# **SAFETY DATA SHEET**



Date of issue 9 October 2024

Version 1.04

### Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : AMERLOCK / SIGMACOVER 2 HARDENER
- : 000001194602
- : 00311807; 00466370; 00466890
- : 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	: PPG Industries Uruguay SA Av. Italia 5846 esq. Ancona – Montevideo Uruguay Tel. +598 26000514 Fax. +598 26003032
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: Hospital de Clinicas- CIAT- 1722

# Section 2. Hazards identification

SERIOUS EYE DAMAGE - 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	Classification of the substance or mixture	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
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English (US)	Uruguay	1/15

# Section 2. Hazards identification

Target organs	: Contains material which causes damage to the following organs: blood, liver, heart, brain, skin, central nervous system (CNS).
	Contains material which may cause damage to the following organs: kidneys, lungs, the reproductive system, cardiovascular system, upper respiratory tract, bones, eye, lens or cornea.
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 14.1%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 59.8%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 70.1%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 69.9%
GHS label elements	
Hazard pictograms	

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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. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Avoid breathing 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 : Causes digestive tract burns. Prolonged or repeated contact may dry skin and result in classification cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Other means of identification	:	00311807; 00466370; 00466890

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

<b>CAS number</b> : Not applicable.		
Ingredient name	%	CAS number
🔽 alc , not containing asbestiform fibres	30 - <60	14807-96-6
4-methylpentan-2-one	10 - <12.5	108-10-1
Polyaminoamide	7 - <10	68082-29-1
benzyl alcohol	3 - <5	100-51-6
2,4,6-tris(dimethylaminomethyl)phenol	3 - <5	90-72-2
cyclohexanone	3 - <5	108-94-1
3-aminomethyl-3,5,5-trimethylcyclohexylamine	3 - <5	2855-13-2
4-nonylphenol, branched	3 - <5	84852-15-3
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-	3 - <5	38294-64-3
2,3-epoxypropane, reaction products with 3-aminomethyl-		
3,5,5-trimethylcyclohexylamine		
2-methylpropan-1-ol	2 - <3	78-83-1
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	2 - <3	68515-49-1
Fatty acids, tall-oil, reaction products with diethylenetriamine	0.5 - <1	61790-69-0
salicylic acid	0.2 - <0.5	69-72-7

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	: 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	nedical attention and special treatment needed, if necessary
Notes to physician	: 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.
	English (US) Uruguay 3/15

# Section 4. First aid measures

Specific treatments	1	
		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	1	Causes serious eye damage.
Inhalation	1	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	4	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 halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# Section 6. Accidental release measures

Personal precautions, pro	stective 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.

Code 000001194602 Product name AMERLO	Date of issue CK / SIGMACOVER 2 HARDENER	9 October 2024	Version	1.04
Section 6. Accide	ental release measures			
For emergency responders	<ul> <li>If specialized clothing is required to information in Section 8 on suitable information in "For non-emergency  </li> </ul>	and unsuitable materia		
Environmental precautions	: Avoid dispersal of spilled material and drains and sewers. Inform the releva environmental pollution (sewers, wat May be harmful to the environment it	ant authorities if the pro terways, soil or air).  Wa	duct has cause ater polluting ma	d aterial.
Methods and materials for o	containment and cleaning up			
Small spill	: Stop leak if without risk. Move conta and explosion-proof equipment. Dilu Alternatively, or if water-insoluble, ab appropriate waste disposal container contractor.	ute with water and mop psorb with an inert dry n	up if water-solunaterial and place	ble. ce in an
Large spill	: Stop leak if without risk. Move conta and explosion-proof equipment. App sewers, water courses, basements of effluent treatment plant or proceed a combustible, absorbent material e.g. and place in container for disposal and Dispose of via a licensed waste disp material may pose the same hazard emergency contact information and s	proach release from up or confined areas. Was is follows. Contain and sand, earth, vermiculit ccording to local regula osal contractor. Contai as the spilled product.	wind. Prevent e h spillages into collect spillage e or diatomaced tions (see Secti minated absorbe Note: see Secti	ntry into an with non- ous earth on 13). ent
Section 7. Handli	ng and storage			
Precautions for safe handling	<ul> <li>Put on appropriate personal protect history of skin sensitization probler which this product is used. Avoid exposure during pregnancy.</li> </ul>	ms should not be emplo exposure - obtain speci	oyed in any proc al instructions b	ess in efore use.

	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.
ons for safe storage, g any	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store

been read and understood. Do not get in eyes or on skin or clothing. Do not

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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.

