SAFETY DATA SHEET

Date of issue/Date of revision

: 22 April 2024

Version

: 1.01



pPG

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

1.1 Product identifier					
Product name	: SIGMASHIELD 880 BASE RAL 1023				
Product code	: 000001196138				
Other means of identifica 00468489	Other means of identification 00468489				
1.2 Relevant identified use	es 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 Côte d'Ivoire 15 BP 396, Abidjan 15					

15 BP 396, Abidjan 15 Cote D'Ivoire Tel: 00225 21 75 04 10 Fax: 00225 21 27 16 28

1.4 Emergency telephone : ORFILA (INRS) 0033 (0)1 45 42 59 59 / 00225 21 75 04 10 number

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 Irrit. 2, H319 Skin Sens. 1, H317 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.

2.2 Label elements Hazard pictograms :

Signal word

: Warning



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SECTION 2: Hazards identification

Hazard statements	: Flammable liquid and vapour.	
	Causes skin irritation.	
	May cause an allergic skin reaction.	
	Causes serious eye irritation.	
	Harmful to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.	
Response	: Take off contaminated clothing and wash it before reuse.	
Storage	: Not applicable.	
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P261, P362 + P364, P501 	
Heneralesse in such die ste		
Hazardous ingredients	: bis-[4-(2,3-epoxipropoxi)phenyl]propane Epoxy Resin (700 <mw<=1100)< td=""></mw<=1100)<>	
	Phenol, methylstyrenated	
	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	
Supplemental label	: Contains epoxy constituents. May produce an allergic reaction.	
elements	· Contains opery constituents. May produce an allergic reaction.	
Annex XVII - Restrictions	: Not applicable.	
on the manufacture,		
placing on the market and		
use of certain dangerous		
substances, mixtures and articles		
Special packaging requirem	pente	
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 contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.	
Other hazards which do	: Prolonged or repeated contact may dry skin and cause irritation.	
not result in classification		

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
		Engli	sh (GB)	lvory Coast	2/15

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SECTION 3: Compo	sition/informat	ion on ii	ngredients		
øis-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - <25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	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]
Epoxy Resin (700 <mw <=1100)</mw 	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7	≥1.0 - ≤5.0	Acute Tox. 4, H332 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413	ATE [Inhalation (dusts and mists)] = 3.56 mg/l	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture contains \geq 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

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SECTION 4: First aid measures

4.1 Description of first aid measures				
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.			
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. 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.			

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
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/sy	<u>mptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
.3 Indication of any imm	ediate 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

5.1 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 from the substance or mixture

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

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SECTION 5: Firefighting measures

•=•	
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 sulfur oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures	i	
For non-emergency personnel	:	No action shall be taken involving any persona Evacuate surrounding areas. Keep unnecessa entering. Do not touch or walk through spilt m flares, smoking or flames in hazard area. Avo adequate ventilation. Wear appropriate respir on appropriate personal protective equipment.	ary and unprotected personnel fr aterial. Shut off all ignition sourc id breathing vapour or mist. Pro ator when ventilation is inadequa	om æs. No vide
For emergency responders	:	If specialised clothing is required to deal with t Section 8 on suitable and unsuitable materials emergency personnel".		
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and sewers. Inform the relevant authorities if the p pollution (sewers, waterways, soil or air). Wat the environment if released in large quantities.	product has caused environmenta er polluting material. May be har	al
6.3 Methods and material for	со	ntainment and cleaning up		
Small spill	:	Stop leak if without risk. Move containers from explosion-proof equipment. Dilute with water a or if water-insoluble, absorb with an inert dry m disposal container. Dispose of via a licensed w	and mop up if water-soluble. Altention and mop up if water and place in an appropriate and place and p	ernatively,
Large spill	:	Stop leak if without risk. Move containers from explosion-proof equipment. Approach the rele sewers, water courses, basements or confine treatment plant or proceed as follows. Contain combustible, absorbent material e.g. sand, ear place in container for disposal according to loc waste disposal contractor. Contaminated absorb hazard as the spilt product.	ase from upwind. Prevent entry d areas. Wash spillages into an and collect spillage with non- rth, vermiculite or diatomaceous al regulations. Dispose of via a	into effluent earth and licensed
6.4 Reference to other sections	:	See Section 1 for emergency contact informat See Section 8 for information on appropriate p See Section 13 for additional waste treatment	ersonal protective equipment.	
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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 ingest. Avoid breathing vapour or mist. 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. 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	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]			
	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.			
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2023).			
	TWA: 152 mg/m ³ 8 hours.			
	TWA: 50 ppm 8 hours.			
12-hydroxyoctadecanoic acid, reaction products	ACGIH TLV (United States).			
with 1,3-benzenedimethanamine and	TWA: 10 mg/m ³ Form: Inhalable particle			
hexamethylenediamine	TWA: 3 mg/m³, (inhalable dust) Form: Respirable particle			
	English (GB) Ivory Coast	6/15		

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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 measur	es
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.
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	: 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 before handling this product. When there is a risk of ignition from static electricity, wear antistatic 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.

