# **SAFETY DATA SHEET**



Date of issue 9 October 2024

Version 1.03

## Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMACOVER 280 LT HARDENER
- : 000001016544
- : 00181453; 00204224
- : 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 Colombia Ltda Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)</li> </ul>
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: Colombia: 01 8000 916012 (CISPROQUIM) + 571 288 6012 (CISPROQUIM) Ecuador: 1800-59-3005 (CISPROQUIM) Peru: 080-050-847 (CISPROQUIM)

## Section 2. Hazards identification

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2	Classification of the substance or mixture	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 2
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Contine 2 Hora	la identification
Section 2. Hazard	
Target organs	: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys lungs, the nervous system, liver, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 23.3%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 26% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation
	toxicity: 45.4% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 23.3%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. May be harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. (hearing organs) 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.
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. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Section 2. Hazards identification

Other hazards which do not<br/>result in classificationCauses digestive tract burns. Prolonged or repeated contact may dry skin and<br/>cause irritation.

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: 00181453; 00204224
identification	

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

CAS number : Not applicable.				
Ingredient name	%	CAS number		
ethylbenzene	15 - <20	100-41-4		
2-methylpropan-1-ol	15 - <20	78-83-1		
xylene	15 - <20	1330-20-7		
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	12.5 - <15	68082-29-1		
2,4,6-tris(dimethylaminomethyl)phenol	3 - <5	90-72-2		
Formaldehyde, polymer with N,N-dimethyl-1,3-propanediamine and phenol 3,6-diazaoctanethylenediamin	2 - <3 1 - <2	445498-00-0 112-24-3		

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	: 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 medic	al 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>				
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.				

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# Section 4. First aid measures

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 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 adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Section 6. Accidental release measures

Methods and materials for containment and cleaning upSmall spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools<br/>and explosion-proof equipment. Dilute with water and mop up if water-soluble.<br/>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an<br/>appropriate waste disposal container. Dispose of via a licensed waste disposal

contractor.
 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. 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>

# Section 8. Exposure controls/personal protection

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Ingredient name			Exposure	limits	
ethylbenzene			Ototoxican	<b>.V (United States, 7/2023)</b> nt. ours: 20 ppm.	
2-methylpropan-1-ol			ACGIH TL TWA 8 h	V (United States, 7/2023) ours: 50 ppm. ours: 152 mg/m <sup>3</sup> .	
xylene			ACGIH TL xylene an Ototoxicar	.V (United States, 7/2023) [p- d mixtures containing p-xyle	ne]
Recommended monitoring procedures	:	Reference should be made to approp national guidance documents for meth substances will also be required.			
Appropriate engineering controls	:	Use only with adequate ventilation. U ventilation or other engineering contro contaminants below any recommende also need to keep gas, vapor or dust o limits. Use explosion-proof ventilation	ls to keep v ed or statuto concentratio	vorker exposure to airborne ory limits. The engineering con ons below any lower explosive	trols
Environmental exposure controls	:	Emissions from ventilation or work pro they comply with the requirements of cases, fume scrubbers, filters or engine equipment will be necessary to reduce	ocess equip environmen neering moo	ment should be checked to en tal protection legislation. In so difications to the process	
dividual protection measur	es				
Hygiene measures	:	Wash hands, forearms and face thord before eating, smoking and using the Appropriate techniques should be use Contaminated work clothing should no contaminated clothing before reusing showers are close to the workstation	lavatory and ed to remove ot be allowe Ensure tha	d at the end of the working per e potentially contaminated cloth d out of the workplace. Wash	ning.
Eye protection	:	Chemical splash goggles and face sh			
Skin protection		Chamical registent impensious gloves		with an approved standard sh	مىياط
Hand protection		Chemical-resistant, impervious gloves 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 different for different glove manufactu several substances, the protection time estimated.	emical prod rameters sp still retaining through for rers. In the	lucts if a risk assessment indic becified by the glove manufactury their protective properties. It any glove material may be case of mixtures, consisting o	ates urer,
Gloves		nitrile neoprene			
Body protection		Personal protective equipment for the being performed and the risks involve before handling this product. When the wear anti-static protective clothing. For discharges, clothing should include an	d and shoul here is a risl or the great hti-static ove	ld be approved by a specialist k of ignition from static electrici est protection from static eralls, boots and gloves.	
Other skin protection	:	Appropriate footwear and any addition selected based on the task being perf approved by a specialist before handl	ormed and	the risks involved and should b	be
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	Sectio	n 8. Exposure controls	/personal prot	ection		

<ul> <li>Respiratory protection</li> <li>Respirator selection must be based on known or anticipated exponent hazards of the product and the safe working limits of the selected workers are exposed to concentrations above the exposure limit, appropriate, certified respirators. Use a properly fitted, air-purifying respirator complying with an approved standard if a risk assessmencessary.</li> </ul>	ed respirator. If t, they must use <i>y</i> ing or air-fed
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## Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	:	Liquid.
Color	1	Clear.
Odor	1	Amine-like.
рН	1	Not applicable.
Melting point	:	Not available.
Boiling point	:	>37.78°C (>100°F)
Flash point	:	Closed cup: 29°C (84.2°F)
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	0.92
		Media Result
Solubility(ies)	-	cold water Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	335°C (635°F)
Decomposition temperature	:	Not available.
Viscosity	-	Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Viscosity	1	60 - 100 s (ISO 6mm)

