SAFETY DATA SHEET

pPG

: 5.07

Version

Europe

Date of issue/Date of revision : 6 Septem

: 6 September 2024

SECTION 1: Identification of the substance/mixture and of the company/ undertaking 1.1 Product identifier Product name : SIGMAFAST 278 HARDENER Product code : 000001085137

Other means of identification

00323232; 00345239; 00351714; 00453392

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	: Hardener.		
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 <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411 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.

Eng	lish	(US)

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SECTION 2: Hazards identification

1

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 vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Toxic 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. Avoid release t the environment.	to
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	 xylene proprietary aralkylpolyamine 2,4,6-tris(dimethylaminomethyl)phenol Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6-diazaoctanethylenediamin ethylenediamine 3-aminopropyldimethylamine 	
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		
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 vPvE	3.

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SECTION 2: Hazards identification

Other hazards which do not result in classification

: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥25 - ≤49	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]
proprietary aralkylpolyamine	CAS: SUB119920	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥5.0 - ≤10	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 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]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2	≥1.0 - <5.0	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]
Formaldehyde, polymer with N,N-dimethyl- 1,3-propanediamine and phenol	CAS: 445498-00-0	≥1.0 - ≤5.0	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg M [Acute] = 1 M [Chronic] = 1	[1]
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
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SECTION 3: Composition/information on ingredients

1					
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	<1.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[1] [2]
ethylenediamine	REACH #: 01-2119480383-37 EC: 203-468-6 CAS: 107-15-3 Index: 612-006-00-6	<1.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317	ATE [Oral] = 500 mg/ kg ATE [Dermal] = 1100 mg/kg	[1] [2] [3]
3-aminopropyldimethylamine	REACH #: 01-2119486842-27 EC: 203-680-9 CAS: 109-55-7 Index: 612-061-00-6	≤0.30	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 410 mg/ kg ATE [Dermal] = 1100 mg/kg	[1]

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.

Type

[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 recognized skin cleanser. Do NOT use solvents or thinners. Ingestion : If swallowed, seek medical advice immediately and show this 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 symptoms and effects, both acute and delayed

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SECTION 4: First aid measures

Potential acute health effe	ects
Eye contact	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
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 immed	liate medical attention and special treatment needed
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

English (US)	Europe	5/20
5.3 Advice for firefighters Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of there is a fire. No action shall be taken involving any personal risk or training. Move containers from fire area if this can be done without rispray to keep fire-exposed containers cool.	r without suitable
5.3 Advice for firefighters		
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides	
Hazards from the substance or mixture	: Flammable liquid and vapor. Runoff to sewer may create fire or expl fire or if heated, a pressure increase will occur and the container may of a subsequent explosion. This material is toxic to aquatic life with I Fire water contaminated with this material must be contained and pre discharged to any waterway, sewer or drain.	y burst, with the risk ong lasting effects.
5.2 Special hazards arising	from the substance or mixture	
Unsuitable extinguishing media	: Do not use water jet.	
Suitable extinguishing media media	: Use dry chemical, CO ₂ , water spray (fog) or foam.	
5.1 Extinguishing media		

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters i 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, pro	tective 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized 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 spilled 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 materials fo	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 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 spilled 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor 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

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	g and storage					
	against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.					
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 oxidizing 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 unlabeled 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
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
1-methoxy-2-propanol	EU OEL (Europe, 1/2022). Absorbed through skin.
	STEL: 568 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
benzyl alcohol	IPEL (-).
	TWA: 5 ppm
	STEL: 10 ppm
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.
	STEL: 884 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 442 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
3,6-diazaoctanethylenediamin	IPEL (-). Absorbed through skin.
	TWA: 1 ppm
ethylenediamine	ACGIH TLV (United States, 7/2023). Absorbed through skin.
	TWA: 10 ppm 8 hours.

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SECTION 8: Exposure controls/personal protection

