SAFETY DATA SHEET

Date of issue/Date of revision

: 19 July 2024

Version

: 2.04



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

1.1 Product identifier		
Product name	: SIGMACOVER 380 HARDENER	
Product code	: 000001188507	
Other means of ident	tification	
00444782; 00444783		

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

National advisory body/Poison Centre

Numéro de téléphone d'appel d'urgence : 01 45 42 59 59 (Association ORFILA, organisme agréé prévu au 4ème alinéa de l'article L231-7 du code du travail)

SECTION 2: Hazards identification

2.1 Classification of t	he substance or mi	ixture	
Product definition	: Mixture		
Classification accor	ding to Regulation	(EC) No. 12	272/2008 [CLP/GHS]
Flam. Liq. 3, H226			
Skin Corr. 1B, H314			
Eye Dam. 1, H318			
Skin Sens. 1, H317			
Repr. 2, H361fd			
STOT SE 3, H335			
Aquatic Acute 1, H40	0		
Aquatic Chronic 1, H4	110		

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SECTION 2: Hazards identification

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.

2.2 Label elements

Hazard pictograms		
Signal word	Danger	
Hazard statements	Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	Wear protective gloves, protective clothing and eye or face protection. Keep away fro heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoir release to the environment.	
Response	Collect spillage.	
Storage	Store in a well-ventilated place. Keep container tightly closed.	
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P403 + P233, P501	
Hazardous ingredients	 Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine xylene 4-nonylphenol, branched 3,6-diazaoctanethylenediamin 	
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 requirem	u <u>ts</u>	
Containers to be fitted with child-resistant fastenings	Not applicable.	
Tactile warning of danger	Not applicable.	
2.3 Other hazards		
Product meets the criteria	This mixture does not contain any substances that are assessed to be a PBT or a vPv γ	vB.

for PBT or vPvB

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SECTION 2: Hazards identification

Other hazards which do not result in classification

: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

May cause endocrine disruption.

SECTION 3: Composition/information on ingredients

Product/ingredient name Ide					
, i i i i i i i i i i i i i i i i i i i		% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
dimers, oligomeric reaction 01- products with tall-oil fatty EC	EACH #: -2119972320-44 C: 500-191-5 AS: 68082-29-1	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
01- EC	EACH #: -2119488216-32): 215-535-7 AS: 1330-20-7	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
01- EC CA	EACH #: -2119510715-45 C: 284-325-5 AS: 84852-15-3 dex: 601-053-00-8	≥10 - ≤25	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1300 mg/ kg M [Acute] = 10 M [Chronic] = 10	[1] [3]
01- EC CA	EACH #: -2119484609-23 C: 201-148-0 AS: 78-83-1 dex: 603-108-00-1	≥10 - <20	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
(dimethylaminomethyl) 01- phenol EC	EACH #: -2119560597-27 D: 202-013-9 AS: 90-72-2	≥5.0 - ≤10	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg	[1]
01- EC CA	EACH #: -2119489370-35 C: 202-849-4 AS: 100-41-4 dex: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
	2: 203-950-6 AS: 112-24-3 dex: 612-059-00-5	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[1]
English (GB)			France		3/21

SECTION 3: Composition/information on ingredients

			Aquatic Chronic 3, H412		
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

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>Туре</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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 sympton Potential acute health effed	ns and effects, both acute and delayed

i otentiai acute nealth enects	
Eye contact	Causes serious eye damage.
Inhalation	May cause respiratory irritation.
Skin contact	Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	Corrosive to the digestive tract. Causes burns.
Over-exposure signs/sympton	<u>ms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness

English (GB)

Conforms to Regulation (EC) No.	1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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SECTION 4: I	First aid measure	S	
Inhalation	respirator coughing reduced f increase i	symptoms may include the following: y tract irritation oetal weight in foetal deaths nalformations	
Skin contact	pain or irr redness dryness cracking blistering reduced f increase i	symptoms may include the following: itation may occur oetal weight in foetal deaths nalformations	
Ingestion	stomach r reduced f increase i	symptoms may include the following: pains oetal weight n foetal deaths nalformations	

Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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 fr	om the substance or mixture
Hazards from the substance or mixture	: 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 very toxic 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 nitrogen 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.
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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.
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. Collect spillage.
6.3 Methods and material for	со	ontainment 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.

