# **SAFETY DATA SHEET**



#### Date of issue 16 December 2023

Version 10.01

# Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMACOVER 246/410/430 LT HARDENER
- : 00250027
- : Not available.
- : Liquid.

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

#### **Identified uses**

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	<ul> <li>PPG 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

substance or mixture       ACUTE TOXICITY (oral) - Category 4         ACUTE TOXICITY (dermal) - Category 5         ACUTE TOXICITY (inhalation) - Category 4         SKIN CORROSION - Category 1         SERIOUS EYE DAMAGE - Category 1         SKIN SENSITIZATION - Category 1         CARCINOGENICITY - Category 2         TOXIC TO REPRODUCTION - Category 2         SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory trairritation) - Category 3         SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2         AQUATIC HAZARD (ACUTE) - Category 1         AQUATIC HAZARD (LONG-TERM) - Category 1	assification of the bstance or mixture	XICITY (dermal) - Category 5 XICITY (inhalation) - Category 4 ROSION - Category 1 EYE DAMAGE - Category 1 SITIZATION - Category 1 SENICITY - Category 2 REPRODUCTION - Category 2 FARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract Category 3 FARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HAZARD (ACUTE) - Category 1
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Section 2. Hazar	ds identification
Target organs	: Contains material which causes Contains material which may ca lungs, the nervous system, liver,

s damage to the following organs: brain. ause damage to the following organs: blood, kidneys, stem, liver, bladder, upper respiratory tract, skin, central lung nervous system (CNS), ears, eye, lens or cornea.

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Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 9.3%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 17.9%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 54.2%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 21%

GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. Harmful if swallowed or if inhaled. May be harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (hearing organs) Very toxic to aquatic life with long lasting effects.</li> </ul>
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. 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: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing 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.

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# Section 2. Hazards identification

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

**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 identification	: Not available.

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

CAS number : Not applicable.		
Ingredient name	%	CAS number
<b>e</b> thylbenzene	20 - <30	100-41-4
nonylphenol	15 - <20	25154-52-3
xylene	12.5 - <15	1330-20-7
Cashew, nutshell liq., polymer with diethylenetriamine and formaldehyde	10 - <12.5	68413-29-6
Formaldehyde, polymer with N,N-dimethyl-1,3-propanediamine and phenol	7 - <10	445498-00-0
2-methylpropan-1-ol	7 - <10	78-83-1
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil	3 - <5	68082-29-1
fatty acids and triethylenetetramine		
2,4,6-tris(dimethylaminomethyl)phenol	3 - <5	90-72-2
p-nonylphenol	0 - <0.1	104-40-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

# Section 4. First aid measures

Description of necessary	<u>r 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 r	nedical 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 a	neasures	
Protection of first-aiders	No action shall be taken involving any personal risk or without is suspected that fumes are still present, the rescuer should we mask or self-contained breathing apparatus. It may be danger providing aid to give mouth-to-mouth resuscitation. Wash con thoroughly with water before removing it, or wear gloves.	ear an appropriate rous to the person
Potential acute health effe		
Eye contact	Causes serious eye damage.	
Inhalation	Harmful if inhaled. May cause respiratory irritation.	
Skin contact	Causes severe burns. May be harmful in contact with skin. D May cause an allergic skin reaction.	efatting to the skin.
Ingestion	Harmful if swallowed.	

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 halogenated compounds
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, 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".

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### 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	: 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

including any incompatibilities 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		
ethylbenzene xylene		Ministry of Labor and Employment (Brazi 11/2001). TWA: 340 mg/m <sup>3</sup> 8 hours.		
		TWA: 78 ppm 8 hours. <b>Ministry of Labor and Employment (Brazi</b> <b>11/2001). [Xylenes (o-, m-, p- isomers)]</b> TWA: 340 mg/m <sup>3</sup> 8 hours. TWA: 78 ppm 8 hours.		
2-methylpropan-1-ol		Ministry of Labor and Employment (Brazi 11/2001). TWA: 115 mg/m <sup>3</sup> 8 hours. TWA: 40 ppm 8 hours.		
Recommended monitoring procedures	n	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		
Appropriate engineering controls	v c a	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.		
Environmental exposure controls	: E tl c	missions from ventilation or work process equipment should be checked to ensure ney comply with the requirements of environmental protection legislation. In some ases, fume scrubbers, filters or engineering modifications to the process quipment will be necessary to reduce emissions to acceptable levels.		
ndividual protection measu	res			
Hygiene measures Eye protection	b A C c s	Vash hands, forearms and face thoroughly after handling chemical products, efore 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 ontaminated clothing before reusing. Ensure that eyewash stations and safety howers are close to the workstation location. Chemical splash goggles and face shield.		
Skin protection				
Hand protection	b tl c s	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates his is necessary. Considering the parameters specified by the glove manufacturer heck during use that the gloves are still retaining their protective properties. It hould be noted that the time to breakthrough for any glove material may be ifferent for different glove manufacturers. In the case of mixtures, consisting of		
	s	everal substances, the protection time of the gloves cannot be accurately stimated.		

