# **SAFETY DATA SHEET**



#### Date of issue 16 November 2023

Version 3

## Section 1. Product and company identification

Product name	: SIGMAGUARD CSF 585 HARDENER
Product code	: 000001099278
Other means of identification Product type	<ul> <li>: 00219189; 00219193; 00293059; 00445335; 00445528</li> <li>: Liquid.</li> </ul>

#### 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 ARGENTINA S.R.L. Calle 9 y Del gasoducto N° 3810 Parque Industrial Pilar -(CP 1629) Pilar Provincia de Buenos Aires - Argentina Teléfono : 54-0230 4529700 Fax : 54-0230 4529706
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: Centro de intoxicaciones 0800-333-0160 /CIQUIME 0800-222-2933

# Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>AMMABLE LIQUIDS - Category 4         <ul> <li>ACUTE TOXICITY (oral) - Category 5             <ul></ul></li></ul></li></ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 34.8%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 34.8%

#### GHS label elements

## Section 2. Hazards identification

Hazard pictograms		
Signal word	Danger	
Hazard statements	Combustible liquid. May be harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	Wear protective gloves, protective clothing and eye or face protection. Keep from flames and hot surfaces. No smoking. Avoid release to the environme	
Response	IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOW Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT indu vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothi Rinse skin with water. Immediately call a POISON CENTER or doctor. Was contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for severa minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor.	ice ing. sh or Il
Storage	Store in a well-ventilated place. Keep cool.	
Disposal	Dispose of contents and container in accordance with all local, regional, national international regulations.	onal
Other hererde which do not	Nono known	

### Other hazards which do not : None known.

result in classification

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: 00219189; 00219193; 00293059; 00445335; 00445528

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

CAS number : Not applicable.		
Ingredient name	%	CAS number
<b>P</b> oly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	60 - 100	9046-10-0 (n = 2-6)
2,4,6-tris(dimethylaminomethyl)phenol	2 - <3	90-72-2

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.

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# Section 4. First aid measures

<b>Description of necessary fin</b>	rst a	id measures
Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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 me	dica	l attention and special treatment needed, if necessary
Notes to physician Specific treatments		In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 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 effec	<u>ts</u>	
Eye contact	:	Causes serious eye damage.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	$ ot\!$
Ingestion	1.1	May be harmful if swallowed.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful 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 nitrogen 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

## Section 5. Fire-fighting measures

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	
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.
Methods and materials for c	on	tainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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).

# Section 7. Handling and storage

Precautions for safe handling : Fut on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

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

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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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 limit	<u>ts</u>	
None.		
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	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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 measur	<u>es</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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection	:	Chemical splash goggles and face shield.
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	:	nitrile neoprene
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.
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Product name SIGMAGE	JARD CSF 585 HARDENER				
Section 8. Expos	ure controls/p	ersonal p	protection		
<b>Respiratory protection</b> : Respirator selection must be based on known or anticipated exposure levels, hazards of the product and the safe working limits of the selected respirator. workers are exposed to concentrations above the exposure limit, they must us				tor. If ust 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	1	Liquid.	
Color	4	Colorless.	
Odor	1	Amine-like.	
рН	1	Not applicable.	
Melting point	1	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	Closed cup: 80°C (176°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	:	0.98	
Solubility(ies)		Media	Result
oordonity(ies)		<mark>¢</mark> old water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	426°C (798.8°F)	
Decomposition temperature	:	Not available.	
Viscosity	:	Kinematic (40°C (104°F)):	<14 mm²/s (<14 cSt)
Viscosity	:	< 30 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.

## Section 10. Stability and reactivity

# Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides

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# Section 11. Toxicological information

#### Information on toxicological effects

**Acute toxicity** 

Product/ingredient name	Result	Species	Dose	Exposure
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	LD50 Dermal	Rat	2980 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Oral LD50 Dermal	Rat Rabbit	2885 mg/kg 1.28 g/kg	-
F	LD50 Dermal LD50 Oral	Rat Rat	1280 mg/kg 1200 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,4,6-tris (dimethylaminomethyl) phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days
Conclusion/Summary		•	•	•	·

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.

Respiratory Sensitization

#### Not available.

Skin

Eyes

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

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## Section 11. Toxicological information

Not available.	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxi	<u>city (single exposure)</u>
Not available.	
Specific target organ toxi	<u>city (repeated exposure)</u>
Not available.	
Aspiration hazard	
Not available.	
Information on the likely	: Not available.
routes of exposure	
Potential acute health effect	<u>ets</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: 🖉 auses severe burns. May be harmful in contact with skin.
Ingestion	: May be harmful if swallowed.
Symptoms related to the p	hysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:
	pain
	watering redness
Inhalation	: No specific data.
Skin contact	Adverse symptoms may include the following:
	pain or irritation
	redness
Ingestion	<ul><li>blistering may occur</li><li>Adverse symptoms may include the following:</li></ul>
ingestion	stomach pains
Dolavod and immodiato off	ects and also chronic effects from short and long term exposure
Conclusion/Summary	There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system.

l exposure limit may result d respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. 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.

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# Section 11. Toxicological information

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.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects
Not available.	
Comorol	No known aignifiaant offacta ar aritical bazarda

General	: No known significant effects or critical hazards.
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)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMAGUARD CSF 585 HARDENER Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-(2-aminomethylethoxy)- 2,4,6-tris(dimethylaminomethyl)phenol	2766.8 2885 1200	2865.4 2980 1280	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A

Other information

: Not available.

# Section 12. Ecological information

#### **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	EC50 15 mg/l	Algae	72 hours
2,4,6-tris (dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours

#### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	-	-	Not readily

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## Section 12. Ecological information

# Bioaccumulative potentialProduct/ingredient nameLogPowBCFPotential2.4,6-tris<br/>(dimethylaminomethyl)phenol0.219-Low

#### Mobility in soil

#### 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and
	cleaned thoroughly internally. 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	UN3066	UN3066	UN3066	UN3066
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	8	8	8	8
Packing group	III	Ш	III	III
Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

UN	: None identified.
Brazil	: None identified.
Risk number	: 80

## Section 14. Transport information

IMDG	: None identified.		
ΙΑΤΑ	: None identified.		

**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 bulk according : Not applicable. to IMO instruments

## Section 15. Regulatory information

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

## Section 16. Other information

<u>History</u>		
Date of previous issue	: 1/20	0/2022
Version	: 3 EHS	6
Key to abbreviations	Goc ADF Dan ATE BCF GHS IAT, IMD Log MAI 197 RID by F	<ul> <li>N = European Provisions concerning the International Carriage of Dangerous ods by Inland Waterway</li> <li>R = The European Agreement concerning the International Carriage of ogerous Goods by Road</li> <li>E = Acute Toxicity Estimate</li> <li>F = Bioconcentration Factor</li> <li>S = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>A = International Air Transport Association</li> <li>OG = International Maritime Dangerous Goods</li> <li>Pow = logarithm of the octanol/water partition coefficient</li> <li>RPOL = International Convention for the Prevention of Pollution From Ships,</li> <li>3 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>= The Regulations concerning the International Carriage of Dangerous Goods</li> </ul>
References		NT NBR 14725-4: 2014 IT - 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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# Section 16. Other information