SAFETY DATA SHEET

Europe



Date of issue/Date of revision

: 28 April 2024

Version : 2.02

SECTION 1: Identification of the substance/mixture and of the company/ undertaking **1.1 Product identifier Product name** : SIGMATHERM 540 **Product code** : 00461228 Other means of identification

Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against			
Product use	: Professional applications, Used by spraying.		
Use of the substance/ mixture	: Coating.		
Uses advised against	: Product is not intended, labelled or packaged for consumer use.		

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person : Product.Stewardship.EMEA@ppg.com responsible for this SDS

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture **Product definition** : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

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SECTION 2: Hazards identification

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2.2 Label elements



Signal word	: Danger			
Hazard statements	 Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects. 			
Precautionary statements				
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.			
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.			
Storage	: Not applicable.			
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.			
	P280, P210, P260, P305 + P351 + P338, P310, P501			
Hazardous ingredients	: ethylbenzene [3-(2,3-epoxypropoxy)propyl]trimethoxysilane			
Supplemental label elements	: Not applicable.			
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.			
Special packaging requirements				
Containers to be fitted with child-resistant fastenings	: Not applicable.			
Tactile warning of danger	: Not applicable.			
2.3 Other hazards				
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.			
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.			

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3.2 Mixtures

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SECTION 3: Composition/information on ingredients

: Mixture

Specific Conc. Product/ingredient name % by Classification **Identifiers** Туре Limits, M-factors weight and ATEs ethylbenzene REACH #: ≥10 - ≤25 Flam. Liq. 2, H225 ATE [Inhalation [1] [2] 01-2119489370-35 Acute Tox. 4, H332 (vapours)] = 17.8 mg/l STOT RE 2, H373 EC: 202-849-4 CAS: 100-41-4 (hearing organs) Index: 601-023-00-4 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 Wollastonite ≥10 - ≤25 Not classified. EC: 237-772-5 [2] CAS: 13983-17-0 xylene REACH #: ≥5.0 - ≤10 Flam. Liq. 3, H226 ATE [Dermal] = 1700 [1] [2] 01-2119488216-32 Acute Tox. 4, H312 mg/kg ATE [Inhalation EC: 215-535-7 Acute Tox. 4, H332 CAS: 1330-20-7 Skin Irrit. 2, H315 (vapours)] = 11 mg/l Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 Solvent naphtha ≥5.0 - ≤9.5 STOT SE 3, H336 REACH #: [1] (petroleum), heavy arom. 01-2119451097-39 Asp. Tox. 1, H304 Nota(s) P EC: 265-198-5 Aquatic Chronic 2, H411 EUH066 CAS: 64742-94-5 Index: 649-424-00-3 ≥5.0 - ≤8.6 Flam. Lig. 3, H226 1-methoxy-2-propanol REACH #: [1] [2] 01-2119457435-35 STOT SE 3, H336 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 ≥5.0 - ≤10 [3-(2,3-epoxypropoxy) EC: 219-784-2 Eve Dam. 1, H318 [1] propyl]trimethoxysilane Aquatic Chronic 3, H412 CAS: 2530-83-8 1-Butanol, titanium(4+) salt CAS: 9022-96-2 ≤1.7 Flam. Liq. 3, H226 ATE [Oral] = 500 mg/ [1] (4:1), homopolymer Acute Tox. 4. H302 kg Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 toluene ≤0.30 Flam. Liq. 2, H225 [1] [2] REACH #: 01-2119471310-51 Skin Irrit. 2, H315 EC: 203-625-9 Repr. 2, H361d STOT SE 3, H336 CAS: 108-88-3 Index: 601-021-00-3 STOT RE 2, H373 Asp. Tox. 1, H304 methanol REACH #: ≤0.30 Flam. Liq. 2, H225 ATE [Oral] = 100 mg/ [1] [2] 01-2119433307-44 Acute Tox. 3, H301 kg ATE [Dermal] = 300 EC: 200-659-6 Acute Tox. 3, H311 CAS: 67-56-1 Acute Tox. 3, H331 mg/kg English (GB) Europe 3/19

