# **SAFETY DATA SHEET**



#### Date of issue 16 December 2023

Version 6

## Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

: SIGMAGUARD CSF 585 BASE BLUE

- : 00219194
- : Not available.
- : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

#### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason	
Not applicable.		

Supplier's details:	
Supplier	<ul> <li>PPG Industries Colombia Ltda Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)</li> </ul>
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: Colombia: 01 8000 916012 (CISPROQUIM) + 571 288 6012 (CISPROQUIM) Ecuador: 1800-59-3005 (CISPROQUIM) Peru: 080-050-847 (CISPROQUIM)

## Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>KIN IRRITATION - Category 2</li> <li>EYE IRRITATION - Category 2A</li> <li>SKIN SENSITIZATION - Category 1</li> <li>CARCINOGENICITY - Category 1A</li> <li>AQUATIC HAZARD (ACUTE) - Category 2</li> </ul>	
Target organs	<ul> <li>AQUATIC HAZARD (LONG-TERM) - Category 2</li> <li>Contains material which may cause damage to the following organs: lungs, cardiovascular system, upper respiratory tract, skin, eyes.</li> </ul>	
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 28.8%	

#### **GHS label elements**

English (US) Colombia	
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## Section 2. Hazards identification

Hazard pictograms		
Signal word	nger	
Hazard statements	uses skin irritation. y cause an allergic skin reaction. uses serious eye irritation. y cause cancer. kic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	tain special instructions before use. Wear protective gloves, protective c I eye or face protection. Avoid release to the environment. Avoid breath or. Wash thoroughly after handling.	
Response	lect spillage. IF exposed or concerned: Get medical advice or attention. contaminated clothing and wash it before reuse. IF ON SKIN: Wash with vater. If skin irritation or rash occurs: Get medical advice or attention. IF ES: Rinse cautiously with water for several minutes. Remove contact lens sent and easy to do. Continue rinsing. If eye irritation persists: Get medi vice or attention.	h plenty <sup>-</sup> IN ses, if
Storage	applicable.	
Disposal	pose of contents and container in accordance with all local, regional, nati I international regulations.	ional
Other hazards which do not	ne known.	

result in classification

## Section 3. Composition/information on ingredients

Nistanulisalis

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

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

CAS number : Not applicable.		
Ingredient name	%	CAS number
<ul> <li>Josephilie State</li> <li>Josephilie State</li></ul>	30 - <60 12.5 - <15 3 - <5 3 - <5 0.1 - <0.2	1675-54-3 16096-31-4 14807-96-6 13463-67-7 14808-60-7

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.
Indication of immediate med	ica	l attention and special treatment needed, if necessary
Notes to physician Specific treatments		Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	1	Causes serious eye irritation. No known significant effects or critical hazards. Øauses skin irritation. May cause an allergic skin reaction. No known significant effects or critical hazards.

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.

English (US)

## Section 6. Accidental release measures

Personal precautions, protect	ive 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for con	ntainment 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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If 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.				
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. See Section 10 for incompatible materials before handling or use.				
	English (US) Colombia 4/12	?			

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits				
✔alc , not containing asbestif titanium dioxide	brm fibres ACGIH TLV (United States, 1/2023). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable ACGIH TLV (United States, 1/2023).				
	TWA: 2.5 mg/m <sup>3</sup> 8 hours. Form: respirable fraction, finescale particles				
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 enclosure 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.				
ndividual protection measur	<u>95</u>				
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.				
Eye 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	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 i necessary.				

## Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	1	Liquid.
Color	4	Various
Odor	1	Characteristic.
рН	1	Not applicable.
Melting point	:	Not available.
Boiling point	:	>37.78°C (>100°F)
Flash point	:	Closed cup: 130°C (266°F)
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.41
Solubility(ies)		Media Result
oordonity(ies)		cold water Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Viscosity	:	60 - 100 s (ISO 6mm)

## 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.
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	-
titanium dioxide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rabbit Rat	>6.82 mg/l >5000 mg/kg >5000 mg/kg	4 hours - -

Conclusion/Summary Irritation/Corrosion	: There are no data available on the mixture itself.				
Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2.3-epoxipropoxi)	Eves - Mild irritant	Rabbit	-	24 hours	-

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bís-[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	-

#### **Conclusion/Summary**

Skin : There are no data available on the mixture itself.
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- Eyes : There are no data available on the mixture itself.
- Respiratory Sensitization

: There are no data available on the mixture itself.

# Product/ingredient name Route of exposure Species Result bis-[4-(2,3-epoxipropoxi) phenyl]propane skin Mouse Sensitizing

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
Not available.	

#### **Conclusion/Summary** : There are no data

: There are no data available on the mixture itself.

Carcinogenicity Not available.

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

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
▶is-[4-(2,3-epoxipropoxi) phenyl]propane titanium dioxide crystalline silica, respirable powder (>10 microns)	- - +	3 2B 1	- - Known to be a human carcinogen.

English (US)	Colombia	

## Section 11. Toxicological information

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

#### Reproductive toxicity

Not available.

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

#### **Teratogenicity**

Not available.

#### **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.

#### <u>Target organs</u>

: 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 effect	: Not available.
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: 🔽 auses skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the pl Eye contact	<ul> <li>hysical, chemical and toxicological characteristics</li> <li>Adverse symptoms may include the following: pain or irritation watering redness</li> </ul>
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

## Section 11. Toxicological information

	5	
Delayed and immediate effect	nd also chronic effects from short and long term exposure	
Conclusion/Summary	There are no data available on the mixture itself. This product contains crystalli silica which can cause lung cancer or silicosis. The risk of cancer depends on t duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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 r 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 fro spray applications may be harmful depending on the duration and level of expose and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). If splashed in the eyes, the liquid may caus 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 exposur- oral, inhalation and dermal routes of exposure and eye contact.	the y no e om sure use ts
<u>Short term exposure</u>		
Potential immediate effects	There are no data available on the mixture itself.	
Potential delayed effects	There are no data available on the mixture itself.	
<u>Long term exposure</u>		
Potential immediate effects	There are no data available on the mixture itself.	
Potential delayed effects	There are no data available on the mixture itself.	
Potential chronic health eff		
Not available.		
General	Once sensitized, a severe allergic reaction may occur when subsequently exposito very low levels.	sed
Carcinogenicity	May cause cancer. Risk of cancer depends on duration and level of exposure.	
Mutagenicity	No known significant effects or critical hazards.	
Reproductive toxicity	No known significant effects or critical hazards.	
Normaniant		

#### Numerical measures of toxicity

#### Acute toxicity estimates

	Oral (mg/ kg)		(gases)	(mg/l)	Inhalation (dusts and mists) (mg/l)
s-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A

#### **Other information**

: Not available.

## Section 12. Ecological information

Ecotoxicity					
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/degradability

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

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
	0.822	-	Low

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
	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

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN3082	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.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	English (US) Colombia 10/12			

Code	00219194	Date of issue	16 December 2023	Version	6	
Product nam	le	SIGMAGUARD CSF 585 BASE BLUE				

## Section 14. Transport information

	(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)
Transport hazard class(es)	9	9	9	9
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	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.
Brazil	: 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.
<b>Risk number</b>	: 90
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 precauti	<b>ons for user : 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 bulk according : Not applicable. to IMO instruments

## Section 15. Regulatory information

Safety, health and	1	No known specific national and/or regional regulations applicable to this product
environmental regulations		(including its ingredients).
specific for the product		

## Section 16. Other information

#### **History**

Date of previous issue	:	10/7/2022
Version	:	6
		EHS

### Section 16. Other information

Key to alcher defiere	ADN - Functions Descriptions concerning the Internetic al Operations of Description
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
	UN – United Nations
References	: ABNT NBR 14725-4: 2014
	ANTT - National Land Transportation Agency

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.