# SAFETY DATA SHEET

**Europe** 

Date of issue/Date of revision : 29 June 2024

Version

: 1

undertaking	
1.1 Product identifier	
Product name	: SIGMASHIELD 880 GF BASE RAL 9001
Product code	: 000001202893
Other means of identification 00478206	ition
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/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier	of the safety data sheet
PPG Coatings Belgium BV Tweemontstraat 104 B-2100 Deurne Belgium	/SRL
Telephone +32-33606311 Fax +32-33606435	

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

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

#### **1.4 Emergency telephone number**

#### **Supplier**

+31 20 4075210

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture **Product definition** : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 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.

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

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## **SECTION 2: Hazards identification**

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#### 2.2 Label elements

Hazard pictograms



	• • •
:	Warning
:	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.
:	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.
:	Take off contaminated clothing and wash it before reuse.
:	Not applicable.
:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
:	P280, P210, P273, P261, P362 + P364, P501 bis-[4-(2,3-epoxipropoxi)phenyl]propane Epoxy Resin (700 <mw<=1100) Phenol, methylstyrenated oxirane, mono[(C12-14-alkyloxy)methyl] derivs.</mw<=1100) 
:	Contains epoxy constituents. May produce an allergic reaction.
:	Not applicable.
ien	ts
	Not applicable.
:	Not applicable.
:	This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.
:	Prolonged or repeated contact may dry skin and cause irritation.
	: : : : :

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**SECTION 3: Composition/information on ingredients** 

Product/ingredient nameIdentifiers% by weightClassificationSpecific Conc Limits, M-fact and ATEsbis-[4-(2,3-epoxipropoxi) phenyl]propaneREACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2≥10 - <25Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411Skin Irrit. 2, H315 S% Eye Irrit. 2, H319 S% Eye Irrit. 2, H319 S%xyleneREACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7≥5.0 - ≤10Flam. Liq. 3, H226 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335ATE [Dermal] = mg/kg	ors Type 15: C ≥ [1] 19: C ≥ = 1700 [1] [2] n
phenyl]propane       01-2119456619-26       Eye Irrit. 2, H319       5%         EC: 216-823-5       Skin Sens. 1, H317       Eye Irrit. 2, H319       5%         cAS: 1675-54-3       Index: 603-073-00-2       Aquatic Chronic 2, H411       5%         xylene       REACH #:       01-2119488216-32       ≥5.0 - ≤10       Flam. Liq. 3, H226       ATE [Dermal] =         01-2119488216-32       EC: 215-535-7       CAS: 1330-20-7       ≥5.0 - ≤10       Flam. Liq. 3, H312       ATE [Inhalation (vapours)] = 11         Stin Irrit. 2, H315       Eye Irrit. 2, H315       Stort SE 3, H335       Stort SE 3, H335       Atter Stort SE 3, H335	19: C ≥ = 1700 [1] [2]
01-2119488216-32       Acute Tox. 4, H312       mg/kg         EC: 215-535-7       Acute Tox. 4, H332       ATE [Inhalation         CAS: 1330-20-7       Skin Irrit. 2, H315       (vapours)] = 11         EVEND       STOT SE 3, H335       STOT SE 3, H335	n
Asp. Tox. 1, H304 Aquatic Chronic 3, H412	
Epoxy Resin (700 <mw< th="">         CAS: 25036-25-3         ≥1.0 - ≤5.0         Skin Irrit. 2, H315         -           &lt;=1100)</mw<>	[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[       REACH #:       ≥1.0 - ≤5.0       Skin Irrit. 2, H315       -         (C12-14-alkyloxy)methyl]       01-2119485289-22       EC: 271-846-8       Skin Sens. 1, H317       -         derivs.       CAS: 68609-97-2       Index: 603-103-00-4       -       -       -	[1]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamineREACH #: 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, H413ATE [Inhalation and mists)] = 3	
ethylbenzeneREACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4≥1.0 - ≤5.0Flam. 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 the statements declared above.	
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### **SECTION 3: Composition/information on ingredients**

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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	: 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.

