SAFETY DATA SHEET



1/15

Date of issue	14 May 2024

Version 1

Section 1. Product and company identification

Product name	:	SIGMAGUARD 720 BASE GREY
Product code	1	000001202417
Other means of identification	:	00171570
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 Industrial do Brasil – Tintas e Vernizes Ltda Via Anhanguera KM 106, Bairro Sao Judas Tadeu Sumare / SP, Brasil 55 19 2103-6000 (Recepção e Portaria)
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	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	AQUATIC HAZARD (ACUTE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 1
Target organs	: Contains material which causes damage to the following organs: liver, spleen, brain, skin, bone marrow, central nervous system (CNS).
	Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, cardiovascular system, upper respiratory tract, immune system, ears, eye, lens or cornea.

Code 000001202417 Product name SIGMAGUA	RD 720 BASE GREY	Date of issue	14 May 2024	Version	1
Section 2. Hazards identification					
	Percentage o toxicity: 82.5%		ting of ingredient(s) of ι	unknown acute in	halation
		f the mixture consis onment: 54.4%	ting of ingredient(s) of u	unknown hazards	to the
GHS label elements					
Hazard pictograms					
Signal word	: Danger	•	•	•	
Hazard statements	Causes serio Harmful if inh May cause ca Suspected of May cause da	rritation. n allergic skin reaction us eye damage. aled. ancer. damaging fertility o	r the unborn child. ough prolonged or repe	ated exposure.	
Precautionary statements					
Prevention	and eye or fa flames and o ventilating or	ce protection. Keep ther ignition sources lighting equipment. ges. Avoid release	e use. Wear protective away from heat, hot su b No smoking. Use exp Use non-sparking tools to the environment. Do	irfaces, sparks, o plosion-proof elec s. Take action to	pen trical, prevent
Response	INHALED: Ca contaminated water. If skin Rinse cautiou	all a POISON CENT I clothing and wash irritation or rash oc isly with water for se	oncerned: Get medical a ER or doctor if you feel it before reuse. IF ON s curs: Get medical advic everal minutes. Remove Immediately call a PO	unwell. Take off SKIN: Wash with e or attention. IF contact lenses, i	plenty of IN EYES: if present
Storage	: Store in a we	ll-ventilated place. K	(eep cool.		
Disposal		ontents and containe onal regulations.	er in accordance with all	l local, regional, n	ational
Other hazards which do not result in classification	: Causes diges cause irritatio		olonged or repeated cor	ntact may dry skii	n and

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: 00171570

CAS number/othe	r identifiers
------------------------	---------------

CAS number

: Not applicable.

English (US)

Brazil

1

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
crystalline silica, respirable powder (>10 microns)	30 - <60	14808-60-7
bis-[4-(2,3-epoxipropoxi)phenyl]propane	20 - <30	1675-54-3
xylene	5 - <7	1330-20-7
crystalline silica, respirable powder (<10 microns)	3 - <5	14808-60-7
titanium dioxide	3 - <5	13463-67-7
Epoxy Resin (700 <mw<=1100)< td=""><td>3 - <5</td><td>25036-25-3</td></mw<=1100)<>	3 - <5	25036-25-3
4-nonylphenol, branched	2 - <3	84852-15-3
Talc , not containing asbestiform fibres	2 - <3	14807-96-6
2-methylpropan-1-ol	2 - <3	78-83-1
12-hydroxyoctadecanoic acid, reaction products with	1 - <2	220926-97-6
1,3-benzenedimethanamine and hexamethylenediamine		
ethylbenzene	1 - <2	100-41-4

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 firs	t a	id measures	
Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.	
Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.	
Skin contact	1	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 med	ica	l attention and special treatment needed, if necessary	
Notes to physician Specific treatments		In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.	
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
Potential acute health effects			
Eye contact Inhalation Skin contact Ingestion	:	Causes serious eye damage. Harmful if inhaled. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Corrosive to the digestive tract. Causes burns.	

See toxicological information (Section 11)

SIGMAGUARD 720 BASE GREY

14 May 2024

1

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 very 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 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.