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# Section 8. Exposure controls/personal protection

#### **Control parameters**

### **Occupational exposure limits**

Ingredient name		Exposure limits
ralc , not containing asbestif	orm fibres	ACGIH TLV (United States, 7/2023) TWA 8 hours: 2 mg/m <sup>3</sup> . Form: Respirable fraction.
4-methylpentan-2-one		ACGIH TLV (United States, 7/2023) TWA 8 hours: 20 ppm. STEL 15 minutes: 75 ppm.
cyclohexanone		ACGIH TLV (United States, 7/2023) Absorbed through skin. TWA 8 hours: 20 ppm.
2-methylpropan-1-ol		STEL 15 minutes: 50 ppm. <b>Ministry of Labor and Employment (Brazil</b> <b>11/2001)</b> TWA 8 hours: 40 ppm. TWA 8 hours: 115 mg/m <sup>3</sup> .
Recommended monitoring procedures		appropriate monitoring standards. Reference to or methods for the determination of hazardous d.
Appropriate engineering controls	ventilation or other engineering contaminants below any recom	ion. Use process enclosures, local exhaust controls to keep worker exposure to airborne mended or statutory limits. The engineering controls r dust concentrations below any lower explosive itilation equipment.
Environmental exposure controls	: Emissions from ventilation or w they comply with the requireme cases, fume scrubbers, filters of	ork process equipment should be checked to ensure nts of environmental protection legislation. In some or engineering modifications to the process reduce emissions to acceptable levels.
ndividual protection measur	<u>es</u>	
Hygiene measures Eye protection <u>Skin protection</u>	before eating, smoking and usi Appropriate techniques should Contaminated work clothing sho	
Hand protection	be worn at all times when hand this is necessary. Considering check during use that the glove should be noted that the time to different for different glove man	gloves complying with an approved standard should ling chemical products if a risk assessment indicates the parameters specified by the glove manufacturer, as are still retaining their protective properties. It be breakthrough for any glove material may be sufacturers. In the case of mixtures, consisting of
	several substances, the protect estimated.	tion time of the gloves cannot be accurately

English (US)

Uruguay

#### 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. : Appropriate footwear and any additional skin protection measures should be Other skin protection selected based on the task being performed and the risks involved and should be 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

<u>Appearance</u>				
Physical state	:	Liquid.		
Color	1	Colorless.		
Odor	1	Amine-like. [Strong]		
рН	:	Not applicable.		
Melting point	:	Not available.		
Boiling point	:	>37.78°C (>100°F)		
Flash point	:	Closed cup: 39°C (102.2°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	:	1.36		
Solubility/icc)		Media Result		
Solubility(ies)	•	cold water Not soluble		
Partition coefficient: n- octanol/water	:	Not applicable.		
Auto-ignition temperature	:	Not available.		
Decomposition temperature	:	Not available.		
Viscosity	:			
Viscosity	;	40 - <60 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.	
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.	
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materia carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides	ils:

### Section 11. Toxicological information

### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
,	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
2,4,6-tris	LD50 Dermal	Rat	1280 mg/kg	-
(dimethylaminomethyl)			00	
phenol				
•	LD50 Oral	Rat	1200 mg/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
, ,	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
3-aminomethyl-	LC50 Inhalation Dusts and mists	Rat	>5.01 mg/l	4 hours
3,5,5-trimethylcyclohexylamine			Ŭ	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1030 mg/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	-
1,2-Benzenedicarboxylic	LD50 Dermal	Rabbit	16000 mg/kg	-
acid, di-C9-11-branched				
alkyl esters, C10-rich				
-	LD50 Oral	Rat	>60000 mg/kg	-
salicylic acid	LD50 Oral	Rat	0.891 g/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

ode 000001194602 Product name AMERLOCI	( / SIGMACOVI		Date of is DENER	sue	9 Octob	oer 2024	Ver	rsion 1.04
Section 11. Toxico	ological	info	rmat	ion				
Product/ingredient name	Result			Species	Score	•	Exposure	Observation
-nonylphenol, branched	Skin - Eryth	nema/Es	char	Rabbit	4		-	-
<u>Conclusion/Summary</u> Skin Eyes Respiratory <u>Sensitization</u>	: There ar	e no dat	a availa	ble on the mi ble on the mi ble on the mi	xture itsel	lf.		
Product/ingredient name	Route of	\$	Species			Resu	lt	
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	<b>exposure</b> skin		Guinea	pig		Sensi	tizing	
Mutagenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary Classification				ble on the mi ble on the mi				
Product/ingredient name	OSHA	IARC	NTF	)				
4-methylpentan-2-one cyclohexanone	-	2B 3	-					
Carcinogen Classification IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: + Not listed/not regul Reproductive toxicity Not available.	4 a human carci	nogen; R	easonabl	y anticipated to	be a humai	n carcin	ogen	
Conclusion/Summary Teratogenicity Not available.	: There ar	e no dat	a availa	ble on the mi	xture itsel	lf.		
Conclusion/Summary	• There or	o no dat		hle on the mi	vturo iteol	f		

**Conclusion/Summary** : There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

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# Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Narcotic effects
cyclohexanone	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Fatty acids, tall-oil, reaction products with diethylenetriamine	Category 2	oral	-

#### Target organs

: Contains material which causes damage to the following organs: blood, liver, heart, brain, skin, central nervous system (CNS).

