SAFETY DATA SHEET

Date of issue/Date of revision

: 9 October 2024

Version

: 1.05

Cameroon



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

1.1 Product identifier	
Product name	: SIGMASHIELD 420/460/880/880GF HARDENER
Product code	: 000001189596
Other means of identifica	tion
00446815; 00446816; 0044	6819
1.2 Relevant identified use	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/	: Hardener.; Coating.
mixture	-
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
4.2 Details of the supplier	of the confety data about
1.3 Details of the supplier of	of the safety data sheet
PPG Cameroun	
BP 1028, Douala Cameroon	
Tel: 00237 33 37 83 47	
Fax: 00237 33 37 88 98	

e-mail address of person : PS.ACEMEA@ppg.com responsible for this SDS

1.4 Emergency telephone number

: ORFILA (INRS) 0033 (0)1 45 42 59 59 / 00237 33 37 83 47

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

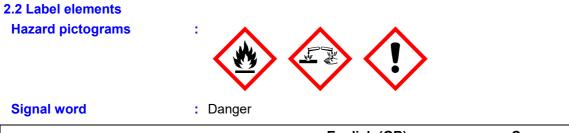
Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Lig. 3, H226 Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

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



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SECTION 2: Hazards identification

SECTION 2. Hazarus	identification
Hazard statements	 Flammable liquid and vapour. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	: IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor.
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, P304 + P310, P301 + P310, P403 + P233, P501
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>ients</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 for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
₽́poxy Amine Resin	CAS: SUB123903	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 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	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
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Conforms to Regulation (EC) No. 1907/2006 (RE	ACH), Annex II, as amended by Commission Regulation (EU)
2020/878	

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SECTION 3: Composition/information on ingredients

			STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
Propylidynetrimethanol, propoxylated, reaction products with ammonia	REACH #: 01-2119556886-20 EC: 500-105-6 CAS: 39423-51-3	≥10 - <25	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/ kg ATE [Dermal] = 1100 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤25	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317	ATE [Oral] = 1200 mg/ kg	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥5.0 - ≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
m-phenylenebis (methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥1.0 - <5.0	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 EUH071	ATE [Oral] = 930 mg/ kg ATE [Inhalation (gases)] = 4500 ppm	[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]
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 See Section 16 for the full text of the H statements declared above.	ATE [Inhalation (vapours)] = 17.8 mg/l	[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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

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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 symptoms and effects, both acute and delayed

4.2 WOSt important Syr	informs and effects, both acute and delayed
Potential acute health	<u>l effects</u>
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	: Harmful if swallowed.
Over-exposure signs	/symptoms
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 in	nmediate 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

	5	5
5.1 Extinguishing media		
Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishir media	ng :	Do not use water jet.

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SECTION 5: Firefighting measures

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 harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides 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 Europear 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 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.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt 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.

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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 vapour of 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.
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 ýlene	through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/ STEL 15 minutes: 100			
benzyl alcohol	IPEL (-) TWA: 5 ppm. STEL: 10 ppm.			
2-methylpropan-1-ol	ACGIH TLV (United Sta TWA 8 hours: 50 ppm.	ACGIH TLV (United States, 7/2023)		
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m-phenylenebis(methylamine	
ethylbenzene	C: 0.018 ppm. EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m ³ . STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m ³ .
x ylene	DOL BEI (South Africa, 3/2021) [xylenes] BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: end of shift.
ethylbenzene	DOL BEI (South Africa, 3/2021) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
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.
8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	<u>res</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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 Skin protection	: Chemical splash goggles and face shield.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: nitrile neoprene

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Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:
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

