SAFETY DATA SHEET

Date of issue/Date of revision

: 15 March 2025

Version : 3

Europe

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

1.1 Product identifier

Product name	:	SIGMASHIELD 880 BASE REDBROWN
Product code	1	00445417
Other means of identification	on	

Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against		
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Product is not intended, labelled or packaged for consumer use.	

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

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 Muta. 2, H341 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

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SECTION 2: Hazards identification

2.2 Label elements		
Hazard pictograms	:	
Signal word		
Signal word Hazard statements	:	Warning Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention		Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response	:	IF exposed or concerned: Get medical advice or attention.
Storage	:	Not applicable.
Disposal	i	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		P202, P280, P210, P273, P308 + P313, P501
Hazardous ingredients		réaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700); Epoxy Resin (700 <mw<=1100); methylstyrenated;<br="" phenol,="">2,3-epoxypropyl neodecanoate and 1,3-bis[12-hydroxy-octadecamide-N-methylene]- benzene</mw<=1100);>
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requiren	nent	<u>s</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII		This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.
Other hazards which do not result in classification	: P	Prolonged or repeated contact may dry skin and cause irritation.

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SECTION 2: Hazards identification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Feaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥10 - ≤22	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]
2,3-epoxypropyl neodecanoate	REACH #: 01-2119431597-33 EC: 247-979-2 CAS: 26761-45-5	≥0.10 - ≤2.1	Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411	-	[1]
1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene	REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[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.

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SECTION 3: Composition/information on ingredients

[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 effec	ts	····,····,·····,·····,····,····,····,····
Eye contact		Causes serious eye irritation.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	1	No known significant effects or critical hazards.
Over-exposure signs/symp	ton	<u>15</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.
4.3 Indication of any immedia	ate	medical attention and special treatment needed
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	1	No specific treatment.

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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 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 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, protective equipment and emergency procedures			
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.		
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.		
6.3 Methods and material for containment and cleaning up			
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		

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SECTION 6: Ac	dental 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	: See Section 1 for emergency contact information.
sections	See Section 8 for information on appropriate personal protective equipment.
	See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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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			
x ylene	EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed			
	through skin.			
	TWA 8 hours: 50 ppm.			
	TWA 8 hours: 221 mg/m ³ .			
	STEL 15 minutes: 100 ppm.			
	STEL 15 minutes: 442 mg/m ³ .			
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2024)			
	TWA 8 hours: 50 ppm.			
	TWA 8 hours: 152 mg/m ³ .			
1,3-bis[12-hydroxy-octadecamide-N-methylene]-	ACGIH TLV (United States)			
benzene	TWA: 3 mg/m³ (Respirable fraction).			
	TWA: 10 mg/m³ (Total dust).			

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Exposure		Value
Peaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	DNEL - Workers - Long term - Inhalation	Effects: Systemic	12.25 mg/m³
······································	DNEL - Workers - Short term - Inhalation	Effects: Systemic	12.25 mg/m ³
	DNEL - Workers - Long term - Dermal	Effects: Systemic	8.33 mg/kg bw/day
	DNEL - Workers - Short term - Dermal	Effects: Systemic	8.33 mg/kg bw/day
	DNEL - General population - Consumers - Long term - Dermal	Effects: Systemic	3.571 mg/kg bw/day
	DNEL - General population - Consumers - Short term - Dermal	Effects: Systemic	3.571 mg/kg bw/day
	DNEL - General population - Consumers - Long term - Oral	Effects: Systemic	0.75 mg/kg bw/day
	DNEL - General population - Consumers - Short term - Oral	Effects: Systemic	0.75 mg/kg bw/day
xylene	DNEL - General population - Long term - Oral	Effects: Systemic	5 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Effects: Local	65.3 mg/m ³
	DNEL - General population - Long term - Inhalation	Effects: Systemic	65.3 mg/m³
	DNEL - General population - Long term - Dermal	Effects: Systemic	125 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Effects: Systemic	212 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	Effects: Local	221 mg/m ³
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SECTION 8: Exposure controls/personal protection