#### **4.2 Most important symptoms and effects, both acute and delayed**

Potential acute health ef	fects
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.
<u>Over-exposure signs/syr</u>	nptoms
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.
4.3 Indication of any imme	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.

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## **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: 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	stective 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 source flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provi adequate ventilation. Wear appropriate respirator when ventilation is inadequate on appropriate personal protective equipment.	om es. No vide
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any infor Section 8 on suitable and unsuitable materials. See also the information in "Fo emergency personnel".	
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, dra sewers. Inform the relevant authorities if the product has caused environmenta pollution (sewers, waterways, soil or air). Water polluting material. May be har the environment if released in large quantities.	al
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 tool explosion-proof equipment. Dilute with water and mop up if water-soluble. Alter or if water-insoluble, absorb with an inert dry material and place in an appropriate disposal container. Dispose of via a licensed waste disposal contractor.	ernatively,
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SECTION 6: Accidental release measures				
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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## **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.

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**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 <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
2-methylpropan-1-ol	ACGIH TLV (United States, 7/2023). TWA: 152 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine ethylbenzene	ACGIH TLV (United States). TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle TWA: 3 mg/m <sup>3</sup> , (inhalable dust) Form: Respirable particle EU OEL (Europe, 1/2022). Absorbed through skin. STEL: 884 mg/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
procedures Standard EN 689	d be made to monitoring standards, such as the following: European Workplace atmospheres - Guidance for the assessment of exposure hemical 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
bis-[4-(2,3-epoxipropoxi) phenyl]propane	DNEL	Long term Inhalation	12.25 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	12.25 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	3.571 mg/kg bw/day	General	Systemic
				population [Consumers]	
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General population	Systemic
				[Consumers]	
	DNEL	Long term Oral	0.75 mg/kg bw/day	General	Systemic
				population	
		Short torm Oral	0.75 mg/kg bw/dov	[Consumers] General	Sustamia
	DNEL	Short term Oral	0.75 mg/kg bw/day	population	Systemic
				[Consumers]	
	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.75 mg/kg bw/day	Workers	Systemic
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**SECTION 8: Exposure controls/personal protection** 

	DNEL	Long term Inhalation	0.87 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m <sup>3</sup>	Workers	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	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/m³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
Phenol, methylstyrenated	DNEL	Long term Oral	0.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.348 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	1.41 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	1.67 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.5 mg/kg bw/day	Workers	Systemic
2-methylpropan-1-ol	DNEL	Long term Inhalation	55 mg/m³	General population	Local
	DNEL	Long term Inhalation	310 mg/m <sup>3</sup>	Workers	Local
oxirane, mono[	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
(C12-14-alkyloxy)methyl]					
derivs.					
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.87 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.6 mg/m <sup>3</sup>	Workers	Systemic
12-hydroxyoctadecanoic acid,	DNEL	Long term Inhalation	82.5 µg/m³	General population	Local
reaction products with					
1,3-benzenedimethanamine					
and hexamethylenediamine					
	DNEL	Long term Inhalation	332 µg/m³	Workers	Local
	DNEL	Short term Inhalation	25.7 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	51.3 mg/m <sup>3</sup>	Workers	Local
ethylbenzene	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DMEL	Short term Inhalation	884 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m³	Workers	Local
L					

#### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
bis-[4-(2,3-epoxipropoxi)phenyl]	-	Fresh water	0.006 mg/l	Assessment Factors
propane				
	-	Marine water	0.001 mg/l	Assessment Factors
	-	Fresh water sediment	0.996 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.1 mg/kg dwt	Equilibrium Partitioning
	-	Soil	0.196 mg/kg dwt	Equilibrium Partitioning
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Secondary Poisoning	11 mg/kg	Assessment Factors
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	-
English (GB)		Europe		8/19

