# **SAFETY DATA SHEET**



Date of issue 10 August 2023

Version 1.01

### 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 ARGENTINA S.R.L. Calle 9 y Del gasoducto N° 3810 Parque Industrial Pilar -(CP 1629) Pilar Provincia de Buenos Aires - Argentina Teléfono : 54-0230 4529700 Fax : 54-0230 4529706
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: Centro de intoxicaciones 0800-333-0160 /CIQUIME 0800-222-2933

## Section 2. Hazards identification

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
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	English (US)	Argentina	1/15

### Section 2. Hazards identification

Target organs	<ul> <li>Contains material which causes damage to the following organs: blood, liver, heart, brain, skin, central nervous system (CNS).</li> </ul>
	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	
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. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Section 2. Hazards identification

result in classification

Other hazards which do not : Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Other means of identification	:	00311807; 00466370; 00466890

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

CAS number : 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- 2,3-epoxypropane, reaction products with 3-aminomethyl-	3 - <5	38294-64-3
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</li> </ul>
	attention.
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	: 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) Argentina 3/15

## Section 4. First aid measures

Specific treatments	:	
		No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	Harmful if inhaled. May cause respiratory irritation.
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 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, 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.					

Code 000001194602 Product name AMERLO	OCK / SIGMACOVE	Date of issue ER 2 HARDENER	10 August 2023	Version	1.01
Section 6. Accide	ental rele	ease measures			
For emergency responder	informatio	zed clothing is required to on in Section 8 on suitable on in "For non-emergency	e and unsuitable material		
Environmental precautions	drains and environme	persal of spilled material a d sewers. Inform the relevental pollution (sewers, wa armful to the environment	vant authorities if the pro- aterways, soil or air).  Wa	duct has cause iter polluting ma	d aterial.
Methods and materials for	containment a	and cleaning up			
Small spill	and explose Alternative	if without risk. Move cont sion-proof equipment. Di ely, or if water-insoluble, a te waste disposal containe :	lute with water and mop bsorb with an inert dry m	up if water-solu aterial and place	ble. ce in an
Large spill	and explos sewers, w effluent tre combustib and place Dispose o material m	if without risk. Move cont sion-proof equipment. Ap rater courses, basements eatment plant or proceed ole, absorbent material e.g in container for disposal a f via a licensed waste disp nay pose the same hazard by contact information and	pproach release from upv or confined areas. Was as follows. Contain and g. sand, earth, vermiculite according to local regulat posal contractor. Contar d as the spilled product.	vind. Prevent e h spillages into collect spillage e or diatomaced ions (see Secti ninated absorb Note: see Secti	entry into an with non- ous earth on 13). ent
Section 7. Handl	ing and s	storage			
Precautions for safe handling	history o which th Avoid ex	appropriate personal prote of skin sensitization proble is product is used. Avoid (posure during pregnancy ad and understood. Do p	ems should not be emplo exposure - obtain specia . Do not handle until all	yed in any proc al instructions b safety precautio	ess in efore use. ons have

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

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## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
ralc , not containing asbesti	fibres Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable fibers: length> 5 .mu.m; Length / diameter ratio (aspect) <sup>3</sup> 3: 1, determined by the membrane filter method at 400 - 450 x magnification (4mm objective) using illumination of phase contrast – Respirable fraction.
4-methylpentan-2-one	Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003). TWA: 50 ppm 8 hours. STEL: 75 ppm 15 minutes.
cyclohexanone	Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003). Absorbed through skin. TWA: 25 ppm 8 hours.
2-methylpropan-1-ol	Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003). TWA: 50 ppm 8 hours.
Recommended monitoring procedures	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering control also need to keep gas, vapor or dust concentrations below any lower explosive imits. Use explosion-proof ventilation equipment.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
ndividual protection measu	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection Skin protection	Chemical 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 Physical state** : Liquid. Color : Colorless. Odor : Amine-like. [Strong] pН : 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 : Not available. (flammable) limits : Not available. Vapor pressure Vapor density : Not available. **Relative density** 1.36 Media Result Solubility(ies) ŝ cold water Not soluble Partition coefficient: n-: Not applicable. octanol/water Auto-ignition temperature : Not available. **Decomposition temperature** : Not available. English (US) Argentina

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Section 9. Physi	cal and chemical proper	rties		
Viscosity	: Kinematic (40°C (104°F)): >21 m	m²/s (>21 cSt)		
Viscosity	: 40 - <60 s (ISO 6mm)			
Section 10. Stab	ility and reactivity			
Reactivity	: No specific test data related to rea	activity available for this p	product or its ing	gredients.
Chemical stability	: The product is stable.			
Possibility of hazardous reactions	: Under normal conditions of storage	ge and use, hazardous re	actions will not	occur.
Conditions to avoid	: When exposed to high temperatu products.	res may produce hazard	ous decomposit	ion
Incompatible materials	: Keep away from the following ma oxidizing agents, strong alkalis, st		exothermic reac	tions:
Hazardous decompositio products	n : Depending on conditions, decomp carbon oxides nitrogen oxides h			