Colour:Odour:Odour threshold:Odour threshold:Melting point/freezing point:Initial boiling point and:boiling range:Flammability:Upper/lower flammability or:explosive limits:Flash point:Auto-ignition temperature:	Liquid. Colourless. Amine-like. [Strong] Not available. Not determined. >37.78°C Not determined. The Not available. Closed cup: 44°C Ingredient name Propylidynetrimethanol, reaction products with a	ere are no	°C	°F		self. Method	
Colour:Odour:Odour threshold:Melting point/freezing point:Initial boiling point and:boiling range:Flammability:Upper/lower flammability or:explosive limits:Flash point:Auto-ignition temperature:pH:Viscosity:	Colourless. Amine-like. [Strong] Not available. Not determined. >37.78°C Not determined. The Not available. Closed cup: 44°C Ingredient name Propylidynetrimethanol, reaction products with a	ere are no	°C	°F			
Odour:Odour threshold:Melting point/freezing point:Initial boiling point and:boiling range:Flammability:Upper/lower flammability or:explosive limits:Flash point:Auto-ignition temperature:Decomposition temperature:PH:Viscosity:	Amine-like. [Strong] Not available. Not determined. >37.78°C Not determined. The Not available. Closed cup: 44°C Ingredient name Propylidynetrimethanol, reaction products with a	ere are no	°C	°F			
Odour threshold:Melting point/freezing point:Initial boiling point and:boiling range:Flammability:Upper/lower flammability or:explosive limits:Flash point:Auto-ignition temperature:Decomposition temperature:PH:Viscosity:	Not available. Not determined. >37.78°C Not determined. The Not available. Closed cup: 44°C Ingredient name Propylidynetrimethanol, reaction products with a	ere are no	°C	°F			
Melting point/freezing point:Initial boiling point and:boiling range:Flammability:Upper/lower flammability or:explosive limits:Flash point:Auto-ignition temperature:Decomposition temperature:PH:Viscosity:	Not determined. >37.78°C Not determined. The Not available. Closed cup: 44°C Ingredient name Propylidynetrimethanol, reaction products with a	propoxylatec	°C	°F			
Initial boiling point and boiling range:Flammability:Upper/lower flammability or explosive limits:Flash point:Auto-ignition temperature:Decomposition temperature:pH:Viscosity:	>37.78°C Not determined. The Not available. Closed cup: 44°C Ingredient name Propylidynetrimethanol, reaction products with a	propoxylatec	°C	°F			
boiling range Flammability : Upper/lower flammability or explosive limits Flash point : Auto-ignition temperature : Decomposition temperature : pH : Viscosity :	Not determined. The Not available. Closed cup: 44°C Ingredient name Propylidynetrimethanol, reaction products with a	propoxylatec	°C	°F			
Upper/lower flammability or explosive limits: explosive limitsFlash point:Auto-ignition temperature:Decomposition temperature:pH:Viscosity:	Not available. Closed cup: 44°C Ingredient name Propylidynetrimethanol, reaction products with a	propoxylatec	°C	°F			
explosive limits Flash point : Auto-ignition temperature : Decomposition temperature : pH : Viscosity :	Closed cup: 44°C Ingredient name Propylidynetrimethanol, reaction products with a					Vethod	
Auto-ignition temperature : Decomposition temperature : pH : Viscosity :	Ingredient name Propylidynetrimethanol, reaction products with a				ſ	Vethod	
Decomposition temperature : pH : Viscosity :	Propylidynetrimethanol, reaction products with a				I	Nethod	
pH : Viscosity :	reaction products with a		, 320	C00			
pH : Viscosity :	Stable under recom			608	E	U A.15	
Viscosity :		mended st	orage a	nd handling co	onditions	(see Sec	tion 7).
	Not applicable. insoluble in water.						
Viscosity :	Kinematic (room ter	Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): >21 mm²/s					
	60 - 100 s (ISO 6mm)						
Solubility(ies) :		,					
Media	Result						
cold water	Not soluble						
Partition coefficient: n-octanol/ : water	Not applicable.						
Vapour pressure :	Ingradient name	Vapour Pressure at 20°C		Vapour pressure at 50		sure 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			
Relative density :	0.99						

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SECTION 9: Physica	al and chemical p	roperties	
Explosive properties	•	f is not explosive, but the formation of an	explosible mixture of
•	: The product itsel vapour or dust w	f is not explosive, but the formation of an	explosible mixture of
Explosive properties	: The product itsel vapour or dust w	f is not explosive, but the formation of an ith air is possible.	explosible mixture of

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: 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 toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
x ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Propylidynetrimethanol, propoxylated,	LD50 Dermal	Rabbit	0.4 g/kg	-
reaction products with ammonia				
	LD50 Oral	Rat	0.22 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>5 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
m-phenylenebis(methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male,	>3100 mg/kg	-
		Female		
	LD50 Oral	Rat	930 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	-

English (GB)

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Cameroon

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SECTION 11: Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
m-phenylenebis(methylamine)	Skin - Severe irritant	Rat		4 hours	4 hours

