# **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 INDUSTRIES CHILE S.A.</li> <li>Puerto Madero 9710, Of. 23</li> <li>Pudahuel - Chile</li> <li>Teléfono: +56 (2) 2571 0750</li> <li>Fax: +56 (2) 2571 0752</li> </ul>
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: +56 (2) 2777 1994 (RITA CHILE)

# 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>
---	--

English (US)			
	Enalish	(US)	

Code00444783Product nameSIGMACOV	ER 380 HARDENER	Date of issue	22 October 2024	Version	1.03
Section 2. Hazards	s identifica	ation			
Target organs	Contains ma lungs, the ne	terial which may cau ervous system, the re	damage to the following or use damage to the followin eproductive system, liver, u ars, eye, lens or cornea.	g organs: bloo	d, kidneys,
	Percentage toxicity: 59.6		ting of ingredient(s) of unl	known acute in	halation
GHS label elements					
Hazard pictograms				7	
Signal word	: Danger				
Hazard statements	May be harm Causes seve May cause a Harmful if inl May cause ro Suspected o Suspected o	iquid and vapor. Iful if swallowed or in the skin burns and ey n allergic skin reaction naled. espiratory irritation. f causing cancer. f damaging fertility o aquatic life with long	ye damage. on. r the unborn child.		
Precautionary statements	-		-		
Prevention	and eye or fa flames and c ventilating or	ace protection. Keep other ignition sources lighting equipment.	e use. Wear protective glo 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: In Immediately vomiting. IF Rinse skin w irritation or ra clothing befo Remove con	nmediately call a PO call a POISON CEN ON SKIN (or hair): 1 ith water. Immediate ash occurs: Get med ire reuse. IF IN EYE	oncerned: Get medical ad DSON CENTER or doctor. TER or doctor. Rinse mo Fake off immediately all co ely call a POISON CENTE lical advice or attention. W S: Rinse cautiously with w nt and easy to do. Continu pr.	IF SWALLOV uth. Do NOT ir ontaminated clo R or doctor. If Vash contamin vater for severa	VED: nduce othing. f skin ated al minutes.
Storage	: Store in a we	ell-ventilated place. k	Keep container tightly close	ed. Keep cool.	
Disposal		ontents and containe onal regulations.	er in accordance with all lo	cal, regional, r	national
Other hazards which do not result in classification	: Causes dige cause irritation		olonged or repeated conta	act may dry ski	n and
Classification according to NCh382:	: 8 (3)				

Chile

2/15

Code	00444783		Date of issue	22 October 2024	Version	1.03
Product nam	ne	SIGMACOVER 380 HARDENER				

### Section 2. Hazards identification

Label according to NCh2190:



# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

### CAS number/other identifiers

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

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	<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>

English (US) Chile
--------------------

Code 00444783	Date of	ssue 22 October 2024	Version 1.03
Product name SIGMACC	OVER 380 HARDENER		
Section 4. First a	id measures		
Protection of first-aiders		n involving any personal risk or s are still present, the rescuer sl	

		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.
Skin contact	:	Causes severe burns. May be harmful in contact with skin. Defatting to the skin. 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, protective equipment and emergency procedures				
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide			
For emergency responders	<ul> <li>adequate ventilation. Wear appropriate respirator when ventilation is inadequate.</li> <li>Put on appropriate personal protective equipment.</li> <li>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".</li> </ul>			

### 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** : 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 handling 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 nonsparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. : Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in Conditions for safe storage,

**Conditions for safe storage, including any incompatibilities incompatibilities** 

English (	(US)
-----------	------

1.03

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits					
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with					

✓atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Not regulated.
xylene	Ministry of Health (Chile, 2/2018) [Xileno] TWA 8 hours: 380 mg/m <sup>3</sup> . TWA 8 hours: 87 ppm. STEL 15 minutes: 150 ppm. STEL 15 minutes: 651 mg/m <sup>3</sup> .
4-nonylphenol, branched	Not regulated.
2-methylpropan-1-ol	Ministry of Health (Chile, 2/2018) TWA 8 hours: 133 mg/m³. TWA 8 hours: 44 ppm.
2,4,6-tris(dimethylaminomethyl)phenol	Not regulated.
ethylbenzene	Ministry of Health (Chile, 2/2018) TWA 8 hours: 380 mg/m <sup>3</sup> . TWA 8 hours: 87 ppm. STEL 15 minutes: 125 ppm. STEL 15 minutes: 543 mg/m <sup>3</sup> .
3,6-diazaoctanethylenediamin	Not regulated.
toluene	Ministry of Health (Chile, 2/2018) Absorbed through skin.
	TWA 8 hours: 328 mg/m <sup>3</sup> .
	TWA 8 hours: 87 ppm.
	STEL 15 minutes: 560 mg/m <sup>3</sup> .
	STEL 15 minutes: 150 ppm.
<b>Recommended monitoring</b> : Reference should be made to appro	priate monitoring standards. Reference to

Recommended monitoring procedures	na	eference should be made to appropriate monitoring standards. Reference to ational guidance documents for methods for the determination of hazardous ubstances will also be required.
Appropriate engineering controls	ve co al	lse only with adequate ventilation. Use process enclosures, local exhaust entilation or other engineering controls to keep worker exposure to airborne ontaminants below any recommended or statutory limits. The engineering controls lso need to keep gas, vapor or dust concentrations below any lower explosive mits. Use explosion-proof ventilation equipment.
Environmental exposure controls	th Ca	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.
Individual protection measur	<u>es</u>	
Hygiene measures	b A C c	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. ppropriate 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.
Eye protection Skin protection	: C	hemical splash goggles and face shield.

