SAFETY DATA SHEET

pPG

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013

Date of issue/Date of revision 17 October 2024

Version 7.01

Section 1. Chemical product and company identification			
Product code	: 00256987		
Product name	: SIGMAGUARD CSF 585 BASE		
Product name	: SIGMAGUARD CSF 585 BASE		
Product type	: Liquid.		
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	: Not applicable.		
Supplier's details	: PPG Coatings (Kunshan) Co., Ltd 53 Jinyang Road, Lujia Town, 215331 Kunshan City, Jiangsu Province, P.R. China Tel: 86 512 57678859 Fax: 86 512 57678857		
Emergency telephone number (with hours of operation)	: 00 86 532 83889090		

Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Emergency overview	
Liquid.	
Various	
Characteristic.	
Causes skin irritation.	
May cause an allergic skin react	ion.
Causes serious eye irritation.	
Toxic to aquatic life. Toxic to aquatic life with long las	ting effects
	•
attention.	Set medical advice or attention. If eye irritation persists: Get medical advice or
See Section 12 for environme	ntal procautions
See Section 12 for environme	
Classification of the : substance or mixture	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 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%

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Section 2. Hazards identification

GHS label elements	
Hazard pictograms	
	· · · · · · · · · · · · · · · · · · ·
Signal word	: Warning
Hazard statements	: Causes skin irritation. May cause an allergic skin reaction.
	Causes serious eye irritation.
	Toxic to aquatic life.
Precautionary statements	Toxic to aquatic life with long lasting effects.
Prevention	: Wear protective gloves. Wear eye or face protection. Avoid release to the
Trevention	environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: Collect spillage. IF ON SKIN: Wash with plenty of water. If skin irritation or rash
	occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. 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.
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national
	and international regulations.
Physical and chamical	: No known significant effects or critical hazards.
Physical and chemical hazards	. No known significant effects of childa hazards.
Health hazards	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Computering related to the ph	
	nysical, 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.
Deleveral conditions attack of the	
	ects and also chronic effects from short and long term exposure
Short term exposure Potential immediate	: Not available.
effects	

Section 2. Hazards identification

Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Environmental hazards	: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Other hazards which do not result in classification	: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

CAS number : Not applicable.		
Ingredient name	%	CAS number
5.[4-(2,3-epoxipropoxi)phenyl]propane 1,6-bis(2,3-epoxypropoxy)hexane Talc , not containing asbestiform fibres	40 - <70 10 - <25 1 - <10	1675-54-3 16096-31-4 14807-96-6

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 necessary 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 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.	

Most important symptoms/effects, acute and delayed

Potential acute health eff	fects
Eye contact	: Causes serious eye irritation.
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.
Over-exposure signs/syr	nptoms

Section 4. First aid measures

: Adverse symptoms may include the following: pain or irritation watering redness
: No specific data.
: Adverse symptoms may include the following: irritation redness
: No specific data.
lical attention and special treatment needed, if necessary
 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
: No specific treatment.
: 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.
C

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 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, protec	<u>tiv:</u>	e 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".
·		Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for co	ont	ainment 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 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

	Exposure limits
orm fibres	GBZ 2.1 (China, 11/2022) PC-TWA 8 hours: 3 mg/m ³ . Form: total dust. PC-TWA 8 hours: 1 mg/m ³ . Form: respirable dust.
	de to appropriate monitoring standards. Reference to nents for methods for the determination of hazardous equired.
: Good general ventilation contaminants.	should be sufficient to control worker exposure to airborne
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.	
<u>es</u>	
 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. 	
: Chemical splash goggles	5.
be worn at all times wher this is necessary. Consid check during use that the should be noted that the different for different glow	ervious gloves complying with an approved standard should in handling chemical products if a risk assessment indicates dering the parameters specified by the glove manufacturer, e gloves are still retaining their protective properties. It time to breakthrough for any glove material may be we manufacturers. In the case of mixtures, consisting of protection time of the gloves cannot be accurately
: butyl rubber	
	oment for the body should be selected based on the task risks involved and should be approved by a specialist luct.
selected based on the ta	d any additional skin protection measures should be sk being performed and the risks involved and should be before handling this product.
hazards of the product an workers are exposed to o appropriate, certified resp	to be based on known or anticipated exposure levels, the nd the safe working limits of the selected respirator. If concentrations above the exposure limit, they must use pirators. Use a properly fitted, air-purifying or air-fed an approved standard if a risk assessment indicates this is
	 Reference should be main ational guidance docum substances will also be resubstances from ventilation contaminants. Emissions from ventilation contaminants. Emissions from ventilation contaminants. Wash hands, forearms a eating, smoking and usin Appropriate techniques a Contaminated work cloth contaminated clothing be showers are close to the contaminated clothing be showers are close to the chemical splash goggles Chemical-resistant, imperent be worn at all times when this is necessary. Considered that the different for different glow several substances, the estimated. butyl rubber Personal protective equipies and the before handling this prodiment and the before handling this prodiment and the before handling this prodiment and the before handling the should be a specialist. Respirator selection must hazards of the product an workers are exposed to a appropriate, certified rest respirator complying with