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SECTION 3: C	Composition/informati	on on ingredients	
	Index: 603-001-00-X	STOT SE 1, H370	ATE [Inhalation (vapours)] = 3 mg/l STOT SE 1, H370: C ≥ 10% STOT SE 2, H371: 3% ≤ C < 10%
		See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symportant sym	otoms and effects, both acute and delayed effects			
Eye contact	: Causes serious eye damage.			
Inhalation	: No known significant effects or critical hazards.			
Skin contact	: Causes skin irritation. Defatting to the skin.			
Ingestion	: No known significant effects or critical hazards.			
Over-exposure signs/symptoms				
Eye contact	: Adverse symptoms may include the following: pain watering redness			
Inhalation	: No specific data.			

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Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any imme	diate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions,	protective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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SECTION 6: Accident	tal release measures
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not g on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid rel environment. Use only with adequate ventilation. Wear appropriate respirat ventilation is inadequate. Do not enter storage areas and confined spaces u adequately ventilated. Keep in the original container or an approved alterna from a compatible material, kept tightly closed when not in use. Store and u from heat, sparks, open flame or any other ignition source. Use explosion-p	lease to the tor when unless tive made use away
	electrical (ventilating, lighting and material handling) equipment. Use only no tools. Take precautionary measures against electrostatic discharges. Empl retain product residue and can be hazardous. Do not reuse container.	on-sparking
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this mater handled, stored and processed. Workers should wash hands and face befo drinking and smoking. Remove contaminated clothing and protective equip entering eating areas. See also Section 8 for additional information on hygic measures.	re eating, ment before
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in a with local regulations. Store in a segregated and approved area. Store in or container protected from direct sunlight in a dry, cool and well-ventilated are from incompatible materials (see Section 10) and food and drink. Store lock Eliminate all ignition sources. Separate from oxidising materials. Keep cont closed and sealed until ready for use. Containers that have been opened m carefully resealed and kept upright to prevent leakage. Do not store in unlat containers. Use appropriate containment to avoid environmental contaminate	riginal a, away ked up. tainer tightly ust be pelled
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SECTION 7: Handling and storage

Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

 (Europe, 1/2022). Absorbed through skin. 884 mg/m³ 15 minutes. 200 ppm 15 minutes. 442 mg/m³ 8 hours. 100 ppm 8 hours. TLV (United States, 1/2023). 1 mg/m³ 8 hours. Form: Inhalable fraction (Europe, 1/2022). [xylene, mixed isomers pure] ed through skin. 442 mg/m³ 15 minutes.
884 mg/m ³ 15 minutes. 200 ppm 15 minutes. 442 mg/m ³ 8 hours. 100 ppm 8 hours. TLV (United States, 1/2023). 1 mg/m ³ 8 hours. Form: Inhalable fraction _ (Europe, 1/2022). [xylene, mixed isomers pure] red through skin.
200 ppm 15 minutes. 442 mg/m ³ 8 hours. 100 ppm 8 hours. TLV (United States, 1/2023). 1 mg/m ³ 8 hours. Form: Inhalable fraction _ (Europe, 1/2022). [xylene, mixed isomers pure] red through skin.
100 ppm 8 hours. TLV (United States, 1/2023). 1 mg/m ³ 8 hours. Form: Inhalable fraction _ (Europe, 1/2022). [xylene, mixed isomers pure] red through skin.
TLV (United States, 1/2023). 1 mg/m ³ 8 hours. Form: Inhalable fraction _ (Europe, 1/2022). [xylene, mixed isomers pure] ed through skin.
1 mg/m ³ 8 hours. Form: Inhalable fraction _ (Europe, 1/2022). [xylene, mixed isomers pure] ed through skin.
1 mg/m ³ 8 hours. Form: Inhalable fraction _ (Europe, 1/2022). [xylene, mixed isomers pure] ed through skin.
_ (Europe, 1/2022). [xylene, mixed isomers pure] ed through skin.
ed through skin.
100 ppm 15 minutes.
221 mg/m ³ 8 hours.
50 ppm 8 hours.
_ (Europe, 1/2022). Absorbed through skin.
568 mg/m ³ 15 minutes.
150 ppm 15 minutes.
375 mg/m ³ 8 hours.
100 ppm 8 hours.
_ (Europe, 1/2022). Absorbed through skin.
384 mg/m ³ 15 minutes.
100 ppm 15 minutes.
192 mg/m ³ 8 hours.
50 ppm 8 hours.
••
50 ppm 8 nours. - (Europe, 1/2022). Absorbed through skin. 260 mg/m ³ 8 hours.

