# **SAFETY DATA SHEET**



Date of issue 22 October 2024

Version 1.03

## Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMACOVER 380 HARDENER
- : 00444783
- : 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

	Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 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 tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1</li> </ul>
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English (US)	Brazil	1/15

Code 00444783 Product name SIGMACO	VER 380 HARDENE	Date of issue R	22 October 2024	Version	1.03
Section 2. Hazard	s identific	ation			
Target organs	Contains m lungs, the r central ner	aterial which may cau nervous system, the re yous system (CNS), e of the mixture consis	damage to the following of use damage to the followin eproductive system, liver, r ars, eye, lens or cornea. sting of ingredient(s) of unl	ig organs: bloc upper respirato	od, kidneys, ory tract,
GHS label elements					
Hazard pictograms	:			7	
Signal word	: Danger				
Hazard statements	May be har Causes sev May cause Harmful if in May cause Suspected Suspected	liquid and vapor. mful if swallowed or in vere skin burns and e an allergic skin reactinhaled. respiratory irritation. of causing cancer. of damaging fertility co o aquatic life with long	ye damage. on. r the unborn child.		
Precautionary statements	2				
Prevention	and eye or flames and ventilating o	face protection. Keep other ignition sources or lighting equipment.	e use. Wear protective glo o away from heat, hot surfa s. No smoking. Use explo Use non-sparking tools. to the environment. Avoid	aces, sparks, c sion-proof elec Take action to	open ctrical, prevent
Response	INHALED: Immediatel vomiting. II Rinse skin irritation or clothing bet Remove co	Immediately call a PC y call a POISON CEN F ON SKIN (or hair): with water. Immediat rash occurs: Get med fore reuse. IF IN EYE	oncerned: Get medical ad DISON CENTER or doctor. ITER or doctor. Rinse mo Take off immediately all co ely call a POISON CENTE dical advice or attention. V ES: Rinse cautiously with w nt and easy to do. Continu or.	IF SWALLOW uth. Do NOT in ontaminated clo R or doctor. In Vash contamin vater for severa	VED: nduce othing. f skin ated al minutes.
Storage	: Store in a v	vell-ventilated place. ł	Keep container tightly close	ed. Keep cool.	
Disposal		contents and contain tional regulations.	er in accordance with all lo	ocal, regional, r	national
Other hazards which do not result in classification	: Causes dig cause irrita		olonged or repeated conta	act may dry ski	n and

### Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

: Mixture

: Not available.

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

CAS number

: Not applicable.

Ingredient name	%	CAS number
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	30 - <60	68082-29-1
xylene	20 - <30	1330-20-7
4-nonylphenol, branched	20 - <30	84852-15-3
2-methylpropan-1-ol	10 - <12.5	78-83-1
2,4,6-tris(dimethylaminomethyl)phenol	5 - <7	90-72-2
ethylbenzene	3 - <5	100-41-4
3,6-diazaoctanethylenediamin	3 - <5	112-24-3
toluene	0.1 - <0.2	108-88-3

Date of issue

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 first aid measures

Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	:	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 medi	<u>ca</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		
Eye contact	:	Causes serious eye damage.
Inhalation	:	Harmful if inhaled. May cause respiratory irritation.

Code 00444783	Date of issue	22 October 2024	Version	1.03
Product name SIGMACO	R 380 HARDENER			

### Section 4. First aid measures

Skin contact: Causes severe burns. May be harmful in contact with skin. Defatting to the skin.<br/>May cause an allergic skin reaction.Ingestion: May be harmful if swallowed. 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
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	cti	ve equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Section 6. Accidental release measures			
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 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>

English (US)

