# **SAFETY DATA SHEET**



Date of issue/Date of revision15 December 2023Version 2

# Section 1. Identification of the substance/mixture and of the company/undertaking

Product code	: 000001099277	
Product name	: SIGMAGUARD CSF 585 BASE BLUE 1	
Other means of identification	: 00219192; 00219194; 00310817	
Product type	: Liquid.	
Polovant identified use	s of the substance or mixture and uses advised against	

Relevant identified uses of	the substance or mixture and uses advised against
Product use	<ul> <li>Coating.</li> <li>Professional applications, Used by spraying.</li> </ul>
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
Supplier's details	: PPG Coatings (Thailand) Co., Ltd. 15 Rama 9 Road, Kwaeng Huamark, Khet Bangkapi, Bangkok 10240 Thailand T: 662-319-4190 #224 F: 662-319-4189
Emergency telephone number (with hours of operation)	: CHEMTREC 001-800-13-203-9987 (CCN 17704)

### Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>KIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 28.8%</li> </ul>
<u>GHS label elements</u> Hazard pictograms	

### Section 2. Hazards identification

Signal word	:	Warning
Hazard statements	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	:	Collect spillage. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	:	Not applicable.
Disposal	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not	:	None known.

result in classification

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

#### **CAS number/other identifiers**

<b>CAS number</b> : Not applicable.		
Ingredient name	%	CAS number
s-[4-(2,3-epoxipropoxi)phenyl]propane 1,6-bis(2,3-epoxypropoxy)hexane Talc , not containing asbestiform fibres	25- <50 10- <20 3 - <5	1675-54-3 16096-31-4 14807-96-6

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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 and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

### Section 4. First aid measures

Description of necess	ary first aid measures
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
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	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

Most important symptoms/e	s, acute and delayed	
Potential acute health effect		
Eye contact	Causes serious eye irritation.	
Inhalation	lo known significant effects or critical hazards.	
Skin contact	auses skin irritation. May cause an allergic skin reaction.	
Ingestion	o known significant effects or critical hazards.	
Over-exposure signs/symp		
Eye contact	Adverse symptoms may include the following: pain or irritation vatering edness	
Inhalation	lo specific data.	
Skin contact	dverse symptoms may include the following: ritation edness	
Ingestion	lo specific data.	
Indication of immediate med	attention and special treatment needed, if necessary	
Notes to physician	reat symptomatically. Contact poison treatment specialist immediately if large juantities have been ingested or inhaled.	
Specific treatments	lo specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. nay be dangerous to the person providing aid to give mouth-to-mouth resuscita Vash contaminated clothing thoroughly with water before removing it, or wear ploves.	

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: 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 thermal decomposition products	: Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
Special protective actions 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.

### Section 6. Accidental release measures

#### 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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".
Environmental precautions		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.

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop<br/>up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry<br/>material and place in an appropriate waste disposal container. Dispose of via a<br/>licensed waste disposal contractor.

### Section 6. Accidental release measures

Large spill
 Stop leak if without risk. Move containers from spill area. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

Precautions for safe handling	: 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. 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.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### Control parameters

Occupational exposure limits

Ingredient name Falc , not containing asbestiform fibres			Exposure limits	
			<b>Ministry of Labor (Thailand, 8/2017).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable dust	
Recommended monitoring procedures				
Appropriate engineering controls	:	Good general ventilation should be su contaminants.	fficient to control worker exposure to airborne	
Environmental exposure controls	:			

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### Section 8. Exposure controls/personal protection

#### Individual protection measures

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 protection	: Chemical splash goggles.
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.
Gloves	: butyl rubber
Body protection	<ul> <li>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.</li> </ul>
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.

### Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Blue.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: insoluble in water.
Melting point	<ul> <li>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.</li> <li>Weighted average: 3°C (37.4°F)</li> </ul>
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 130°C (266°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: liquid

### **Section 9. Physical and chemical properties**

Lower and upper explosive (flammable) limits	:	Not available.				
Vapor pressure	:	líghest known value: 0.009 kPa (0.07 mm Hg) (at 20°C) (1,6-bis(2,3-epoxypropoxy) exane). Weighted average: 0.002 kPa (0.02 mm Hg) (at 20°C)				
Vapor density	:	Highest known value	Highest known value: 11.7 (Air = 1) (bis-[4-(2,3-epoxipropoxi)phenyl]propane).			
Relative density	:	1.41				
		Media	Result			
Solubility(ies)		cold water	Not soluble			
Partition coefficient: n- octanol/water	:	Not applicable.				
Auto-ignition temperature	:	Not available.				
Decomposition temperature	:	Stable under recom	Stable under recommended storage and handling conditions (see Section 7).			
Viscosity	:	Kinematic (40°C): >	21 mm²/s			
Viscosity	:	60 - 100 s (ISO 6mr	n)			