Section 9. Physical and chemical properties

Appearance					
Physical state	:	Liquid.			
Color	1	Various			
Odor	:	Characteristic.	Characteristic.		
Boiling point	:	>37.78°C (>100°F)			
Flash point	:	Closed cup: 130°C (266	Closed cup: 130°C (266°F)		
Lower and upper explosive (flammable) limits	:	Not available.			
Relative density	1.1	1.41			
Relative denoity	- 1	1.71			
		Media	Result		
Solubility(ies)	:	T	Result Not soluble		
	:	Media	Not soluble ature): Not available. rature): Not available.		

Section 10. Stability and reactivity Reactivity : No specific test data related to reactivity available for this product or its ingredients. **Chemical stability** : The product is stable. **Possibility of hazardous** : Under normal conditions of storage and use, hazardous reactions will not occur. reactions **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. : Depending on conditions, decomposition products may include the following **Hazardous decomposition** materials: carbon oxides metal oxide/oxides products

Section 11. Toxicological information

Information on toxicological effects

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

Irritation/Corrosion

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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 conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-

Sensitization

•	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

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.

Eye contact Inhalation

Ingestion

Information on the likely : Not available. routes of exposure

Potential acute health effects

: Causes serious eye irritation.

- : No known significant effects or critical hazards.
- **Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
 - : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

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** : Not available. effects Potential delayed effects : Not available. Long term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Potential chronic health effects 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

Product/ingredient name	Oral (mg/ kg)			(vapors)	Inhalation (dusts and mists) (mg/l)
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A

Other information

Sanding and grinding dusts may be harmful if inhaled.

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 - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days

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Section 12. Ecological information

Persistence/degradability			
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
1,6-bis(2,3-epoxypropoxy) hexane	0.822	-	Low

Mobility in soil

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

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information China UN IMDG ΙΑΤΑ **UN number** UN3082 UN3082 UN3082 UN3082 ENVIRONMENTALLY **UN proper ENVIRONMENTALLY** ENVIRONMENTALLY ENVIRONMENTALLY HAZARDOUS HAZARDOUS HAZARDOUS HAZARDOUS shipping name SUBSTANCE, SUBSTANCE. SUBSTANCE, SUBSTANCE, LIQUID, N.O.S. LIQUID, N.O.S. LIQUID, N.O.S. LIQUID, N.O.S. (bis-[4-(bis-[4-(bis-[4-(bis-[4-(2,3-epoxipropoxi) (2,3-epoxipropoxi) (2,3-epoxipropoxi) (2,3-epoxipropoxi) phenyl]propane) phenyl]propane) phenyl]propane) phenyl]propane) 9 9 9 Transport hazard 9 class(es) Ш Packing group Ш Ш Ш China Page: 10/12

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Product name SIGMAGUARD CSF 585 BASE

Section 14. Transport information

Environmental hazards	Yes.	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	Not applicable.	(bis-[4- (2,3-epoxipropoxi) phenyl]propane)	Not applicable.

Additional information

CN	: None identified.
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.
IATA	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 precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	
Transport in to IMO instru	bulk according : Not applicable. ments

Section 15. Regulatory information

China inventory (IECSC)	: All components are listed or exempted.
References	 Production Safety Law of the People's Republic of China Code of Occupational Disease Prevention of the People's Republic of China Environmental Protection Law of the People's Republic of China Fire Control Law of the People's Republic of China Regulations on the Control over Safety of Dangerous Chemicals Occupational exposure limits for hazardous agents in the workplace chemical hazardous agents (GBZ2.1) General rule for classification and hazard communication of chemicals (GB13690) Safety data sheet for chemical products - Content and order of sections (GB/ T16483) Guidance on the compilation of safety data sheet for chemical products (GB/ T17519) General rule for preparation of precautionary label for chemicals (GB15258) Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB30000.2-29)

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 17 October 2024
Date of previous issue	: 12/20/2023
Version	: 7.01
	EHS

Product name SIGMAGUARD CSF 585 BASE

Section 16. Other information

Key to abbreviations	: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
	ADR = The European Agreement concerning the International Carriage of
	Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	RID = The Regulations concerning the International Carriage of Dangerous Goods
	by Rail
	UN = United Nations
	ON - Onley Nations

V 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.