SAFETY DATA SHEET

Date of issue/Date of revision

: 3 March 2025

Version : 4

pPG

Europe

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

1.1 Product identifier

Product name	:	SIGMASHIELD 880 GF BASE BLACK
Product code	:	00328340

Other means of identification

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

responsible for this 5D5

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 Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 STOT RE 2, H373 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.

English (US)

Europe

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SECTION 2: Hazards identification

2.2 Label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor.
Response	 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	 P280, P210, P260, P305 + P351 + P338, P310, P501 Is-[4-(2,3-epoxipropoxi)phenyl]propane; Epoxy Resin (700<mw<=1100); (sio2);="" 1,3-bis[12-hydroxy-octadecamide-n-methylene]-benzene<="" 2,3-epoxypropyl="" 2-methylpropan-1-ol;="" and="" li="" methylstyrenated;="" neodecanoate="" phenol,="" quartz=""> </mw<=1100);>
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	nents
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	:

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SECTION 2: Hazards identification

Other hazards which do not result in classification

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				•
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
pís-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥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 - ≤5.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
crystalline silica, respirable powder (<10 microns)	EC: 238-878-4 CAS: 14808-60-7	≥1.0 - ≤5.0	STOT RE 1, H372 (inhalation)	-	[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]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene	REACH #: 01-2119962189-26 CAS: 911674-82-3	≥1.0 - ≤5.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1] [2]
English (US)			Europe		3/19

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SECTION 3:	Composition/information	on on ingredients		
	Index: 616-198-00-2	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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

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

an Booonption of mot and h	
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects	
	Causes serious eye damage. No known significant effects or critical hazards.
	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. No known significant effects or critical hazards.
Over-exposure signs/symptor	<u>ns</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.

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SECTION 4: First	aid measures
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

	quantities have been ingested or inhaled.	-
Specific treatments	: No specific treatment.	

SECTION 5: Firefighting measures

	-
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapor. 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 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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SECTION 6: Accident	al release measures
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and materials for	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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 breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures 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.

Conforms to Regulation (EC) No. 1907/2	006 (REACH), Annex II, as amended by Commission Regulation (EU)
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SECTION 7: Handling and storage

Section 10 for incompatible materials before handling or use.	7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tighther closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values	
xylene	EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. 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 .	
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/2024) [Silica, crystalline] A2. TWA 8 hours: 0.025 mg/m ³ . Form: Respirable fraction.	
ethylbenzene	EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m ³ . STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m ³ .	
1,3-bis[12-hydroxy-octadecamide-N-methylene]- benzene	ACGIH TLV (United States) TWA: 3 mg/m³ (Respirable fraction). TWA: 10 mg/m³ (Total dust).	
procedures Standard EN 689 by inhalation to c strategy) Europe	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 an Standard EN 14042 (Workplace atmospheres - Guide for the se of procedures for the assessment of exposure to chemical and	

DNELs/DMELs

of hazardous substances will also be required.

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

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure		Value
øís-[4- (2,3-epoxipropoxi) phenyl]propane	DNEL - Workers - Long term - Inhalation	Effects: Systemic	12.25 mg/m³
	DNEL - Workers - Short term - Inhalation	Effects: Systemic	
	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
	DNEL - General population - Long term - Dermal	Effects: Systemic	89.3 µg/kg bw/day
	DNEL - General population - Long term - Oral	Effects: Systemic	0.5 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Effects: Systemic	0.75 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Effects: Systemic	0.87 mg/m³
	DNEL - Workers - Long term - Inhalation	Effects: Systemic	4.93 mg/m ³
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/m³
	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
	DNEL - Workers - Long term - Inhalation	Effects: Systemic	221 mg/m ³
	DNEL - General population - Short term - Inhalation	Effects: Local	260 mg/m ³
	DNEL - General population - Short term - Inhalation	Effects: Systemic	260 mg/m³
	DNEL - Workers - Short term - Inhalation	Effects: Local	442 mg/m³
	DNEL - Workers - Short term - Inhalation	Effects: Systemic	442 mg/m ³
Phenol, methylstyrenated	DNEL - General population - Long term - Oral	Effects: Systemic	0.2 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Effects: Systemic	0.348 mg/m³
	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 - Inhalation	Effects: Local	55 mg/m³
	DNEL - Workers - Long term - Inhalation	Effects: Local	310 mg/m ³
2,3-epoxypropyl neodecanoate	DNEL - General population - Long term - Dermal	Effects: Systemic	2.5 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Effects: Systemic	4 mg/m³
	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
ethylbenzene	DMEL - Workers - Long term - Inhalation	Effects: Local	442 mg/m ³
-	DMEL - Workers - Short term - Inhalation	Effects: Systemic	884 mg/m³
English (US)	Europe		8/19

