SAFETY DATA SHEET

Date of issue/Date of revision

: 31 October 2022

Version : 3.04



Denmark

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

1.1 Product identifier	1,	.1	P	ro	du	ct	id	e	n	tif	ie	r
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Product name	:	SIGMAGUARD CSF 585 BASE BLUE
Product code	:	00322109
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

1.4 Emergency telephone number

National advisory body/Poison Centre

- Telephone number
- : Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

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] Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 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.

Code	: 00322109	Date of issue/Date of revision	: 31 October 2022
SIGMAGUAI	RD CSF 585 BASE BLUE		

SECTION 2: Hazards identification

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2.2 Label elements

Hazard pictograms



	· · · ·	
Signal word	/arning	
Hazard statements	auses skin irritation. lay cause an allergic skin reaction.	
	auses serious eye irritation.	
	oxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	/ear protective gloves. Wear eye or face protection. Avoid release to the environ void breathing vapour. Wash thoroughly after handling.	iment.
Response	ollect spillage.	
Storage	ot applicable.	
Disposal	ispose of contents and container in accordance with all local, regional, national a ternational regulations.	ınd
	280, P273, P261, P264, P391, P501	
Hazardous ingredients	s-[4-(2,3-epoxipropoxi)phenyl]propane 6-Hexanediol, reaction products with epichlorohydrin ctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	
Supplemental label	ontains epoxy constituents. May produce an allergic reaction.	
elements	/arning! Hazardous respirable droplets may be formed when sprayed. Do not bre pray or mist.	athe
Annex XVII - Restrictions	ot applicable.	
on the manufacture,		
placing on the market and use of certain dangerous		
substances, mixtures and		
articles		
Special packaging requirem		
Containers to be fitted	ot applicable.	
with child-resistant fastenings		
Tactile warning of danger	ot applicable.	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB	his mixture does not contain any substances that are assessed to be a PBT or a	vPvB.
Other hazards which do	one known.	

not result in classification

Code : 00322109 SIGMAGUARD CSF 585 BASE BLUE Date of issue/Date of revision

: 31 October 2022

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	≥25 - ≤50	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]
1,6-Hexanediol, reaction products with epichlorohydrin	REACH #: 01-2119463471-41 CAS: 933999-84-9	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	REACH #: 01-2119979085-27 EC: 309-629-8 CAS: 100545-48-0	<1.0	Skin Sens. 1B, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	-	[1]

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

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

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effect	s
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Eye contact : Causes serious eye irritation.

English (GB)	Denmark	3/17

Code : 00322109 SIGMAGUARD CSF 585 BA	Date of issue/Date of revision : 31 October 2022 ASE BLUE
SECTION 4: First a	id measures
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sym</u>	<u>iptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any imme	diate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising fi	om the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic 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 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.
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.

Code: 00322109Date of issue/Date of revision: 31 October 2022

SIGMAGUARD CSF 585 BASE BLUE

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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. 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. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill 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 vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (E	U)
2020/878	

Code: 00322109Date of issue/Date of revision: 31 October 2022

SIGMAGUARD CSF 585 BASE BLUE

SECTION 7: Handling and storage

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 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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

DNELs

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Product/ingredient name Ty		Exposure	Value	Population	Effects	
bis-[4-(2,3-epoxipropoxi) phenyl]propane	DNEL	Long term Inhalation	12.25 mg/m ³	Workers	Systemic	
	DNEL	Short term Inhalation	12.25 mg/m ³	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 [Consumers]	Systemic	
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General population [Consumers]	Systemic	
	DNEL	Long term Oral	0.75 mg/kg bw/day	General population [Consumers]	Systemic	
	DNEL	Short term Oral	0.75 mg/kg bw/day	General population [Consumers]	Systemic	
	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		
English (GB)		<u>.</u>	Denmark	<u>.</u>	6/17	

