# SAFETY DATA SHEET



Date of issue Version 7 27 August 2021

Section 1. Product and company identification

Product name : SIGMAGUARD CSF 585 HARDENER

Product code : 00219193
Other means of identification : Not available.

Product type : 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 Colombia Ltda

Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)

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

: FLAMMABLE LIQUIDS - Category 4
ACUTE TOXICITY (oral) - Category 5
ACUTE TOXICITY (dermal) - Category 5
SKIN CORROSION - Category 1C
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
AQUATIC HAZARD (ACUTE) - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity:

34.8%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal

toxicity: 34.8%

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### Section 2. Hazards identification

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 34.8%

### **GHS label elements**

**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.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

: Wear protective gloves, protective clothing and eve or face protection. Keep away **Prevention** 

from flames and hot surfaces. No smoking. Avoid release to the environment.

Avoid breathing vapor.

: IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Response

Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. 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.

Immediately call a POISON CENTER or doctor.

: Store in a well-ventilated place. Keep cool. **Storage** 

**Disposal** : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Other hazards which do not : None known.

result in classification

## Section 3. Composition/information on ingredients

Substance/mixture Mixture Other means of

identification

: Not available.

#### CAS number/other identifiers

**CAS** number Not applicable.

| Ingredient name   | %        | CAS number          |
|---|----------|---------------------|
| Poly[oxy(methyl-1,2-ethanediyl)], α-<br>(2-aminomethylethyl)-ω-(2-aminomethylethoxy)- | 60 - 100 | 9046-10-0 (n = 2-6) |
| 2,4,6-tris(dimethylaminomethyl)phenol   | 2 - <3   | 90-72-2             |

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|              |          |      |

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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 first aid 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 medical 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 effects

**Eye contact** : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

**Skin contact** : Causes severe burns. May be harmful in contact with skin. May cause an allergic

skin reaction.

: May be harmful if swallowed. Ingestion

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: 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.

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# Section 5. Fire-fighting measures

**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.

**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:

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.

#### Methods and materials for containment 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 noncombustible, 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. 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 nonsparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

# including any incompatibilities

Conditions for safe storage, : 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.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

None.

### Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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 measures**

#### **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.

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## Section 8. Exposure controls/personal protection

**Eye protection Skin protection Hand protection**  : Chemical splash goggles and face shield.

: 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

: Personal protective equipment for the body should be selected based on the task **Body protection** 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

**Appearance** 

**Physical state** : Liquid. Color : Colorless. Odor : Amine-like. pH Not applicable. **Melting point** : 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 : Not available.

(flammable) limits

: Not available. Vapor pressure Vapor density Not available.

**Relative density** 0.98

Solubility : Insoluble in the following materials: cold water.

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)

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## 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 nitrogen oxides

# Section 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

| Product/ingredient name   | Result                   | Species       | Dose                     | Exposure |
|---|--------------------------|---------------|--------------------------|----------|
| Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ - (2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)- |                          | Rat           | 2980 mg/kg               | -        |
| 2,4,6-tris<br>(dimethylaminomethyl)<br>phenol   | LD50 Oral<br>LD50 Dermal | Rat<br>Rabbit | 2885 mg/kg<br>1.28 g/kg  | -<br>-   |
| priorior  | LD50 Dermal<br>LD50 Oral | Rat<br>Rat    | 1280 mg/kg<br>1200 mg/kg | -<br>-   |

## 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<br>(dimethylaminomethyl)<br>phenol | Skin - Visible necrosis | Rabbit  | -     | 4 hours  | 7 days      |

### **Conclusion/Summary**

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

#### **Sensitization**

| Product/ingredient name                       | Route of exposure | Species    | Result      |
|---|-------------------|------------|-------------|
| 2,4,6-tris<br>(dimethylaminomethyl)<br>phenol | skin              | Guinea pig | Sensitizing |

### **Conclusion/Summary**

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## Section 11. Toxicological information

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

**Respiratory** : There are no data available on the mixture itself.

Mutagenicity
Not available.

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

<u>Carcinogenicity</u>

Not available.

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

**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)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

**Information on the likely**: Not available.

routes of exposure

Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes severe burns. May be harmful in contact with skin. May cause an allergic

skin reaction.

**Ingestion**: May be harmful if swallowed.

Symptoms related to the physical, 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

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains

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# Section 11. Toxicological information

#### 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. 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. 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.

**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 effects

Not available.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

| Product/ingredient name   | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapors)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|---|------------------|-------------------|--------------------------------|----------------------------------|--|
| SIGMAGUARD CSF 585 HARDENER   | 2766.8           | 2865.4            | N/A                            | N/A                              | N/A  |
| Poly[oxy(methyl-1,2-ethanediyl)], α-<br>(2-aminomethylethyl)-ω-(2-aminomethylethoxy)- | 2885             | 2980              | N/A                            | N/A                              | N/A  |
| 2,4,6-tris(dimethylaminomethyl)phenol   | 1200             | 1280              | N/A                            | N/A                              | N/A  |

Other information : Not available.

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|--------------|-------------|-----|

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# Section 12. Ecological information

### **Ecotoxicity**

| Product/ingredient name   | Result              | Species | Exposure |
|---|---------------------|---------|----------|
| $ \begin{array}{c} Poly[oxy(methyl-1,2-ethanediyl)],\\ \alpha\text{-}\\ \text{(2-aminomethylethyl)-}\omega\text{-(2-aminomethylethoxy)-} \end{array}$ | 3                   | Algae   | 72 hours |
| 2,4,6-tris<br>(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)], $\alpha$ - (2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)- |                   | -          | Not readily      |

#### **Bioaccumulative potential**

| Product/ingredient name     | LogPow | BCF | Potential |
|-----------------------------|--------|-----|-----------|
| <b>2</b> ,4,6-tris          | 0.219  | -   | low       |
| (dimethylaminomethyl)phenol |        |     |           |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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 contact with soil, waterways, drains and sewers.

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# Section 14. Transport information

|                             | UN              | Brazil (ANTT)   | IMDG            | IATA            |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| 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             | III             | III             | III             |
| Environmental hazards       | No.             | No.             | No.             | No.             |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. | Not applicable. |

#### **Additional information**

UN : None identified. : None identified. **Brazil** 

Risk number : 80

**IMDG** : None identified. **IATA** : 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

#### **History**

**Date of previous issue** 12/23/2020

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**EHS** 

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

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### Section 16. Other information

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** 

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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