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).

See Section 13 for additional waste treatment information.

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
2020/878	

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SECTION 7: Handli	ng and storage			
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.			
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See 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

Product/ingredient name	Exposure limit values
x ylene	Ministry of Labor (France, 9/2023). [xylènes, isomères mixtes, purs] Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 221 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation
2-methylpropan-1-ol	Ministry of Labor (France, 9/2023). TWA: 150 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation
ethylbenzene	Ministry of Labor (France, 9/2023). Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 88.4 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 20 ppm 8 hours. Form: Risk for sensitisation
toluene	Ministry of Labor (France, 9/2023). Absorbed through skin. STEL: 384 mg/m ³ 15 minutes. Form: Risk for sensitisation STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 76.8 mg/m ³ 8 hours. Form: Risk for sensitisation TWA: 20 ppm 8 hours. Form: Risk for sensitisation

Biological exposure indices

English (GB)

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure indices
toluene	Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) BLV: 30 μg/l, toluene [in urine]. Sampling time: at the end of the shift. BLV: 20 μg/l, toluene [in blood]. Sampling time: at the beginning of the shift and at the end of the week. BLV: 300 μg/g Cr, ortho-cresol [in urine]. Sampling time: end of shift and weekend.

Recommended monitoring procedures : 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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	DNEL	Long term Oral	97.2 µg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	97.2 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.169 mg/m^3	General population	Systemic
	DNEL	Long term Dermal	0.272 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.952 mg/m ³	Workers	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
Aylene	DNEL	Long term Inhalation	65.3 mg/m ³	General population	
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	
	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
4-nonylphenol, branched	DNEL	Short term Oral	0.4 mg/kg bw/day	General population	
	DNEL	Short term Inhalation	0.8 mg/m ³	General population	
	DNEL	Short term Dermal	7.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.08 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.4 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	0.5 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	1 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	3.8 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7.5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	15 mg/kg bw/day	Workers	Systemic
2-methylpropan-1-ol	DNEL	Long term Inhalation	55 mg/m ³	General population	
, , , , , , , , , , , , , , , , , , ,	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local
2,4,6-tris	DNEL	Long term Oral	0.075 mg/kg bw/day	General population	Systemic
(dimethylaminomethyl)phenol			•		
	DNEL	Short term Dermal	0.075 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.075 mg/kg bw/day	General population	Systemic
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ECTION 8: Exposure	cont	rols/personal pro	otection		
	DNEL	Short term Inhalation	0.13 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	0.13 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.15 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.53 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	0.6 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	2.1 mg/m ³	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
,	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
3,6-diazaoctanethylenediamin	DNEL	Long term Dermal	28 µg/cm²	Workers	Local
, , , , , , , , , , , , , , , , , , ,	DNEL	Long term Dermal	0.25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.29 mg/m ³	General population	
	DNEL	Long term Oral	0.41 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.43 mg/cm ²	General population	
	DNEL	Long term Dermal	0.57 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	1 mg/cm ²	General population	
	DNEL	Long term Inhalation	1 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	8 mg/kg bw/day	General population	
	DNEL	Short term Oral	20 mg/kg bw/day	General population	
	DNEL	Short term Inhalation	1600 mg/m ³	General population	
	DNEL	Short term Inhalation	5380 mg/m ³	Workers	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
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Local
				1 1 1 1	