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

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SECTION 8: Exposure controls/personal protection

ethylbenzene xylene	DMEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DN	Long term Inhalation Short term Inhalation Long term Oral Long term Inhalation Long term Inhalation Long term Dermal Short term Inhalation Long term Inhalation Long term Inhalation Long term Dermal Long term Dermal Long term Inhalation	442 mg/m ³ 884 mg/m ³ 1.6 mg/kg bw/day 15 mg/m ³ 77 mg/m ³ 180 mg/kg bw/day 293 mg/m ³ 12.5 mg/kg bw/day 65.3 mg/m ³ 125 mg/kg bw/day	Workers Workers General population General population Workers Workers General population General population General population	Local Systemic Systemic Systemic Systemic Local Systemic Local
xylene	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Long term Oral Long term Inhalation Long term Inhalation Long term Dermal Short term Inhalation Long term Oral Long term Inhalation Long term Inhalation Long term Dermal Long term Dermal	1.6 mg/kg bw/day 15 mg/m ³ 77 mg/m ³ 180 mg/kg bw/day 293 mg/m ³ 12.5 mg/kg bw/day 65.3 mg/m ³ 65.3 mg/m ³	General population General population Workers Workers General population General population	Systemic Systemic Systemic Local Systemic Local
xylene	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Long term Inhalation Long term Inhalation Long term Dermal Short term Inhalation Long term Oral Long term Inhalation Long term Inhalation Long term Dermal Long term Dermal	15 mg/m ³ 77 mg/m ³ 180 mg/kg bw/day 293 mg/m ³ 12.5 mg/kg bw/day 65.3 mg/m ³ 65.3 mg/m ³	General population Workers Workers Workers General population General population	Systemic Systemic Local Systemic Local
xylene	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Long term Inhalation Long term Dermal Short term Inhalation Long term Oral Long term Inhalation Long term Inhalation Long term Dermal Long term Dermal	77 mg/m ³ 180 mg/kg bw/day 293 mg/m ³ 12.5 mg/kg bw/day 65.3 mg/m ³ 65.3 mg/m ³	Workers Workers Workers General population General population	Systemic Systemic Local Systemic Local
xylene	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Long term Dermal Short term Inhalation Long term Oral Long term Inhalation Long term Inhalation Long term Dermal Long term Dermal	180 mg/kg bw/day 293 mg/m ³ 12.5 mg/kg bw/day 65.3 mg/m ³ 65.3 mg/m ³	Workers Workers General population General population	Systemic Local Systemic Local
xylene	DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Short term Inhalation Long term Oral Long term Inhalation Long term Inhalation Long term Dermal Long term Dermal	293 mg/m ³ 12.5 mg/kg bw/day 65.3 mg/m ³ 65.3 mg/m ³	Workers General population General population	Local Systemic Local
xylene	DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Long term Oral Long term Inhalation Long term Inhalation Long term Dermal Long term Dermal	293 mg/m ³ 12.5 mg/kg bw/day 65.3 mg/m ³ 65.3 mg/m ³	General population General population	Local Systemic Local
xylene	DNEL DNEL DNEL DNEL DNEL DNEL	Long term Inhalation Long term Inhalation Long term Dermal Long term Dermal	12.5 mg/kg bw/day 65.3 mg/m³ 65.3 mg/m³	General population	Local
	DNEL DNEL DNEL DNEL DNEL	Long term Inhalation Long term Inhalation Long term Dermal Long term Dermal	65.3 mg/m ³ 65.3 mg/m ³	General population	Local
	DNEL DNEL DNEL DNEL	Long term Inhalation Long term Dermal Long term Dermal		General population	0
	DNEL DNEL DNEL	Long term Dermal Long term Dermal			Systemic
	DNEL DNEL	Long term Dermal		General population	Systemic
	DNEL		212 mg/kg bw/day	Workers	Systemic
	DNEL		221 mg/m ³	Workers	Local
		Long term Inhalation	221 mg/m ³	Workers	Systemic
	DINEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
Solvent naphtha (petroleum),	DNEL	Long term Oral	0.03 mg/kg bw/day	General population	Systemic
heavy arom. Nota(s) P		-			-
	DNEL	Long term Dermal	0.28 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.69 mg/m ³	General population	Local
