SAFETY DATA SHEET



1/15

Date of issue	18 May 2021
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Version 5

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMACOVER 410 BR AMARELO OURO 10YR 8/14
- : 4100013L.20
- 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 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 substance or mixture	 Image: AMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 2

English (US)	Brazil	1

Section 2. Hazar	Is identification
Target organs	: Contains material which causes damage to the following organs: liver, spleen, brain, bone marrow. Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, upper respiratory tract, immune system, skin, central nervous system (CNS), ears, eye, lens or cornea.
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 48.7%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 56.8%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 85.1%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 59.8%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Fammable liquid and vapor. May be harmful if swallowed or in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Suspected of causing genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Øbtain special instructions before use. Wear protective gloves, protective clothing 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 not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

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Section 2. Hazards identification

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation. result in classification

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
Epoxy resin (MW ≤ 700)	20 - <30	25068-38-6
crystalline silica, respirable powder (<10 microns)	15 - <20	14808-60-7
xylene	7 - <10	1330-20-7
2,3-epoxypropyl neodecanoate	2 - <3	26761-45-5
Epoxy Resin (700 <mw<=1100)< td=""><td>1 - <2</td><td>25036-25-3</td></mw<=1100)<>	1 - <2	25036-25-3
ethylbenzene	1 - <2	100-41-4
titanium dioxide	1 - <2	13463-67-7
2-methylpropan-1-ol	1 - <2	78-83-1
4-methylpentan-2-one	0.5 - <1	108-10-1

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	st a	id 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 med	<u>ica</u>	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	<u>s</u>	

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Section 4. First aid measures

Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.
Skin contact	 May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: May be harmful if swallowed.

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 nitrogen oxides halogenated compounds 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.

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, 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.

Section 6. Accidental release measures

Methods and materi	als 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	Fut 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. 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	Do not store above the following temperature: 35°C (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

<u>Control parameters</u> <u>Occupational exposure limits</u>

Section 8. Exposure controls/personal protection

Date of issue

Ingredient name		Exposure limits	
vystalline silica, respirable powder (<10 microns)		ACGIH TLV (United States, 3/2020). TWA: 0.025 mg/m ³ 8 hours. Form:	
xylene		Respirable Ministry of Labor and Employment (Brazil 11/2001). TWA: 340 mg/m ³ 8 hours.	
ethylbenzene		TWA: 78 ppm 8 hours. Ministry of Labor and Employment (Brazil 11/2001). TWA: 340 mg/m ³ 8 hours. TWA: 78 ppm 8 hours.	
titanium dioxide		ACGIH TLV (United States, 3/2020). TWA: 10 mg/m ³ 8 hours.	
2-methylpropan-1-ol		Ministry of Labor and Employment (Brazil 11/2001). TWA: 115 mg/m ³ 8 hours.	
4-methylpentan-2-one		TWA: 113 mg/m 8 hours. TWA: 40 ppm 8 hours. ACGIH TLV (United States, 3/2020). STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.	
Recommended monitoring procedures	atmosphere or biological mon of the ventilation or other cont protective equipment. Refere standards. Reference to natio	ients with exposure limits, personal, workplace itoring may be required to determine the effectiveness rol measures and/or the necessity to use respiratory nce should be made to appropriate monitoring onal guidance documents for methods for the ubstances will also be required.	
Appropriate engineering controls	eering : Use only with adequate ventilation. Use process enclosures, local e ventilation or other engineering controls to keep worker exposure to contaminants below any recommended or statutory limits. The enginalso need to keep gas, vapor or dust concentrations below any lowe		
Environmental exposure controls	entilation equipment. work process equipment should be checked to ensure tents of environmental protection legislation. In some or engineering modifications to the process o reduce emissions to acceptable levels.		
ndividual protection measu	<u>'es</u>		
Hygiene measures	before eating, smoking and us Appropriate techniques should Contaminated work clothing s	the thoroughly after handling chemical products, sing the lavatory and at the end of the working period. If be used to remove potentially contaminated clothing. hould not be allowed out of the workplace. Wash reusing. Ensure that eyewash stations and safety station location.	
Eye protection Skin protection	: Chemical splash goggles.		

Section 8. Exposure controls/personal protection

	• •	
Hand protection	emical-resistant, impervious gloves complying with an ap worn at all times when handling chemical products if a ris is is necessary. Considering the parameters specified by eck during use that the gloves are still retaining their prote- buld be noted that the time to breakthrough for any glove erent for different glove manufacturers. In the case of mi- veral substances, the protection time of the gloves cannot imated.	k assessment indicates the glove manufacturer, ective properties. It material may be ixtures, consisting of
Gloves	yl rubber	
Body protection Other skin protection	rsonal protective equipment for the body should be select ng performed and the risks involved and should be appro- fore handling this product. When there is a risk of ignition ar anti-static protective clothing. For the greatest protecti charges, clothing should include anti-static overalls, boots propriate footwear and any additional skin protection mea ected based on the task being performed and the risks in	oved by a specialist from static electricity, on from static s and gloves. isures should be
	proved by a specialist before handling this product.	
Respiratory protection	spirator selection must be based on known or anticipated zards of the product and the safe working limits of the sel- rkers are exposed to concentrations above the exposure propriate, certified respirators. Use a properly fitted, air-p pirator complying with an approved standard if a risk asso cessary.	ected respirator. If limit, they must use urifying or air-fed

