment freshwater	3.29 mg/kg dw
PNEC sediment marinewater	0.329 mg/kg dw
PNEC soil	0.29 mg/kg dw
PNEC STP	100 mg/l

CAS: 1330-20-7 xylene, mixture of isomers

PNEC freshwater	0.044 mg/l
PNEC freshwater (intermittent releases)	0.01 mg/l
PNEC marinewater	0.004 mg/l
PNEC sediment freshwater	2.52 mg/kg dw
PNEC sediment marinewater	0.252 mg/kg dw
PNEC soil	0.852 mg/kg dw
PNEC STP	1.6 mg/l
PNEC marinewater (intermittent releases)	0.001 mg/l

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CAS: 100-41-4 ethylbenzene

PNEC freshwater	0.1 mg/l
PNEC marinewater	0.01 mg/l
PNEC sediment freshwater	13.7 mg/kg dw
PNEC sediment marinewater	1.37 mg/kg dw
PNEC soil	2.68 mg/kg dw
PNEC STP	9.6 mg/l

CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

PNEC freshwater	0.027 mg/l
PNEC freshwater (intermittent releases)	0.27 mg/l
PNEC marinewater	0 mg/l
PNEC sediment freshwater	98.51 mg/kg dw
PNEC sediment marinewater	1.46 mg/kg dw
PNEC soil	19.8 mg/kg dw
PNEC STP	10.6 mg/l
PNEC marinewater (intermittent releases)	0.04 mg/l

8.2 Exposure controls**8.2.1. Appropriate engineering controls** Provide adequate ventilation.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Keep away from food, beverages and pet food.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while using the product.

Remove contaminated clothes and wash before reusing them.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter A2-P2 (EN529) is recommended.

Hand protection

Protective gloves resistant to chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material should be made considering the penetration times, rates of diffusion and the degradation

Material of gloves

Hand protection when handling the product at room temperature:

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Recommendation: contaminated gloves should be disposed of.

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The selection of the suitable gloves does not only depend on the material. Further marks of quality vary from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to application.

Penetration time of glove material

The breakthrough times according to EN 374 Part III do not always apply under real conditions. A maximum usage time corresponding to 50% of the breakthrough time is recommended.

Eye/face protection

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Chemically resistant, protective work clothing (EN 14605) and boots.

Environmental exposure controls

Dispose of flushing liquids in accordance with local and national regulations.

* **SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information**

Physical state	Viscous liquid
Colour:	Transparent
Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	Not specified
Flammability	Flammable.
Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined
Flash point:	29 °C (ASTM D93)
Auto-ignition temperature:	Not specified
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	Not determined
Solubility	
water:	Not miscible
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density at 20 °C:	1.01 g/cm ³
Relative density	Not determined
Vapour density	Not determined

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9.2 Other information**Appearance:****Form:** Liquid**Important information on protection of health and environment, and on safety.****Ignition temperature:** Product is not selfigniting.**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**Solvent content:****VOC (EC)** 330 g/l**Change in condition** Not applicable**Fusion temperature / range:** Not applicable**Oxidising properties** Not oxidising**Evaporation rate** Not determined**Information with regard to physical hazard classes****Explosives** Void**Flammable gases** Void**Aerosols** Void**Oxidising gases** Void**Gases under pressure** Void**Flammable liquids** Flammable liquid and vapour.**Flammable solids** Void**Self-reactive substances and mixtures** Void**Pyrophoric liquids** Void**Pyrophoric solids** Void**Self-heating substances and mixtures** Void**Substances and mixtures, which emit flammable gases in contact with water** Void**Oxidising liquids** Void**Oxidising solids** Void**Organic peroxides** Void**Corrosive to metals** Void**Desensitised explosives** Void**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided** Stable at environment temperature.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** Avoid heat, sparkles, naked flame or other sources of ignition.**10.5 Incompatible materials** No further relevant information available.**10.6 Hazardous decomposition products**Carbon dioxide (CO₂)

Carbon monoxide (CO)

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SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:**

For the calculation of the ATEmix value for inhalation (vapours) the calculation formula of Regulation (EC) 1272/2008 (CLP) for mixtures was used.

The LC50 values (inhalation, vapour) of the substances were adjusted by a factor of 11 (Point estimate - Cat. 4 - acute toxicity), according to Annex I of Regulation (EC) No. CLP (1272/2008 EC), because for some substances no specific experimental LC50 data or numerical ATE values were available.

Based on the available classifications and toxicological information in accordance with the provisions of CLP, and on this basis, the final ATEmix value for inhalation (vapours) of the product was calculated.

