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

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Coltech Transelast
UFI: 0K80-V0AP-W00T-YKNP

1.2 Relevant identified uses of the substance or mixture and uses advised against Professional use
Application of the substance / the mixture: Polyurethane Waterproofing coating

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
COLTECH PC
Patriarchou Maximou E7 & Myrsinis
Postal code: 145 62 Kifisia, Greece
Tel. +30 210-8017028
email: info@coltech.gr

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

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-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers
Xylene mixture of isomers
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
maleic anhydride

Hazard statements:
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
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

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.
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.
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.
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 levels of 0.1% or higher.
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-<30%
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 substance with a Community workplace exposure limit	≥15-<25%
CAS: 140921-24-0 ELINCS: 411-700-4 Index number: 616-079-00-5 Reg.nr.: 01-0000015906-63-XXXX	1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl) ethyl)carbamate Skin Sens. 1, H317	≥2.5-<10%
CAS: 53880-05-0 EC number: 931-312-3 Reg.nr.: 01-2119488734-24-XXXX	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers Skin Sens. 1B, H317; STOT SE 3, H335	≥2.5-<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; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 substance with a Community workplace exposure limit	≥1-<2%

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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, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5% Skin Sens. 1; H317: C ≥ 0.5 % substance with a Community workplace exposure limit	≥0.25-<0.5%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35-XXXX	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332 substance with a Community workplace exposure limit	≥0.01-<0.1%
CAS: 77-58-7 EINECS: 201-039-8 Reg.nr.: 01-2119496068-27-XXXX	dibutyltin dilaurate Muta. 2, H341; Repr. 1B, H360FD; STOT SE 1, H370; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317 substance with a Community workplace exposure limit	<0.025%
CAS: 108-31-6 EINECS: 203-571-6 Index number: 607-096-00-9 Reg.nr.: 01-2119472428-31-XXXX	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 % substance with a Community workplace exposure limit	<0.001%

SVHC
This product does not contain candidate substances of very high concern at a concentration ≥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:
Keep patient calm, remove to fresh air.
In case of unconsciousness place patient stably in side position for transportation.
Seek immediate medical advice.

After skin contact:
Remove contaminated clothing and shoes.
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

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 15 minutes.

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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.
Never give anything 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
Contact Poison Center or doctor. All treatments should be based on observed signs and symptoms of patient pain.

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
In case of fire, Carbon monoxide (CO) and Carbon dioxide (CO2) may be formed.
5.3 Advice for firefighters
Protective equipment:
During fire-fighting wear suitable respiratory device (SCBA) with a full face-piece operated in positive pressure mode.
Cool containers exposed to fire.
Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Avoid inhalation of vapors.
Ensure adequate ventilation.
Avoid contact with the skin, eyes and clothing.
6.1.1 For non-emergency personnel
Avoid contact with dripping or leaking material
Use personal protective equipment.
6.1.2 For emergency responders
First-aid responders must wear protectice clothing, gloves, goggles and respiratory device with filter type A.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Avoid inhaling vapors.
Do not eat, drink or smoke when using this product.
Avoid contact with eyes, hands and clothing.
Wash contaminated clothes before reusing them.
Wash your hands before each break and after finishing work.
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.
Provide ventilation for receptacles.
Information about storage in one common storage facility: Store 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/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm Skin
WEL (Great Britain)	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk
CAS: 1330-20-7 Xylene mixture of isomers	
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin
WEL (Great Britain)	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	
WEL (Great Britain)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

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CAS: 77-58-7 dibutyltin dilaurate	
WEL (Great Britain)	Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ as Sn; Sk
CAS: 100-41-4 ethylbenzene	
IOELV (EU)	Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin
WEL (Great Britain)	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk
CAS: 108-31-6 maleic anhydride	
WEL (Great Britain)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ Sen

DNELs
(EC: 905-562-9) Reaction mass of ethylbenzene, m-xylene and p-xylene
Workers:
Long-term systemic effect, by inhalation: 221 mg/m³
Long-term local effect, by inhalation: 221 mg/m³
Short-term local effect, inhalation: 442 mg/m³
Long-term systemic effect, dermal: 212 mg/kg bw/d
Consumers:
Long-term systemic effect, inhalation: 65.3 mg/m³
Short-term systemic effect, inhalation: 260 mg/m³
Long-term local effect, inhalation: 65.3 mg/m³
Short-term local effect, inhalation: 260 mg/m³
Long-term systemic effect, dermal: 125 mg/kg bw/d
Long-term systemic effect, oral: 12.5 mg/kg bw/d
(CAS: 100-41-4) Ethylbenzene
Workers:
Inhalation - Long-term systemic effect: 77 mg/m³
Inhalation - Long-term local effect: 293 mg/m³
Dermal - Long-term systemic effect: 180 mg/kg bw/d
Consumers:
Inhalation - Long-term systemic effect: 15 mg/m³
Oral - Long-term systemic effect: 1,6 mg/kg bw/d
(CAS: 108-31-6) Maleic anhydride
Workers:
Inhalation - Long-term exposure, systemic effects: 0.081 mg/m³
Inhalation - Acute/short-term exposure, systemic effects: 0.2 mg/m³
Inhalation - Long-term exposure, local effects: 0.081 mg/m³
(CAS: 108-65-6) 2-methoxy-1-methylethyl acetate
Employees:
Inhalation - Long-term systemic effect: 275 mg/m³
Inhalation - Short-term acute effect: 550 mg/m³
Skin - Long-term systemic effect: 796 mg/kg bw/d
Consumers:
Inhalation - Long-term systemic effect: 33 mg/m³