Date of issue

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. Collect spillage.
Methods and materials for co	ntainment 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 mon up if water-soluble

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.

14 May 2024

1

Section 6. Accidental release measures

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). Persons with a history 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 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. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
crystalline silica, respirable powder (>10 microns)	ACGIH TLV (United States, 7/2023). [Silica, crystalline] TWA: 0.025 mg/m ³ 8 hours. Form: Respirable
xylene	Ministry of Labor and Employment (Brazil, 11/2001). [Xylenes (o-, m-, p- isomers)] TWA: 340 mg/m ³ 8 hours. TWA: 78 ppm 8 hours.
	English (US) Brazil 5/15

	IRD 720 BASE GREY	protection	
crystalline silica, respirable p		ACGIH TLV (Uni crystalline] TWA: 0.025 mg	ted States, 7/2023). [Silio /m³ 8 hours. Form:
titanium dioxide			ted States, 7/2023). ³ 8 hours. Form: respirable
Talc , not containing asbesti	form fibres	ACGIH TLV (Uni	ted States, 7/2023). 3 hours. Form: Respirable
2-methylpropan-1-ol		Ministry of Labo 11/2001). TWA: 115 mg/n	or and Employment (Braz n ³ 8 hours.
12-hydroxyoctadecanoic acio 1,3-benzenedimethanamine			ted States). ⁹ Form: Inhalable particle (inhalable dust) Form:
ethylbenzene		Ministry of Labo 11/2001). TWA: 340 mg/n TWA: 78 ppm 8	
Recommended monitoring procedures	: Reference should be made to a national guidance documents f substances will also be require	or methods for the deterr	
Appropriate engineering controls Environmental exposure controls	 Use only with adequate ventilation or other engineering contaminants below any recomalso need to keep gas, vapor or limits. Use explosion-proof ver Emissions from ventilation or we they comply with the requirement 	controls to keep worker mended or statutory limit r dust concentrations bel ntilation equipment. ork process equipment s	exposure to airborne s. The engineering contro ow any lower explosive hould be checked to ensu
	cases, fume scrubbers, filters of equipment will be necessary to	or engineering modification	ons to the process
dividual protection measu Hygiene measures	res : Wash hands, forearms and fac	e thoroughly after handli	ng chemical products
	before eating, smoking and usi Appropriate techniques should Contaminated work clothing sh contaminated clothing before re showers are close to the works	ng the lavatory and at the be used to remove poter ould not be allowed out o eusing. Ensure that eyew tation location.	e end of the working period tially contaminated clothin f the workplace. Wash
Eye protection <u>Skin protection</u>	: Chemical splash goggles and f	ace shield.	
Hand protection	: Chemical-resistant, impervious be worn at all times when hand this is necessary. Considering check during use that the glove should be noted that the time to different for different glove mar several substances, the protect estimated.	lling chemical products if the parameters specified as are still retaining their p b breakthrough for any gl nufacturers. In the case of	a risk assessment indicat l by the glove manufacture protective properties. It ove material may be of mixtures, consisting of
		English (US) Bra	

		1	

Gloves	: butyl rubber	
Body protection Other skin protection	 Personal protective equipment for the body should be selected based on the table 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 electric wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Appropriate footwear and any additional skin protection measures should be 	
Other skin protection	selected based on the task being performed and the risks involved and should approved by a specialist before handling this product.	ре
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 t necessary.	

Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	1	Liquid.	
Color	4	Gray.	
Odor	:	Aromatic.	
рН	:	Not applicable.	
Melting point	:	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	Closed cup: 28°C (82.4°F)	
Evaporation rate	1	Not available.	
Flammability (solid, gas)	:	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Relative density	;	1.58	
Solubility(ies)		Media F	Result
Solubility(les)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	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 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 metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
5	LD50 Oral	Rat	4.3 g/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	-
Epoxy Resin (700 <mw <=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 mg/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
and hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

English (US)