	DNEL	Long term Inhalation	0.69 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.95 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.31 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	2.31 mg/m ³	Workers	Systemic
	DNEL	Short term Oral	25.6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	143.5 mg/m ³	General population	Local
	DNEL	Short term Inhalation	160.23 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	226 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Systemic
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	43.9 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/m³	Workers	Systemic
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	DNEL	Short term Inhalation	147 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	21 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	17 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	70.5 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	26400 mg/m ³	General population	Systemic
toluene	DNEL	Long term Oral	8.13 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	56.5 mg/m ³	General population	Local
	DNEL	Long term Inhalation	56.5 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	192 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	192 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	226 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	226 mg/m ³	General population	Local
	DNEL	Short term Inhalation	226 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
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SECTION 8: Exposure controls/personal protection								
methanol	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Short term Inhalation Short term Inhalation Short term Oral Long term Oral Short term Dermal Long term Dermal Short term Dermal Short term Inhalation Long term Inhalation Short term Inhalation Short term Inhalation Short term Inhalation Cong term Inhalation	384 mg/m ³ 384 mg/m ³ 4 mg/kg bw/day 4 mg/kg bw/day 4 mg/kg bw/day 20 mg/kg bw/day 20 mg/kg bw/day 20 mg/kg bw/day 26 mg/m ³ 26 mg/m ³ 26 mg/m ³ 130 mg/m ³	Workers Workers General population General population General population Workers Workers General population General population General population General population Workers Workers	Systemic Systemic Systemic Systemic Local Systemic Systemic Local Local Local			
	DNEL	Long term Inhalation Short term Inhalation	26 mg/m³ 130 mg/m³	General population Workers	Sys Loc			

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
	-	Marine water	0.01 mg/l	Assessment Factors
	-	Sewage Treatment Plant		Assessment Factors
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	-	Secondary Poisoning	20 mg/kg	-
xylene	-	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment Plant	6.58 mg/l	-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-
1-methoxy-2-propanol	-	Fresh water	10 mg/l	Assessment Factors
	-	Marine water	1 mg/l	Assessment Factors
	-	Sewage Treatment Plant	100 mg/l	Assessment Factors
	-	Fresh water sediment	41.6 mg/kg	Equilibrium Partitioning
	-	Marine water sediment	4.17 mg/kg	Equilibrium Partitioning
	-	Soil	2.47 mg/kg	Equilibrium Partitioning
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-	Fresh water	1 mg/l	Assessment Factors
	-	Marine water	0.1 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	3.6 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.36 mg/kg dwt	Equilibrium Partitioning
	-	Soil	0.14 mg/kg dwt	Equilibrium Partitioning
toluene	-	Fresh water	0.68 mg/l	Sensitivity Distribution
	-	Marine water	0.68 mg/l	Sensitivity Distribution
	-	Sewage Treatment Plant	13.61 mg/l	Sensitivity Distribution
	-	Fresh water sediment	16.39 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	16.39 mg/kg dwt	-
methanol	-	Fresh water	20.8 mg/l	Assessment Factors
	-	Marine water	2.08 mg/l	Assessment Factors
	-	Sewage Treatment Plant	100 mg/l	Assessment Factors
	-	Fresh water sediment	77 mg/kg	Equilibrium Partitioning
	-	Marine water sediment	7.7 mg/kg	Equilibrium Partitioning
	-	Soil	100 mg/kg	Assessment Factors