Section 9. Physical and chemical properties

Appearance

Appearance	
Physical state	: Liquid.
Color	: Yellow.
Odor	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 35°C (95°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.
Relative density	: 1.45
Solubility	: Insoluble in the following materials: cold water.
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)
Viscosity	: 60 - 100 s (ISO 6mm)

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredier	nts.
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 ma carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides	iterials:

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
2,3-epoxypropyl	LD50 Dermal	Rat	3800 mg/kg	-
neodecanoate			00	
	LD50 Oral	Rat	9.6 g/kg	-
Epoxy Resin (700 <mw <=1100)</mw 	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	-
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	-
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	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Epoxy resin (MW ≤ 700) xylene	Skin - Mild irritant Eyes - Mild irritant Skin - Moderate irritant	Rabbit Rabbit Rabbit	- - -	- - 24 hours 500 mg	- - -

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Conclusion/Summary					
Skin	: There ar	e no data	available on the mix	ture itself.	
Eyes	: There ar	e no data	available on the mix	ure itself.	
Respiratory	: There ar	e no data	available on the mix	ture itself.	
<u>Sensitization</u>					
Product/ingredient name	Route of exposure	S	pecies	Result	
Epoxy resin (MW ≤ 700)	skin	N	louse	Sensitizing	
Conclusion/Summary Skin Respiratory Mutagenicity Not available.	Conclusion/Summary Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Mutagenicity : There are no data available on the mixture itself.				
Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary			available on the mix available on the mix		
Classification					
Product/ingredient name	OSHA	IARC	NTP		
 ørystalline silica, respirable powder (<10 microns) xylene ethylbenzene titanium dioxide 4-methylpentan-2-one 	- - - -	1 3 2B 2B 2B	Known to be a hur - - - -	nan carcinogen.	
Carcinogen Classification	code:				
IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: + Not listed/not regul Reproductive toxicity Not available.	a human carci	nogen; Rea	asonably anticipated to b	e a human carcinogen	
	. The sure set			une ite elf	
Conclusion/Summary	: There ar	e no data	available on the mix	ure ilseit.	

Teratogenicity

Not available.

Conclusion/Summary : There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	Category 1	inhalation	-
	Category 2	-	hearing organs

Target organs

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

Aspiration hazard

Name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2
4-methylpentan-2-one	ASPIRATION HAZARD - Category 2

Information on the likely routes of exposure <u>Potential acute health effect</u>	: Not available.	
Eye contact	: Causes serious eye irritation.	
Inhalation	: Harmful if inhaled.	
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.	
Ingestion	: May be harmful if swallowed.	
Symptoms related to the phy	sical, chemical and toxicological characteristics	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: No specific data.	

English (US)		
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Skin contact	: Adverse symptoms may include the following: irritation redness
	dryness cracking
Ingestion	: No specific data.
Delayed and immediate eff	fects 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 PPG 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 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 repeate exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashe 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.
<u>Short 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.
<u>Long term exposure</u>	

Potential immediate : There are no data available on the mixture itself. effects

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

Not available.

General	: Causes damage to organs through prolonged or repeated exposure. Prolonged 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	: Suspected of causing genetic defects.
Reproductive toxicity	: No known significant effects or critical hazards.

5

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)
GMACOVER 410 BR AMARELO OURO 10YR 8/14	3814.2	2569.5	N/A	16.2	2.1
Epoxy resin (MW ≤ 700)	2500	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
2,3-epoxypropyl neodecanoate	9600	3800	N/A	N/A	N/A
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
ethylbenzene	3500	17800	N/A	17.8	1.5
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
4-methylpentan-2-one	2080	N/A	N/A	12.3	1.5

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2,3-epoxypropyl	Acute EC50 3.5 mg/l	Algae	96 hours
neodecanoate			
	Acute EC50 4.8 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh	Fish	96 hours
	water		
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Epoxy resin (MW ≤ 700) 4-methylpentan-2-one	OECD 301F OECD 301F	5 % - 28 da 83 % - Rea	ays dily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Epoxy resin (MW ≤ 700) xylene 2,3-epoxypropyl neodecanoate	- - -		- - -		Not rea Readily Not rea	/
ethylbenzene 4-methylpentan-2-one	-		-		Readily Readily	

Bioaccumulative potential

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Code 4100013L.20 Product name SIGMACC	VER 410 BR AMARELO	Date of issue OURO 10YR 8/14	18 May 2021	Version	5
Section 12. Ecolo	gical inform	ation			
Product/ingredient name	LogPow	BCF		Potential	
Epoxy resin (MW ≤ 700) xylene 2,3-epoxypropyl neodecanoate ethylbenzene 2-methylpropan-1-ol 4-methylpentan-2-one	3 3.12 4.4 3.6 1 1.9	31 7.4 to 18 - 79.43 - -	3.5	low low high low low 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		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.	(Epoxy resin (MW ≤ 700), 2,3-epoxypropyl neodecanoate)	Not applicable.

English (US)	Brazil	13/15

Section 14. Transport information

Additional inform	nation
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 precaution	ons 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 to IMO instrumer	
Section 15	. Regulatory information

Safety, health and	1	No known specific national and/or regional regulations applicable to this product
environmental regulations		(including its ingredients).
specific for the product		

Section 16. Other information

Н	istory	

Date of previous issue	: 3/27/2020
Version	: 5
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.

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Section 16. Other information

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.