Recommended monitoring	: Reference should be made to monitoring standards, such as the following: European
procedures	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
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
	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	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
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	
5 1 1	DNEL	Long term Inhalation	43.9 mg/m ³	General population	
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	
	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/m ³	Workers	Systemic
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	5.4 mg/m^3	General population	
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	
	DNEL	Short term Dermal	20 mg/kg bw/day		
	DNEL		20 mg/kg bw/day 22 mg/m ³	General population Workers	
	DNEL	Long term Inhalation			Systemic
	DNEL	Short term Inhalation	27 mg/m ³	General population	
		Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 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	
	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
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	
	DNEL	Long term Dermal	0.075 mg/kg bw/day	General population	
	DNEL	Short term Inhalation	0.13 mg/m ³	General population	
	DNEL	Long term Inhalation	0.13 mg/m³	General population	
	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
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Fatty 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		
3,6-diazaoctanethylenediamin	DNEL DNEL DNEL DNEL	Long term Dermal Long term Inhalation Long term Dermal Long term Dermal Long term Dermal Long term Dermal Long term Oral Long term Dermal Long term Dermal Short term Dermal Long term Inhalation Short term Dermal Short term Dermal Short term Dermal Short term Dermal	97.2 μg/kg bw/day 0.169 mg/m ³ 0.272 mg/kg bw/day 0.952 mg/m ³ 28 μg/cm ² 0.25 mg/kg bw/day 0.29 mg/m ³ 0.41 mg/kg bw/day 0.43 mg/cm ² 0.57 mg/kg bw/day 1 mg/m ³ 8 mg/kg bw/day 20 mg/kg bw/day	General population General population Workers Workers General population General population General population Workers General population Workers General population General population	Systemic Systemic Systemic Local Systemic Systemic Local Systemic Local Systemic Systemic Systemic Systemic Systemic		
ethylenediamine 3-aminopropyldimethylamine	DNEL DNEL DNEL DNEL DNEL DNEL	Short term Inhalation Short term Inhalation Long term Oral Long term Inhalation Long term Inhalation Long term Inhalation	1600 mg/m ³ 5380 mg/m ³ 0.11 mg/kg bw/day 6.25 mg/m ³ 25 mg/m ³ 1.2 mg/m ³	General population Workers General population General population Workers Workers	Systemic Systemic Systemic Systemic Systemic Systemic		

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
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
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	-
Fatty acids, C18-unsatd., dimers,	-	Fresh water	0.043 mg/l	Assessment Factors
oligomeric reaction products with tall-			U U	
bil fatty acids and triethylenetetramine				
, ,	-	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
3-aminopropyldimethylamine	-	Fresh water	0.034 mg/l	Assessment Factors
	-	Marine water	0.003 mg/l	Assessment Factors
	-	Sewage Treatment Plant	69.5 mg/l	Assessment Factors
English (US)		Europe	<u> </u>	9/20

	00	Equilibrium Partitioning Equilibrium Partitioning
-	00	Equilibrium Partitioning

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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 equipmen will be necessary to reduce emissions to acceptable levels.	nt
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 necessar Wear a respirator conforming to EN140. Filter type: organic vapor (Type A) and particulate filter P3	у.
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 be a specialist before handling this product.	
Body protection	 butyl rubber 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 befor 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. 	ti- J N
Gloves	 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 differer 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 us as included in the user's risk assessment. 	ent d.
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 this	s
Eye/face protection	: Chemical splash goggles and face shield. Use eye protection according to EN 166.	
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.	
Individual protection meas		
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 g vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.	ow as,
.2 Exposure controls		

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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.