## Section 11. Toxicological information

#### Information on toxicological effects

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Product/ingredient name	Result	Species	Dose	Exposure
и 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	>4178 mg/m <sup>3</sup>	4 hours
-	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
2,4,6-tris	LD50 Dermal	Rabbit	1.28 g/kg	-
(dimethylaminomethyl)				
phenol				
	LD50 Dermal	Rat	1280 mg/kg	-
	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				
	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	-
		English (US)	Argentina	8/15

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Section 11. Toxico	LD50 Oral		rma	Rat		0.89	1 g/kg	-
Conclusion/Summary rritation/Corrosion	: There ar	e no dat	a availa	able on the mix	ture itse	elf.		
Product/ingredient name	Result			Species	Scor	e	Exposure	Observation
2,4,6-tris (dimethylaminomethyl) phenol	Skin - Visible necrosis		Rabbit	-		4 hours	7 days	
4-nonylphenol, branched	Skin - Erythema/Eschar		Rabbit	4		-	-	
Conclusion/Summary								
Skin	: There ar	e no dat	a availa	able on the mix	ture itse	elf.		
Eyes Respiratory				able on the mix able on the mix				
Sensitization								
Product/ingredient name	Route of exposure	:	Specie	5		Resu	ilt	
aminomethyl- 3,5,5-trimethylcyclohexylamine	skin	1	Guinea	pig	Sensitizing			
Conclusion/Summary Skin Respiratory <u>Autagenicity</u> Not available.				able on the mix able on the mix				
Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary				able on the mix				
<b>Classification</b>								
Product/ingredient name	OSHA	IARC	NTI	C				
methylpentan-2-one cyclohexanone	-	2B 3	-					
Carcinogen Classification of IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: + Not listed/not regula Reproductive toxicity	a human carc	inogen; R	easonab	ly anticipated to I	oe a huma	an carciı	nogen	
Not available.								
Conclusion/Summary <u>Feratogenicity</u> Not available.	: There ar	re no dat	a availa	able on the mix	ture itse	elf.		
Conclusion/Summary Specific target organ toxicit				able on the mix	cture itse	elf.		
spoollio targot organ toxioit	(Single ex	posure	L					

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## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
✓alc , 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

Date of issue

#### 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
benzyl alcohol	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2

	English (US) Argentina 10/1
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
-	pain watering redness
Symptoms related to the phy Eye contact	<ul> <li><u>/sical, chemical and toxicological characteristics</u></li> <li>Adverse symptoms may include the following:</li> </ul>
Ingestion	: May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.
Skin contact	: Causes severe burns. May be harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Eye contact	: Causes serious eye damage.
Potential acute health effect	S
Information on the likely routes of exposure	: Not available.

## Section 11. Toxicological information

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.
<u>Short term exposure</u>		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health effe	ect	<u>S</u>
Not available.		
General	:	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.
Carcinogenicity	1	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	1	Suspected of damaging fertility or the unborn child.

#### Numerical measures of toxicity

1.01

### Section 11. Toxicological information

#### 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	3803.3	2842.0	55794.4	32.0	3.0
4-methylpentan-2-one	2080	N/A	N/A	11	1.5
benzyl alcohol	1230	2000	N/A	N/A	1.5
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

#### **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
и→ и→ и→ и→ и→ и→ и→ и→ и→ и→ и→ и→ и→ и	Acute LC50 >179 mg/l	Fish	96 hours
2,4,6-tris	Acute LC50 175 mg/l	Fish	96 hours
(dimethylaminomethyl)phenol			
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> -	21 days
		Neonate	

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
✓-methylpentan-2-one benzyl alcohol	-		-		Readily Readily	

**Bioaccumulative potential** 

English (US) Arg

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Product name AMERLOCK / SIGMACOVER 2 HA		ACOVER 2 HARDENER			
0		1. <b>f</b>			

### Section 12. Ecological information

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	: 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

### 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	II
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.
Marine pollutant substances	Not applicable.	Not applicable.	(4-nonylphenol, branched)	Not applicable.

Additional inform	ation		
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.		
IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.			
Special precautio	<b>ns for user</b> : <b>Transport within user's premises:</b> 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 to IMO instrument	• • • • • • • • • • • • • • • • • • • •		

### 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	ist	ory

Date of previous issue	:	5/9/2023
Version	:	1.01
		EHS

Code	000001194602	Date of issue	10 August 2023	Version	1.01
Product nam	ne AMERLOCK / SIGMACOVER	2 HARDENER			

## Section 16. Other information

Key to abbreviations	: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
	ADR = The European Agreement concerning the International Carriage of
	Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
	UN = United Nations
References	: ABNT NBR 14725-4: 2014
	ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

#### **Disclaimer**

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