# **SAFETY DATA SHEET**



Date of issue
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3 July 2020

Version 3

# Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMAWELD 165 BINDER
- : 153250L.42
- on : 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 Industrial do Brasil – Tintas e Vernizes Ltda</li> <li>Via Anhanguera KM 106, Bairro Sao Judas Tadeu</li> <li>Sumare / SP, Brasil</li> <li>55 19 2103-6000 (Recepção e Portaria)</li> </ul>
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: 0800 707 1767 / 0800 707 7022 – Empresa Suatrans Cotec 0800 14 8110 – CEATOX - Centro de Assistência Toxicológica

# Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Target organs	: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, the reproductive system, liver, heart, spleen, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 21.9% (Dermal), 5.3% (Inhalation)
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 27.5%

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# Section 2. Hazards identification

GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer.
Precautionary statements		
Prevention	:	Øbtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapor.
Response	:	Call a POISON CENTER or doctor if you feel unwell. IF exposed or concerned: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	:	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

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

## **CAS number/other identifiers**

CAS number : Not applicable.		
Ingredient name	%	CAS number
ethanol Isopropyl alcohol Silicic acid, ethyl ester tetraethyl silicate 1-methoxy-2-propanol sulphuric acid	30 - <60 20 - <30 20 - <30 5 - <7 5 - <7 0.2 - <0.5	64-17-5 67-63-0 11099-06-2 78-10-4 107-98-2 7664-93-9

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

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 breathin 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.	d
Ingestion	If swallowed, seek medical advice immediately and show this container or label Keep person warm and at rest. Do NOT induce vomiting.	i.
Indication of immediate med	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. is suspected that fumes are still present, the rescuer should wear an appropriat mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothin thoroughly with water before removing it, or wear gloves.	te n
Potential acute health effects		
Eye contact	Causes serious eye irritation.	
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness dizziness.	or
Skin contact	Defatting to the skin. May cause skin dryness and irritation.	
Ingestion	Can cause central nervous system (CNS) depression.	

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	: Fighly flammable liquid and vapor. 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides 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. 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.

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# Section 6. Accidental release measures

Personal precautions, protect	ctive 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for 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 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). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
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# Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities	: Do not store above the following temperature: 50°C (122°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 limits**

Ingredient name	Exposure limits		
ethanol	Minsitry of Labor and Employement (Brazil, 11/2001). TWA: 1480 mg/m <sup>3</sup> 8 hours. TWA: 780 ppm 8 hours.		
Isopropyl alcohol	Minsitry of Labor and Employement (Brazil, 11/2001). Absorbed through skin. TWA: 765 mg/m³ 8 hours.		
tetraethyl silicate	TWA: 310 ppm 8 hours. <b>ACGIH TLV (United States, 3/2019).</b> TWA: 85 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.		
1-methoxy-2-propanol	ACGIH TLV (United States, 3/2019). STEL: 369 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.		
sulphuric acid	ACGIH TLV (United States, 3/2019). TWA: 0.2 mg/m <sup>3</sup> 8 hours. Form: Thoracic fraction		
procedures atmosp of the v protecti standar	: 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.		
controls ventilati contam	y with adequate ventilation. Use process enclosures, local exhaust on or other engineering controls to keep worker exposure to airborne inants below any recommended or statutory limits. The engineering controls ed to keep gas, vapor or dust concentrations below any lower explosive		

# Environmental exposure controls Limits. Use explosion-proof ventilation equipment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Individual protection measures

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Section 8. Expos	sure controls/personal protection
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection <u>Skin protection</u>	: 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	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: butyl rubber, nitrile 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>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.</li> </ul>
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	: Not available.
Odor	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 13°C (55.4°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.

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# Section 9. Physical and chemical properties

Relative density	: 0.92
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)

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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	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

# Section 11. Toxicological information

## Information on toxicological effects

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Product/ingredient name	Result	Species	Dose	Exposure
<mark>∉t</mark> hanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
Silicic acid, ethyl ester	LD50 Oral	Rat	6270 mg/kg	-
tetraethyl silicate	LC50 Inhalation Dusts and mists	Rat	10 to 16 mg/l	4 hours
-	LD50 Dermal	Rabbit	5.878 g/kg	-
	LD50 Oral	Rat	6270 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
sulphuric acid	LD50 Oral	Rat	2140 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion Not available.

# Conclusion/Summary

Skin

: There are no data available on the mixture itself.

# Section 11. Toxicological information

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Eyes	: There are no data available on the mixture itself.	
Respiratory	: There are no data available on the mixture itself.	
Sensitization		
Not available.		
Conclusion/Summary		
Skin	: There are no data available on the mixture itself.	
Respiratory	: There are no data available on the mixture itself.	
<b>Mutagenicity</b>		
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
sulphuric acid	-	3 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	Category	Route of exposure	Target organs
sopropyl alcohol tetraethyl silicate	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects

## Specific target organ toxicity (repeated exposure)

Not available.

## Target organs

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, the reproductive system, liver, heart, spleen, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

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# Section 11. Toxicological information

## Aspiration hazard

Name	Result
Isopropyl alcohol	ASPIRATION HAZARD - Category 2

Information on the likely	ł	Not available.
routes of exposure		
Potential acute health effects		
Eye contact	÷	Causes serious eye irritation.
Inhalation	1	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	1	Defatting to the skin. May cause skin dryness and irritation.
Ingestion	:	Can cause central nervous system (CNS) depression.
Symptoms related to the phy	sic	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	:	Adverse symptoms may include the following: irritation dryness cracking
Ingestion	:	No specific data.
Delayed and immediate office	to	and also chronic offects from short and long form expessive

## 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

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# Section 11. Toxicological information

	-
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	ects
Not available.	
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.

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- **Developmental effects** : No known significant effects or critical hazards.
- Fertility effects : 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)
GMAWELD 165 BINDER	N/A	N/A	N/A	198.5	N/A
ethanol	7000	17100	N/A	124.7	N/A
Isopropyl alcohol	5045	12800	N/A	72.6	N/A
Silicic acid, ethyl ester	6270	N/A	N/A	N/A	N/A
tetraethyl silicate	6270	5878	N/A	11	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
sulphuric acid	2140	N/A	N/A	N/A	N/A

## **Other information**

: Not available.

# Section 12. Ecological information

## **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
ethanol Isopropyl alcohol 1-methoxy-2-propanol	Acute EC50 7640 mg/l Fresh water Acute EC50 10100 mg/l Fresh water Acute LC50 23300 mg/l	Daphnia - Daphnia magna Daphnia - Daphnia magna Daphnia	48 hours 48 hours 48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours

## Persistence/degradability

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Product name SIGMAW	ELD 165 BINDER			
Section 12. Ecolo	ogical informati	on		
Product/ingredient name	Aquatic half-life	Photolysis	Biode	gradability
ethanol	-	-	Readi	ly

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.31	-	low
Isopropyl alcohol	0.05		low

## 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.

# Section 14. Transport information

	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

## **Additional information**

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## Section 14. Transport information

Brazil	: None identified.
<b>Risk number</b>	: 33
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.

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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	: 3/30/2018
Version	: 3
Prepared by	: 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> <li>UN = United Nations</li> </ul>
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

## <u>Disclaimer</u>

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.

English (US) Brazil
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