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Inhalation - Long-term local effect: 33 mg/m³
Skin - Long-term systemic effect: 320 mg/kg bw/d
Oral - Long-term systemic effect: 36 mg/kg bw/d
Oral - Short-term acute effect: 500 mg/kg bw/d
(CAS: 1330-20-7) Xylene (mixture of isomers)
Workers:
Long-term systemic effect, inhalation: 221 mg/m³.
Long-term local effect, inhalation: 221 mg/m³
Short-term local effect, inhalation: 442 mg/m³
Long-term systemic effect, dermal: 212 mg/kg bw/d
Consumers:
Long-term systemic effect, inhalation: 65.3 mg/m³
Short-term systemic effect, inhalation: 260 mg/m³
Long-term local effect, inhalation: 65.3 mg/m³
Short-term local effect, inhalation: 260 mg/m³
Long-term systemic effect, dermal: 125 mg/kg bw/d
(CAS: 4098-71-9) isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate.
workers:
Inhalation - Local long-term effect: 0.045 mg/m³.
Inhalation - Local short-term effect: 0.045 mg/m³.
PNECs
(EC: 905-562-9) reaction mass of ethylbenzene and m-xylene and p-xylene
Fresh water: 0,044 mg/l
Marine water: 0,004 mg/l
Fresh water sediment: 2,52 mg/kg
Marine water sediment: 0,252 mg/kg
Soil: 0,852 mg/kg
STP - Waste water treatment plant: 1,6 mg/l
(CAS: 100-41-4) Ethylbenzene
Fresh water: 0,1 mg/L
Marine water: 0.01mg/L
Fresh water: (intermittent releases): 0.1mg/L
STP: 9,6 mg/L
Sediment (fresh water): 13,7 mg/kg sediment dw
Sediment (marine water): 1,37 mg/kg sediment dw
Soil: 2,68 mg/kg dw
Secondary poisoning: 0,02 g/kg food
(CAS: 108-31-6) Maleic anhydride
Fresh water: 0,038 mg/l
Marine water: 0,004 mg/l
Fresh water (intermittent releases): 0,379 mg/l
Soil: 0,0415 mg/kg
Freshwater sediment: 0,296 mg/kg of sediment dw
Marinewater sediment: 0,03 mg/kg sediment dw
STP: 44,6 mg/l
(CAS: 108-65-6) 2-methoxy-1-methylethyl acetate
fresh water: 0.635 mg/L
Marine water: 0.0635 mg/L
Sewage treatment plant (STP): 100 mg/L
Sediment (freshwater): 3.29 mg/kg sediment dw
Soil: 0.29 mg/kg soil dw

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(CAS: 1330-20-7) Xylene (mixture of isomers)
Fresh water: 0.044 mg/l
Fresh water (intermittent releases): 0.01 mg/l
Marine water: 0.004 mg/l
STP: 1.6 mg/l
Freshwater sediment: 2.52 mg/kg of sediment dw
Marine water sediment: 0.252 mg/kg sediment dw
Soil: 0.852 mg/kg
(CAS: 4098-71-9) isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate.
Fresh water: 0.027 mg/l
Marine water: 0 mg/l
STP: 10.6 mg/l
Sediment fresh water: 98,51 mg / kg sed. dw
Sediment marine water: 1,46 mg / kg sed. dw
Soil: 19.8 mg / kg soil dw

Ingredients with biological limit values:	
CAS: 1330-20-7 Xylene mixture of isomers	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	
BMGV (Great Britain)	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine
CAS: 1330-20-7 Xylene	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

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 foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Remove contaminated clothes and wash before reusing them.
Do not breathe vapours or mists.
Avoid contact with the eyes and skin.
Do not eat, drink or smoke while using the product.
Respiratory protection:

Respiratory protection required in insufficiently ventilated working areas.
An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter A2-P2 (EN529) is recommended.

