SAFETY DATA SHEET



Date of issue 3 June 202

Version 6.01

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMARINE 24 GREY GREEN
- : 00254323
- : Not available.
 - : Liquid.

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

Identified uses

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	 PPG Industries 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 3 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Target organs	 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, lungs, upper respiratory tract, skin, eyes, central nervous system (CNS).
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 14%

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Section 2. Hazards identification

GHS label elements Hazard pictograms		
Signal word	Danger	
Hazard statements	Flammable liquid and vapor. May cause drowsiness or dizziness. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS)) Harmful to aquatic life. Toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	Obtain special instructions before use. Wear protective gloves, protective clothin and 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 release to the environment. Do not breathe vapor. Do ne eat, drink or smoke when using this product.	t
Response	Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell.	
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 identification	: Not available.

CAS number/other identifiers

CAS number : Not applicable.		
Ingredient name	%	CAS number
Maphtha (petroleum), hydrodesulfurized heavy titanium dioxide trizinc bis(orthophosphate) calcium bis(2-ethylhexanoate) 2-ethylhexanoic acid, zirconium salt	20 - <30 1 - <2 1 - <2 0.5 - <1 0.2 - <0.5	64742-82-1 13463-67-7 7779-90-0 136-51-6 22464-99-9

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.

Section 3. Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

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 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	dical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large
Specific treatments	: quantities have been ingested or inhaled.
	No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Potential acute health effect	ts
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
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 ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: 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. 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 phosphorus oxides metal oxide/oxides

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Section 5. Fire-fighting measures

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
Ŭ	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. 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,

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Small spill
 Stop leak if without risk. Move containers from spill area. 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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. 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.

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Section 7. H	landling	and sto	rage			
		Use explosic equipment. electrostatic	n-proof electrical (ve Use only non-sparkin	arks, open flame or an ntilating, lighting and m g tools. Take precautio ontainers retain produc er.	aterial handling) onary measures	against
		contaminate avoid the risl containers of	d with the product ma ks of fires, all contam r in metal containers puld be removed fron	baper wipes and protec ay spontaneously self-ig inated materials should with tight-fitting, self-clo n the workplace at the e	nite some hours be stored in pur sing lids. Contar	later. To pose-built ninated
Conditions for safe including any incompatibilities	e storage, :	accordance in original co area, away fi locked up. E container tigl opened mus store in unla	with local regulations ntainer protected fror om incompatible ma liminate all ignition s ntly closed and seale t be carefully reseale peled containers. Us	eratures: 0 to 35°C (32 Store in a segregated n direct sunlight in a dr terials (see Section 10) ources. Separate from d until ready for use. C d and kept upright to pr e appropriate containm or incompatible material	and approved a y, cool and well- and food and dr oxidizing materi ontainers that ha event leakage. I ent to avoid envi	rea. Store ventilated ink. Store als. Keep ave been Do not ironmental

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits
Manium dioxide		ACGIH TLV (United States, 7/2023). TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles
Recommended monitoring procedures		riate monitoring standards. Reference to hods for the determination of hazardous
Appropriate engineering controls	contaminants below any recommende	ols to keep worker exposure to airborne ed or statutory limits. The engineering controls concentrations below any lower explosive
Environmental exposure controls	: Emissions from ventilation or work pro	ocess equipment should be checked to ensure environmental protection legislation. In some neering modifications to the process
Individual protection measure	<u>s</u>	
Hygiene measures	before eating, smoking and using the Appropriate techniques should be use	bughly after handling chemical products, lavatory and at the end of the working period. ed to remove potentially contaminated clothing. eusing. Ensure that eyewash stations and station location.
Eye protection	: Safety glasses with side shields.	

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Section 8. Exposure controls/personal protection

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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	: F ∕or prolonged or repeated handling, use the following type of gloves:
	Recommended: Chloroprene, nitrile rubber, 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. 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	 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

<u>Appearance</u>							
Physical state	1	Liquid.	iquid.				
Color	4	Green.	breen.				
Odor	1	Aromatic.					
рН	1	Not applicable.					
Melting point	1	Not available.					
Boiling point	1	>37.78°C (>100°F)					
Flash point	1	Closed cup: 38.5°C ((101.3°F)				
Evaporation rate	:	Not available.	Not available.				
Flammability (solid, gas)	:	Not available.	Not available.				
Lower and upper explosive (flammable) limits	1	Not available.	Not available.				
Vapor pressure	1	Not available.					
Vapor density	:	Not available.	Not available.				
Relative density	:	1.27					
		Media	Result				
Solubility(ies)	1	cold water	Not soluble				