Dermal	ATEmix	4,545 mg/kg
Inhalative	ATEmix	40 mg/l

Reaction mass of ethylbenzene and m-xylene and p-xylene

Oral	LD50	3,523 mg/kg (rat)
Dermal	LD50	12,126 mg/kg (rabbit)
Inhalative	LC50(4h)	27,124 mg/m ³ air (rat)

CAS: 140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	6,190 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

CAS: 1330-20-7 xylene, mixture of isomers

Oral	LD50	3,523 mg/kg (rat)
Dermal	LD50	12,126 mg/kg (rabbit)
Inhalative	LC50(4h)	27,124 mg/m ³ air (rat)

CAS: 100-41-4 ethylbenzene

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	15,400 mg/kg (rabbit)
Inhalative	LC50(4h)	17,629 mg/m ³ air (rat)

CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Oral	LD50	4,814 mg/kg (rat)
Dermal	LD50	7,000 mg/kg (rat)
Inhalative	LC50/4 h (vapour)	31 mg/l (rat)

Specific symptoms in biological assay:**Skin corrosion/irritation** Causes skin irritation.**Serious eye damage/irritation** Causes serious eye irritation.**Respiratory or skin sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.

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Reproductive toxicity Based on available data, the classification criteria are not met.**STOT-single exposure**

The product is classified as Specific Target Organ Toxicity after single exposure Category 3

May cause respiratory irritation.

STOT-repeated exposure

STOT Repeated Exposure Category 2

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

The product is classified Aspiration toxicity Category 1

May be fatal if swallowed and enters airways.

Additional toxicological information:**Sensitisation** Sensitization possible through skin contact**11.2 Information on other hazards****Endocrine disrupting properties**

The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.

None of the ingredients is listed.

*

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:****Reaction mass of ethylbenzene and m-xylene and p-xylene**

EC50 (72h)	4.6-4.9 mg/l (algae)
EC50 (48h)	10.389 mg/l (Daphnia magna)
LC50(96h)	>2.6 mg/l (fish)

CAS: 140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

EC50 (72h)	29-43 mg/l (aquatic algae and cyanobacteria)
EC50 (48h)	193 mg/l (aquatic invertebrates)
LC0	70.7 mg/l (fish)
NOEC(72h)	12.5 mg/l (aquatic algae and cyanobacteria)

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

EC50 (48h)	>500 mg/l (daphnia magna)
LC50(96h)	100-180 mg/l (Oncorhynchus mykiss)
NOEC (21d)	100 mg/l (aquatic invertebrates)
NOEC (14d)	47.5 mg/l (fish)

CAS: 1330-20-7 xylene, mixture of isomers

EC50 (72h)	4.6-4.9 mg/l (aquatic algae and cyanobacteria)
NOEC (21d)	1.57 mg/l (aquatic invertebrates)
LC50(48h)	8.5 mg/l (crustaceans)

CAS: 100-41-4 ethylbenzene

EC50 (72h)	3.6 mg/l (Pseudokirchneriella subcapitata)
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EC50 (48h)	1.8 mg/l (Daphnia magna)
LC50(96h)	4.2-5.1 mg/l (Rainbow Trout)
NOEC (21d)	1 mg/l (Ceriodaphnia sp.)
LC50(48h)	8.78-75 mg/l (crustaceans)
	6.4 mg/l (fish)
LC50(24h)	7 mg/l (fish)

CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

EC50 (72h)	4.8 mg/l (Daphnia magna)
	70 mg/l (algae)
EC50 (48h)	27 mg/l (aquatic invertebrates)
LC50(96h)	208 mg/l (fish)
LC0	72-208 mg/l (fish)
NOEC(72h)	4.4 mg/l (aquatic algae and cyanobacteria)

12.2 Persistence and degradability No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment**

The product does not contain ingredients that are considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative at levels of 0.1% or higher according to REACH, Annex XIII.

PBT: Not applicable**vPvB:** Not applicable**12.6 Endocrine disrupting properties**

The product does not contain substances included in the list established in accordance with Article 59(1) of REACH for endocrine disrupting properties or has not been identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or higher than 0.1%.

12.7 Other adverse effects

The product does not contain substances listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation**

Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

European waste catalogue

HP3	Flammable
HP4	Irritant - skin irritation and eye damage

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HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6	Acute Toxicity
HP13	Sensitising

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****14.1 UN number or ID number**

ADR, IMDG, IATA

UN1866

14.2 UN proper shipping name

ADR

UN1866 RESIN SOLUTION

IMDG, IATA

RESIN SOLUTION

14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class

3 Flammable liquids.

Label

3

14.4 Packing group

ADR, IMDG, IATA

III

14.5 Environmental hazards:

Not applicable

14.6 Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code):

30

EMS Number:F-E,S-E**Stowage Category**

A

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

Transport/Additional information:**ADR**

Limited quantities (LQ)

5L



Limited Quantity Marking.

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category

3

Tunnel restriction code

D/E

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IMDG**Limited quantities (LQ)**

5L



Limited Quantity Marking.

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 1866 RESIN SOLUTION, 3, III

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as amended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Directive 2012/18/EU**Named dangerous substances - ANNEX I** The substance is not included in Annex I.**Seveso category P5c FLAMMABLE LIQUIDS****Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 74**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

REGULATION (EU) 2019/1148**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations: None

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Other regulations, limitations and prohibitive regulations**Substances of very high concern (SVHC) according to REACH, Article 57**

It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Training hints

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids	Bridging principles
Skin corrosion/irritation Serious eye damage/irritation Respiratory sensitisation Skin sensitisation Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
Aspiration hazard	Expert judgement

Department issuing SDS:

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Version number of previous version: 6**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

EN