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SECTION 8: Expo	sure controls/personal protection	1			
	DNEL - General population - Long term - Oral	Effects: Systemic	1.6 mg/kg bw/day		
	DNEL - General population - Long term -	Effects: Systemic	15 mg/m ³		
	Inhalation				
	DNEL - Workers - Long term - Inhalation	Effects: Systemic	77 mg/m³		
	DNEL - Workers - Long term - Dermal	Effects: Systemic	180 mg/kg bw/day		
	DNEL - Workers - Short term - Inhalation	Effects: Local	293 mg/m ³		

PNECs

Product/ingredient name	Compartment Detail - Method	Value
pis-[4-(2,3-epoxipropoxi)phenyl] propane	Fresh water - Assessment Factors	0.006 mg/l
	Marine water - Assessment Factors	0.001 mg/l
	Fresh water sediment - Equilibrium Partitioning	0.996 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	0.1 mg/kg dwt
	Soil - Equilibrium Partitioning	0.196 mg/kg dwt
	Sewage Treatment Plant - Assessment Factors	10 mg/l
	Secondary Poisoning - Assessment Factors	11 mg/kg
kylene	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
ethylbenzene	Fresh water - Assessment Factors	0.1 mg/l
	Marine water - Assessment Factors	0.01 mg/l
	Sewage Treatment Plant - Assessment Factors	9.6 mg/l
	Fresh water sediment - Equilibrium Partitioning	13.7 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	1.37 mg/kg dwt
	Soil - Equilibrium Partitioning	2.68 mg/kg dwt
	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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	<u>res</u>

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before
eating, smoking and using the lavatory and at the end of the working period.
Appropriate techniques should be used to remove potentially contaminated clothing.
Contaminated work clothing should not be allowed out of the workplace. Wash
contaminated clothing before reusing. Ensure that eyewash stations and safety
showers are close to the workstation location.Eye/face protection
Skin protection
Hand protection: Chemical splash goggles and face shield. Use eye protection according to EN 166.

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

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SECTION 8: Exposure controls/personal 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 respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapor (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

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Black.
Odor	: Aromatic.
Melting point/freezing point	: Not determined.
Boiling point or initial boiling point and boiling range	: >37.78°C
Flammability	: Not determined. There are no data available on the mixture itself.
Lower and upper explosion limit	: Not available.
Flash point	: Closed cup: 37°C

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SECTION 9: Physical a	nd	chemical pro	perties					
Auto-ignition temperature	:							
		Ingredient name		°C	°F		Method	
		2,3-epoxypropyl neodeca	anoate	276	528.8			
Decomposition temperature	:	Stable under recomi	mended st	orage ar	nd handling co	nditior	ns (see Sec	tion 7).
рН		Not applicable. insol		-	Ũ		,	,
Viscosity		Øynamic (room tem∣ Kinematic (room ten Kinematic (40°C): >2	nperature):					
Solubility	:							
Media		Result						
cold water		Not soluble						
Partition coefficient n-octanol/ water (log Pow)	:	Not applicable.						
Vapor pressure	Vapor pressure :		Vapor Pressure at 20°C		V	apor press	ure 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	:	1.52			+		I	
Particle characteristics								
Median particle size	:	Not applicable.						
.2 Other information								
9.2.1 Information with regard t	o ph	ysical hazard class	es					
Explosive properties		The product itself is vapor or dust with ai			the formation	of an e	explosible m	nixture of
		Product does not present an oxidizing hazard.						
Oxidizing properties		r reduce dece not pr						

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

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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.