PNECs

DNEL

Short term Inhalation

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall- oil fatty acids and triethylenetetramine	-	Fresh water	0.043 mg/l	Assessment Factors
, ,	-	Marine water	0 mg/l	Assessment Factors
	-	Sewage Treatment Plant	3.84 mg/l	Assessment Factors
	-	Fresh water sediment	434.02 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	43.4 mg/kg dwt	Equilibrium Partitioning
	-	Soil	86.78 mg/kg dwt	Equilibrium Partitioning
kylene	-	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment Plant		-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-
2-methylpropan-1-ol	-	Fresh water	0.4 mg/l	Assessment Factors
	-	Marine water	0.04 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning
English (GB)	1	France	<u> </u>	9/21

384 mg/m³

Workers

Systemic

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SECTION 8: Exposure controls/personal protection							
	-	Marine water sediment	0.156 mg/kg dwt	-			
	-	Soil	0.076 mg/kg dwt	Equilibrium Partitioning			
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors			
	-	Marine water	0.01 mg/l	Assessment Factors			
	-	Sewage Treatment Plant	9.6 mg/l	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	-			
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	-			

3.2 Exposure controls Appropriate engineering	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation
controls	or other engineering controls to keep worker exposure to airborne contaminants belo any recommended or statutory limits. The engineering controls also need to keep ga vapour or dust concentrations below any lower explosive limits. Use explosion-proor ventilation equipment.
Individual protection meas	ures
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. Contaminated work clothing should not be allowed out of the workplace. 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 worn at all times when handling chemical products if a risk assessment indicates thi is necessary. Considering the parameters specified by the glove manufacturer, che 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 uses included in the user's risk assessment.
Gloves	: butyl rubber
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 befo handling this product. When there is a risk of ignition from static electricity, wear an static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard E 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 selecte based on the task being performed and the risks involved and should be approved b a specialist before handling this product.
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SECTION 8: Exposur	e controls/personal protection
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.

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 properties

<u>Appearance</u>								
Physical state	1	Liquid.						
Colour	1	Not available.						
Odour	1	Amine-like.	Amine-like.					
Odour threshold	:	Not available.						
Melting point/freezing point		May start to solidify at the following temperature: 12°C (53.6°F) This is based on data for the following ingredient: 3,6-diazaoctanethylenediamin. Weighted average: -60.84°C (-77.5°F)						
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known range: Lowe	r: 1.7% Uppe	er: 10.9% (2-	methylpropan-1-ol)			
Flash point	1	Closed cup: 30°C						
Auto-ignition temperature	1							
		Ingredient name	°C	°F	Method			
		3,6-diazaoctanethylenediamin	337.78	640				
Decomposition temperature	:	Stable under recommended s	storage and h	andling cond	litions (see Section 7).			
рН	1	Not applicable. insoluble in w	ater.					
Viscosity	1	Kinematic (40°C): >21 mm²/s	i					
Viscosity	1	30 - <40 s (ISO 6mm)						
Solubility(ies)	1							
Mar all a		Result						
Media								
cold water		Not soluble						
	/ :							

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SECTION 9: Physical and chemical properties

			Vapou	Vapour Pressure at 20°C			Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2				
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (et	hylbenze	ene) Weighteo	d average	e: 0.74co	mpared with	
Relative density	:	0.91							
Vapour density	:	: Highest known value: 7.59 (Air = 1) (4-nonylphenol, branched). Weighted average 4.81 (Air = 1)							
Explosive properties	:	: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.							
Oxidising properties	:	Product does not pre	esent an o	oxidizing	hazard.				
Particle characteristics									
Median particle size	:	Not applicable.							
median particle Size									

SECTION 10: Stabilit	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 nitrogen oxides					

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
✓atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
•	LD50 Oral	Rat	4.3 g/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
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SECTION 11: Toxicological information

•				
	LD50 Oral	Rat	2830 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
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	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
	LD50 Oral	Rat	1716 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m ³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

Route	ATE value		
Oral	4469.33 mg/kg		
Dermal	4878.07 mg/kg		
Inhalation (vapours)	42.43 mg/l		

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
✓atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Human	-	-	-
xylene		Rabbit	-	24 hours 500 mg	-
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	-	-

Conclusion/Summary

- Skin
- : There are no data available on the mixture itself.

