# **SAFETY DATA SHEET**



### Date of issue 15 December 2023

Version 5

# Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

: SIGMAGUARD CSF 585 BASE WHITE

- : 00219188
- : 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	:	PPG INDUSTRIES CHILE S.A. Puerto Madero 9710, Of. 23 Pudahuel - Chile Teléfono: +56 (2) 2571 0750 Fax: +56 (2) 2571 0752
Email address:	:	HazComLatam@ppg.com
Emergency telephone number	:	+56 (2) 2777 1994 (RITA CHILE)

# Section 2. Hazards identification

Classification of the substance or mixture	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A
Target organs	<ul> <li>AQUATIC HAZARD (ACUTE) - Category 2</li> <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**

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# Section 2. Hazards identification

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer. Toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>		
Prevention	:	Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling.
Response	:	Collect spillage. 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	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	None known.
Classification according to NCh382:	:	9
Label according to NCh2190:	:	

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not availa
identification	

able.

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

CAS number : Not applicable.		
Ingredient name	%	CAS number
bis-[4-(2,3-epoxipropoxi)phenyl]propane 1,6-bis(2,3-epoxypropoxy)hexane Talc , not containing asbestiform fibres titanium dioxide crystalline silica, respirable powder (>10 microns)	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

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# Section 3. Composition/information on ingredients

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 fir	<u>st a</u>	id 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	Indication of immediate medical 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 effect	s			
Eye contact	:	Causes serious eye irritation.		
Inhalation	1	No known significant effects or critical hazards.		
Skin contact	1	causes skin irritation. May cause an allergic skin reaction.		
Ingestion	1	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.

# Section 5. Fire-fighting measures

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		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 containment and cleaning up

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

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# Section 8. Exposure controls/personal protection

#### Control parameters

**Occupational exposure limits** 

**B**ís-[4-(2,3-epoxipropoxi)fenil]propano 1,6-bis(2,3-epoxypropoxy)hexane Talc , not containing asbestiform fibres Not regulated. Not regulated. **Ministry of Health (Chile, 2/2018).** TWA: 1.75 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction **ACGIH TLV (United States, 1/2023).** TWA: 2.5 mg/m<sup>3</sup> 8 hours. Form: respirable fraction, finescale particles

dióxido de titanio (en forma de polvo y conteniendo un 1% o más de partículas con un diámetro < 10um)

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

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products,<br/>before eating, smoking and using the lavatory and at the end of the working period.<br/>Appropriate techniques should be used to remove potentially contaminated clothing.<br/>Contaminated work clothing should not be allowed out of the workplace. Wash<br/>contaminated clothing before reusing. Ensure that eyewash stations and safety<br/>showers are close to the workstation location.

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# Section 8. Exposure controls/personal protection

Eye protection Skin protection	: Chemical splash goggles.
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. : Various Color Odor : Characteristic. pН : Not applicable. **Melting point** : Not available. : >37.78°C (>100°F) **Boiling point** Flash point : Closed cup: 130°C (266°F) **Evaporation rate** : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive : Not available. (flammable) limits Vapor pressure : Not available. Vapor density : Not available. **Relative density** : 1.41 Media Result Solubility(ies) ÷ Not soluble cold water Partition coefficient: n-: Not applicable. octanol/water Auto-ignition temperature : Not available. **Decomposition temperature** : Not available.

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Section 9. Physic	cal and chemical proper	ties		
Viscosity	: Kinematic (40°C (104°F)): >21 mn	m²/s (>21 cSt)		
Viscosity	: 60 - 100 s (ISO 6mm)			
Section 10. Stabi	lity and reactivity			
Reactivity	: No specific test data related to rea	activity available for this pr	roduct or its in	gredients.
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 temperatur products.	res may produce hazardo	us decomposi	tion
Incompatible materials	: Keep away from the following mat oxidizing agents, strong alkalis, str		xothermic read	ctions:
Hazardous decomposition products	: Depending on conditions, decomp carbon oxides halogenated comp			ing material

# Section 11. Toxicological information

# Information on toxicological effects

Acute	tox	icitv

Product/ingredient name	Result	Species	Dose	Exposure
▶s-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
titanium dioxide	LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	15000 mg/kg >6.82 mg/l >5000 mg/kg >5000 mg/kg	- 4 hours - -

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

## Irritation/Corrosion

Result	Species	Score	Exposure	Observation
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	-
	Eyes - Mild irritant Eyes - Redness of the conjunctivae Skin - Edema Skin - Erythema/Eschar	Eyes - Mild irritantRabbitEyes - Redness of the conjunctivaeRabbitSkin - EdemaRabbitSkin - Erythema/EscharRabbit	Eyes - Mild irritantRabbitEyes - Redness of the conjunctivaeRabbit0.4Skin - EdemaRabbit0.5Skin - Erythema/EscharRabbit0.8	Eyes - Mild irritantRabbit-24 hoursEyes - Redness of the conjunctivaeRabbit0.424 hoursSkin - EdemaRabbit0.54 hoursSkin - Erythema/EscharRabbit0.84 hours

**Conclusion/Summary** Skin Eyes Respiratory

: There are no data available on the mixture itself.

- : There are no data available on the mixture itself.
- : There are no data available on the mixture itself.

# **Sensitization**

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Section 11. To	xicological i	nformation			
Product/ingredient na	me Route of exposure	Species	Result		
bis-[4-(2,3-epoxipropox phenyl]propane	i) skin	Mouse	Sensitizing		
Conclusion/Summary	L	·	·		
Skin Respiratory		o data available on th o data available on th			

<u>Mutagenicity</u>

Not available.

# Conclusion/Summary

: 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
▶s-[4-(2,3-epoxipropoxi) phenyl]propane titanium dioxide crystalline silica, respirable powder (>10 microns)	- - +	3 2B 1	- - Known to be a human carcinogen.

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.

#### Target organs

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

## Aspiration hazard

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# Section 11. Toxicological information

Not available.

Information on the likely		Not available.
Information on the likely routes of exposure	1	Not available.
Potential acute health effects		
Eye contact		Causes serious eye irritation.
Inhalation		No known significant effects or critical hazards.
Skin contact	1	Zauses skin irritation. May cause an allergic skin reaction.
Ingestion	1	No known significant effects or critical hazards.
-		
Symptoms related to the physical sector of the sector sect	sic	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	1	No specific data.
Skin contact	1	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
-		
Delayed and immediate effect	ts	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. 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.
<u>Short term exposure</u>		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects	4	There are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects		There are no data available on the mixture itself.
Potential chronic health effe	ect	<u>S</u>
Not available.		

Not available.

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# Section 11. Toxicological information

General	<ul> <li>Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
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.

# Numerical measures of toxicity

### Acute toxicity estimates

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

Other information

: Not available.

# Section 12. Ecological information

<u>Ecotoxicity</u>			
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
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
øs-[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 : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

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# 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.

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

Date of issue

#### 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 processi	and for your . Transport within your's premised, always transport in closed containers that are

# 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.

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# Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

Safety, health and environmental regulations	<ul> <li>NCh 382 - Hazardous substances - General terminology and classification.</li> <li>NCh 2245 - Material Safety Data Sheet for Chemicals - Contents and section order.</li> </ul>
specific for the product	D. S. 148 - Sanitary regulations on hazardous waste management.
	D. S. 298 - Transport of dangerous goods by road.

D. S. 374 – Limit for Lead content in paints.

D. S. 594 - Regulation on basic sanitary and environmental conditions at workplace.

# Section 16. Other information

## **History**

matory	
Date of previous issue	: 10/7/2022
Version	: 5
	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</li> <li>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> </ul>
	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.

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