	••						
:	Not applicable.						
		-		hazard.			
1				the formation	ot an exp	piosible m	nxture of
- 1	•	•		, .		-	. ,
- :							
:	butyl acetate	:: 0.84 (et	nylbenze	ne) Weighte	d average	e: 0.69cor	npared with
	ethylbenzene	9.30076	1.2				
				Method	mm Hg	kPa	Method
		•		Vapor pressure at 50		1	
:	Γ		. Deter				
., .							
<u>.</u>							
	Result						
1	00 - 100 s (ISO 6mm	1)					
_	Kinematic (40°C): >21 mm²/s						
:	Kinematic (room tem	perature		ım²/s			
:			-				
:	Stable under recomm	nended s	orade ar	nd handling co	onditions	(see Sec	tion 7).
	1-methoxy-2-propanol		270	518			
	Ingredient name		°C	°F	N	lethod	
:	·						
:	Closed cup: 29°C						
		je. Lower	1.4070	оррег. 13.74	/o (1-111eti	поху-2-рі	opanor
			1 / 8%	Inner: 13 7/	% (1. mot	hovy 2 pr	onanol)
:	()						
		ingredie	nt: benzy	l alcohol. Wei	ighted ave	erage: -79	9.4°C
:							
:	Not available.						
:	Aromatic. [Slight]						
:	Colorless.						
	Liquid.						
		 Colorless. Aromatic. [Slight] Not available. May start to solidify a data for the following (-110.9°F) >37.78°C Not available. Greatest known range Closed cup: 29°C Ingredient name 1-methoxy-2-propanol Stable under recomm Not applicable. insolution Kinematic (room term Kinematic (40°C): >2 60 - 100 s (ISO 6mm) Result Not soluble Ingredient name thighest known value butyl acetate 0.97 Highest known value The product itself is n vapor or dust with ait 	 Colorless. Aromatic. [Slight] Not available. May start to solidify at the follo data for the following ingredier (-110.9°F) >37.78°C Not available. Greatest known range: Lower: Closed cup: 29°C Ingredient name 1-methoxy-2-propanol Stable under recommended st Not applicable. insoluble in wa Kinematic (room temperature) Kinematic (40°C): >21 mm²/s 60 - 100 s (ISO 6mm) Result Not applicable. Result Not applicable. Result Not applicable. Highest known value: 0.84 (eth butyl acetate 0.97 Highest known value: 3.7 (Air The product itself is not explose vapor or dust with air is possib Product does not present an or 	 Colorless. Aromatic. [Slight] Not available. May start to solidify at the following tendata for the following ingredient: benzy (-110.9°F) >37.78°C Not available. Greatest known range: Lower: 1.48% Closed cup: 29°C Ingredient name °C 1-methoxy-2-propanol 270 Stable under recommended storage ar Not applicable. insoluble in water. Kinematic (room temperature): >400 m Kinematic (40°C): >21 mm²/s 60 - 100 s (ISO 6mm) Result Not soluble I vapor Pressu Ingredient name 9.30076 1.2 Highest known value: 0.84 (ethylbenzee butyl acetate 0.97 Highest known value: 3.7 (Air = 1) (xy vapor or dust with air is possible. Product does not present an oxidizing I 	: Colorless. : Aromatic. [Slight] : Not available. : May start to solidify at the following temperature: -15 data for the following ingredient: benzyl alcohol. Wei (-110.9°F) : >37.78°C : Not available. : Greatest known range: Lower: 1.48% Upper: 13.74 : Closed cup: 29°C :	: Colorless. Aromatic. [Slight] Not available. May start to solidify at the following temperature: -15.4°C (4.3 data for the following ingredient: benzyl alcohol. Weighted ava (-110.9°F) > 37.78°C Not available. Greatest known range: Lower: 1.48% Upper: 13.74% (1-met Closed cup: 29°C <u>Ingredient name</u> °C °F N 1-methoxy-2-propanol 270 518 Stable under recommended storage and handling conditions Not applicable. insoluble in water. Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s 60 - 100 s (ISO 6mm) Result Not soluble // : Not applicable. : <u>Ingredient name</u> <u>Vapor Pressure at 20°C Vap</u> <u>Ingredient name</u> <u>mm Hg kPa Method mm</u> Hg ethylbenzene <u>9.30076 1.2</u> : Highest known value: 0.84 (ethylbenzene) Weighted average butyl acetate : 0.97 Highest known value: 3.7 (Air = 1) (xylene). Weighted average buty acetate : Product itself is not explosive, but the formation of an exp vapor or dust with air is possible. : Product does not present an oxidizing hazard.	 Colorless. Aromatic. [Slight] Not available. May start to solidify at the following temperature: -15.4°C (4.3°F) This is data for the following ingredient: benzyl alcohol. Weighted average: -75 (-110.9°F) >37.78°C Not available. Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-pressure context) Closed cup: 29°C Ingredient name or or or methods are and handling conditions (see Sect) Stable under recommended storage and handling conditions (see Sect) Not applicable. insoluble in water. Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s 60 - 100 s (ISO 6mm) Result Not soluble Ingredient name mm Hg kPa Method mm kPa Hg ethylbenzene 9.30076 1.2 Highest known value: 0.84 (ethylbenzene) Weighted average: 0.69cord butyl acetate 0.97 Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.58 The product itself is not explosive, but the formation of an explosible m vapor or dust with air is possible. Product does not present an oxidizing hazard.

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SECTION 9: Physical and chemical properties

9.2 Other information

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: oxidizing 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** LD50 Dermal Rabbit 1.7 g/kg xylene LD50 Oral Rat 4.3 g/kg 6 hours LC50 Inhalation Vapor Rat >7000 ppm 1-methoxy-2-propanol LD50 Dermal Rabbit 13 g/kg LD50 Oral Rat 5.2 g/kg 4 hours benzyl alcohol LC50 Inhalation Dusts and Rat >4178 mg/m³ mists LD50 Dermal Rabbit 2000 mg/kg LD50 Oral Rat 1.23 g/kg ethylbenzene LC50 Inhalation Vapor Rat 17.8 mg/l 4 hours LD50 Dermal Rabbit 17.8 g/kg LD50 Oral Rat 3.5 g/kg 2,4,6-tris(dimethylaminomethyl)phenol LD50 Dermal Rat 1280 mg/kg LD50 Oral Rat 1200 mg/kg Fatty acids, C18-unsatd., dimers, LD50 Dermal Rat >2000 mg/kg oligomeric reaction products with tall-oil fatty acids and triethylenetetramine >2000 mg/kg LD50 Oral Rat 3,6-diazaoctanethylenediamin LD50 Dermal Rabbit 1465 mg/kg LD50 Oral Rat 1716 mg/kg ethylenediamine LD50 Dermal Rabbit 0.73 g/kg LD50 Oral Rat 0.5 g/kg LD50 Dermal Rabbit >1000 mg/kg 3-aminopropyldimethylamine LD50 Oral Rat 410 mg/kg