Eyes

- : There are no data available on the mixture itself.
- Respiratory
- : There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitising
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitising
Conclusion/Summary			

· · · · · · · · · · · · · · · · · · ·	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	city (single exposure)

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Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
toluene	Category 3	-	Narcotic effects

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

uct/ingredient name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
: Not available.	
ffects	
: May cause respiratory irritation	1.
: Corrosive to the digestive trac	t. Causes burns.
: Causes severe burns. Defatti	ng to the skin. May cause an allergic skin reaction.
: Causes serious eye damage.	
e physical, chemical and toxicologic	cal characteristics
: Adverse symptoms may includ respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations	de the following:
: Adverse symptoms may includ stomach pains reduced foetal weight increase in foetal deaths skeletal malformations	de the following:
: Adverse symptoms may includ pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations	de the following:
: Adverse symptoms may includ pain watering redness	de the following:
	 Not available. May cause respiratory irritation Corrosive to the digestive tract Causes severe burns. Defatti Causes serious eye damage. e physical, chemical and toxicologie Adverse symptoms may include respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations Adverse symptoms may include stomach pains reduced foetal weight increase in foetal deaths skeletal malformations Adverse symptoms may include stomach pains reduced foetal weight increase in foetal deaths skeletal malformations Adverse symptoms may include pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations Adverse symptoms may include pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations Adverse symptoms may include pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations Adverse symptoms may include pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

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SECTION 11: Toxicological information

<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	ct	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	Suspected of damaging fertility. Suspected of damaging the unborn child.
Other information	:	Not available.

Causes digestive tract burns. 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. Avoid contact with skin and clothing. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	

Conclusion/Summary

: There are no data available on the mixture itself.

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SECTION 12: Ecological information

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
₹,4,6-tris (dimethylaminomethyl)phenol	OECD 301D Ready Biodegradability - Closed Bottle Test	4 % - Not readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	-	Not readily
xylene	-	-	Readily
2,4,6-tris(dimethylaminomethyl)phenol	-	-	Not readily
ethylbenzene	-	-	Readily
toluene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
xylene	3.12	7.4 to 18.5	Low	
4-nonylphenol, branched	5.4	251.19	Low	
2-methylpropan-1-ol	1	-	Low	
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low	
ethylbenzene	3.6	79.43	Low	
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low	
toluene	2.73	8.32	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.

12.6 Endocrine disrupting properties

May cause endocrine disruption.

12.7 Other adverse effects

No known significant effects or critical hazards.

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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

<u>Product</u>	
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	: The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

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

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	
Special precautions	taken when h Empty contai residues may Do not cut, w	I and its container must be disposed of in a safe way. Care should be nandling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

SECTION 14: Transport information

UN2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (4-nonylphenol, branched, xylene)	UN2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (4-nonylphenol, branched, xylene)	UN2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (4-nonylphenol, branched, xylene)	UN2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (4-nonylphenol,	
FLAMMABLE, N.O.S. (4-nonylphenol, branched, xylene)	FLAMMABLE, N.O.S. (4-nonylphenol,	FLAMMABLE, N.O.S. (4-nonylphenol,	FLAMMABLE, N.O.S. (4-nonylphenol,	
branched, xylene)				
0 (0)		brancheu, xylene)	branched, xylene)	
8 (3)	8 (3)	8 (3)	8 (3)	
II	II	II	II	
Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Not applicable.	Not applicable.	(Polyamide)	Not applicable.	
	Yes.	Yes. Yes.	Yes. Yes. Yes.	