Conforms to Regulation (EC) No.	1907/2006 (REACH), Annex II.	, as amended by Commission F	Regulation (EU)
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## SECTION 8: Exposure controls/personal protection

	-	Soil	2.31 mg/kg	-
2-methylpropan-1-ol	-	Fresh water	0.4 mg/l	Assessment Factors
	-	Marine water	0.04 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.156 mg/kg dwt	-
	-	Soil	0.076 mg/kg dwt	Equilibrium Partitioning
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
	-	Marine water	0.01 mg/l	Assessment Factors
	-	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	-	Secondary Poisoning	20 mg/kg	-

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 meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles. Use eye protection according to EN 166.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: 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 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.
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Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the						

Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

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

#### 9.1 Information on basic physical and chemical properties

Physical state       : Liquid.         Colour       : White.         Dotur       : Aromatic. [Slight]         Dotur threshold       : Not available.         felting point/freezing point       : May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propand Weighted average: -22.28°C (-8.1°F)         initial boiling point and       : >37.78°C         oiling range       : Not available.         grammability       : Not available.         Upper/lower flammability or       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)         xplosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)         value-ignition temperature       :         iash point       : Closed cup: 37°C         wuto-ignition temperature       :         ifacesity       : Stable under recommended storage and handling conditions (see Section 7).         th       : Not applicable.         Fiscosity       : Xinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Kinematic (value)       :>         Media       Result         colubility(ies)       :         isolubile       :         artition coefficient: n-octanol/       : Not applicable.								
Colour       : White.         Odour       : Aromatic. [Slight]         Odour threshold       : Not available.         Aeting point/freezing point       : May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]proparative is assed on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]proparative Weighted average: -22.28°C (-8.1°F)         Initial boiling point and colling range       : >37.78°C         Image:       : Not available.         Ipper/lower flammability or sploy limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)         Valoe limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)         Valoe limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)         Valoe limits       : Closed cup: 37°C         'iash point       : Closed cup: 37°C         wuto-ignition temperature       :         'iagreginton temperature       :         'iagreginton temperature       :         'inference       :         Stable under recommended storage and handling conditions (see Section 7).         'if accosity       :         'if accosity       :         'if accosity       :         'if acoid water       Not soluble	<u>Appearance</u>							
Adour       : Aromatic. [Slight]         Ddour threshold       : Not available.         Melting point/freezing point       : May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propare Weighted average: -22.28°C (-8.1°F)         initial boiling point and ooling range       : >37.78°C         itammability       : Not available.         peper/lower flammability or xplosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)         xplosive limits       : Glosed cup: 37°C         itash point       : Closed cup: 37°C         wuto-ignition temperature       :         Ingredient name       °C       °F         Method       2-methylpropan-1-ol       415       779         Decomposition temperature       :       Stable under recommended storage and handling conditions (see Section 7).         H       : Not applicable.       :       Not applicable.         fiscosity       : > 100 s (ISO 6mm)       :       >         cold water       Not soluble       .       .         Aretition coefficient: n-octanol/       : Not applicable.       .       .	Physical state	:	Liquid.					
Decomposition temperature       : Not available.         Image: Stable under recommended storage and handling conditions (see Section 7).         Het         Not applicable.         Stable under recommended storage and handling conditions (see Section 7).         Het         Not applicable.         Stable under recommended storage and handling conditions (see Section 7).         Het         May tast         May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propand Weighted average: -22.28°C (-8.1°F)         Initial boiling point and soliding range         Stable under recommended storage: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)         xplosive limits         Closed cup: 37°C         Ingredient name       °C         Quetomposition temperature       :         Ingredient name       °C         Quetomposition temperature       :         Stable under recommended storage and handling conditions (see Section 7).         H       :         Not applicable.         Kinematic (40°C): >21 mm²/s         Kinematic (40°C): >21 mm²/s         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/	Colour	:	White.					