Zauses serious eye damage.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause damage to organs through prolonged or repeated exposure.

Acute toxicity

Product/ingredient name	Result	Dose / Exposure
s-[4-(2,3-epoxipropoxi)phenyl] propane	Rabbit - Dermal - LD50	23000 mg/kg
	Rat - Oral - LD50	15000 mg/kg
xylene	Rat - Oral - LD50	4.3 g/kg
	Rabbit - Dermal - LD50	1.7 g/kg
Epoxy Resin (700 <mw<=1100)< td=""><td>Rat - Oral - LD50</td><td>>2000 mg/kg</td></mw<=1100)<>	Rat - Oral - LD50	>2000 mg/kg
	Rat - Dermal - LD50	>2000 mg/kg
Phenol, methylstyrenated	Rat - Oral - LD50	>2000 mg/kg
	Rabbit - Dermal - LD50	>2000 mg/kg
2-methylpropan-1-ol	Rat - Oral - LD50	2830 mg/kg
	Rabbit - Dermal - LD50	2460 mg/kg
	Rat - Inhalation - LC50 Vapor	24.6 mg/l [4 hours]
2,3-epoxypropyl neodecanoate	Rat - Oral - LD50	9.6 g/kg
	Rat - Dermal - LD50	3800 mg/kg
ethylbenzene	Rat - Oral - LD50	3.5 g/kg
	Rabbit - Dermal - LD50	17.8 g/kg
	Rat - Inhalation - LC50 Vapor	17.8 mg/l [4 hours]
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
Øermal	23247.21 mg/kg
Inhalation (vapors)	135.49 mg/l

Conclusion/Summary Irritation/Corrosion

: **B**ased on available data, the classification criteria are not met.

Product/ingredient name	Result	
øis-[4-(2,3-epoxipropoxi)phenyl] propane	Rabbit - Eyes - Redness of the conjunctivae Duration of treatment/exposure: 24 hours Irritation score: 0.4	
-	Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 24 hours Fully reversible in 7 days or less	
-	Rabbit - Skin - Erythema/Eschar Duration of treatment/exposure: 4 hours Irritation score: 0.8	
-	Rabbit - Skin - Edema Duration of treatment/exposure: 4 hours Irritation score: 0.5	
-	Rabbit - Skin - Mild irritant	
English (US)	Europe	12/19

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SECTION 11: To:	SECTION 11: Toxicological information					
	Duration	n of treatment/exposure: 4 hours				
xylene		- Skin - Moderate irritant				

	Amount/concentration applied. 500 mg
	Duration of treatment/exposure: 24 hours
Conclusion/Summary	

Skin

: Causes skin irritation.

Eyes

Respiratory

: Zauses serious eye damage.

: **B**ased on available data, the classification criteria are not met.

Respiratory or skin sensitization

Product/ingredient name	Test	Result
bis-[4-(2,3-epoxipropoxi)phenyl] propane	Mouse - skin	Result: Sensitizing

Conclusion/Summary

Skin

- : \mathbf{M} ay cause an allergic skin reaction.
- : Based on available data, the classification criteria are not met.

Respiratory Mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

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

Reproductive toxicity

Based on available data, the classification 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.

Specific target organ toxicity (repeated exposure)

Product/ingredient name		Route of exposure	Target organs
rystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs

Conclusion/Summary

 $\overline{\mathbf{M}}$ ay cause damage to organs through prolonged or repeated exposure.