Conclusion/Summary

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

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

Sensitisation

Skin

Eyes

Product/ingr	edient name	Route of exposure	Species	Result
m-phenylenebis(methylamine)		skin	Mouse	Sensitising
Conclusion/Summary				
Skin	: There are no data avai	lable on the mixture	e itself.	
Respiratory	: There are no data avai	lable on the mixture	e itself.	
Mutagenicity				
Conclusion/Summary	: There are no data avai	lable on the mixture	e 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 2-methylpropan-1-ol	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Product/ingredient name	Result
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely : Not available.	

routes of exposure

Potential acute health effects

Inhalation	: May cause respiratory irritation.
Ingestion	: Harmful if swallowed.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.

English (GB)

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ECTION 11: Toxicol	ogical informatio	n	
Symptoms related to the ph	ysical, chemical and to	ticological characteristics	
Inhalation	: Adverse symptoms m respiratory tract irritat coughing	ay include the following: on	
Ingestion	: Adverse symptoms m stomach pains	ay include the following:	
Skin contact	: Adverse symptoms m pain or irritation redness dryness cracking blistering may occur	ay include the following:	
Eye contact	: Adverse symptoms m pain watering redness	ay include the following:	
	<u>cts as well as chronic e</u>	ffects from short and long-term exposure	
Short term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Long term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health effe	ects		
Not available.			
Conclusion/Summary	: Not available.		
General	: Prolonged or repeate	d contact can defat the skin and lead to irritation, cracki sitized, a severe allergic reaction may occur when subs evels.	
Carcinogenicity	: No known significant	effects or critical hazards.	
Mutagenicity	-	effects or critical hazards.	
Reproductive toxicity	-	effects or critical hazards.	
Other information	: Not available.		

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 propertiesNot available.11.2.2 Other information

Not available.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
✓-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	Daphnia	48 hours
	water Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum	
2 ,4,6-tris	OECD 301D	4 % - Not readily - 28 days	-	-	
(dimethylaminomethyl)phenol	Ready Biodegradability - Closed Bottle Test				
ethylbenzene	-	79 % - Readily - 10 days	-	-	
Conclusion/Summary : There are no data available on the mixture itself.					

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene benzyl alcohol 2,4,6-tris(dimethylaminomethyl)phenol ethylbenzene	- - -	- - -	Readily Readily Not readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X lene	3.12	7.4 to 18.5	Low
Propylidynetrimethanol, propoxylated, reaction products with ammonia	-1.13	-	Low
benzyl alcohol	0.87	-	Low
2-methylpropan-1-ol	1	-	Low
m-phenylenebis(methylamine)	0.18	2.69	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219 3.6	- 79.43	Low
ethylbenzene	3.0	19.43	Low

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

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SECTION 12: Ecological information

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste : Yes.

European waste catalogue (EWC)

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

Packaging

Methods of disposal

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

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

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)
14.4 Packing group	111	Ш	111
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

English (GB)

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SECTION 1	14: Transpo	ort information		
ADR/RID	: None ident	tified.		
Tunnel code	: (D/E)			
IMDG: None identified.IATA: None identified.				
14.6 Special pr user	ecautions for		user's premises: always transport in closed b. Ensure that persons transporting the product nt or spillage.	
14.7 Transport according to IM instruments		: Not applicable.		

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 authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market

and use of certain

dangerous substances,

mixtures and articles

Other national and international regulations.

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

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	CLP = 0 1272/20 DNEL = EUH sta PNEC =	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		lo.
Full text of abbreviated H statements	: H225 H226 H302 H304 H312 H314 H315 H317	 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. 		
		English (CB)	Comoroon	4 4 /4 5

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SECTION 16: Other i	nformation		
Full text of classifications [CLP/GHS]	H319 Causes seriou H332 Harmful if inha H335 May cause re H336 May cause dr H373 May cause da H411 Toxic to aqua	spiratory irritation. owsiness or dizziness. amage to organs through prolonged or re tic life with long lasting effects. uatic life with long lasting effects.	C HAZARD - Category 2 C HAZARD - Category 3 TATION - Category 1 TATION - Category 2 Category 1B Category 1C Category 2 B CITY - REPEATED
<u>History</u> Date of issue/ Date of revision	: 9 October 2024		
Date of previous issue	: 17 April 2024		
Prepared by	: EHS		
Version	: 1.05		
Distant a function			

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