1

Section 11. Toxicological information

Product/ingredient name	Result		Sp	oecies	Score	I	Exposure	Observation		
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant		Ra	abbit	-	2	24 hours	-		
F	Eyes - Rec conjunctiva		he Ra	abbit	0.4	2	24 hours	-		
	Skin - Ede		Ra	abbit	0.5	4	hours	-		
	Skin - Eryt	hema/Es	char Ra	abbit	0.8	4	hours	-		
	Skin - Mild			abbit	-		hours	-		
xylene	Skin - Moo	lerate irrit	ant Ra	abbit	-		4 hours 500	-		
4-nonylphenol, branched	Skin - Eryt	hema/Es	char Ra	abbit	4	-	ng	-		
Conclusion/Summary						-				
Skin	: There a	re no data	a available	on the mi	xture itself					
Eyes			a available							
Respiratory	: There a	re no data	a available	on the mi	xture itself					
Sensitization										
Product/ingredient name	Route of	S	pecies			Result				
_	exposure									
bis-[4-(2,3-epoxipropoxi)	skin									
phenyl]propane										
Conclusion/Summary										
Skin	: There a	: There are no data available on the mixture itself.								
Respiratory	: There a	: There are no data available on the mixture itself.								
Mutagenicity										
Not available.										
Conclusion/Summary	: There a	re no data	a available	on the mi	xture itself					
<u>Carcinogenicity</u>						-				
Not available.										
Conclusion/Summary	: There a	re no data	a available	on the mi	xture itself					
Classification										
Product/ingredient name	OSHA	IARC	NTP							
crystalline silica, respirable	e +	1	Known	to be a hu	ıman carci	inogen.				
powder (>10 microns)										
bis-[4-(2,3-epoxipropoxi)	-	3	-							
phenyl]propane xylene		3								
crystalline silica, respirable	- +	1	Known	to be a hu	ıman carci	inoaen				
powder (<10 microns)		·								
titanium dioxide	-	2B	-							
ethylbenzene	-	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: -

English (US)

Brazil

1

Section 11. Toxicological information

Reproductive toxicity

Not available.

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

<u>Teratogenicity</u>

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
xylene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns) 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 1 Category 2	inhalation inhalation	- lungs
ethylbenzene	Category 2	-	hearing organs

Target organs

: Contains material which causes damage to the following organs: liver, spleen, brain, skin, bone marrow, central nervous system (CNS). Contains material which may cause damage to the following organs: blood, kidneys, lungs, the paper upper the reproductive system cardiovascular system.

lungs, the nervous system, the reproductive system, cardiovascular system, upper respiratory tract, immune system, ears, eye, lens or cornea.

Aspiration hazard

Name	Result
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	1	Causes serious eye damage.
Inhalation	1	Harmful if inhaled.
Skin contact	:	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	Corrosive to the digestive tract. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

	English (US)	Brazil

10/15

1

Section 11. Toxicological information

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 dryness cracking 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. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. For many products, TiO2 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). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in 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.

English (US)

Brazil

11/15

Section 11. Toxicological information

Long term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

	or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
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)
SIGMAGUARD 720 BASE GREY	7497.8	6145.0	N/A	28.1	3.4
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	2500	2500	N/A	N/A	3.56
ethylbenzene	3500	17800	N/A	17.8	1.5

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
is-[4-(2,3-epoxipropoxi) henyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
511	Chronic NOEC 0.3 mg/l	Daphnia	21 days
tanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
51 5	Acute LC50 0.221 mg/l	Fish	96 hours
-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2-hydroxyoctadecanoic	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella	72 hours
cid, reaction products with	5	subcapitata (microalgae)	
,3-benzenedimethanamine			
,-			
		English (US) Brazil	

Section 12. Ecological information

and hexamethylenediamine			
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine ethylbenzene	OECD 301D Ready Biodegradability - Closed Bottle Test -		eadily - 29 days dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane xylene ethylbenzene	-		- - -		Not rea Readily Readily	y

Bioaccumulative potential

7.4 to 18.5 251.19	Low
-	Low Low High Low
- - 7	9.43

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 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

	Brazil (ANTT)	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	=	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

Additional 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 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

Brazil

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	: No previous validation
Version	: 1
Prepared by	: 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
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.