# **SAFETY DATA SHEET**



#### The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision16 December 2023Version 15.02

Section 1. Identification				
Product name	: SIGMAGUARD CSF 585 BASE BLUE			
Product code	: 00219194			
Other means of identification	: Not available.			
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	<ul> <li>PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121</li> </ul>			
	PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272			
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)			
Technical Phone Number	: 888-977-4762			

# Section 2. Hazard identification

Classification of the substance or mixture	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 1 This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).
GHS label elements	

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#### Product name SIGMAGUARD CSF 585 BASE BLUE

### Section 2. Hazard identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it 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	: Store locked up.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Emits toxic fumes when heated. Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 17.4% (oral), 22.9% (dermal), 72.9% (inhalation)

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SIGMAGUARD CSF 585 BASE BLUE
Other means of identification	: Not available.

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

Ingredient name	Synonyms	% (w/w)	CAS number
bis-[4-(2,3-epoxipropoxi)phenyl] propane	2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane; Oxirane, 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bis-; Bisphenol A diglycidyl ether; Bisphenol A, diglycidyl ether; Bis-[4-(2,3-epoxypropoxy) phenyl]propane; 2,2-bis[4- (2,3-epoxypropoxy)phenyl]propane; Propane, 2,2-bis(p-(2,3-epoxypropoxy) phenyl)-; diglycidyl ether of bisphenol-A; 2,2-bis(4-hydroxyphenyl) propane bis (2,3-epoxypropyl) ether; Araldite; DIPHENYLOL PROPANE DIGLYCIDYL	30 - 60*	1675-54-3
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### Section 3. Composition/information on ingredients

-		1	
	ETHER		
Nepheline syenite	potassium, sodium, oxido-oxo- oxoalumanyloxysilane	10 - 30*	37244-96-5
1,6-bis(2,3-epoxypropoxy)hexane	Oxirane, 2,2'-[1,6-hexanediylbis (oxymethylene)]bis-; 1,6-Bis(glycidyloxy) hexane; 1,6-Hexanediol diglycidyl ether; Hexane, 1,6-bis(2,3-epoxypropoxy); 2,2'- [hexane-1,6-diylbis(oxymethanediyl)] dioxirane; Diglycidyl hexanediol; 2,2'- [1,6-Hexanediylbis(oxymethylene)] bisoxirane; 2,2'-[Hexane-1,6-diylbis (oxymethylene)]bis(oxirane); Glycidyl or 2-methylglycidyl ether of poly (2-6) hydroxyalkane (C3-10); Alkylene glycol diglycidyl ether (C2-12); Hexamethylene glycol diglycidyl ether	10 - 30*	16096-31-4
Talc , not containing asbestiform fibres	Talc; magnesium silicate monohydrate (talc) not containing asbestiform fibres	1 - 5*	14807-96-6
titanium dioxide	Titanium oxide; Titanium oxide (TiO2); CI 77891; Titanium peroxide; Rutile; C.I. Pigment White 6; titanium dioxide coated with isopropoxytitanium triisostearate, containing by weight 1,5 % or more but not more than 2,5 % of isopropoxytitanium triisostearate; glass flakes (CAS RN 65997-17-3): — of a thickness of 0,3 µm or more but not more than 10 µm, and — coated with titanium dioxide (CAS RN 13463-67-7) or iron oxide (CAS RN 18282- 10-5); titanium dioxide, other than those of heading 3206 11 00; C.I. 77891; E 171; titanium(IV) oxide, other than those of heading 3206 11 00	1 - 5*	13463-67-7
crystalline silica, respirable powder (>10 microns)	alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; SILICA, CRYSTALLINE, QUARTZ; Silica- Crystalline, Quartz; Silica - Crystalline Quartz; Silica-Crystalline : Quartz; Silica, crystalline - quartz	0.1 - 1*	14808-60-7

\*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

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.

#### Product name SIGMAGUARD CSF 585 BASE BLUE

### Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary 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	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

#### Most important symptoms/effects, acute and delayed

wost important symptoms/e	<u>s, acute and delayed</u>	
Potential acute health effe		
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.	
<u>Over-exposure signs/symp</u>	<u>}</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: rritation redness	
Ingestion	No specific data.	
Indication of immediate med	attention and special treatment needed, if necessary	
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if larg quantities have been ingested or inhaled.	је
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training s suspected that fumes are still present, the rescuer should wear an appropri mask or self-contained breathing apparatus. It may be dangerous to the pers providing aid to give mouth-to-mouth resuscitation. Wash contaminated cloth thoroughly with water before removing it, or wear gloves.	iate son

See toxicological information (Section 11)

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# 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.
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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# Section 6. Accidental release measures

Personal precautions, protect	:tiv	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".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	onta	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.

