## **SAFETY DATA SHEET**

Date of issue/Date of revision : 22 April 2024

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Version



#### SECTION 1: Identification of the substance/mixture and of the company/ undertaking **1.1 Product identifier Product name** : SIGMASHIELD 880 GF BASE GREY 5177 : 000001190004 Product code Other means of identification 00446825 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/ : Coating. mixture **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 : Product.Stewardship.EMEA@ppg.com responsible for this SDS 1.4 Emergency telephone number National advisory body/Poison Center

Numéro de téléphone d'appel d'urgence : 01 45 42 59 59 (Association ORFILA, organisme agréé prévu au 4ème alinéa de l'article L231-7 du code du travail)

## 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.

English (US)

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SECTION 2: Hazards identification		

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

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#### 2.2 Label elements

Hazard	pictograms
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Signal word	:	Warning
Hazard statements	:	Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor.
Response	:	Take off contaminated clothing and wash it before reuse.
Storage	:	Not applicable.
Disposal	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		P280, P210, P273, P261, P362 + P364, P501
Hazardous ingredients	:	bis-[4-(2,3-epoxipropoxi)phenyl]propane Epoxy Resin (700 <mw<=1100) Phenol, methylstyrenated oxirane, mono[(C12-14-alkyloxy)methyl] derivs.</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	nen	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB	:	This mixture 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	:	Prolonged or repeated contact may dry skin and cause irritation.

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## **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
bis-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - <25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Epoxy Resin (700 <mw &lt;=1100)</mw 	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7	≥1.0 - ≤5.0	Acute Tox. 4, H332 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413	ATE [Inhalation (dusts and mists)] = 3.56 mg/l	[1]
			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.

<u>Type</u>

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

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

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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 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. 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	5	
Eye contact	÷	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/sympto	on	<u>15</u>
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	1	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	1	No specific data.
4.3 Indication of any immedia	te	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.
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Specific treatments : No specific treatment.

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## SECTION 5: Firefighting measures

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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 fr	om 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 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	otective 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 sour No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Pr adequate ventilation. Wear appropriate respirator when ventilation is inadequate on appropriate personal protective equipment.	rces. ovide
For emergency responders	: If specialized 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 "For emergency personnel".	
6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, or and sewers. Inform the relevant authorities if the product has caused environm pollution (sewers, waterways, soil or air). Water polluting material. May be han the environment if released in large quantities.	ental
6.3 Methods and materials fo	r containment and cleaning up	
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools explosion-proof equipment. Dilute with water and mop up if water-soluble. Alte or if water-insoluble, absorb with an inert dry material and place in an appropria disposal container. Dispose of via a licensed waste disposal contractor.	rnatively,
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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 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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor 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 oxidizing 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 unlabeled 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	Ministry of Labor (France, 10/2022). [xylenes, mixed isomers, pure] Absorbed through skin.
	STEL: 442 mg/m <sup>3</sup> 15 minutes. Form: Risk for sensitisation STEL: 100 ppm 15 minutes. Form: Risk for sensitisation TWA: 221 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation
2-methylpropan-1-ol	<b>Ministry of Labor (France, 10/2022).</b> TWA: 150 mg/m <sup>3</sup> 8 hours. Form: Risk for sensitisation TWA: 50 ppm 8 hours. Form: Risk for sensitisation
•	should be made to monitoring standards, such as the following: European N 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**

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 population	Systemic
				[Consumers]	
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General	Systemic
				population [Consumers]	5
	DNEL	Long term Oral	0.75 mg/kg bw/day	General population	Systemic
				[Consumers]	
	DNEL	Short term Oral	0.75 mg/kg bw/day	General 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
	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	12.5 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/m <sup>3</sup>	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/m <sup>3</sup>	Workers	Local
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**SECTION 8: Exposure controls/personal protection** 

