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 6 (replaces version 5) Revision: 04.02.2026

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

1.1 Product identifier

Trade name: PENECOAT™ PU-H
UFI: SGA0-00HV-F00G-JMX6

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: Aliphatic polyurethane semi-rigid protective top-coat.

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.MI. 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.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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2.2 Label elements
Labelling according to Regulation EC No 1272/2008 CLP:
The product is classified and labelled according to the CLP regulation.
Hazard pictograms:

GHS02 GHS07 GHS08

Signal word: Danger

Hazard-determining components of labelling:
Reaction mass of ethylbenzene and m-xylene and p-xylene
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate
xylene, mixture of isomers
4,5-dichloro-2-octyl-2H-isothiazol-3-one
4-isocyanatosulphonyltoluene tosyl isocyanate

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.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
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.

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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

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%	>25-<35%
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: 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: 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	>5-<10%

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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: 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-<1%
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: 4083-64-1 EINECS: 223-810-8 Index number: 615-012-00-7	4-isocyanatosulphonyltoluene tosyl isocyanate Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335, EUH014 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5% STOT SE 3; H335: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % substance with a Community workplace exposure limit	≥0.1-<1%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29-XXXX	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066 substance with a Community workplace exposure limit	>0.1-<1%
CAS: 872-50-4 EINECS: 212-828-1 Index number: 606-021-00-7	1-methyl-2-pyrrolidone Repr. 1B, H360D; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 10% substance with a Community workplace exposure limit	>0.01-<0.1%
CAS: 64359-81-5 EINECS: 264-843-8 Index number: 613-335-00-8	4,5-dichloro-2-octyl-2H-isothiazol-3-one Acute Tox. 2, H330; Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Acute Tox. 4, H302; Skin Sens. 1A, H317 ATE: LD50 oral: 567 mg/kg LC50/4h (dusts and mists) inhalative: 0.16 mg/l Specific concentration limits: Skin Irrit. 2; H315: C ≥0.025 % Eye Irrit. 2; H319: C ≥ 0.025 % Skin Sens. 1A; H317: C ≥ 0.0015 %	>0.01-<0.025%

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CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17-XXXX	titanium dioxide substance with a Community workplace exposure limit	>15-<20%

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:
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.
Seek medical treatment in case of complaints.
After skin contact:
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, dry chemical powder, foam, sand
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: Self-contained breathing apparatus and protective clothing in case of fire.

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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.
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).
Ensure adequate ventilation.
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.
Avoid contact with skin and eyes.
Do not eat, drink or smoke when using this product.
Wash contaminated clothes before reusing them.
Avoid inhaling vapors.
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.
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: 13463-67-7 titanium dioxide	
WEL (United Kingdom)	Long-term value: 10* 4** mg/m³ *total inhalable **respirable
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 (United Kingdom)	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 (United Kingdom)	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 (United Kingdom)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO
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 (United Kingdom)	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk
CAS: 4083-64-1 4-isocyanatosulphonyltoluene tosyl isocyanate	
WEL (United Kingdom)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO
CAS: 123-86-4 n-butyl acetate	
IOELV (EU)	Short-term value: 723 mg/m³, 150 ppm Long-term value: 241 mg/m³, 50 ppm
WEL (United Kingdom)	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm
CAS: 872-50-4 1-methyl-2-pyrrolidone	
BOELV (EU)	Short-term value: 80 mg/m³, 20 ppm Long-term value: 40 mg/m³, 10 ppm Skin

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IOELV (EU)	Short-term value: 80 mg/m³, 20 ppm Long-term value: 40 mg/m³, 10 ppm Skin
WEL (United Kingdom)	Short-term value: 80 mg/m³, 20 ppm Long-term value: 40 mg/m³, 10 ppm Sk
CAS: 77-58-7 dibutyltin dilaurate	
WEL (United Kingdom)	Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ as Sn; Sk
CAS: 98-59-9 tosyl chloride	
WEL (United Kingdom)	Short-term value: 5 mg/m³
CAS: 2781-10-4 dibutyltin bis(2-ethylhexanoate)	
WEL (United Kingdom)	Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ as Sn; Sk