felting point/freezing point       : May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propane Weighted average: -22.28°C (-8.1°F)         initial boiling point and poiling range       : >37.78°C         ilammability       : Not available.         ipper/lower flammability or xplosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)         ilash point       : Closed cup: 37°C         wato-ignition temperature       :         ilash point       : Closed cup: 37°C         wato-ignition temperature       :         Stable under recommended storage and handling conditions (see Section 7).         H       : Not applicable.         Kinematic (40°C): >21 mm²/s         Kinematic noot soluble         Yettion coefficient: n-octanol/         Yettion coefficient: n-octanol/	Odour	:	Aromatic. [Slight]					
based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propand Weighted average: -22.28°C (-8.1°F)         initial boiling point and boiling range       : >37.78°C         ifammability       : Not available.         ipper/lower flammability or xplosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)         itash point       : Closed cup: 37°C         wuto-ignition temperature       :         ifash point       : Closed cup: 37°C         wuto-ignition temperature       :         Stable under recommended storage and handling conditions (see Section 7).         H       : Not applicable.         //fiscosity       : > 100 s (ISO 6mm)         iolubility(ies)       :         Media       Result         Cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.	Odour threshold	:	Not available.	Not available.				
cilammability       : Not available.         ipper/lower flammability or xplosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)         itash point       : Closed cup: 37°C         wuto-ignition temperature       :         itash point       : Closed cup: 37°C         wuto-ignition temperature       :         itash point       : Stable under recommended storage and handling conditions (see Section 7).         H       : Not applicable.         //iscosity       : Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         /iscosity       : > 100 s (ISO 6mm)         isolubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.	Melting point/freezing point		based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyljpropane.					
Upper/lower flammability or xplosive limits       : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)         ilash point       : Closed cup: 37°C         ilash point       : Stable under name         2-methylpropan-1-ol       415         2-methylpropan-1-ol       415         2-methylpropan-1-ol       415         Wethod       : Not applicable.         Stable under recommended storage and handling conditions (see Section 7).         H       : Not applicable.         Viscosity       : >100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.         Vater       : Not applicable.	Initial boiling point and boiling range	:	>37.78°C					
image: state of the state	Flammability	:	Not available.					
Nuto-ignition temperature       :         Ingredient name       °C       °F       Method         2-methylpropan-1-ol       415       779          Decomposition temperature       :       Stable under recommended storage and handling conditions (see Section 7).         of H       :       Not applicable.         Viscosity       :       Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       :       > 100 s (ISO 6mm)         Solubility(ies)       :       Image: Color of the second	Upper/lower flammability or explosive limits	:	Greatest known range: Lo	ower: 1.7% Upp	er: 10.9% (2-	methylpropan-1-ol)		
Ingredient name       °C       °F       Method         2-methylpropan-1-ol       415       779         Oecomposition temperature       :       Stable under recommended storage and handling conditions (see Section 7).         OH       :       Not applicable.         Viscosity       :       Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       :       > 100 s (ISO 6mm)         Solubility(ies)       :          Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.	Flash point	:	Closed cup: 37°C					
2-methylpropan-1-ol       415       779         Decomposition temperature       : Stable under recommended storage and handling conditions (see Section 7).         H       : Not applicable.         Viscosity       : Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       : > 100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.	Auto-ignition temperature	:	:					
Decomposition temperature       : Stable under recommended storage and handling conditions (see Section 7).         H       : Not applicable.         Viscosity       : Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         Viscosity       : > 100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.			Ingredient name	°C	°F	Method		
H       : Not applicable.         /iscosity       : Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         /iscosity       : > 100 s (ISO 6mm)         solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.			2-methylpropan-1-ol	415	779			
/iscosity       : Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s         /iscosity       : > 100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.	Decomposition temperature	:	Stable under recommend	led storage and l	nandling con	ditions (see Section 7).		
Kinematic (40°C): >21 mm²/s         /iscosity       : > 100 s (ISO 6mm)         Solubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.         vater       Vot applicable.	рН	:	Not applicable.	-	-	· · ·		
Golubility(ies)       :         Media       Result         cold water       Not soluble         Partition coefficient: n-octanol/       : Not applicable.         water       Vot applicable.	Viscosity				/s			
Media     Result       cold water     Not soluble       Partition coefficient: n-octanol/ : Not applicable.       vater	Viscosity	:	> 100 s (ISO 6mm)					
cold water     Not soluble       Partition coefficient: n-octanol/ : Not applicable.       vater	Solubility(ies)	1						
Partition coefficient: n-octanol/ : Not applicable. vater	Media		Result					
vater	cold water		Not soluble					
/apour pressure :	Partition coefficient: n-octano water	I/ :	Not applicable.					
	Vapour pressure	:						