# Section 8. Exposure controls/personal protection

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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	1	Liquid.	
Color	4	Not available.	
Odor	4	Amine-like.	
рН	4	Not applicable.	
Melting point	1	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	Closed cup: 30°C (86°F)	
Evaporation rate	:	Not available.	
Flammability (solid, gas)	1	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Vapor pressure	1	Not available.	
Vapor density	1	Not available.	
Relative density	:	0.92	
Solubility/icc)		Media	Result
Solubility(ies)	:	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	1	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 materia carbon oxides nitrogen oxides halogenated compounds	ls:

# Section 11. Toxicological information

#### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
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	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/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	-
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
p-nonylphenol	LD50 Oral	Rat	1620 mg/kg	-

onclusion/Summary Irritation/Corrosion

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# Section 11. Toxicological information

Product/ingredient name	Result		Species	Score	e Exposure	Observation
<b>x</b> ylene	Skin - Mode	erate irrita	nt Rabbit	-	24 hours 500 mg	-
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Seve			-	-	-
2,4,6-tris (dimethylaminomethyl) phenol	Skin - Irrita Skin - Visib		Human s Rabbit	-	- 4 hours	- 7 days
Conclusion/Summary						
Skin			available on the mix			
Eyes			available on the mix			
Respiratory Sensitization	: There ar	e no data :	available on the mi	xture itse	lt.	
Product/ingredient name	Route of exposure	Sp	ecies		Result	
Tatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mo	ouse		Sensitizing	
Conclusion/Summary		•				
Skin	: There ar	e no data :	available on the mi	xture itse	lf.	
Respiratory Mutagenicity Not available.	: There ar	e no data :	available on the mi	xture itse	lf.	
Conclusion/Summary       : There are no data available on the mixture itself.         Carcinogenicity       Not available.						
Conclusion/Summary <u>Classification</u>	<b>mmary</b> : There are no data available on the mixture itself.					
Product/ingredient name	OSHA	IARC	NTP			
ethylbenzene xylene	-	2B 3	-			
	1	1	L			

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.

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# Section 11. Toxicological information

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
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
ethylbenzene	Category 2	-	hearing organs

# Target organs: Contains material which causes damage to the following organs: brain.<br/>Contains material which may cause damage to the following organs: blood, kidneys,<br/>lungs, the nervous system, liver, bladder, upper respiratory tract, skin, central<br/>nervous system (CNS), ears, eye, lens or cornea.

#### Aspiration hazard

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

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	1	Causes serious eye damage.
Inhalation	:	Harmful if inhaled. May cause respiratory irritation.
Skin contact	:	Causes severe burns. May be harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	1	Harmful if swallowed.
Symptoms related to the phy	si	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following:

Eye contact :	Adverse symptoms may include the following: pain watering
	redness

# Section 11. Toxicological information

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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. 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.
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<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 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

dermatit	tis. Once sensitized, a severe allergic read	ction may occur when
subsequ	uently exposed to very low levels.	

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# Section 11. Toxicological information

Carcinogenicity	: Suspected of causing 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 246/410/430 LT HARDENER	1163.9	2422.3	N/A	18.4	1.9
ethylbenzene	3500	17800	N/A	17.8	1.5
nonylphenol	580	2140	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
Cashew, nutshell liq., polymer with diethylenetriamine and formaldehyde	500	1100	N/A	N/A	N/A
Formaldehyde, polymer with N,N-dimethyl- 1,3-propanediamine and phenol	500	N/A	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	2500	2500	N/A	N/A	N/A
2,4,6-tris(dimethylaminomethyl)phenol p-nonylphenol	1200 1620	1280 N/A	N/A N/A	N/A N/A	N/A N/A

#### Other information

: Not available.

# Section 12. Ecological information

#### **Ecotoxicity**

Result	Species	Exposure
Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Daphnia - Ceriodaphnia dubia	-
Acute EC50 0.056 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
Chronic EC10 0.003 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
Chronic NOEC 1 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
Acute EC50 1100 mg/l	Daphnia	48 hours
EC10 1.78 mg/l	Algae	72 hours
Acute LC50 175 mg/l	Fish	96 hours
Acute EC50 134.1 μg/l Marine water	Algae - <i>Phaeodactylum</i> <i>tricornutum</i> - Exponential growth phase	72 hours
	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water Acute EC50 0.056 mg/l Fresh water Chronic EC10 0.003 mg/l Fresh water Chronic NOEC 1 µg/l Fresh water Acute EC50 1100 mg/l EC10 1.78 mg/l Acute LC50 175 mg/l	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water Acute EC50 0.056 mg/l Fresh waterDaphnia Daphnia - Ceriodaphnia dubia Algae - Desmodesmus subspicatusChronic EC10 0.003 mg/l Fresh water Chronic NOEC 1 µg/l Fresh water Acute EC50 1100 mg/l EC10 1.78 mg/lDaphnia Algae - Desmodesmus subspicatusAcute LC50 175 mg/lFishAcute EC50 134.1 µg/l Marine waterAlgae - Phaeodactylum tricornutum - Exponential growth

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Product name SIGMACOVER 246/410/430 LT HARDENER									
Section	Section 12. Ecological information								
		Chronic EC10 73.8 µg/l Marine water	Algae - <i>Phaeodactylum</i> <i>tricornutum</i> - Exponential grov phase	72 hours wth					

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	idily - 10 days	-		-
Product/ingredient name	Aquatic half-lif	fe	Photolysis	<b>`</b>	Biodeg	gradability
ethylbenzene xylene Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-		-		Readily Readily Not rea	, Y

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ethylbenzene	3.6	79.43	Low
nonylphenol	3.28	154.88	Low
xylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
2,4,6-tris	0.219	-	Low
(dimethylaminomethyl)phenol			
p-nonylphenol	5.76	380.19	Low

#### Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

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.

English (US)	Brazil	13/15
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## Section 14. Transport information

	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN3470	UN3470	UN3470
UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
Transport hazard class(es)	8 (3)	8 (3)	8 (3)
Packing group	II	II	II
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.	(nonylphenol)	Not applicable.

#### Additional information

Brazil	: None identified.
<b>Risk number</b>	: 83
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤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

## 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	: 2/10/2022
Version	: 10.01
Prepared by	: EHS

Brazil

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# Section 16. Other information

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.