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	DNEL - Workers - Long term - Inhalation	Effects: Systemic	221 mg/m³
	DNEL - General population - Short term -	Effects: Local	260 mg/m³
	Inhalation		
	DNEL - General population - Short term -	Effects: Systemic	260 mg/m³
	Inhalation		
	DNEL - Workers - Short term - Inhalation	Effects: Local	442 mg/m ³
	DNEL - Workers - Short term - Inhalation	Effects: Systemic	442 mg/m ³
Phenol,	DNEL - General population - Long term - Oral	Effects: Systemic	0.2 mg/kg bw/day
methylstyrenated			
	DNEL - General population - Long term -	Effects: Systemic	0.348 mg/m³
	Inhalation		
	DNEL - Workers - Long term - Inhalation	Effects: Systemic	1.41 mg/m³
	DNEL - General population - Long term - Dermal	Effects: Systemic	1.67 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Effects: Systemic	3.5 mg/kg bw/day
2-methylpropan-1-ol	DNEL - General population - Long term -	Effects: Local	55 mg/m³
	Inhalation		
	DNEL - Workers - Long term - Inhalation	Effects: Local	310 mg/m³
2,3-epoxypropyl	DNEL - General population - Long term - Dermal	Effects: Systemic	2.5 mg/kg bw/day
neodecanoate			
	DNEL - General population - Long term -	Effects: Systemic	4 mg/m³
	Inhalation		
	DNEL - Workers - Long term - Dermal	Effects: Systemic	4.2 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	Effects: Systemic	5.88 mg/m ³
	DNEL - General population - Long term - Oral	Effects: Systemic	2.5 mg/kg bw/day

PNECs

Product/ingredient name	Compartment Detail - Method	Value
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Fresh water - Assessment Factors	0.006 mg/l
,	Marine water - Assessment Factors	0.001 mg/l
	Sewage Treatment Plant - Assessment Factors	10 mg/l
	Fresh water sediment - Equilibrium Partitioning	0.996 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	0.1 mg/kg dwt
xylene	Fresh water	0.327 mg/l
-	Marine water	0.327 mg/l
	Sewage Treatment Plant	6.58 mg/l
	Fresh water sediment	12.46 mg/kg dwt
	Marine water sediment	12.46 mg/kg dwt
	Soil	2.31 mg/kg
2-methylpropan-1-ol	Fresh water - Assessment Factors	0.4 mg/l
	Marine water - Assessment Factors	0.04 mg/l
	Sewage Treatment Plant - Assessment Factors	10 mg/l
	Fresh water sediment - Equilibrium Partitioning	1.56 mg/kg dwt
	Marine water sediment	0.156 mg/kg dwt
	Soil - Equilibrium Partitioning	0.076 mg/kg dwt

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 measures

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

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SECTION 8: Exposur	e controls/personal protection
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.
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 respirato 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.

English (GB)	Europe	9/18
Melting point/freezing point	: Not determined.	
Odour	: Characteristic.	
Colour	: Brownish-red.	
Physical state	: Liquid.	
Appearance		
9.1 Information on basic physic	cal and chemical properties	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 00445417 Date of issue/Date of revision : 15 March 2025

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SECTION 9: Physical and chemical properties

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Boiling point or initial boiling point and boiling range	:	>37.78°C			
Flammability Lower and upper explosion limit		Not determined. There are no data available on the mixture itself. Not available.			
Flash point Auto-ignition temperature	:	Closed cup: 33°C			
		Ingredient name	°C	°F	Method
		,3-epoxypropyl neodecanoate	276	528.8	
Decomposition temperature	:	Stable under recommended s	storage and	handling cond	itions (see Section 7).
рН	1	Not applicable. insoluble in wa	ater.		

:	Not applicable. insoluble in water.
:	Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): >21 mm²/s

Solubility

Viscosity

-					
	Media	Result			
	cold water	Not soluble			

Partition coefficient n-octanol/ : Not applicable. water (log Pow)

Vapour pressure	:	Vapour Pressure at 20°C		Vapour pressure at 50°C			
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			
Relative density	: 1.48	·			÷		<u>.</u>
Particle characteristics							
Median particle size	: Not applicable.						