Contains material which may cause damage to the following organs: kidneys, lungs, the reproductive system, cardiovascular system, upper respiratory tract, bones, eye, lens or cornea.

### Aspiration hazard

Name	Result
4-methylpentan-2-one	ASPIRATION HAZARD - Category 2
benzyl alcohol	ASPIRATION HAZARD - Category 2
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2

Information on the likely routes of exposure Potential acute health effects		Not available.
Eye contact	:	Causes serious eye damage.
Inhalation	1	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 phy	sic	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following:

:	Adverse symptoms may include the following: pain watering redness
	•

# Section 11. Toxicological information

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	Phere 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.
Short 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.
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 effe	ects
Not available.	

# Section 11. Toxicological information

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

### Numerical measures of toxicity

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
MERLOCK / SIGMACOVER 2 HARDENER	3786.7	2943.2	55794.4	32.0	4.4
4-methylpentan-2-one	2080	N/A	N/A	11	1.5
benzyl alcohol	1200	2500	N/A	N/A	N/A
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A
cyclohexanone	1800	1100	8000	N/A	N/A
3-aminomethyl-3,5,5-trimethylcyclohexylamine	1030	2500	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	N/A	16000	N/A	N/A	N/A
Fatty acids, tall-oil, reaction products with diethylenetriamine	500	N/A	N/A	N/A	N/A
salicylic acid	891	N/A	N/A	N/A	N/A

### **Other information**

: Not available.

# Section 12. Ecological information

Ε	co	to	X	С	ity	
					_	

Product/ingredient name	Result	Species	Exposure
и methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
2,4,6-tris	Acute LC50 >100 mg/l	Daphnia	48 hours
(dimethylaminomethyl)pheno			
	Acute LC50 >100 mg/l	Fish	96 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
salicylic acid	Acute EC50 1147.57 mg/l Fresh water	Daphnia - Daphnia longispina -	48 hours
-		Neonate	
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days

### Persistence/degradability

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### Section 12. Ecological information

Product/ingredient name	Test	Result		Dose		Inoculum	
<ul> <li>methylpentan-2-one</li> <li>2,4,6-tris</li> <li>(dimethylaminomethyl)phenol</li> </ul>	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test		dily - 28 days eadily - 28 days	-		-	
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability	
<ul> <li>methylpentan-2-one</li> <li>benzyl alcohol</li> <li>2,4,6-tris</li> <li>(dimethylaminomethyl)phenol</li> </ul>	-		- -		Readily Readily Not rea	/	

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
-methylpentan-2-one	1.9	-	Low
benzyl alcohol	0.87	-	Low
2,4,6-tris	0.219	-	Low
(dimethylaminomethyl)phenol			
cyclohexanone	0.86	-	Low
3-aminomethyl-	0.99	-	Low
3,5,5-trimethylcyclohexylamine			
4-nonylphenol, branched	5.4	251.19	Low
4,4'-Isopropylidenediphenol,	-	5.13	Low
oligomeric reaction products			
with 1-chloro-			
2,3-epoxypropane, reaction			
products with 3-aminomethyl-			
3,5,5-trimethylcyclohexylamine			
2-methylpropan-1-ol	1	-	Low
1,2-Benzenedicarboxylic	8.8	-	High
acid, di-C9-11-branched			
alkyl esters, C10-rich			
salicylic acid	2.21 to 2.26	-	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible.<br/>Disposal of this product, solutions and any by-products should at all times comply<br/>with the requirements of environmental protection and waste disposal legislation<br/>and any regional local authority requirements. Dispose of surplus and non-<br/>recyclable products via a licensed waste disposal contractor. Waste should not be<br/>disposed of untreated to the sewer unless fully compliant with the requirements of<br/>all authorities with jurisdiction. Waste packaging should be recycled. Incineration<br/>or landfill should only be considered when recycling is not feasible. This material

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# Section 13. Disposal considerations

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	UN3470	UN3470	UN3470	UN3470
UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
Transport hazard class(es)	8 (3)	8 (3)	8 (3)	8 (3)
Packing group	II	II	II	I
Environmental hazards Marine pollutant substances	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. The environmentally hazardous substance mark is not required. Not applicable.	Yes. (4-nonylphenol, branched)	Yes. The environmentally hazardous substance mark is not required. Not applicable.

#### **Additional information**

UN	: None identified.
Brazil	: None identified.
Risk number	: 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 : 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).

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### Section 16. Other information

<u>History</u>	
Date of previous issue	: 8/10/2023
Version	: <b>1.04</b> 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.