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Hand protection

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves
Polychloroprene - CR: thickness ≥0.5mm, decomposition time ≥480min.
Nitrile rubber - NBR: thickness ≥0,35mm, split time ≥480min.
Butyl rubber - IIR: thickness ≥0,5mm, split time ≥480min.
Fluorinated rubber - FKM: thickness ≥0,4mm, decomposition time ≥480min.
Recommendation: carry out special treatment of soiled gloves.
penetration time > 480 min
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies 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 the application.
Penetration time of glove material
The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration 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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information

Physical state	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

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Upper:	Not determined
Flash point:	27 °C (Reaction mass of ethylbenzene and m-xylene and p-xylene)
Auto-ignition temperature:	Not specified
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	Not determined
Solubility	
water:	Not determined
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density at 20 °C:	1 g/cm³
Relative density	Not determined
Vapour density	Not determined

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:	
Organic solvents:	<41.0 %
VOC (EC)	410 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

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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 Oxidizing agents
10.6 Hazardous decomposition products
Carbon dioxide (CO_2)
Carbon monoxide (CO)

*

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:		
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	LC50/4 h (vapour)	>27 mg/l (rat)
CAS: 108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50 (4h)	1,805.05 ppm (rat)
CAS: 140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate		
Oral	LD50	>2,000 mg/kg (rat)
CAS: 53880-05-0 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers		
Oral	LD50	14,000 mg/kg (rat)
CAS: 1330-20-7 Xylene mixture of isomers		
Oral	LD50	>3,523 mg/kg (rat)
Dermal	LD50	>12,126 mg/kg (rabbit)
Inhalative	LC50/4 h (vapour)	>27 mg/l (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)
CAS: 1330-20-7 Xylene		
Dermal	LD50	>1,700 mg/kg (rabbit)

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CAS: 100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)
Inhalative	LC50 (4h)	4,000 ppm (rat)
CAS: 108-31-6 maleic anhydride		
Oral	LD50	400 mg/kg (rat)
Dermal	LD50	2,620 mg/kg (rabbit)

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/irritation Causes serious eye irritation.
Respiratory or skin sensitisation 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.
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.
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: 108-65-6 2-methoxy-1-methylethyl acetate	
EC50 (48h)	8.8 mg/l (crustaceans)
LC50 (96h)	6.83 mg/l (fish)
CAS: 53880-05-0 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	
EC50 (72h)	3.1 mg/l (algae)
EC50 (48h)	3.36 mg/l (Daphnia magna)

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CAS: 1330-20-7 Xylene mixture of isomers	
EC50 (72h)	4.6-4.9 mg/l (algae)
EC50 (48h)	>10 mg/l (Daphnia magna)
LC50 (96h)	>2.6 mg/l (fish)
NOEC (21d)	1.57 mg/l (Daphnia magna)
EC50(24h)	>1 mg/l (Daphnia magna)
CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	
EC50 (72h)	4.8 mg/l (Daphnia magna)
	70 mg/l (algae)
LC50 (96h)	208 mg/l (fish)
CAS: 100-41-4 ethylbenzene	
EC50 (48h)	73 mg/l (daphnia magna)

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 No further relevant information available.

*
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
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

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HP6	Acute Toxicity

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 1866 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
Remarks: No goods of grade 3 according to 2.2.3.1.5 ADR and 2.3.2.5 IMDG
ADR: Containers >450 l = UN 1866 - 3(F1) - RESIN

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	SOLUTION, flammable IMDG: Containers > 450 l = UN 1866 - 3 (F1) - RESIN SOLUTION, flammable Outside ADR/IMDG = UN 1866 - 3 (F1) - RESIN SOLUTION, flammable
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
Remarks:	No goods of grade 3 according to 2.2.3.1.5 ADR and 2.3.2.5 IMDG ADR: Containers >450 l = UN 1866 - 3(F1) - RESIN SOLUTION, flammable IMDG: Containers > 450 l = UN 1866 - 3 (F1) - RESIN SOLUTION, flammable Outside ADR/IMDG = UN 1866 - 3 (F1) - RESIN SOLUTION, flammable
UN "Model Regulation":	UN 1866 RESIN SOLUTION, 3, III

*

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 ammended.
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 ammended

Directive 2012/18/EU
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

Regulation (EU) No 649/2012		
CAS: 77-58-7	dibutyltin dilaurate	Annex I Part 1

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.

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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

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.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
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.
H341 Suspected of causing genetic defects.
H360FD May damage fertility. May damage the unborn child.
H370 Causes damage to organs.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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EUH071 Corrosive to the respiratory tract.
EUH204 Contains isocyanates. May produce an allergic reaction.

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 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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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)
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 Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
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. 1A: Skin sensitisation – Category 1A
Skin Sens. 1B: Skin sensitisation – Category 1B
Muta. 2: Germ cell mutagenicity – Category 2
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic 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

*** Data compared to the previous version altered.**