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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.

Viscosity		Kinematic (room tem Kinematic (40°C): >2						
		$> 100 \circ (ISO Gmm)$						
Viscosity	э.	> 100 s (ISO 6mm)						
Viscosity Solubility(ies)	1	> 100 s (130 omm)						
	:	Result						
Solubility(ies)	:	, , ,						
Solubility(ies) Media	:	Result Not soluble						
Solubility(ies) Media cold water Partition coefficient: n-octanol/	:	Result Not soluble	Vapou	ur Press	sure at 20°C	Vap	our press	sure at 50°C
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	:	Result Not soluble		1	sure at 20°C			sure at 50°C
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	:	Result Not soluble Not applicable. Ingredient name	mm Hg	kPa	Method	Vap mm Hg	our press	sure at 50°C Method
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	:	Result Not soluble Not applicable.		kPa	-	mm		1
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water	:	Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value	mm Hg	kPa <1.6	Method DIN EN 13016-2	mm Hg	kPa	Method
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate	:	Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value acetate	mm Hg	kPa <1.6	Method DIN EN 13016-2	mm Hg	kPa	Method
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure	: : : :	Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value acetate 1.62 Highest known value	mm Hg <12.00102 : 0.77 (xyl : 11.7 (Ai	kPa <1.6 lene) W	Method DIN EN 13016-2 'eighted aver	mm Hg age: 0.73	kPa compared	Method
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density	:	Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value acetate 1.62 Highest known value Weighted average: 9 The product itself is r	mm Hg <12.00102 : 0.77 (xyl : 11.7 (Ai .51 (Air = not explos	kPa <1.6 lene) W ir = 1) (k = 1) sive, but	Method DIN EN 13016-2 'eighted aver pis-[4-(2,3-ep	mm Hg age: 0.73	kPa compared ki)phenyl]p	Method
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties	: : : : :	Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value acetate 7.62 Highest known value Weighted average: 9 The product itself is r vapour or dust with a	mm Hg <12.00102 : 0.77 (xyl : 11.7 (Ai .51 (Air = not explos ir is possi	kPa <1.6 lene) W ir = 1) (k = 1) sive, but ble.	Method DIN EN 13016-2 'eighted aver bis-[4-(2,3-ep the formation	mm Hg age: 0.73	kPa compared ki)phenyl]p	Method
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	: : : : :	Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value acetate 1.62 Highest known value Weighted average: 9 The product itself is r	mm Hg <12.00102 : 0.77 (xyl : 11.7 (Ai .51 (Air = not explos ir is possi	kPa <1.6 lene) W ir = 1) (k = 1) sive, but ble.	Method DIN EN 13016-2 'eighted aver bis-[4-(2,3-ep the formation	mm Hg age: 0.73	kPa compared ki)phenyl]p	Method
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	: : : : :	Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value acetate 7.62 Highest known value Weighted average: 9 The product itself is r vapour or dust with a	mm Hg <12.00102 : 0.77 (xyl : 11.7 (Ai .51 (Air = not explos ir is possi	kPa <1.6 lene) W ir = 1) (k = 1) sive, but ble.	Method DIN EN 13016-2 'eighted aver bis-[4-(2,3-ep the formation	mm Hg age: 0.73	kPa compared ki)phenyl]p	Method
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	: : : : :	Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value acetate 7.62 Highest known value Weighted average: 9 The product itself is r vapour or dust with a	mm Hg <12.00102 : 0.77 (xyl : 11.7 (Ai .51 (Air = not explos ir is possi	kPa <1.6 lene) W ir = 1) (k = 1) sive, but ble.	Method DIN EN 13016-2 'eighted aver bis-[4-(2,3-ep the formation	mm Hg age: 0.73	kPa compared ki)phenyl]p	Metho I with but propane)
Solubility(ies) Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties	: : : : :	Result Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value acetate 7.62 Highest known value Weighted average: 9 The product itself is r vapour or dust with a	mm Hg <12.00102 : 0.77 (xyl : 11.7 (Ai .51 (Air = not explos ir is possi	kPa <1.6 lene) W ir = 1) (k = 1) sive, but ble.	Method DIN EN 13016-2 'eighted aver bis-[4-(2,3-ep the formation	mm Hg age: 0.73	kPa compared ki)phenyl]p	Method I with butyl propane).