### Section 10. Stability and reactivity

Depetivity	. No excellent state data related to reactivity evoluble for this we duet or its in we direct
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions:
	oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition	: Depending on conditions, decomposition products may include the following
products	materials: carbon oxides halogenated compounds metal oxide/oxides

### Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity Product/ingredient name	Result	Species	Dose	Exposure
pís-[4-(2,3-epoxipropoxi)phenyl] propane	LD50 Dermal	Rabbit	23000 mg/kg	-
F F	LD50 Oral	Rat	15000 mg/kg	-

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

Irritation/Corrosion

### Section 11. Toxicological information

Product/ingredient name	Result		Species	Score	e Ex	kposure	Observation	
pís-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritan	t	Rabbit	-	24	hours	-	
	Eyes - Redness c conjunctivae	of the	Rabbit	0.4	24	hours	-	
	Skin - Edema		Rabbit	0.5	4	nours	-	
	Skin - Erythema/		Rabbit	0.8		nours	-	
	Skin - Mild irritant		Rabbit	-	4	nours	-	
Conclusion/Summary								
Skin :	There are no data	available	on the mixtu	re itself.				
Eyes :	There are no data	available	on the mixtu	re itself.				
Respiratory :	There are no data	available	on the mixtu	re itself.				
<u>Sensitization</u>								
Product/ingredient name	Route of exposure	Species			Result			
øs-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse			Sensitiz	ing		
Conclusion/Summary	·							
Skin :	There are no data	here are no data available on the mixture itself.						
Respiratory :	There are no data	here are no data available on the mixture itself.						
<u>Mutagenicity</u>								
Conclusion/Summary :	There are no data	available	on the mixtu	re itself.				
Carcinogenicity								
	There are no data	available	on the mixtu	re itself.				
Reproductive toxicity								
Conclusion/Summary :	There are no data	available	on the mixtu	re itself.				
Teratogenicity								
Conclusion/Summary :	There are no data	available	on the mixtu	re itself.				
Specific target organ toxici	<u>ty (single exposure</u>	<u>e)</u>						
					-			

Name	•••	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

#### Information on the likely routes of exposure

: Not available.

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### Section 11. Toxicological information

#### Potential acute health effects

Eye contact	:	Causes serious eye irritation.
Inhalation	÷	No known significant effects or critical hazards.
Skin contact	÷	$ ot\!$
Ingestion	÷	No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

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.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	f <u>ects</u>
General	: 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.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

#### Other information

Sanding and grinding dusts may be harmful if inhaled.

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### Section 12. Ecological information

#### **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
0	. These and we determined as the	· · · · · · · · · · · · · · · · · · ·	

Conclusion/Summary

: There are no data available on the mixture itself.

#### Persistence/degradability

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	-	-	Not readily		

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
₱ ₱ ₱ ₱ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽ ₽	0.822	-	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods	Disposal of this p with the requirem any regional local products via a lical untreated to the s with jurisdiction. should only be co container must be emptied containe	of waste should be avoided or minimized wherever possible. broduct, solutions and any by-products should at all times comply ments of environmental protection and waste disposal legislation and al authority requirements. Dispose of surplus and non-recyclable bensed waste disposal contractor. Waste should not be disposed of sewer unless fully compliant with the requirements of all authorities Waste packaging should be recycled. Incineration or landfill considered when recycling is not feasible. This material and its be disposed of in a safe way. Care should be taken when handling ers that have not been cleaned or rinsed out. Empty containers or some product residues. Avoid dispersal of spilled material and
		some product residues. Avoid dispersal of spilled material and ct with soil, waterways, drains and sewers.

### Section 14. Transport information

### Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN3082	UN3082	UN3082
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.
	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)
Transport hazard class(es)	9	9	9
Packing group	III	III	II
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

#### **Additional information**

UN	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.
Special pre	cautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

# Transport in bulk according : Not applicable.

to IMO instruments

### Section 15. Regulatory information

Harmful Chemicals List Safety, health and environmental regulations specific for the product	<ul> <li>Listed</li> <li>No known specific national and/or regional regulations applicable to this product (including its ingredients).</li> </ul>	
International regulations		
Montreal Protocol		
Not listed.		
Stockholm Convention on Persistent Organic Pollutants		

Not listed.

### Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 15 December 2023
Date of previous issue	: 11/29/2022
Version	: 2
Prepared by	: EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>UN = United Nations</li> </ul>

Indicates information that has changed from previously issued version.

#### Notice to reader

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