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DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	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
DNEL	Long term Oral	0.2 mg/kg bw/day	General population	Systemic
DNEL	Long term Inhalation	0.348 mg/m <sup>3</sup>	General population	Systemic
DNEL	Long term Inhalation	1.41 mg/m³	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
DNEL	Long term Inhalation	55 mg/m <sup>3</sup>	General population	Local
DNEL	Long term Inhalation	310 mg/m <sup>3</sup>	Workers	Local
DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
				-
DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
DNEL	Long term Inhalation	0.87 mg/m <sup>3</sup>		
DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	3.6 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Long term Inhalation	82.5 µg/m³	General population	Local
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
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELLong term OralDNELLong term InhalationDNELLong term InhalationDNELLong term DermalDNELLong term InhalationDNELLong term DermalDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term OralDNELLong term DermalDNELLong term DermalDNELLong term InhalationDNELLong term Inhalation	DNEL DNELShort term Inhalation Short term Inhalation DNEL260 mg/m³ 260 mg/m³ 260 mg/m³ 260 mg/m³ 260 mg/m³DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal DNEL DNEL 	DNEL DNEL DNELShort term Inhalation Inhalation DNEL260 mg/m3 260 mg/m3 260 mg/m3 442 mg/m3 442 mg/m3 442 mg/m3 442 mg/m3 0.2 mg/kg bw/day 0.348 mg/m3 0.348 mg/m3 0.5 mg/kg bw/day 0.5 mg/kg bw/day 0.5 mg/kg bw/dayGeneral population General population Workers General population Workers General populationDNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL Long term Dermal DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL Long term Dermal Long term Inhalation DNEL DNEL DNEL DNEL DNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL0.5 mg/kg bw/day 0.5 mg/kg bw/day 0.5 mg/m3 0.5 mg/m3 0.5 mg/m3 0.5 mg/m3General population Workers General population Workers General population Workers Workers General populationDNEL DNEL DNELLong term Inhalation DNEL0.5 mg/kg bw/day 3.6 mg/m3 82.5 µg/m3General population General population Workers General populationDNEL DNELLong term Inhalation Short term Inhalation332 µg/m3 25.7 mg/m3Workers General population

#### **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			Ū	
	-	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	-
	-	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

#### 8.2 Exposure controls

controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation **Appropriate engineering** 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.

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

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	: 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 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

English (US)	France
Odor	: Aromatic. [Slight]
Color	: Gray.
Physical state	: Liquid.
Appearance	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 000001190004 Date of issue/Date of revision : 22 April 2024 SIGMASHIELD 880 GF BASE GREY 5177 **SECTION 9: Physical and chemical properties Odor threshold** : Not available. May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is Melting point/freezing point 5 based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propane. Weighted average: -17.87°C (-0.2°F) : >37.78°C Initial boiling point and boiling range Flammability : Not available. Upper/lower flammability or Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol) 2 explosive limits **Flash point** ż Closed cup: 37°C Auto-ignition temperature °C °F Ingredient name **Method** 2-methylpropan-1-ol 415 779 **Decomposition temperature** Stable under recommended storage and handling conditions (see Section 7). τ. pН 21 Not applicable. insoluble in water. Kinematic (room temperature): >400 mm<sup>2</sup>/s Viscosity 5 Kinematic (40°C): >21 mm<sup>2</sup>/s : > 100 s (ISO 6mm) Viscosity

 Viscosity
 1 > 100 s (ISO 6IIII)

 Solubility(ies)
 :

 Media
 Result

 cold water
 Not soluble

Partition coefficient: n-octanol/ : Not applicable.

2

#### water

Vapor pressure

		Vapo	Vapor Pressure at 20°C			Vapor 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			
Evaporation rate	: Highest known valu acetate	e: 0.77 (xy	(lene) V	Veighted aver	age: 0.73	compared	d with butyl
Relative density	: 1.65						
Vapor density	: Highest known value: 11.7 (Air = 1) (bis-[4-(2,3-epoxipropoxi)phenyl]propane). Weighted average: 9.51 (Air = 1)						
Explosive properties	: The product itself is not explosive, but the formation of an explosible mixture of vapor or dust with air is possible.						
Oxidizing properties	: Product does not pr	esent an o	oxidizing	ı hazard.			
Particle characteristics							
Median particle size	: Not applicable.						
9.2 Other information							
No additional information.							