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/m³ (human)
	DNEL Workers (short term exposure - systemic effect)	442 mg/m³ (human)
	DNEL Workers (long term exposure - local effect)	221 mg/m³ (human)
	DNEL General Population (long term exposure - systemic effect)	65.3 mg/m³ (human)
	DNEL General Population (acute/short term exposure - local effect)	260 mg/m³ (human)
	DNEL General Population (long term exposure - local effect)	65.3 mg/m³ (human)
	DNEL General Population (acute/short term exposure - systemic effect)	260 mg/m³ (human)
	DNEL Workers (acute/short term exposure - local effect)	442 mg/m³ (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)

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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)
Inhalative	DNEL Workers (long term exposure - systemic effect)	275 mg/m³ (human)
	DNEL General Population (long term exposure - systemic effect)	33 mg/m³ (human)
	DNEL General Population (long term exposure - local effect)	33 mg/m³ (human)
	DNEL Workers (acute/short term exposure - local effect)	550 mg/m³ (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/m³ (human)
	DNEL General Population (long term exposure - systemic effect)	0.58 mg/m³ (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/m³ (human)
	DNEL Workers (short term exposure - systemic effect)	442 mg/m³ (human)
	DNEL Workers (long term exposure - local effect)	221 mg/m³ (human)
	DNEL General Population (long term exposure - systemic effect)	65.3 mg/m³ (human)
	DNEL General Population (acute/short term exposure - local effect)	260 mg/m³ (human)
	DNEL General Population (long term exposure - local effect)	65.3 mg/m³ (human)

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	DNEL General Population (acute/short term exposure - systemic effect)	260 mg/m³ (human)
	DNEL Workers (acute/short term exposure - local effect)	442 mg/m³ (human)
CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate		
Inhalative	DNEL Workers (long term exposure - local effect)	0.045 mg/m³ (human)
	DNEL Workers (acute/short term exposure - local effect)	0.045 mg/m³ (human)
CAS: 4083-64-1 4-isocyanatosulphonyltoluene tosyl isocyanate		
Oral	DNEL General Population (long term exposure - systemic effect)	0.46 mg/kg bw/d (human)
Dermal	DNEL Workers (long term exposure - systemic effect)	0.92 mg/kg bw/d (human)
	DNEL General Population (long term exposure - systemic effect)	0.46 mg/kg bw/d
Inhalative	DNEL Workers (long term exposure - systemic effect)	3.24 mg/m³ (human)
	DNEL General Population (long term exposure - systemic effect)	0.8 mg/m³ (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: 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: 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

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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: 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
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
CAS: 4083-64-1 4-isocyanatosulphonyltoluene tosyl isocyanate	
PNEC freshwater	0.03 mg/l
PNEC freshwater (intermittent releases)	0.3 mg/l
PNEC marinewater	0.003 mg/l
PNEC sediment freshwater	0.172 mg/kg dw
PNEC sediment marinewater	0.017 mg/kg dw
PNEC soil	0.017 mg/kg dw
PNEC STP	0.4 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.
Ensure adequate ventilation during use.
Remove contaminated clothes and wash before reusing them.
Do not eat, drink or smoke while using the product.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

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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)

Selection of the glove material should be made considering the penetration times, rates of diffusion and the degradation
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Hand protection when handling the product at room temperature:
Butyl rubber - IIR: thickness ≥0,5mm; breakthrough time ≥480min.
Fluorinated rubber - FKM: thickness ≥0,4mm; breakthrough time ≥480min.
Recommendation: contaminated gloves should be disposed of.
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:	Various colours
Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Flammable.