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties	•	ł	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
Oxidising properties		1	Product does not present an oxidizing hazard.
No additional information	า.		

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.

English (GB) Europe	10/18
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SECTION 10: Stability and reactivity

- : Keep away from the following materials to prevent strong exothermic reactions: **10.5 Incompatible materials** oxidising agents, strong alkalis, strong acids.
 - **10.6 Hazardous** decomposition products
- : Depending on conditions, decomposition products may include the following materials: carbon 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

The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly.

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

Acute toxicity

Product/ingredient name	Result	Dose / Exposure
<pre>preaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)</pre>	Rat - Oral - LD50	>2 g/kg
,	Rabbit - Dermal - LD50	>2 g/kg
xylene	Rat - Oral - LD50 Rabbit - Dermal - LD50	4.3 g/kg 1.7 g/kg
Epoxy Resin (700 <mw<=1100)< td=""><td>Rat - Oral - LD50 Rat - Dermal - LD50</td><td>>2000 mg/kg >2000 mg/kg</td></mw<=1100)<>	Rat - Oral - LD50 Rat - Dermal - LD50	>2000 mg/kg >2000 mg/kg
Phenol, methylstyrenated	Rat - Oral - LD50 Rabbit - Dermal - LD50	>2000 mg/kg >2000 mg/kg
2-methylpropan-1-ol	Rat - Oral - LD50 Rabbit - Dermal - LD50 Rat - Inhalation - LC50 Vapour	2830 mg/kg 2460 mg/kg 24.6 mg/l [4 hours]
2,3-epoxypropyl neodecanoate	Rat - Oral - LD50 Rat - Dermal - LD50	9.6 g/kg 3800 mg/kg
1,3-bis[12-hydroxy-octadecamide- N-methylene]-benzene	Rat - Inhalation - LC50 Dusts and mists	>5.08 mg/l [4 hours]

Acute toxicity estimates

Route	ATE value
	31673.58 mg/kg 204.95 mg/l

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Irritation/Corrosion

Product/ingredient name	Result	
eaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Rabbit - Skin - Moderate irritant	
-	Rabbit - Eyes - Moderate irritant	
-	<u>Rabbit - Eyes - Mild irritant</u> Amount/concentration applied: 100 mg	
-	<u>Rabbit - Skin - Moderate irritant</u>	
English (GB)	Europe	11/18

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	Amount/concentration applied: 500 UI Duration of treatment/exposure: 24 hours	
-	<u>Rabbit - Skin - Severe irritant</u> Amount/concentration applied: 2 mg Duration of treatment/exposure: 24 hours	
xylene	Rabbit - Skin - Moderate irritant Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours	
Conclusion/Summary	-	
Skin : 🗭	auses skin irritation.	
Eyes : 🗭	auses serious eye irritation.	
Respiratory : Ba	ased on available data, the classification criteria are	e not met.
Respiratory or skin sensitization		
Product/ingredient name	Test	Result
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Mouse - skin OECD 429	Result: Sensitising
Conclusion/Summary		
Skin : Ma	ay cause an allergic skin reaction.	
Respiratory : Ba	ased on available data, the classification criteria are	e not met.
<u>Mutagenicity</u>		
Suspected of causing genetic defec	ts.	
<u>Carcinogenicity</u>		
Based on available data, the classifi	cation criteria are not met.	
Reproductive toxicity		
Based on available data, the classifi	cation criteria are not met.	

Specific target organ toxicity (single exposure)

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

Conclusion/Summary

Based on available data, the classification criteria are not met.

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Specific target organ toxicity (repeated exposure)

Based on available data, the classification criteria are not met.

Aspiration hazard

Product/ingredient name	Result	
xylene	ASPIRATION HAZARD - Category 1	

Conclusion/Summary

 \mathbf{B} ased on available data, the classification criteria are not met.