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SECTION 9: Physical and chemical properties

No additional information.

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 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	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Oral	Rat	17100 mg/kg	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
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SECTION 11: Toxicological information

Conclusion/Summary

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

Respiratory Sensitisation

Skin

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi)phenyl]propane	skin	Mouse	Sensitising
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	skin	Guinea pig	Sensitising

Conclusion/Summary Skin : There are no data available on the mixture itself. : There are no data available on the mixture itself. Respiratory **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** : There are no data available on the mixture itself. **Conclusion/Summary 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
P2-hydroxyoctadecanoic acid, reaction products with1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs

Aspiration hazard

Product/ingredient name	Result		
xylene	ASPIRATION HAZARD - Category 1		

Information on likely : Not available. routes of exposure

Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Symptoms related to the p	hysical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.

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Skin contact	:	Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate effe	cts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	;	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	<u>ect</u>	<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	:	No known significant effects or critical hazards.
Other lafe we all an		

Other information : Not available.

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. 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.

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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with	Acute EC50 >100 mg/l	Algae -	72 hours
1,3-benzenedimethanamine and hexamethylenediamine		Pseudokirchneriella subcapitata (microalgae)	
	English (GB)	Ivory Coast	11/15

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	Acute EC50 >100 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Conclusion/Summary

ECD 301D eady iodegradability - losed Bottle est	9 % - Not readily - 29 days	-	-
ioc los es	degradability - sed Bottle it	degradability - sed Bottle	degradability - sed Bottle it

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis-[4-(2,3-epoxipropoxi)phenyl]propane xylene	-	-	Not readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
2-methylpropan-1-ol	1	-	Low
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	-	Low
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	High

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
ቓis-[4-(2,3-epoxipropoxi) phenyl]propane	No	N/A	N/A	No	N/A	N/A	N/A
xylene	No	N/A	No	No	No	N/A	No
Époxy Resin (700 <mw <=1100)</mw 	No	N/A	N/A	No	N/A	N/A	N/A
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
2-methylpropan-1-ol	No	N/A	N/A	No	Ň/A	N/A	N/A
oxirane, mono[(C12-14-alkyloxy)methyl]	No	N/A	N/A	No	N/A	N/A	N/A
			English (GB	5)	Ivory Coast		12/15

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derivs.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

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

E

: The generation of waste should be avoided or minimised wherever possible. Waste Methods of disposal 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 Empty conta residues ma Do not cut, v	al 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. ainers or liners may retain some product residues. Vapour from product by create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly word dispersal of spilt material and runoff and contact with soil, waterways, newers.

SECTION 14: Transport information

	ADR/RID	IMDG	i IATA	L
14.1 UN number or ID number	UN1263	UN1263	UN1263	
14.2 UN proper shipping name	PAINT	PAINT	PAINT	
14.3 Transport hazard class(es)	3	3	3	
14.4 Packing group				
		English (GB)	Ivory Coast	13/15

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878						
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SECTION 1	4: Tra	ansport informatio	'n			
14.5 Environme hazards	ntal	No.	No.	No.		
Marine pollutan substances	t	Not applicable.	Not applicable.	Not applic	able.	
Additional infor	mation					
ADR/RID		s class 3 viscous liquid is n .3.1.5.1.	not subject to regulation in pack	agings up to 450 L	according to	
Tunnel code	: (D/	Ξ)				
IMDG	: Thi	s class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.				
ΙΑΤΑ	: No	ne identified.				
14.6 Special pre user	ecaution		n user's premises: always tra re. Ensure that persons transp dent or spillage.			
14.7 Transport i according to IM instruments		: Not applicable.				

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 authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status		Date of revision
vPvB	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Candidate	D(2023) 8585-DC	1/23/2024

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

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SECTION 16: Other	' information	
Indicates information that	t 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 	
Full text of abbreviated H statements	 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. 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. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. 	
Full text of classifications [CLP/GHS]		
<u>History</u> Date of issue/ Date of revision	: 22 April 2024	
Date of previous issue	: 19 April 2024	
Prepared by	: EHS	
Version Disclaimer	: 1.01	

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