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Aspiration hazard

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Conclusion/Summary

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

Information on the likely : Not available.

routes of exposure

Potential acute health effects

English (US)

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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 damage.
Symptoms related to the p	hysical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate eff	ects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	s : No known significant effects or critical hazards.
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	s : No known significant effects or critical hazards.
Potential chronic health ef	<u>fects</u>
General	: May cause damage to organs through prolonged or repeated exposure. 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

- **Carcinogenicity** : No known significant effects or critical hazards.
 - : Suspected of causing genetic defects.
- **Reproductive toxicity** : No known significant effects or critical hazards.

very low levels.

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
cause irritation of the respiratory system and permanent brain and nervous system
damage. Inhalation of vapor/aerosol concentrations above the recommended exposure
limits causes headaches, drowsiness and nausea and may lead to unconsciousness or
death. Avoid contact with skin and clothing.

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.

Mutagenicity

English	(US)
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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
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Chronic - NOEC	Daphnia	0.3 mg/l [21 days]
	Acute - LC50 - Fresh water	Daphnia - <i>daphnia magna</i>	1.8 mg/l [48 hours]
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 - <i>Daphnia magna</i>	4.8 mg/l [48 hours]
	Acute - EC50	Algae	3.5 mg/l [96 hours]
ethylbenzene	Acute - EC50 - Fresh water	Daphnia	1.8 mg/l [48 hours]
	Chronic - NOEC - Fresh water	Daphnia - Ceriodaphnia dubia	1 mg/l
1,3-bis[12-hydroxy- octadecamide-N-methylene]- benzene	Acute - LC50	Fish	>100 mg/l [96 hours]

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose / Inoculum
e thylbenzene	-	79% [10 days] - Readily	

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

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

Soil/Water partition coefficient

English (US)	Europe	15/19

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SECTION 12: Ecological information

Product/ingredient name	logKoc	Кос
b ís-[4-(2,3-epoxipropoxi)phenyl]propane	4.02	10465.7
2-methylpropan-1-ol	1.08	12.0246
ethylbenzene	2.23	170.406

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
ቓí́s-[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
Epoxy Resin (700 <mw <=1100)</mw 	No	N/A	N/A	No	N/A	N/A	N/A
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
2-methylpropan-1-ol	No	N/A	N/A	No	Ň/A	N/A	N/A
2,3-epoxypropyl neodecanoate	No	N/A	N/A	No	N/A	N/A	N/A
ethylbenzene	No	N/A	No	Yes	No	N/A	No
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

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

Hazardous waste

European waste catalogue (EWC)

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

Packaging

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SECTION 13: Disposal considerations

Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Type of packaging	European waste catalogue (EWC)
Container	15 01 06 mixed packaging
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways drains and sewers.

SECTION 14: Transport information

	•			
	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	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.
Tunnel code	: (D/E)
ADN	 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.
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
ΙΑΤΑ	: None identified.
14.6 Special prec user	cautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Maritime tra bulk according to 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 authorization

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
ν́Ρ́vB	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)
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Labeling

: 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
P5c

15.2 Chemical Safety Assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

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

Full text of abbreviated H statements

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SECTION 16: Other information				
H225	Highly flammable liquid and vapor.			
H226	Flammable liquid and vapor.			
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.			
H341	Suspected of causing genetic defects.			
H372	Causes damage to organs through prolonged or repeated exposure.			
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	AQUATIC HAZARD (LONG-TERM) - Category 2			
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3			
Aquatic Chronic 4	AQUATIC HAZARD (LONG-TERM) - 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			
Muta. 2	GERM CELL MUTAGENICITY - Category 2			
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2			
Skin Sens. 1	SKIN SENSITIZATION - Category 1			
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) Category 1			
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)			
STOT SE 3	Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3			
History				
Date of issue/ Date of : 3 March 2	2025			
Date of previous issue : 15 Noven	nber 2022			
Prepared by : EHS				
Version : 4				
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