# **SAFETY DATA SHEET**



Date of issue 9 C	October 2024
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Version 6

### Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : NOVAGUARD 615/650 HARDENER
- : 00330614
- : Not available.
- : Liquid.

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

#### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason	
Not applicable.		

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

### Section 2. Hazards identification

Classification of the	: ACUTE TOXICITY (oral) - Category 4
substance or mixture	ACUTE TOXICITY (dermal) - Category 4
	SKIN CORROSION - Category 1
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	TOXIC TO REPRODUCTION - Category 2
	AQUATIC HAZARD (LONG-TERM) - Category 2
Target organs	: Contains material which causes damage to the following organs: blood, liver, heart, brain.
	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eyes, central nervous system (CNS).

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Section 2. Hazards identification						
		Percentage of the mixture consistin 7.5% Percentage of the mixture consistin toxicity: 9.5%			-	
		Percentage of the mixture consistin aquatic environment: 41.9%	ng of ingredient(s) of un	known hazards	to the	
GHS label elements						
Hazard pictograms	:					
Signal word	:	Danger	•			
Hazard statements	:	Farmful if swallowed or in contact of Causes severe skin burns and eye May cause an allergic skin reaction Suspected of damaging fertility or to Toxic to aquatic life with long lastin	damage. ո. he unborn child.			
Precautionary statements			0			
Prevention	:	Obtain special instructions before u and eye or face protection. Avoid r vapor. Do not eat, drink or smoke handling.	elease to the environme	ent. Avoid brea	athing	
Response	:	Collect spillage. IF exposed or cor INHALED: Immediately call a POIS Immediately call a POISON CENT vomiting. IF ON SKIN (or hair): Ta Rinse skin with water. Immediately irritation or rash occurs: Get medic clothing before reuse. IF IN EYES Remove contact lenses, if present call a POISON CENTER or doctor.	SON CENTER or doctor ER or doctor. Rinse mo ke off immediately all co y call a POISON CENTE al advice or attention. V : Rinse cautiously with v and easy to do. Continu	IF SWALLOW outh. Do NOT in ontaminated clo R or doctor. If Vash contamin vater for severa	VED: nduce othing. f skin ated al minutes.	
Storage	:	Not applicable.				
Disposal	:	Dispose of contents and container and international regulations.	in accordance with all lo	ocal, regional, r	national	
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.

# Section 3. Composition/information on ingredients

%	CAS number
30 - <60	39423-51-3
20 - <30	2855-13-2
12.5 - <15	100-51-6
7 - <10	SUB114180
3 - <5	90-72-2
1 - <2	69-72-7
	30 - <60 20 - <30 12.5 - <15 7 - <10 3 - <5

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	st 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 me	lical attention and special treatment needed, if necessary
Notes to physician Specific treatments	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.</li> </ul>
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	<u>s</u>
Eye contact	: Causes serious eye damage.
Inhalation	: 📈 known significant effects or critical hazards.
Skin contact	: Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.

See toxicological information (Section 11)

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### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides 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.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# Section 6. Accidental release measures

Personal precautions, prote	cti	ve 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. 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".
		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 o	on	tainment 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 6. Accidental release measures

# Section 7. Handling and storage

Precautions for safe handling	hi W A bi n ve aj	Ut on appropriate personal protective equipment (see Section 8). Persons with a istory of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have een read and understood. Do not get in eyes or on skin or clothing. Do not reathe vapor or mist. Do not ingest. Avoid release to the environment. If during ormal use the material presents a respiratory hazard, use only with adequate entilation or wear appropriate respirator. Keep in the original container or an pproved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not euse container.
Conditions for safe storage, including any incompatibilities	a sı (s cl ca	tore between the following temperatures: 0 to 35°C (32 to 95°F). Store in ccordance with local regulations. Store in original container protected from direct unlight 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 losed and sealed until ready for use. Containers that have been opened must be arefully resealed and kept upright to prevent leakage. Do not store in unlabeled ontainers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

Control parameters	
Occupational exposure limits	
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	■ Fuser 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	<u>5</u>
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection Skin protection	Chemical splash goggles and face shield.

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### Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	<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	<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

<u>Appearance</u>			
Physical state	1	Liquid.	
Color	4	Clear.	
Odor	4	Amine-like.	
рН	4	Not applicable.	
Melting point	1	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	Closed cup: 114°C (237.2	°F)
Evaporation rate	1	Not available.	
Flammability (solid, gas)	:	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Vapor pressure	1	Not available.	
Vapor density	1	Not available.	
Relative density	1	0.98	
Solubility/icc)		Media	Result
Solubility(ies)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	1	Not available.	
Decomposition temperature	:	Not available.	