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SECTION 8: Exposure controls/personal protection

8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measured	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles and face shield. Use eye protection according to EN 166.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: For prolonged or repeated handling, use the following type of gloves: Not recommended: nitrile rubber
	Recommended: polyvinyl alcohol (PVA), butyl rubber, Viton®
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
Environmental exposure controls	 Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical	and chemical proper	ties						
Appearance								
Physical state	: Liquid.							
Colour	: Silvery.							
Odour	: Characteristic.							
Odour threshold	: Not available.							
Melting point/freezing point	: May start to solidify data for the following Weighted average:	g ingredie	nt: Solve	nt napł				
Initial boiling point and boiling range	: >37.78°C							
Flammability	: Not available.							
Upper/lower flammability or explosive limits	: Greatest known ran	ge: Lower	1.48%	Upper:	13.74%	% (1-m	ethoxy-2-p	ropanol)
Flash point	: Closed cup: 21°C							
Auto-ignition temperature	:							
	Ingredient name		°C		°F		Method	
	Solvent naphtha (petrole arom.	eum), heavy	220 to 2	250	428 to 48	82	ASTM E 659	
Decomposition temperature	 Stable under recommended storage and handling conditions (see Section 7). Not applicable. insoluble in water. 							
рН								
Viscosity	: Kinematic (40°C): >	21 mm²/s						
Solubility(ies)	:							
Media	Result							
cold water	Not soluble							
Partition coefficient: n-octanol/ water	: Not applicable.							
Vapour pressure								
	·	Vana	ır Press	ure et	20°C	Vo		sure at 50°C
				1			-	1
	Ingredient name	mm Hg	kPa	Meth	lod	mm Hg	kPa	Method
	ethylbenzene	9.30076	1.2					
Evaporation rate	: Highest known value butyl acetate	e: 0.84 (et	hylbenze	ene) W	eighted	avera	ge: 0.81co	mpared with
Relative density	: 1.21							
Vapour density	: H ighest known value 1)	e: 3.7 (Air	= 1) (e	thylben	zene).	Weight	ted averag	e: 3.57 (Air =
Explosive properties	: The product itself is vapour or dust with	•		the for	mation	of an e	xplosible n	nixture of
Oxidising properties	: Product does not pr	esent an o	xidizing	hazard				
Particle characteristics			-					
Median particle size	: Not applicable.							
9.2 Other information								
English (GB)			Furone					11/19

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SECTION 9: Physical and chemical properties

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides
1	

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
•	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum), heavy arom.	LC50 Inhalation Dusts and	Rat	>5.2 mg/l	4 hours
Nota(s) P	mists		Ū	
	LD50 Oral	Rat	>5 g/kg	_
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
[3-(2,3-epoxypropoxy)propyl]	LC50 Inhalation Dusts and	Rat	>5.3 mg/l	4 hours
trimethoxysilane	mists		, i i i i i i i i i i i i i i i i i i i	
	LD50 Oral	Rat	7.01 g/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
methanol	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Conclusion/Summary : There are no data available on the mixture itself.