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

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SECTION 11: Toxicological information

Route	ATE value
Oral	7078.11 mg/kg
Dermal	5601.09 mg/kg
Inhalation (vapors)	39.11 mg/l
Inhalation (dusts and mists)	27.46 mg/l

Irritation/Corrosion

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

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.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine		Mouse	Sensitizing
		Guinea pig	Sensitizing

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
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 toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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SECTION 11: Toxicological information

Product	Result					
xylene ethylbenzene	-	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1				
Information on the likely routes of exposure	: Not available.					
Potential acute health effect	<u>cts</u>					
Inhalation	: May cause respiratory irritat	May cause respiratory irritation.				
Ingestion	: No known significant effects	or critical hazards.				
Skin contact	: Causes skin irritation. Defa	tting to the skin. May cause an allergic skin reaction.				
Eye contact	: Causes serious eye damage	9.				
Symptoms related to the p	hysical, chemical and toxicolog	gical characteristics				
Inhalation	: Adverse symptoms may incl respiratory tract irritation coughing	ude the following:				
Ingestion	: Adverse symptoms may inclusion stomach pains	ude the following:				
Skin contact	: Adverse symptoms may inclu- pain or irritation redness dryness cracking blistering may occur	ude the following:				
Eye contact	: Adverse symptoms may incl pain watering redness	ude the following:				
Delayed and immediate eff	ects and also chronic effects fi	om short and long term exposure				
Short term exposure						
Potential immediate effects	: Not available.					
Potential delayed effects	S : Not available.	Not available.				
Long term exposure Potential immediate effects	: Not available.					
Potential delayed effects	S : Not available.					
Potential chronic health eff	fects					
Not available.						
Conclusion/Summary	: Not available.					
General : Prolonged or repeated contact can defat the skin and lead to irritation, crackin dermatitis. Once sensitized, a severe allergic reaction may occur when subse exposed to very low levels.						
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.						

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SECTION 11: Toxicological information

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 vapor/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
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l	Fish	96 hours
	Fresh water		
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
Fatty acids, C18-unsatd., dimers, oligomeric	EC10 1.78 mg/l	Algae	72 hours
reaction products with tall-oil fatty acids and			
triethylenetetramine			
3-aminopropyldimethylamine	Acute LC50 122 mg/l	Fish	96 hours

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-
2,4,6-tris	OECD 301D	4 % - Not readily - 28 days	-	-
(dimethylaminomethyl)phenol	Ready			
	Biodegradability -			
	Closed Bottle			
	Test			
3-aminopropyldimethylamine	OECD 301D	69 % - Readily - 20 days	-	_

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

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

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SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
1-methoxy-2-propanol	<1	-	Low
benzyl alcohol	0.87	-	Low
ethylbenzene	3.6	79.43	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low
ethylenediamine	-2.04	-	Low
3-aminopropyldimethylamine	-0.352	-	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

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 minimized 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

European waste catalogue (EWC)

	Waste code	Waste designation
08.0	1 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packa	ging	

Methods of disposal

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

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SECTION 13: Disposal considerations

Type of packaging		European waste catalogue (EWC)
Container	15 01 06	mixed packaging
Special precautions	taken when I Empty conta residues may Do not cut, w	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. iners or liners may retain some product residues. Vapor 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 spilled material and runoff and contact with soil, waterways, ewers.

SECTION 14: Transport information

	-				
	ADR/RID	ADN	IMDG	IATA	
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263	
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	
14.3 Transport hazard class(es)	3	3	3	3	
14.4 Packing group	III	III	III	III	
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Marine pollutant substances	Not applicable.	Not applicable.	(Formaldehyde, polymer with N,N- dimethyl- 1,3-propanediamine and phenol)	Not applicable.	

Additional information

ADR/RID	 This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2.
Tunnel code	: (D/E)
ADN	: This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2.
IMDG	: This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.
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.

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SECTION 14: Transport information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	 Reference number	Date of revision
Substance of equivalent concern for human health	ethylenediamine	D(2021) 4569-DC	4/12/2023

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

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Category	
P5c E2	

15.2	Chei	mica	Safety
Ass	essm	ent	

: 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

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

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SECTION 16: Other information

IMDG = International Maritime Dangerous Goods IATA = International Air Transport Association

Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
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.
H334	May cause allergy or asthma symptoms or breathing difficulties if
	inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated
	exposure.
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	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - 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

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	
Resp. Sens. 1	RESPIRATORY SENSITIZATION - Category 1	
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 SENSITIZATION - Category 1	
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A	
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B	
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>

Date of issue/ Date of revision	:	6 September 2024
Date of previous issue	:	29 July 2024
Prepared by	:	EHS
Version	:	5.07

English (US)

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SECTION 16: Other information

<u>Disclaimer</u>

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.