# 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.

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Incompatible materials	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition	Depending on conditions, decomposition products may include the following materials

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Hazardous decomposition products

# Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity						
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	-		
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	-		
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-		
	LD50 Oral	Rat	4.3 g/kg	-		
Fatty acids, C18-unsatd.,	LD50 Dermal	Rat	>2000 mg/kg	-		
dimers, oligomeric reaction						
products with tall-oil fatty						
acids and						
triethylenetetramine						
	LD50 Oral	Rat	>2000 mg/kg	-		
2,4,6-tris	LD50 Dermal	Rat	1280 mg/kg	-		
(dimethylaminomethyl)						
phenol						
	LD50 Oral	Rat	1200 mg/kg	-		
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-		
	LD50 Oral	Rat	1716 mg/kg	-		

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

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
-	Skin - Irritant	Human	-	-	-
Conclusion/Summary					
Skin	: There are no data avai	able on the mi	xture itself.		
Eyes Respiratory	<ul> <li>There are no data avai</li> <li>There are no data avai</li> </ul>				

### Respiratory

**Sensitization** 

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Section 11. Toxico			ion		
Product/ingredient name	Route of exposure	Species		Result	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6-diazaoctanethylenediamin	skin	Mouse	oia	Sensitizing	
Conclusion/Summary Skin Respiratory <u>Mutagenicity</u> Not available. Conclusion/Summary Carcinogenicity Not available.	: There are	e no data availa	ble on the mixtur ble on the mixtur ble on the mixtur	re itself.	
Conclusion/Summary Classification	: There are	e no data availa	ble on the mixtu	re itself.	
Product/ingredient name	OSHA	IARC NTP			
ethylbenzene xylene	-	2B - 3 -			
Carcinogen Classification of IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a OSHA: + Not listed/not regula Reproductive toxicity Not available. Conclusion/Summary	a human carcir ated: -		/ anticipated to be a		
Teratogenicity Not available.					
Conclusion/Summary Specific target organ toxicity			ble on the mixtu	re itself.	
Name			Category	Route of exposure	Target organs
2-methylpropan-1-ol			Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
xylene			Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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## Section 11. Toxicological information

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, upper respiratory tract, skin, central nervous<br/>system (CNS), ears, eye, lens or cornea.

#### Aspiration hazard

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

Information on the likely routes of exposure	: Not available.
Potential acute health effe	<u>cts</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.
	hysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

## Section 11. Toxicological information

Conclusion/Summary	<ul> <li>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 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.</li> </ul>
<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.
Long term exposure	
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	<u>ects</u>
Not available.	
General	· May cause damage to organs through prolonged or repeated exposure Prolonged

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General: May cause damage to organs through prolonged or repeated exposure. Prolonged<br/>or repeated contact can defat the skin and lead to irritation, cracking and/or<br/>dermatitis. Once sensitized, a severe allergic reaction may occur when<br/>subsequently exposed to very low levels.Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of<br/>exposure.Mutagenicity: No known significant effects or critical hazards.Reproductive toxicity: No known significant effects or critical hazards.

#### 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)
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Section 11. Toxicological info	ormation				
SIGMACOVER 280 LT HARDENER	2448.8	2753.8	N/A	21.5	2.3
ethylbenzene	3500	17800	N/A	17.8	1.5
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
xylene	4300	1700	N/A	11	1.5
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	1200	1280	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
3,6-diazaoctanethylenediamin	1716	1465	N/A	N/A	N/A

#### Other information

: Not available.

# Section 12. Ecological information

#### **Ecotoxicity**

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

### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene 2,4,6-tris (dimethylaminomethyl)phenol	- OECD 301D Ready Biodegradability - Closed Bottle Test		dily - 10 days eadily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
ethylbenzene xylene Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 2,4,6-tris (dimethylaminomethyl)phenol	-		-		Readily Readily Not rea	, idily

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## Section 12. Ecological information

Product/ingredient name	Potential			
Troduct/Ingreatent name	LogPow	BCF	Totonia	
ethylbenzene	3.6	79.43	Low	
2-methylpropan-1-ol	1	-	Low	
xylene	3.12	7.4 to 18.5	Low	
2,4,6-tris	0.219	-	Low	
(dimethylaminomethyl)phenol				
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	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 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	UN3469	UN3469	UN3469	UN3469
UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE
Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)
Packing group	III	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
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Product name	SIGMACOVER 280 LT HARDE	NER				
Section 14. Transport information						
Marine pollutant substances	Not applicable.	Not applicable.	(Polyamide)	Not applicable.		

UN	: None identified.
Brazil	: None identified.
<b>Risk number</b>	: 38
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ .
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

Η	isto	ory

Date of previous issue	: 5/22/2024
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 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.

Code	000001016544	Date of issue	9 October 2024	Version	1.03
Product nam	e SIGMACOVER 280 LT HARDENE	R			

## Section 16. Other information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.