Code : 00322109

Date of issue/Date of revision

: 31 October 2022

SIGMAGUARD CSF 585 BASE BLUE

SECTION 8: Exposure controls/personal protection

	DNEL	Long term Dermal	0.75 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m ³	Workers	Systemic
1,6-Hexanediol, reaction	DNEL	Long term Inhalation	0.27 mg/m ³	General population	Local
products with epichlorohydrin					
	DNEL	Long term Inhalation	0.44 mg/m ³	Workers	Local
	DNEL	Short term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	1.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2.8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	2.9 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	4.9 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	4.9 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	0.0136 mg/cm ²	General population	Local
	DNEL	Long term Dermal	0.0136 mg/cm ²	General population	Local
	DNEL	Short term Dermal	0.0226 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	0.0226 mg/cm ²	Workers	Local
	DNEL	Long term Inhalation	5.29 mg/m ³	General population	Systemic
Octadecanoic acid,	DNEL	Long term Inhalation	0.055 mg/m ³	General population	Local
12-hydroxy-, reaction			-		
products with					
ethylenediamine					
-	DNEL	Long term Inhalation	0.308 mg/m³	Workers	Local

PNECs

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

8.2 Exposure controls Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	ures
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 <u>Skin protection</u>	: Chemical splash goggles. Use eye protection according to EN 166.
Hand protection	

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

Code : 00322109

Date of issue/Date of revision

: 31 October 2022

SIGMAGUARD CSF 585 BASE BLUE

SECTION 8: Exposure controls/personal protection

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	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.
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 vapour (Type A) and particulate filter P3
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Blue.
Odour	: Characteristic.
Odour threshold	: Not available.
Melting point/freezing point	: May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propane. Weighted average: 3°C (37.4°F)
Initial boiling point and boiling range	: >37.78°C
Flammability	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Flash point	: Closed cup: 65°C

Not soluble

Code : 00322109 SIGMAGUARD CSF 585 BASE E	Date of issue/Date of revision : 31 October 2022 BLUE
SECTION 9: Physical a	and chemical properties
Auto-ignition temperature	: Not available.
Decomposition temperature	: Stable under recommended storage and handling conditions (see Section 7).
рН	: Not applicable. insoluble in water.
Viscosity	: Kinematic (40°C): >21 mm²/s
Solubility(ies)	:
Media	Result

Partition coefficient: n-octanol/	:	Not applicable.
water		

Vapour pressure

cold water

Vapour pressure	:							
			Vapour Pressure at 20°C		Vapour pressure at 50°C		sure at 50°C	
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		bis-[4-(2,3-epoxipropoxi) phenyl]propane	<0.000075006	<0.00001				
Evaporation rate	:	Not available.						- 1
Relative density	:	1.42						
Vapour density	:	Highest known value: 11.7 (Air = 1) (bis-[4-(2,3-epoxipropoxi)phenyl]propane).						
Explosive properties	:	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
Oxidising properties	:	Product does not pre	esent an c	xidizing h	nazard.			
Particle characteristics								
Median particle size	:	Not applicable.						
9.2 Other information								
No additional information.								

SECTION 10: Stability and reactivity

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

Code : 00322109 SIGMAGUARD CSF 585 BASE BLUE Date of issue/Date of revision

: 31 October 2022

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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
1,6-Hexanediol, reaction products with	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
epichlorohydrin		Female		
	LD50 Oral	Rat - Male,	2189 mg/kg	-
		Female		
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	LC50 Inhalation Dusts and mists	Rat	5.05 mg/l	4 hours
	LD50 Oral	Rat	>2000 mg/kg	-

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

Irritation/Corrosion

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

Conclusion/Summary

: There are no data available on the mixture itself.

Skin Eyes

: There are no data available on the mixture itself.

Respiratory

: There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi)phenyl]propane Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	skin skin	Mouse Guinea pig	Sensitising Sensitising

Conclusion/Summary

Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	<u>:ity (single exposure)</u>
Not available.	

Specific target organ toxicity (repeated exposure)

Code : 00322109	Date of issue/Date of revision : 31 October 2022
SIGMAGUARD CSF 585 BA	
SECTION 11: Toxic	ological information
Not available.	
Aspiration hazard Not available.	
Information on likely routes of exposure	: Not available.
Potential acute health effe	ects
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
	physical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate effective	ffects as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effect	ts : Not available.
Long term exposure Potential immediate effects	: Not available.
Potential delayed effect	ts : Not available.
Potential chronic health e	
Not available.	
Conclusion/Summery	
Conclusion/Summary General	: Not available.
	: Once sensitized, a severe allergic reaction may occur when subsequently exposed t 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.
Sanding and grinding dusts	-
11.2 Information on other h	
11.2.1 Endocrine disruption	ng properties
Not available.	

Not available.

11.2.2 Other information

Not available.