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### Section 6. Accidental release measures

	during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.
Special precautions	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
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.
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. Store locked up. 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.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Js-[4-(2,3-epoxipropoxi)phenyl]propane	None.
Nepheline syenite	CA Ontario Provincial (Canada, 6/2019).
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust
1,6-bis(2,3-epoxypropoxy)hexane	None.
Talc , not containing asbestiform fibres	CA British Columbia Provincial (Canada,
	6/2022).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	CA Ontario Provincial (Canada).
	TWA: 2 ppb Form: Respirable
	CA Quebec Provincial (Canada, 6/2022).
	TWAEV: 2 mg/m <sup>3</sup> 8 hours. Form:
	Respirable dust.
	CA Alberta Provincial (Canada, 6/2018).
	OEL: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	particulate
	CA Ontario Provincial (Canada, 6/2019).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	particulate matter.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: respirable
	fraction
titanium dioxide	CA British Columbia Provincial (Canada,
	6/2022). [Titanium dioxide]
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# Section 8. Exposure controls/personal protection

	-
	TWA: 10 mg/m³ 8 hours. Form: Total dust TWA: 3 mg/m³ 8 hours. Form: respirable
	fraction
	CA Quebec Provincial (Canada, 6/2022).
	TWAEV: 10 mg/m <sup>3</sup> 8 hours. Form: Total
	dust.
	CA Alberta Provincial (Canada, 6/2018).
	Skin sensitizer.
	OEL: 10 mg/m <sup>3</sup> 8 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 20 mg/m <sup>3</sup> 15 minutes.
	TWA: 10 mg/m <sup>3</sup> 8 hours.
	CA Ontario Provincial (Canada, 6/2019).
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
rystalline silica, respirable powder (>10 microns)	CA British Columbia Provincial (Canada
	6/2022). [Silica, Crystalline - alpha quart
	and Cristobalite Respirable]
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:
	Respirable
	CA Ontario Provincial (Canada, 6/2019).
	[Silica, Crystalline (Quartz/Tripoli)]
	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirat
	CA Quebec Provincial (Canada, 6/2022).
	[Silica Crystalline -Quartz]
	TWAEV: 0.1 mg/m <sup>3</sup> 8 hours. Form:
	Respirable dust.
	CA Alberta Provincial (Canada, 6/2018).
	OEL: 0.025 mg/m <sup>3</sup> 8 hours. Form:
	Respirable particulate
	CA Saskatchewan Provincial (Canada,
	7/2013).
	TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form:
	respirable fraction

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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.

Individual protection measures

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# Section 8. Exposure controls/personal protection

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	1	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	:	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.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Various
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 130°C (266°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.41

#### Product name SIGMAGUARD CSF 585 BASE BLUE

# Section 9. Physical and chemical properties

Density ( lbs / gal )	: 11.77		
Solubility(ies)	Media	Result	
	. cold water	Not soluble	
Partition coefficient: n- octanol/water	: Not applicable.		
Viscosity	: Kinematic (40°C (10	04°F)): >21 mm²/s (>21 cSt)	
Volatility	: 1% (v/v), 0.612% (v	v/w)	
% Solid. (w/w)	: 99.388		

# 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 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. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following 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
bis-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
Nepheline syenite	LC50 Inhalation Dusts and mists	Rat	>5.07 mg/l	4 hours
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	: There are no data available on	the mixture its	elf.	