# Section 8. Exposure controls/personal protection

Ingredient name			Exposure limits
xylene			Ministry of Labor and Employment (Brazi 11/2001) [Xylenes (o-, m-, p- isomers)] TWA 8 hours: 78 ppm. TWA 8 hours: 340 mg/m <sup>3</sup> .
2-methylpropan-1-ol			Ministry of Labor and Employment (Brazi 11/2001) TWA 8 hours: 40 ppm.
ethylbenzene			TWA 8 hours: 115 mg/m <sup>3</sup> . Ministry of Labor and Employment (Brazi 11/2001)
toluene			TWA 8 hours: 78 ppm. TWA 8 hours: 340 mg/m <sup>3</sup> . Ministry of Labor and Employment (Brazi 11/2001) Absorbed through skin. TWA 8 hours: 78 ppm.
			TWA 8 hours: 290 mg/m <sup>3</sup> .
Recommended monitoring procedures	:		riate monitoring standards. Reference to nods for the determination of hazardous
Appropriate engineering controls	:	contaminants below any recommende	ls to keep worker exposure to airborne ed or statutory limits. The engineering control concentrations below any lower explosive
Environmental exposure controls	:	Emissions from ventilation or work pro	bcess equipment should be checked to ensur environmental protection legislation. In some neering modifications to the process
ndividual protection measur	<u>es</u>		
Hygiene measures	:	before eating, smoking and using the Appropriate techniques should be use Contaminated work clothing should no	bughly after handling chemical products, lavatory and at the end of the working period. In the end of the working period. It is allowed out of the workplace. Wash Ensure that eyewash stations and safety ocation.
Eye protection	4	Chemical splash goggles and face sh	ield.
Skin protection Hand protection	:	be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break	s complying with an approved standard should emical products if a risk assessment indicate rameters specified by the glove manufacturer still retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of the of the gloves cannot be accurately
		estimated.	

# Section 8. Exposure controls/personal protection

-	
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	4	Not available.			
Odor	1	Amine-like.			
рН	:	Not applicable.			
Melting point	:	Not available.			
Boiling point	:	>37.78°C (>100°F)			
Flash point	:	Ølosed cup: 27°C (80.6°F)			
Evaporation rate	:	Not available.			
Flammability (solid, gas)	:	Not available.			
Lower and upper explosive (flammable) limits	:	lot available.			
Vapor pressure	:	Not available.			
Vapor density	:	Not available.			
Relative density	:	0.91			
Colubility(inc)		Media Result			
Solubility(ies)	1	cold water Not soluble			
Partition coefficient: n- octanol/water	:	Not applicable.			
Auto-ignition temperature	:	Not available.			
Decomposition temperature	:	Not available.			
Viscosity	:	Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)			
Viscosity	1	30 - <40 s (ISO 6mm)			

SIGMACOVER 380 HARDENER

Date of issue

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredient	s.
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 mate carbon oxides nitrogen oxides	rials
1		

## Section 11. Toxicological information

#### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Atty 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	-
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	-
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	-
2,4,6-tris	LD50 Dermal	Rat	1280 mg/kg	-
(dimethylaminomethyl) phenol				
	LD50 Oral	Rat	1200 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	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
	LD50 Oral	Rat	1716 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

English (US) Brazil

1.03

## Section 11. Toxicological information

Product/ingredient name	Result			Species	Score	Exposure	Observation
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Seve	ere irrita	nt	Rabbit	-	-	-
5	Skin - Irritar	nt		Human	-	-	-
xylene	Skin - Mode	erate irri			-	24 hours 500	)  -
4-nonylphenol, branched	Skin - Eryth	iema/Es	char	Rabbit	4	mg -	-
Conclusion/Summary							
Skin	: There are	e no dat	a availa	able on the mi	xture itself.		
Eyes	: There are	e no dat	a availa	able on the mi	xture itself.		
Respiratory	: There are	e no dat	a availa	able on the mi	xture itself.		
Sensitization							
Product/ingredient name	Route of	:	Specie	S	R	Result	
	exposure						
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin		Mouse		S	Sensitizing	
3,6-diazaoctanethylenediamin	skin		Guinea	pig	S	Sensitizing	
Conclusion/Summary							
Skin	: There are	e no dat	a availa	able on the mi	xture itself.		
Respiratory				able on the mi			
<u>Mutagenicity</u>							
Not available.							
Conclusion/Summary Carcinogenicity Not available.	: There are	e no dal	a availi	able on the mi	xture itself.		
Conclusion/Summary	• There are	a no dat	a avail	able on the mi	vtura itsalf		
<u>Classification</u>			a avalli	מטוב טוז נווב וווו			
Product/ingredient name	OSHA	IARC	NT	P			
xylene ethylbenzene	-	3 2B	-				

