# **SAFETY DATA SHEET**



Date of issue 12 October 2023

Version 1.05

## Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMACOVER 380 BASE GREEN 4100 : 000001090002
- : 00250040; 00272764
- : 00250040; 0
- : Liquid.

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

#### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

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

# Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 5 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 (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1</li> </ul>
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Target organs	: Contains material which causes damage to the following organs: liver, spleen, brain skin, bone marrow, central nervous system (CNS), eye, lens or cornea. 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.
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 57.1%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 54.6%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.</li> </ul>
	May cause respiratory irritation. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Obtain 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. 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. Immediately call a POISON CENTER or doctor.
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	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

: Mixture

: 00250040; 00272764

#### **CAS number/other identifiers**

**CAS number** 

: Not applicable.

Ingredient name	%	CAS number
Talc , not containing asbestiform fibres	20 - <30	14807-96-6
crystalline silica, respirable powder (>10 microns)	20 - <30	14808-60-7
bis-[4-(2,3-epoxipropoxi)phenyl]propane	10 - <12.5	1675-54-3
xylene	5 - <7	1330-20-7
4-nonylphenol, branched	3 - <5	84852-15-3
titanium dioxide	3 - <5	13463-67-7
Aluminium powder (stabilized)	3 - <5	7429-90-5
Epoxy Resin (700 <mw<=1100)< td=""><td>3 - &lt;5</td><td>25036-25-3</td></mw<=1100)<>	3 - <5	25036-25-3
Phenol, methylstyrenated	3 - <5	68512-30-1
2-methylpropan-1-ol	2 - <3	78-83-1
crystalline silica, respirable powder (<10 microns)	2 - <3	14808-60-7
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	2 - <3	64742-48-9
ethylbenzene	1 - <2	100-41-4
Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-	1 - <2	55349-01-4

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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 necessar	<u>y first aid measures</u>
Eye contact	<ul> <li>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.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
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	medical attention and special treatment needed, if necessary
Notes to physician Specific treatments	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.</li> </ul>

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# Section 4. First aid measures

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	:	Causes serious eye damage.
Inhalation	1	May cause respiratory irritation.
Skin contact	:	May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	÷	Corrosive to the digestive tract. Causes burns.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: 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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# Section 6. Accidental release measures

Personal precautions, protect	tive 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".

### Section 6. Accidental release measures

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). 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

any ibilities accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name		Exposure limits			
Talc , not containing asbestif	orm fibres	ACGIH TLV (United States, 1/2022).			
crystalline silica, respirable powder (>10 microns)		TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable ACGIH TLV (United States, 1/2022). [Silica, crystalline]			
		TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:			
		Respirable fraction			
xylene		Ministry of Labor and Employment (Brazil, 11/2001). [Xylenes (o-, m-, p- isomers)]			
		TWA: $340 \text{ mg/m}^3 8 \text{ hours.}$			
		TWA: 78 ppm 8 hours.			
titanium dioxide		ACGIH TLV (United States, 1/2022).			
		TWA: 2.5 mg/m <sup>3</sup> 8 hours. Form: respirable			
Aluminium nowdor (stabilized	1)	fraction, finescale particles			
Aluminium powder (stabilized	1)	ACGIH TLV (United States, 1/2022). [Aluminum, metal and insoluble			
		compounds]			
		TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable			
		fraction			
2-methylpropan-1-ol		Ministry of Labor and Employment (Brazil,			
		<b>11/2001).</b> TWA: 115 mg/m³ 8 hours.			
		TWA: 40 ppm 8 hours.			
crystalline silica, respirable p	owder (<10 microns)	ACGIH TLV (United States, 1/2022). [Silica,			
	· · · · ·	crystalline]			
		TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:			
athuthanzana		Respirable			
ethylbenzene		Ministry of Labor and Employment (Brazil, 11/2001).			
		TWA: 340 mg/m <sup>3</sup> 8 hours.			
		TWA: 78 ppm 8 hours.			
Recommended monitoring	: Reference should be made to appro	ppriate monitoring standards. Reference to			
procedures		ethods for the determination of hazardous			
	substances will also be required.				
Appropriate engineering		Use process enclosures, local exhaust			
controls		trols to keep worker exposure to airborne ded or statutory limits. The engineering controls			
		st concentrations below any lower explosive			
	limits. Use explosion-proof ventilati	on equipment.			
Environmental exposure		process equipment should be checked to ensure			
controls		of environmental protection legislation. In some gineering modifications to the process			
	equipment will be necessary to redu				

#### Individual protection measures

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Section 8. Expos	ure controls/personal protection
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection	: Chemical splash goggles and face shield.
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	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Green.
Odor	: Aromatic.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 38°C (100.4°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.55

# Section 9. Physical and chemical properties

		Media R	tesult
Solubility(ies)	Ċ	cold water N	lot soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	
Viscosity	:	Kinematic (40°C (104°F)): >2	21 mm²/s (>21 cSt)
Viscosity	:	30 - <40 s (ISO 6mm)	

# Section 10. Stability and reactivity

Reactivity	No specifi	c test data related to reactivity available for this product or its ingredients.
Chemical stability	The produ	ict is stable.
Possibility of hazardous reactions	Under nor	mal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	When exp products.	oosed to high temperatures may produce hazardous decomposition
Incompatible materials	•	y from the following materials to prevent strong exothermic reactions: agents, strong alkalis, strong acids.
Hazardous decomposition products		g on conditions, decomposition products may include the following materials: ides nitrogen oxides metal oxide/oxides

# Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 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	-
Aluminium powder (stabilized)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	>15900 mg/kg	-
Epoxy Resin (700 <mw &lt;=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
		English (US)	Brazil	8/15