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## SECTION 10: Stability and reactivity

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

## **SECTION 11: Toxicological information**

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

Product/ingredient name	Result	Species	Dose	Exposure
s-[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 Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Oral	Rat	17100 mg/kg	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
,	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

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

#### Acute toxicity estimates

Route	ATE value	
Øermal	31688.54 mg/kg	
Inhalation (vapors)	205.04 mg/l	
Inhalation (dusts and mists)	319 mg/l	

Irritation/Corrosion

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**SECTION 11: Toxicological information** 

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	Rabbit	0.4	24 hours	-
	conjunctivae				
	Skin - Edema	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.

: There are no data available on the mixture itself.

Respiratory

Skin

Eyes

: There are no data available on the mixture itself.

#### Sensitization

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

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
<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.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Teratogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Specific target organ toxic	ity (single exposure)

# Product/ingredient nameCategoryRoute of<br/>exposureTarget organsxylene<br/>2-methylpropan-1-olCategory 3<br/>Category 3<br/>Category 3-<br/>-Respiratory tract irritation<br/>Respiratory tract irritation<br/>Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<ul><li>P2-hydroxyoctadecanoic acid, reaction products with</li><li>1,3-benzenedimethanamine and hexamethylenediamine</li></ul>	Category 2	inhalation	lungs

#### **Aspiration hazard**

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
Information on the likely	

Information on the likely : Not available. routes of exposure

English (US)	France	12	2/19
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Conforms to Regulation (EC) No. 1	907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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## **SECTION 11: Toxicological information**

Potential acute health effect	<u>S</u>
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	vsical, 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	cts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>cts</u>
Not available.	
Conclusion/Summary	: Not available.
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.
Dualan washing was a start was to set	

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** 

Not available.

#### **11.2.2 Other information**

Not available.

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#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
s-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> <i>magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products	Acute EC50 >100 mg/l	Algae -	72 hours
with 1,3-benzenedimethanamine and		Pseudokirchneriella	
hexamethylenediamine		subcapitata	
		(microalgae)	
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella	72 hours
	Chronic NOEC ≥50 mg/l	subcapitata Daphnia - Daphnia magna (Water flea)	21 days

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

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<ul> <li>hydroxyoctadecanoic acid, reaction products with</li> <li>1,3-benzenedimethanamine and hexamethylenediamine</li> </ul>	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 29 days	-	-
Conclusion/Summary	: There are no dat	a available on the mixture itself.		

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

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
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

#### 12.4 Mobility in soil

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

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## **SECTION 12: Ecological information**

#### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
s-[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

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

Not available.

#### **12.7 Other adverse effects**

No known significant effects or critical hazards.

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

: Yes.

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.
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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	
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)

Type of packaging		European waste catalogue (EWC)
Container	15 01 06	mixed packaging

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	
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#### **SECTION 13: Disposal considerations**

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.

## 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	III	III	III	Ξ
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 pre user	ecautions 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 tr bulk according 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 authorization

#### Annex XIV

None of the components are listed.

Code<th::</th>:::<

## **SECTION 15: Regulatory information**

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
₩₽́vB	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Candidate	D(2023) 8585-DC	1/23/2024
Annex XVII - Restriction on the manufacture, placing on the market and use of certain	ons : Not applicable.			

mixtures and articles

dangerous substances,

**Explosive precursors** : Not applicable.

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

<u>Danger criteria</u> Category			
P5c			
National regulations			
Social Security Code, Articles L 461-1 to L 461-7	:	2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane xylene Epoxy Resin (700 <mw<=1100) 2-methylpropan-1-ol Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. Surveillance médicale spéciale selon l'arrêté du 11 ju [1] Benzène et homologues</mw<=1100) 	RG 51 RG 4bis, RG 84 [1] RG 51 RG 84 RG 84 uillet 1977:
Reinforced medical surveillance	:	Decree n ° 2012-135 of January 30, 2012 relating to a medicine: not applicable	the organization of occupational
References	:		
5.2 Chemical Safety ssessment	:	No Chemical Safety Assessment has been carried or	ut.

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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

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

<b>⊮</b> 226	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.
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. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -
STOT SE 3	Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

English (US)	France	18/19
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Date of previous issue	: 4 April 2024
Prepared by	: EHS
Version	: 2

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