Date of issue

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.

Date of issue

## 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
toluene	Category 3 Category 3	-	Narcotic effects Narcotic effects

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

Name	•••	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
toluene	Category 2		-

#### Target organs

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

#### **Aspiration hazard**

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

Information on the likely routes of exposure Potential acute health effects		Not available.
		Causaa aariaya aya damaga
Eye contact	1	Causes serious eye damage.
Inhalation	4	Harmful if inhaled. May cause respiratory irritation.
Skin contact	1	Causes severe burns. May be harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	3	May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.
Symptoms related to the phy	sic	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness

English (US)

Date of issue

22 October 2024

#### 1.03

# 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. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.
Short term exposure		
Potential immediate effects	1	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	1	There are no data available on the mixture itself.
Potential chronic health effe	<u>ect</u>	<u>s</u>
Natavailable		

Not available.

1.03

## Section 11. Toxicological information

General       : Prolonged or repeated contact can defat the skin and lead to or dermatitis. Once sensitized, a severe allergic reaction ma subsequently exposed to very low levels.	
<b>Carcinogenicity</b> : Suspected of causing cancer. Risk of cancer depends on du exposure.	uration and level of
Mutagenicity : No known significant effects or critical hazards.	
<b>Reproductive toxicity</b> : 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)
GMACOVER 380 HARDENER	2217.5	2138.7	N/A	17.2	2.2
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	2500	2500	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
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
3,6-diazaoctanethylenediamin	1716	1465	N/A	N/A	N/A
toluene	5580	8390	N/A	49	N/A

#### Other information

: Not available.

## Section 12. Ecological information

#### **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l Acute LC50 0.221 mg/l	Crustaceans - <i>Moina macrocopa</i> Fish	48 hours 96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris (dimethylaminomethyl)phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
ethylbenzene	Acute LC50 >100 mg/l Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Fish Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	96 hours 48 hours -

#### Persistence/degradability

English (US)	Brazil	

### Section 12. Ecological information

Product/ingredient name	Test	Result		Dose	Inoculum
2,4,6-tris (dimethylaminomethyl)phenol	OECD 301D Ready Biodegradability - Closed Bottle Test	4 % - Not re	eadily - 28 days	-	-
ethylbenzene	-	79 % - Rea	dily - 10 days	-	-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine xylene 2,4,6-tris	-		-		Not readily Readily Not readily
(dimethylaminomethyl)phenol ethylbenzene toluene	-		-		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
2-methylpropan-1-ol	1	-	Low
2,4,6-tris	0.219	-	Low
(dimethylaminomethyl)phenol			
ethylbenzene	3.6	79.43	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low
toluene	2.73	8.32	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 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
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English (US)	Brazil	13/1

1.03

### Section 13. Disposal considerations

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	UN2920	UN2920	UN2920
UN proper shipping name	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
	(4-nonylphenol, branched, xylene)	(4-nonylphenol, branched, xylene)	(4-nonylphenol, branched, xylene)
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.	(Polyamide)	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 $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

Transport in bulk according	1	Not applicable.
to IMO instruments		

## Section 15. Regulatory information

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

Date of issue

# Section 16. Other information

<u>History</u>	
Date of previous issue	: 10/10/2024
Version	: 1.03
Prepared by	: EHS
Key to abbreviations	<ul> <li>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</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.