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**SECTION 9: Physical and chemical properties** 

			Vapoι	ur Press	sure at 20°C	Vap	our pres	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			
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (et	hylbenz	ene) Weighte	d averag	e: 0.74co	mpared with
Relative density	:	1.62						
Vapour density	:	Highest known value: 11.7 (Air = 1) (bis-[4-(2,3-epoxipropoxi)phenyl]propane). Weighted average: 9.1 (Air = 1)						
Explosive properties	:	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
Oxidising properties	:	Product does not pr	esent an c	oxidizing	g hazard.			
Particle characteristics								
Median particle size	:	Not applicable.						
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 produce Refer to protective measures listed in sections 7 and 8.	ucts.
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 materi carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide oxides	

## **SECTION 11: Toxicological information**

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

	Acu	te	tox	С	itv
--	-----	----	-----	---	-----

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>&gt;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
English (GB)	Europ	)e	1	11/19

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 <th::000001202893</th>
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 SIGMASHIELD 880 GF BASE RAL 9001
 SECTION 11: Toxicological information
 LD50 Dermal
 Rabbit
 2460 mg/kg

	LD30 Dennai	Rappit	2400 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
oxirane, mono[(C12-14-alkyloxy)methyl]	LD50 Oral	Rat	17100 mg/kg	-
derivs.				
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine	mists		-	
and hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 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	-
		1	1	

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

#### Acute toxicity estimates

Route	ATE value
	29407.32 mg/kg 171.15 mg/l 294.46 mg/l

#### 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	-

#### **Conclusion/Summary**

: There are no data available on the mixture itself.

Skin Eyes

There are no data available on the mixture itself.

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

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
	skin	Mouse	Sensitising
	skin	Guinea pig	Sensitising

Fuellah (OD)	<b>F</b>
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Mutagenicity	
Respiratory	: There are no data available on the mixture itself.
Skin	: There are no data available on the mixture itself.
<b>Conclusion/Summary</b>	

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## **SECTION 11: Toxicological information** Specific target organ toxicity (single exposure)

Product/ingr			Category	Route of	Target organs
				exposure	
xylene 2-methylpropan-1-ol			Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects
12-hydroxyoctadecanoic acid 1,3-benzenedimethanamine a ethylbenzene			Category 2 Category 2	inhalation -	lungs hearing organs
Information on likely routes of exposure	:	Not available.			
Potential acute health effect	<u>ts</u>				
Inhalation	:	No known significant effe	cts or critical ha	zards.	
Ingestion	:	No known significant effe	cts or critical ha	zards.	
Skin contact	:	Causes skin irritation. De	fatting to the sk	in. May cause an	allergic skin reaction.
Eye contact	:	Causes serious eye irritat	ion.		
Symptoms related to the ph	iysi	<u>cal, chemical and toxico</u>	logical charact	<u>teristics</u>	
Inhalation	:	No specific data.			
Ingestion	:	No specific data.			
Skin contact	:	Adverse symptoms may in irritation redness dryness cracking	nclude the follow	wing:	
Eye contact		Adverse symptoms may in pain or irritation watering redness		-	
Delayed and immediate effe Short term exposure	:015	as well as chronic enec			<u>iosure</u>
Potential immediate effects	:	Not available.			
Potential delayed effects	:	Not available.			
Long term exposure					
Potential immediate effects	:	Not available.			
Potential delayed effects	:	Not available.			
Potential chronic health effe	ects	2			
Not available.					
Conclusion/Summary		Not available.			
General		Prolonged or repeated co	ed, a severe all		o irritation, cracking and/or occur when subsequently
Carcinogenicity	:	No known significant effe	cts or critical ha	zards.	
Mutagenicity	:	No known significant effe	cts or critical ha	zards.	
Reproductive toxicity	:	No known significant effe	cts or critical ha	zards.	
Other information	:	Not available.			