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Section 11. Toxico	ological inf	orma	tion					
2-methylpropan-1-ol	LC50 Inhalation V LD50 Dermal LD50 Oral	/apor		Rat Rabbit Rat		24.6 mg/l 2460 mg/kg - 2830 mg/kg -		4 hours - -
Hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, < 2% aromatics	LD50 Dermal			Rabbit		>500	0 mg/kg	-
ethylbenzene	LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral			Rat Rat Rabbit Rat		17.8 g/kg		- 4 hours - -
Conclusion/Summary rritation/Corrosion	: There are no d	ata availa	able on	the mixtu	ure itse	lf.		
Product/ingredient name	Result		Spec	ies	Scor	<b>e</b>	Exposure	Observation
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant		Rabb	bit -			24 hours	-
	Eyes - Redness of the conjunctivae		Rabb	Rabbit 0			24 hours	-
	Skin - Edema Skin - Erythema/E	Eschar	Rabb Rabb	it	0.5 0.8		4 hours 4 hours	-
vulana	Skin - Mild irritant Skin - Moderate i		Rabb Rabb		-		4 hours 24 hours 500	- )  -
xylerie	Skin - Erythema/Eschar Rabb						ma	
4-nonylphenol, branched	Skin - Erythema/E	Eschar	Rabb	it	4		mg -	-
-	Skin - Erythema/ł	Eschar	Rabb	it	4		- -	-
4-nonylphenol, branched	: There are no d	ata availa	able on	the mixtu	ure itse		- -	-
Conclusion/Summary Skin Eyes Respiratory	-	ata availa ata availa	able on able on	the mixtu	ure itse ure itse	lf.	- -	-
4-nonylphenol, branched <u>Conclusion/Summary</u> Skin Eyes Respiratory	: There are no d : There are no d : There are no d	ata availa ata availa ata availa	able on able on able on	the mixtu	ure itse ure itse	lf. lf.	_	-
4-nonylphenol, branched <u>Conclusion/Summary</u> Skin Eyes	: There are no d : There are no d	ata availa ata availa	able on able on able on	the mixtu	ure itse ure itse	lf.	_	-

Skin

Respiratory Mutagenicity

Not available.

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

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

**Carcinogenicity** 

Not available.

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

English (US)

Product/ingredient name	OSHA	IARC	NTP
crystalline silica, respirable powder (>10 microns)	-	1	Known to be a human carcinogen.
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	3	-
xylene	-	3	-
titanium dioxide	-	2B	-
crystalline silica, respirable powder (<10 microns)	-	1	Known to be a human carcinogen.
ethylbenzene	-	2B	-

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Carcinogen Classification code:

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

#### Reproductive toxicity

Not available.

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

#### **Teratogenicity**

Not available.

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

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
xylene	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		Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
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), eye, lens or cornea. 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.

#### Aspiration hazard

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English (US)	Brazil	10/

Name	Result
xylene	ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2%	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1
aromatics	
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	: Not available.	
Potential acute health effect		
Eye contact	: Causes serious eye damage.	
Inhalation	: May cause respiratory irritation.	
Skin contact	: May be harmful in contact with skin. 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 phy	sical, chemical and toxicological characteristics	
Eye contact	: Adverse symptoms may include the following: pain watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing 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 health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate effects	-	There are no data available on the mixture itself.
Potential delayed effects		There are no data available on the mixture itself.
Potential chronic health effe	<u>ect</u>	<u>s</u>
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 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)
SIGMACOVER 380 BASE GREEN 4100	8008.2	4210.3	N/A	41.4	5.3
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
4-nonylphenol, branched	1300	2140	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
Phenol, methylstyrenated	2500	2500	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

#### **Other information**

: Not available.

# Section 12. Ecological information

#### **Ecotoxicity**

Result	Species	Exposure
Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
Chronic NOEC 0.3 mg/l	Daphnia	21 days
Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
Acute LC50 0.221 mg/l	Fish	96 hours
Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Acute EC50 1100 mg/l	Daphnia	48 hours
Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
	Chronic NOEC 0.3 mg/l Acute EC50 0.044 mg/l Acute LC50 0.221 mg/l Acute LC50 >100 mg/l Fresh water Acute EC50 1100 mg/l Acute EC50 1.8 mg/l Fresh water	Acute LC50 1.8 mg/l Fresh waterDaphnia - daphnia magnaChronic NOEC 0.3 mg/lDaphniaAcute EC50 0.044 mg/lCrustaceans - Moina macrocopaAcute LC50 0.221 mg/lFishAcute LC50 >100 mg/l Fresh waterDaphnia - Daphnia magnaAcute EC50 1100 mg/lDaphniaAcute EC50 1.8 mg/l Fresh waterDaphnia

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	79 % - Readily - 10 days			-
Product/ingredient name	Aquatic half-lif	fe	Photolysis		Biodeg	gradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not rea	adily
xylene ethylbenzene	-		-		Readily Readily	,

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
4-nonylphenol, branched	5.4	251.19	Low
Phenol, methylstyrenated	3.627	-	Low
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	Low

#### Mobility in soil

E	English (US)	Brazil	13/15

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	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III		Ш
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, 4-nonylphenol, branched)	Not applicable.

#### Additional information

Brazil	: None identified.
<b>Risk number</b>	: 30
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IATA	: 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.

	English (US) Brazil 14	4/15
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### Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

### 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

<u>History</u>	
Date of previous issue	: 8/25/2023
Version	: 1.05
Prepared by	: EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>UN = United Nations</li> </ul>
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

#### **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.