English (US)

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Section 9. Physic	al and chemical proper	ties		
Viscosity	: Øynamic (room temperature): Not Kinematic (room temperature): No Kinematic (40°C (104°F)): >21 mn	ot available.		
Viscosity	: 30 - <40 s (ISO 6mm)			
Section 10. Stabi	lity and reactivity			
Reactivity	: No specific test data related to rea	activity available for this p	product or its ingr	edients.
Chemical stability	: The product is stable.			
Possibility of hazardous reactions	: Under normal conditions of storag	e and use, hazardous re	actions will not o	ccur.
Conditions to avoid	: When exposed to high temperatur products.	es may produce hazardo	ous decompositio	on
Incompatible materials	: Keep away from the following mat oxidizing agents, strong alkalis, str		exothermic reacti	ons:
Hazardous decomposition products	: Depending on conditions, decomp carbon oxides nitrogen oxides	position products may inc	clude the followin	g material

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Propylidynetrimethanol, propoxylated, reaction products with ammonia	LD50 Dermal	Rabbit	0.4 g/kg	-
	LD50 Oral	Rat	0.22 g/kg	-
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	LC50 Inhalation Dusts and mists	Rat	>5.01 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1030 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
-	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
2,4,6-tris	LD50 Dermal	Rat	1280 mg/kg	-
(dimethylaminomethyl)				
phenol				
	LD50 Oral	Rat	1200 mg/kg	-
salicylic acid	LD50 Oral	Rat	0.891 g/kg	-

Conclusion/Summary Irritation/Corrosion

: There are no data available on the mixture itself.

Not available.
Conclusion/Summe

<u>Conclusion/Summary</u>	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.

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Respiratory	: There are no d	ata available on the	e mixture itself.		
Sensitization					
Product/ingredient name	Route of exposure	Species	Result		
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	skin	Guinea pig	Sensitizing		
Conclusion/Summary			·		
Skin	: There are no d	ata available on the	e mixture itself.		
Respiratory Mutagenicity Not available.	: There are no d	ata available on the	e mixture itself.		
Conclusion/Summary Carcinogenicity Not available.	: There are no d	ata available on the	e mixture itself.		
Conclusion/Summary Reproductive toxicity Not available.	: There are no d	ata available on the	e mixture itself.		
Conclusion/Summary Teratogenicity Not available.	: There are no d	ata available on the	e mixture itself.		
Conclusion/Summary	There are no d	ata available on the	e mixture itself.		
<mark>Specific target organ toxici</mark> Not available.					
Specific target organ toxici	ty (repeated expos	sure)			
Not available.					
Target organs	brain.		amage to the following or		
			se damage to the followin al nervous system (CNS).		/s, uppe
Aspiration hazard					
Name			Result		
benzyl alcohol			ASPIRATION HAZ	ARD - Category	2

routes of exposure	i	Not avallable.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	÷	No known significant effects or critical hazards.

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# Section 11. Toxicological information

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Skin contact	<ul> <li>Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.</li> </ul>
Ingestion	: Harmful if swallowed.
Symptoms related to t	he physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

#### 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 to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.
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	

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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.						
Potential chronic health effe	Potential chronic health effects						
Not available.							
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels						

		to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.

**Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

#### 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)
NOVAGUARD 615/650 HARDENER Propylidynetrimethanol, propoxylated, reaction products with ammonia	710.1 500	1561.2 1100	N/A N/A	N/A N/A	N/A N/A
3-aminomethyl-3,5,5-trimethylcyclohexylamine benzyl alcohol 2,4,6-tris(dimethylaminomethyl)phenol salicylic acid	1030 1200 1200 891	2500 2500 1280 N/A	N/A N/A N/A 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
2,4,6-tris (dimethylaminomethyl)phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
salicylic acid	Acute EC50 1147.57 mg/l Fresh water	Daphnia - <i>Daphnia longispina -</i> Neonate	48 hours
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - <i>Daphnia magna -</i> Neonate	21 days

#### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
(dimethylaminomethyl)phenol		4 % - Not readily - 28 days	-	-

English (US)	Colombia	10/13

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### Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
penzyl alcohol 2,4,6-tris (dimethylaminomethyl)phenol	-	-	Readily Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Propylidynetrimethanol, propoxylated, reaction products with ammonia	-1.13	-	Low
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	0.99	-	Low
benzyl alcohol	0.87	-	Low
(dimethylaminomethyl)phenol		-	Low
salicylic acid	2.21 to 2.26	-	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. 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	II	II	II	II
English (US) Colombia 11/				

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# Section 14. Transport information

	-			
Environmental	Yes. The	Yes. The	Yes.	Yes. The
hazards	environmentally	environmentally		environmentally
	hazardous substance	hazardous substance		hazardous substance
	mark is not required.	mark is not required.		mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Polyoxy propylene diamine)	Not applicable.

#### **Additional information**

UN	: None identified.		
Brazil	: None identified.		
<b>Risk number</b>	: 80		
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.		
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.		
Special precaution	ons for user : <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.		
Transport in bulk to IMO instrumen	according : Not applicable. Its		

# 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	:	9/12/2022
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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 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

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### Section 16. Other information

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.