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### **SECTION 11: Toxicological information**

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.

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#### 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	Daphnia - <i>daphnia</i>	48 hours
	water	magna	
	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	Acute EC50 >100 mg/l	Algae -	72 hours
with 1,3-benzenedimethanamine and		Pseudokirchneriella	
hexamethylenediamine		subcapitata	
		(microalgae)	
	Acute EC50 >100 mg/l	Daphnia - Daphnia	48 hours
	_	magna (Water flea)	
	Acute LC50 >100 mg/l	Fish - Oncorhynchus	96 hours
		mykiss (rainbow	
		trout)	
	Chronic NOEC 100 mg/l	Algae -	72 hours
		Pseudokirchneriella	
		subcapitata	
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia</i>	21 days
		magna (Water flea)	
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
1,3-benzenedimethanamine	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 29 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

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

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# **SECTION 12: Ecological information**

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

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	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
ethylbenzene	3.6	79.43	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
bis-[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 &lt;=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] derivs.	No	N/A	N/A	No	N/A	N/A	N/A
ethylbenzene	No	N/A	No	Yes	No	N/A	No

#### **12.6 Endocrine disrupting properties**

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

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### **SECTION 13: Disposal considerations**

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

#### **13.1 Waste treatment methods**

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
06 01 11	waste paint and varnish containing organic solvents of 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	taken when l 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. Vapour from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

## 14. Transport information

				i
	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	111	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

#### Additional information

ADR/RID

: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

English (GB)

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

Code : 000001202893 SIGMASHIELD 880 GF BASE RAL 9001	Date of issue/Date of revision	: 29 June 2024
14. Transport information		
Tunnel code : (D/E)		

ADN	<ul> <li>(D/E)</li> <li>The product is only regulated as an environmentally hazardous substance when transported in tank vessels. This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.</li> </ul>
IMDG	<ul> <li>This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.</li> </ul>
ΙΑΤΑ	: None identified.
14.6 Special pre	ecautions for : Transport within user's premises: always transport in closed containers that are

user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

 14.7 Maritime transport in
 : Not applicable.

 bulk according to IMO
 instruments

## SECTION 15: Regulatory information

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

#### Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

Substances of very high concern

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

Annex XVII - Restrictions: Not applicable.on the manufacture,<br/>placing on the market<br/>and use of certain<br/>dangerous substances,<br/>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.

## Danger criteria Category P5c

# 15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

<b>a</b> 33	<b>C</b> 33	

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#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

#### Abbreviations and acronyms

ATE = Acute Toxicity Estimate

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

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

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

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

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

#### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

#### Full text of classifications [CLP/GHS]

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

#### <u>History</u>

Date of issue/ Date of revision	: 29 June 2024
Date of previous issue	: No previous validation
Prepared by	: EHS

English (GB)

Conforms to Regulation (EC) N 2020/878	lo. 1907/2006 (RE	ACH), Annex II, as amended by Comr	nission Regulation (EU)
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SECTION 16: Other in	formation		
Version	: 1		

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