Information on likely : Not available.

routes of exposure

Potential acute health effects

English (GB)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Reg	gulation (EU)
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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 ph	hysical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
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	ects as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	No known significant effects or critical hazards.
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	No known significant effects or critical hazards.
Potential chronic health eff	ects
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	: Suspected of causing genetic defects.
Reproductive toxicity	No known significant effects or critical hazards.
Other 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

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

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

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SECTION 12: Ecological information

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

12.1 Toxicity

Product/ingredient name	Result	Species	Dose / Exposure
eaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Chronic - NOEC	Daphnia	0.3 mg/l [21 days]
2-methylpropan-1-ol	Acute - EC50	Daphnia	1100 mg/l [48 hours]
2,3-epoxypropyl neodecanoate	Acute - LC50	Fish - Oncorhynchus mykiss	9.6 mg/l [96 hours]
	Acute - EC50	Daphnia - Daphnia magna	4.8 mg/l [48 hours]
	Acute - EC50	Algae	3.5 mg/l [96 hours]
1,3-bis[12-hydroxy- octadecamide-N-methylene]- benzene	Acute - LC50	Fish	>100 mg/l [96 hours]

Conclusion/Summary : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose / Inoculum
A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	OECD 301F	5% [28 days]	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Feaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	-	-	Not readily
xylene 2,3-epoxypropyl neodecanoate	-	-	Readily Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Peaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	2.64 to 3.78	31	Low
xylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
2-methylpropan-1-ol	1	-	Low
2,3-epoxypropyl neodecanoate	4.4	-	High

12.4 Mobility in soil

English (GB)	Europe	14/18
	-	

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SECTION 12: Ecological information

Soil/water partition coefficient				
Product/ingredient name	logKoc	Кос		
✓ Action product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	2.65	445		
2-methylpropan-1-ol	1.08	12.0246		

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Feaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	No	N/A	No	No	No	N/A	No
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	N/A	N/A	N/A
2,3-epoxypropyl neodecanoate	No	N/A	N/A	No	N/A	N/A	N/A
1,3-bis[12-hydroxy- octadecamide-N-methylene]- benzene	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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

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

European waste catalogue (EWC)

Waste code	Waste designation		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		
English (OD)			

English (GB)

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SECTION 13: Disposal considerations

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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
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		Ш	111	III
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional infor	mation
ADR/RID	: None identified.
Tunnel code	: (D/E)
ADN	: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
IMDG	: None identified.
ΙΑΤΑ	: None identified.
44.0.0	
14.6 Special pre	cautions for : Transport within user's premises: always transport in closed containers that are

- 14.6 Special precautions for 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**

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### 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 p	roperty	Ingredient name	Status	Reference number	Date of revision
<mark>у</mark> ́РvВ		Phenol, methylstyrenated	Candidate	D(2023) 8585-DC	1/23/2024

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	Entry Number ( REACH )
GMASHIELD 880 BASE REDBROWN	3

Labelling

: Not applicable.

**Explosive precursors** : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

Category	
₽5c	

# **15.2 Chemical safety**

: No Chemical Safety Assessment has been carried out.

#### assessment

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

#### Abbreviations and acronyms

ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway IMDG = International Maritime Dangerous Goods IATA = International Air Transport Association

Full text of abbreviated H statements

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H226 H304 H312 H315 H317 H318 H319 H332 H335 H336 H341 H411 H412 H413	Flammable liquid and vapour.May be fatal if swallowed and enters airways.Harmful in contact with skin.Causes skin irritation.May cause an allergic skin reaction.Causes serious eye damage.Causes serious eye irritation.Harmful if inhaled.May cause respiratory irritation.May cause drowsiness or dizziness.Suspected of causing genetic defects.Toxic to aquatic life with long lasting effects.Harmful to aquatic life with long lasting effects.May cause long lasting harmful effects to aquatic life.
Full text of classifications [CLP/GHS]	
Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Muta. 2 Skin Irrit. 2 Skin Sens. 1 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 GERM CELL MUTAGENICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

#### **History**

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:	EHS
:	3
	:

#### **Disclaimer**

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

Category 3