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SECTION 14: Transport information

Additional information

ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ADN	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
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 tr	ansport in : Not applicable

14.7 Maritime transport in : Not applicable. bulk according to IMO 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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Indocrine disrupting properties for environment	4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	Candidate	ED/169/2012	12/19/2012

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

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

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SECTION 15: Regulatory information

Category
P5c

E1

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes	
toluene	France Occupation Exposure Limits	al toluène	Repro. R2	-	
Social Security Code, Articles L 461-1 to L 461-7	: Vylene 2-methylpropan-1-c ethylbenzene toluene Surveillance médica [1] Benzène et hom	RG 84 RG 4bis, RG 84 [1] édicale spéciale selon l'arrêté du 11 juillet 1977:			
Reinforced medical surveillance	: Act of July 11, 1977 determining the list of activities which require reinforced me surveillance: not applicable			einforced medical	
References	specific rules for the and amending the l to prevention of che 26 February 2004 of 88-1231 of 29/12/19 95-517 of 15 May 1 article: R231-53 ; L 232-5 to R 232-5-14 231-54 to R 231-54 and R 233-30 ; Lab Labour code: provis R234-16 ; Labour of 19 July 1976 amen classified installatio	plicable surveillance ; Decree no. 2001-97 of 1 February 2001 establishing e prevention of risks from carcinogens, mutagens and reprotoxics abour code ; Decree no. 2003-1254 of 23 December 2003 relating emical risks and amending the Labour code ; Decree no. 2004-187 on the placing on the market of biocidal products ; Decree no. 988 relating to poisonous preparations and substances. ; Decree r 997, relating to the classification of dangerous waste. ; Labour cod abour code: Occupational air (ventilation, air purification): Art. R 4 ; Labour code: Prevention of chemical risk: Art.R231-51 and R -9 ; Labour code: Prevention of fires: Art.R232-12-13 to R 232-12- our code: provisions applicable to women: Art. L 234-3 to L 236-6 sions applicable to young workers: Art. R 232-2-7 ; Law 76-663 ding and implementing decree of 21 September 1977 relating to ns for the protection of the environment ; Tables of anticipated tes according to article R461-3 of the labour code		hs and reprotoxics ember 2003 relating ecree no. 2004-187 o stances. ; Decree no. vaste. ; Labour code ification): Art. R t.R231-51 and R 12-13 to R 232-12-29 234-3 to L 236-6 ; o L 236-6; Art: 2-2-7 ; Law 76-663 o 1977 relating to s of anticipated	

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	
2020/878	

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SECTION 16: Other information			
Classification	Justification		
Flam. Liq. 3, H226	On basis of test data		
Skin Corr. 1B, H314	Calculation method		
Eye Dam. 1, H318	Calculation method		
Skin Sens. 1, H317	Calculation method		
Repr. 2, H361fd	Calculation method		
STOT SE 3, H335	Calculation method		
Aquatic Acute 1, H400	Calculation method		
Aquatic Chronic 1, H410	Calculation method		
Full text of abbreviated H statements			
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.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H361d	Suspected of damaging the unborn child.		
H361fd	Suspected of damaging fertility. Suspected of damaging 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.		
Full text of classifications [CLP/GHS]			
Acute Tox. 4	ACUTE TOXICITY - Category 4		
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1		
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1		
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2		
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3		
Asp. Tox. 1	ASPIRATION HAZARD - Category 1		
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1		
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2		
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2		
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3		
Repr. 2	REPRODUCTIVE TOXICITY - Category 2		
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B		
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C		
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2			
Skin Sens. 1	SKIN SENSITISATION - Category 1		
Skin Sens. 1A	SKIN SENSITISATION - Category 1A		
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE -		
	Category 2		
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -		
	Category 3		

<u>History</u>

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SECTION 16: Othe	r information		
Date of issue/ Date of revision	: 19 July 2024		
Date of previous issue	: 4 March 2024		
Prepared by	: EHS		
Version	: 2.04		

Disclaimer

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