# Section 8. Exposure controls/personal 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 Other skin protection	<ul> <li>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.</li> <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</li> </ul>
	approved by a specialist before handling this product.
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

#### Appearance

<u>Appearance</u>			
Physical state	:	Liquid.	
Color	1	Not available.	
Odor	:	Amine-like.	
рН	1	Not applicable.	
Melting point	1	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	<b>C</b> losed cup: 27°C (80.6°F	·)
Evaporation rate	:	Not available.	
Flammability (solid, gas)	:	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Relative density	:	0.91	
Solubility(ies)		Media	Result
oordonity(ics)	col	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	

Chile

English (US)

Code 00444783		Date of issue	22 October 2024	Version	1.03		
Product name SIGMAC	OVER 380 HARDENER						
Section 9. Physical and chemical properties							
Viscosity	: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)						
Viscosity	: 30 - <40 s (ISO	6mm)					
Section 10. Stab	ility and react	ivity					
Reactivity	: No specific test	No specific test data related to reactivity available for this product or its ingredients.					
Chemical stability	: The product is s	: The product is stable.					
Possibility of hazardous reactions	: Under normal co	: 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	<ul> <li>Depending on conditions, decomposition products may include the following mate carbon oxides nitrogen oxides</li> </ul>						

# Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
✓atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty	LD50 Dermal	Rat	>2000 mg/kg	-
acids and				
triethylenetetramine				
-	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				
F	LD50 Oral	Rat	1200 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
5	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	-
	I	English (	US) Chile	-

Eyes - Severe irritant

Result

**Score** 

Exposure

24 hours 500

mg

**Observation** 

dimers, oligomeric reaction products with tall-oil fatty Skin - Irritant Human Skin - Moderate irritant Rabbit 4-nonylphenol, branched Skin - Erythema/Eschar Rabbit Δ **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. .

**Species** 

Rabbit

#### Respiratory **Sensitization**

acids and

xylene

Skin

**Eves** 

**Product/ingredient name** 

Fatty acids, C18-unsatd.,

triethylenetetramine

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitizing
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitizing

**Conclusion/Summary** 

Skin

: There are no data available on the mixture itself. : There are no data available on the mixture itself.

Respiratory **Mutagenicity** 

Not available.

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

#### **Carcinogenicity**

Not available.

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
xylene	-	3	-
ethylbenzene		2B	-
toluene		3	-

**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

English	(119)	
English	(03)	

Date of issue

# Section 11. Toxicological information

#### 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		Route of exposure	Target organs
xylene	Category 3		Respiratory tract irritation
2-methylpropan-1-ol	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
toluene	Category 3	-	Narcotic effects

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

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

#### 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 : Not available.

routes of exposure

Potential acute health	<u>effects</u>
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. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.

#### Symptoms related to the physical, chemical and toxicological characteristics

English (US)

Date of issue

1.03

# Section 11. Toxicological information

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. 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.
<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.
Long term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.

English (US)

Chile

# Section 11. Toxicological information

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

#### Potential chronic health effects

Not available.

General Carcinogenicity	<ul> <li>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.</li> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.</li> </ul>
Mutagenicity Reproductive toxicity	<ul><li>No known significant effects or critical hazards.</li><li>Suspected of damaging fertility or the unborn child.</li></ul>

#### 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 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	Crustaceans - Moina macrocopa	48 hours
31 2	Acute LC50 0.221 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris	Acute LC50 >100 mg/l	Daphnia	48 hours
(dimethylaminomethyl)phenol			
	Acute LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

English (US)

Chile

12/15

Code	00444783		Date of issue	22 October 2024	Version	1.03
Product nam	e	SIGMACOVER 380 HARDENER				

# Section 12. Ecological information

#### Persistence/degradability

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		Biodeg	radability
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine xylene 2,4,6-tris (dimethylaminomethyl)phenol	-		-		Not rea Readily Not rea	, dily
ethylbenzene toluene	-  -		-  -		Readily Readily	

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	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
	English (US) Chile 13/15

### Section 13. Disposal considerations

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

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN2920	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.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
	(4-nonylphenol, branched, xylene)	(4-nonylphenol, branched, xylene)	(4-nonylphenol, branched, xylene)	(4-nonylphenol, branched, xylene)
Transport hazard class(es)	8 (3)	8 (3)	8 (3)	8 (3)
Packing group	II	II	II	II
Environmental hazards Marine pollutant	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. (Polyamide)	Yes. The environmentally hazardous substance mark is not required. Not applicable.
Marine pollutant substances	Not applicable.	Not applicable.	(Polyamide)	Not applicable.

#### **Additional information**

UN	: None identified.
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	: NCh 382 - Hazardous substances - General terminology and classification.
environmental regulations	NCh 2245 - Material Safety Data Sheet for Chemicals - Contents and section order.
specific for the product	D. S. 148 - Sanitary regulations on hazardous waste management.
	D. S. 298 - Transport of dangerous goods by road.
	D. S. 374 – Limit for Lead content in paints.
	D. S. 594 - Regulation on basic sanitary and environmental conditions at workplace.

Date of issue

### Section 16. Other information

<u>History</u>	
Date of previous issue	: 10/10/2024
Version	: 1.03 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</li> <li>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.

Chile