Irritation/Corrosion

#### Product name SIGMAGUARD CSF 585 BASE BLUE

## Section 11. Toxicological information

Product/ingredient name	Resu	Result		Species	Sco	re	Exposure	Observation
bis-[4-(2,3-epoxipropoxi) bhenyl]propane	Eyes	Eyes - Mild irritant		Rabbit	-		24 hours	-
5 11 1		- Redness Inctivae	of the	Rabbit	0.4		24 hours	-
		- Edema		Rabbit	0.5		4 hours	-
	Skin	- Erythema	/Eschar	Rabbit	0.8		4 hours	-
	Skin	- Mild irrita	nt	Rabbit	-		4 hours	-
Conclusion/Summary								
Skin	: The	ere are no d	lata availat	ole on the mixt	ure itsel	f.		
Eyes	: The	ere are no d	lata availat	ole on the mixt	ure itsel	f.		
Respiratory	: The	ere are no d	lata availat	ole on the mixt	ure itsel <sup>:</sup>	f.		
Sensitization								
Product/ingredient name	Route	of	Species			Result		
	expos	ure	· ·					
bis-[4-(2,3-epoxipropoxi)	skin		Mouse		Sensitizing			
phenyl]propane							0	
Skin	: There are no data availa			ole on the mixt	ure itsel	f.		
Respiratory	: There are no data avai			ole on the mixt	ure itsel	f.		
<u>Autagenicity</u>								
Conclusion/Summary	: The	re are no d	lata availat	ole on the mixt	ure itsel	f.		
Carcinogenicity								
Conclusion/Summary	: The	ere are no d	lata availat	ole on the mixt	ure itsel <sup>:</sup>	f.		
<u>Classification</u>								
Product/ingredient name		OSHA	IARC	NTP				
pís-[4-(2,3-epoxipropoxi)phe	nvll	-	3	-				
propane			-					
titanium dioxide		-	2B	-				
crystalline silica, respirable p	owder	+	1	Known to be a	a humar	n carcinog	gen.	
(>10 microns)								
Carcinogen Classification	code:							
IARC: 1, 2A, 2B, 3, NTP: Known to be OSHA: +	a human	carcinogen;	Reasonably	anticipated to be	e a human	n carcinoge	n	
Not listed/not regu	lated: -							
Reproductive toxicity								
Conclusion/Summary	: The	ere are no d	lata availat	ole on the mixt	ure itsel <sup>:</sup>	f.		
eratogenicity								
	<b>-</b>					<i>.</i>		

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

#### 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.

#### Product name SIGMAGUARD CSF 585 BASE BLUE

### Section 11. Toxicological information

#### Target organs

: Contains material which may cause damage to the following organs: lungs, cardiovascular system, upper respiratory tract, skin, eyes.

#### **Aspiration hazard**

Not available.

#### Information on the likely routes of exposure

#### Potential acute health effects

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/symptoms**

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

Conclusion/Summary	: There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure Potential immediate effects	: There are no data available on the mixture itself.

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### Section 11. Toxicological information

Potential delayed effects	here are no data available on the mixture itself.				
Potential chronic health eff	Potential chronic health effects				
General	nce sensitized, a severe allergic reaction may occur when subsequently e o very low levels.	exposed			
Carcinogenicity	lay cause cancer. Risk of cancer depends on duration and level of exposi-	ure.			
Mutagenicity	o known significant effects or critical hazards.				
Reproductive toxicity	o known significant effects or critical hazards.				
Number of the second					

#### Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	<b>X</b> = <b>P</b> = <b>P</b>	Inhalation (dusts and mists) (mg/l)
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A

# 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
titanium dioxide	Chronic NOEC 0.3 mg/l Acute LC50 >100 mg/l Fresh water	Daphnia Daphnia - <i>Daphnia magna</i>	21 days 48 hours

#### Persistence and 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 coefficient (Koc)

: Not available.

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Product name SIGMAGUARD CSF 585 BASE BLUE

### 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 nonrecyclable 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## Section 14. Transport information

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

#### **Additional information**

TDG	:	Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.
IMDG	:	This product is not regulated as a dangerous good when transported in sizes of $\leq 5$ L or $\leq 5$ 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 $\leq$ 5 L or $\leq$ 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 precauti	ons	for user : <b>Transport within user's premises:</b> 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 bul to IMO instrume		ccording : Not applicable.

#### Product name SIGMAGUARD CSF 585 BASE BLUE

### Section 14. Transport information

Proof of classification statement

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).

### Section 15. Regulatory information

National Inventory List

Canada inventory (DSL) : All of

: All components are listed or exempted.

### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)

Health: 3 \* Flammability: 1 Physical hazards: 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

# The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 3 Flammabili Date of issue/Date of revision	lity: 1 Instability: 0 16 December 2023
Organization that prepared : the SDS	EHS
Key to abbreviations :	<ul> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IBC = Internediate Bulk Container</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</li> <li>as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>N/A = Not available</li> <li>SGG = Segregation Group</li> <li>UN = United Nations</li> </ul>

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

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.