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Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined
Flash point:	35 °C (ASTM D93)
Auto-ignition temperature:	Not specified
Decomposition temperature:	Not determined
pH	Mixture not stable.
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:	1.14 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:	
VOC (EC)	450 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

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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 (CO2)
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:		
Dermal	ATEmix	3,952 mg/kg
Inhalative	ATEmix (vapours)	34.6 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/m³ air (rat)
CAS: 13463-67-7 titanium dioxide		
Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h (vapour)	>6.82 mg/l (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: 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: 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/m³ 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)	0.031 mg/l (rat)

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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/m³ air (rat)
CAS: 4083-64-1 4-isocyanatosulphonyltoluene tosyl isocyanate		
Oral	LD50	2,330 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
CAS: 872-50-4 1-methyl-2-pyrrolidone		
Oral	LD50	4,150 mg/kg (rat) ((OECD 401))
Dermal	LD50	5,000 mg/kg (rat) ((OECD 402))
Inhalative	LC50/4 h (vapour)	5.1 mg/l (rat) ((OECD 403))
CAS: 64359-81-5 4,5-dichloro-2-octyl-2H-isothiazol-3-one		
Oral	LD50	567 mg/kg (ATE)
Inhalative	LC50/4h (dusts and mists)	0.16 mg/l (ATE)

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.
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.

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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: 13463-67-7 titanium dioxide	
EC50 (72h)	100 mg/l (algae)
EC50 (48h)	2.41-103.9 mg/l (Daphnia magna)
LC50(96h)	1 mg/l (fish)
NOEC(72h)	100 mg/l (algae)
NOEC (21d)	5 mg/l (Daphnia magna)
NOEC (14d)	0.87-1.1 mg/l (fish)
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: 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: 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: 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)
CAS: 100-41-4 ethylbenzene	
EC50 (72h)	3.6 mg/l (Pseudokirchneriella subcapitata)
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.)

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LC50(48h)	8.78-75 mg/l (crustaceans)
	6.4 mg/l (fish)
LC50(24h)	7 mg/l (fish)
CAS: 4083-64-1 4-isocyanatosulphonyltoluene tosyl isocyanate	
EC50 (72h)	30 mg/l (Pseudokirchneriella subcapitata) (Freshwater Alga and Cyanobacteria, Grow Inhibition)
	25-30 mg/l (aquatic algae and cyanobacteria)
EC50 (48h)	>100 mg/l (Daphnia magna) (Daphnia sp. Acute Immobilisation Test)
	100 mg/l (aquatic invertebrates)
LC50(96h)	>45 mg/l (Oncorhynchus mykiss) (Fish, Acute Toxicity Test)
LC50(48h)	45 mg/l (fish)
LC50(24h)	45 mg/l (fish)
NOEC(72h)	10 mg/l (aquatic algae and cyanobacteria)
CAS: 872-50-4 1-methyl-2-pyrrolidone	
EC50 (72h)	600.5 mg/l (aquatic algae and cyanobacteria)
NOEC (21d)	12.5 mg/l (daphnia magna) (Daphnia magna Reproduction Test)
EC10 (96h)	92.6 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
Remark: Harmful to fish
Additional ecological information:
General notes:
The product contains materials that are harmful to the environment.
Harmful to aquatic organisms

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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
HP6	Acute Toxicity
HP14	Ecotoxic

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:
Marine pollutant: No
14.6 Special precautions for user Warning: Flammable liquids.
Hazard identification number (Kemler code): 30
EMS Number: F-E,S-E
Stowage Category A

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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

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

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
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.

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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.
H330 Fatal if inhaled.
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.
H360D May damage the unborn child.
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.
EUH014 Reacts violently with water.
EUH066 Repeated exposure may cause skin dryness or cracking.

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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) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	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:

SUSTCHEM S.A.
REACH & Chemical Services Department
A: 144, 3rd Septemvriou, GR 112 51 | Athens, Greece
T: +30 210 8252510 | F: +30 210 8252575
W: www.sustchem.gr | E: info@sustchem.gr

Version number of previous version: 5

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
ATE: Acute toxicity estimate values
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1: Skin corrosion/irritation – Category 1
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
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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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