Acute toxicity estimates

Route	ATE value
Oral	25125.8 mg/kg
Dermal	17668.15 mg/kg
Inhalation (vapours)	57.59 mg/l

Irritation/Corrosion

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SECTION 11: Toxicological information

Braduat/ingradiant name Basult Species Secre Experies Observatio					Observation	
Product/ingredient name		Result	Species	Score	Exposure	Observation
x ylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary						
Skin	: There are	no data available on the r	nixture itself	-		
Eyes	: There are	no data available on the r	nixture itself			
Respiratory	: There are	no data available on the r	nixture itself			
Sensitisation						
Conclusion/Summary						
Skin	: There are	e no data available on the	mixture itsel	f.		
Respiratory	: There are	e no data available on the	mixture itsel	f.		
Mutagenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Carcinogenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Reproductive toxicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Teratogenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), heavy arom. Nota(s) P	Category 3	-	Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
1-Butanol, titanium(4+) salt (4:1), homopolymer	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
toluene	Category 3	-	Narcotic effects
methanol	Category 1	-	-

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
toluene	Category 2		-

Aspiration hazard

Product/ingredient name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), heavy arom. Nota(s) P	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

: Not available.

Potential acute health effects

Europe	
: Causes skin irritation. Defatting to the skin.	
: No known significant effects or critical hazards.	
: No known significant effects or critical hazards.	

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SECTION 11: Toxicological information

Eye contact	: Causes serious eye damage.
Symptoms related to the ph	ysical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.
Prolonged or repeated contac	t may dry skin and cause irritation. Repeated exposure to high vapor concentrations may

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water	•	
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
Solvent naphtha (petroleum), heavy arom. Nota(s) P	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l	Fish	96 hours
	Fresh water		
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Acute EC50 255 mg/l Fresh	Algae	72 hours
	water		
	Acute EC50 473 mg/l	Daphnia	48 hours
	Acute LC50 55 mg/l	Fish	96 hours
methanol	Acute LC50 13 mg/l Fresh	Fish	96 hours
	water		

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene [3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-	79 % - Readily - 10 days 37 % - Not readily - 28 days	-	-

Conclusion/Summary : There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethylbenzene	-	-	Readily
xylene	-	-	Readily
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	-	-	Not readily
toluene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethylbenzene	3.6	79.43	Low
xylene	3.12	7.4 to 18.5	Low
Solvent naphtha (petroleum), heavy arom. Nota(s)	2.8 to 6.5	-	High
1-methoxy-2-propanol	<1	-	Low
toluene	2.73	8.32	Low
methanol	-0.77	-	Low

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)		
Container	15 01 06	mixed packaging	
Container15 01 06Special precautions: This material and its c taken when handling e Empty containers or li residues may create a Do not cut, weld or gri		I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. hiners or liners may retain some product residues. Vapour from product by create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, newers.	

14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	II
English (GB)		Euro	l ope	16/19

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14. Transport information				
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: None identified.		
Tunnel code	: (D/E)		
ADN	: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.		
IMDG	: None identified.		
IATA : None identified.			
14.6 Special pre user	 cautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. 		
14.7 Maritime tra bulk according instruments			

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Explosive precursors

Category

P5c

English (GB)

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SECTION 15: Regulatory information

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

✓ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

English (CD)	Furence 40/40
	Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE -
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Acute Tox. 4	ACUTE TOXICITY - Category 4
Acute Tox. 3	ACUTE TOXICITY - Category 3

English (GB)

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SECTION 16: Other	r information		
STOT SE 1		SPECIFIC TARGET ORGAN TOXICI	TY - SINGLE EXPOSURE -
STOT SE 3		SPEČIFÍC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
<u>History</u>			
Date of issue/ Date of revision	: 28 April 2024		
Date of previous issue	: 25 October 2023		

Prepared by	: EHS
Version	: 2.02

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