Code : 00322109 SIGMAGUARD CSF 585 BASE BLUE Date of issue/Date of revision

: 31 October 2022

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
1,6-Hexanediol, reaction products with epichlorohydrin	Acute EC50 47 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 30 mg/l Fresh water	Fish	96 hours
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >10 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >10 mg/l	Fish - Oncorhynchus mykiss	96 hours

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
1,6-Hexanediol, reaction products with epichlorohydrin	OECD 301D Ready Biodegradability - Closed Bottle Test	47 % - Not readily - 28 days	-	-
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	301D Ready Biodegradability - Closed Bottle Test	22 % - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis-[4-(2,3-epoxipropoxi)phenyl]propane 1,6-Hexanediol, reaction products with epichlorohydrin Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	- -	-	Not readily Not readily Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1,6-Hexanediol, reaction products with epichlorohydrin	0.822	-	low
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	>5.86	-	high

12.4 Mobility in soil

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

Code : 00322109	Date of issue/Date of revision	: 31 October 2022
SIGMAGUARD CSF 585 BASE BLUE		

SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

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

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 minimised wherever possible. Waste

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)
Container	15 01 06 mixed packaging
Special precautions	: 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. Avoid dispersal of spilt 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	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(bis-[4- (2,3-epoxipropoxi) phenyl]propane)	(bis-[4- (2,3-epoxipropoxi) phenyl]propane)	(bis-[4- (2,3-epoxipropoxi) phenyl]propane)	(bis-[4- (2,3-epoxipropoxi) phenyl]propane)

English (GB)

Denmark

2020/878				
Code : 00322 SIGMAGUARD CSF {		Date of issue/D	ate of revision : 3	31 October 2022
14. Transport	t information			
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	Ш	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	Not applicable.	(bis-[4- (2,3-epoxipropoxi) phenyl]propane)	Not applicable.

Additional information

Additional into		
ADR/RID	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	
Tunnel code	(-)	
ADN	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	
IMDG	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	
ΙΑΤΑ	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.	
14.6 Special pre user	tions 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 authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Ozone depleting substances (1005/2009/EU) Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

 Code
 : 00322109
 Date of issue/Date of revision
 : 31 October 2022

 SIGMAGUARD CSF 585 BASE BLUE
 SECTION 15: Regulatory information

 Danger criteria
 Category

E2	
lational regulations roduct registration umber	: PR-1280076
anish fire class	: III-1
enmark – Cancer risks	: National Working Environment Authorities Ordinance on Measures to Prevent Cancer Risks during Work with Substances and Preparations is applicable.
IAL-code	: 0-5
rotection based on MAL	: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:
	General: Gloves must be worn for all work that may result in soiling. Apron/coveralls, protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.
	In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.
	MAL-code: 0-5 Application: When using scraper or knife, brush, roller etc. for pre- and post- treatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* boo and cabins with non-atomizing guns. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or knife, brush, roller, etc, for pre- and post-treatments cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.
	- Protective clothing must be worn.
	When spraying in existing* spray booths, if the operator is outside the spray zone.
	- Air-supplied full mask and protective clothing must be worn.
	During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabinand spray-booth type where the operator is working inside the spray zone.
	- Gas filter mask and protective clothing must be worn.
	During all spraying where atomisation occurs in cabins or spray booths where the
	operator is inside the spray zone and during spraying outside a closed facility, cabin o booth.

Code: 00322109Date of issue/Date of revision: 31 October 2022

SIGMAGUARD CSF 585 BASE BLUE

SECTION 15: Regulatory information

	Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.
	Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.
	Caution The regulations contain other stipulations in addition to the above.
	*See Regulations.
Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
List of undesirable substances	: Listed
Carcinogenic waste	: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.
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

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

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H411	Toxic to aquatic life with long lasting effects.	
1412	Harmful to aquatic life with long lasting effects.	

Full text of classifications [CLP/GHS]

English (GB)	Denmark	16/17
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Code : 00322109	Date of issue/Date of revision	: 31 October 2022
SIGMAGUARD CSF 585 BASE BLUE		
SECTION 16: Other information		

SECTION 16: Other information

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
SKIN CORROSION/IRRITATION - Category 2
SKIN SENSITISATION - Category 1
SKIN SENSITISATION - Category 1B

<u>History</u>

Date of issue/ Date of revision	: 31 October 2022
Date of previous issue	: 31 October 2022
Prepared by	: EHS
Version	: 3.04

Disclaimer

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