English (US)

Colombia

Section 9. Physical and chemical properties

Partition coefficient: n- octanol/water	1	Not applicable.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredie	ents.
Chemical stability	The product is stable.	
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur	r.
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 material carbon oxides phosphorus oxides metal oxide/oxides	aterial

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum), hydrodesulfurized heavy	LD50 Oral	Rat	>5000 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and mists	Rat	>5.7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
2-ethylhexanoic acid,	LD50 Dermal	Rabbit	>5 g/kg	-
zirconium salt			0.0	
	LD50 Oral	Rat	>5 g/kg	-
Conclusion/Summary	: There are no data available on	the mixture i	tself.	
rritation/Corrosion				
Netevelleble				

Not available.

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	

Not available.

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Conclusion/Summary	
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.

Carcinogenicity

Not available.

Conclusion/Summary : T

: There are no data available on the mixture itself.

Classification

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-
carbon black	-	2B	

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Reproductive toxicity

Not available.

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

Teratogenicity

Not available.

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

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 1		central nervous system (CNS)

Target organs

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, lungs, upper respiratory tract, skin, eyes, central nervous system (CNS).

Aspiration hazard

Name	Result
Naphtha (petroleum), hydrodesulfurized heavy	ASPIRATION HAZARD - Category 1

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Section 11. Toxicological information

Information on the likely routes of exposure	:	Not available.
Potential acute health effects	5	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	:	Defatting to the skin. May cause skin dryness and irritation.
Ingestion	1	Can cause central nervous system (CNS) depression.
Symptoms related to the phy	si	cal, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effect	:ts	and also chronic effects from short and long term exposure
Conclusion/Summary	:	There are no data available on the mixture itself. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2

Conclusion/Summary	There are no data available on the mixture itself. For many products, hoz is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Carbon black is utilized as a raw material in many liquid coating formulations. In this case, the carbon black particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of carbon black when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Most carbon blacks contain trace quantities of polyaromatic hydrocarbons (PAH). PAHs are not expected to be released in biological fluids and are therefore not likely available for biological activity. Exposure to component
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English (US) Colombia	
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Section 11. T	oxicological	linformation			
	may resu system in system. weaknes cause so evidence constant noise alc damage. account, compone	vapor concentrations in ex- ult in adverse health effect rritation and adverse effect Symptoms and signs inc as, drowsiness and, in ext one of the above effects l to that repeated exposure to be that repeated exposure to loud noise can cause gre one. If splashed in the eye . Ingestion may cause na , where known, delayed a ents from short-term and f exposure and eye conta	ts such as mucous mer cts on the kidneys, liver lude headache, dizzines reme cases, loss of cor by absorption through th to organic solvent vapor eater hearing loss than es, the liquid may cause susea, diarrhea and von nd immediate effects ar long-term exposure by	mbrane and resp and central nerv ss, fatigue, musc nsciousness. So ne skin. There is rs in combination expected from ex e irritation and re niting. This takes and also chronic e	viratory yous sular lvents may some with xposure to versible s into ffects of
Short term exposure	2				
Potential immediate effects	e : There ar	e no data available on the	e mixture itself.		
Potential delayed e		e no data available on the	e mixture itself.		
Potential immediate	e : There ar	e no data available on the	e mixture itself.		
Potential delayed e	ffects : There ar	e no data available on the	e mixture itself.		
Potential chronic hea	alth effects				
Not available.					
General		damage to organs throug d contact can defat the sk			
Carcinogenicity	: No know	n significant effects or cri	tical hazards.		

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide trizinc bis(orthophosphate)	Acute LC50 >100 mg/l Fresh water Acute LC50 0.112 mg/l Chronic NOEC 0.026 mg/l	Daphnia - <i>Daphnia magna</i> Fish Fish	48 hours 96 hours 30 days
2-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours

Persistence/degradability

		1
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Section 12. Ecological information

Not available.

Bioaccumulative potential

Not available.

<u>Mobility in soil</u>		
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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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

	UN	Brazil (ANTT)	IMDG	IATA
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	III	III		III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	Naphtha (petroleum), hydrodesulfurized heavy)	Not applicable.

Additional information

UN

: None identified.

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Section 14. Transport information

Brazil	: None identified.
Risk number	: 30
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 precautio	ons for user . Transport within user's premises: always transport in closed containers that are

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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	: 8/9/2023
Version	: 6.01 EHS
Key to abbreviations	 EHS 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
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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Section 16. Other information