SAFETY DATA SHEET



Date of issue 9 October 2024

Version 1.02

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 Colombia Ltda Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)
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

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1	Classification of the substance or mixture
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English (US)	Colombia	

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	

		\checkmark \checkmark \checkmark \checkmark \checkmark
Signal word	:	Danger
Hazard statements	:	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.
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	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-	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	 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	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) Colombia 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 ₂ , 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	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, pro	otective 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.

English (US)

Code 000001194602 Product name AMERLO	CK / SIGMACOVER 2	Date of issue 2 HARDENER	9 October 2024	Version	1.02
Section 6. Accide	ental relea	se measures			
For emergency responders	information i		le and unsuitable material		
Environmental precautions	drains and se environmenta	ewers. Inform the release of the inform the release of the information (sewers, w	and runoff and contact wit evant authorities if the pro- raterways, soil or air). Wa t if released in large quant	duct has cause iter polluting ma	d aterial.
Methods and materials for	containment and	<u>l cleaning up</u>			
Small spill	and explosion Alternatively,	n-proof equipment. D or if water-insoluble,	ntainers from spill area. U ilute with water and mop o absorb with an inert dry m ner. Dispose of via a licen	up if water-solu aterial and plac	ble. ce in an
Large spill	and explosion sewers, wate effluent treat combustible, and place in Dispose of vi material may	n-proof equipment. A er courses, basements ment plant or proceed absorbent material e. container for disposal a a licensed waste dis pose the same hazar	tainers from spill area. U pproach release from upw s or confined areas. Wash as follows. Contain and .g. sand, earth, vermiculite according to local regulat sposal contractor. Contar rd as the spilled product. d Section 13 for waste dis	vind. Prevent e h spillages into collect spillage e or diatomaced tions (see Secti ninated absorb Note: see Secti	entry into an with non- ous earth on 13). ent
Section 7. Handli	ng and sto	orage			
Precautions for safe handling	history of s which this p	kin sensitization probl product is used. Avoi	ective equipment (see Se ems should not be emplo d exposure - obtain specia y. Do not handle until all	yed in any proc al instructions b	ess in efore use.

Avoid exposure during pregnancy. Do not handle until all safety precautions have
been read and understood. Do not get in eyes or on skin or clothing. Do not
breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only
with adequate ventilation. Wear appropriate respirator when ventilation is
inadequate. Do not enter storage areas and confined spaces unless adequately
ventilated. Keep in the original container or an approved alternative made from a
compatible material, kept tightly closed when not in use. Store and use away from
heat, sparks, open flame or any other ignition source. Use explosion-proof
electrical (ventilating, lighting and material handling) equipment. Use only non-
sparking tools. Take precautionary measures against electrostatic discharges.
Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage,	1	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in
including any		accordance with local regulations. Store in a segregated and approved area. Store
incompatibilities		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.

1.02

Section 8. Exposure controls/personal protection

Date of issue

Control parameters

Occupational exposure limits

Ingredient name			Exposure limits		
Alc , not containing asbestiform fibres		n fibres	ACGIH TLV (United States, 7/2023) TWA 8 hours: 2 mg/m ³ . Form: Respirable		
4-methylpentan-2-one			fraction. ACGIH TLV (United States, 7/2023) TWA 8 hours: 20 ppm. STEL 15 minutes: 75 ppm.		
cyclohexanone			STEL 15 minutes: 75 ppm. ACGIH TLV (United States, 7/2023) Absorbed through skin. TWA 8 hours: 20 ppm.		
2-methylpropan-1-ol			STEL 15 minutes: 50 ppm. ACGIH TLV (United States, 7/2023) TWA 8 hours: 50 ppm. TWA 8 hours: 152 mg/m ³ .		
Recommended monitoring procedures	:		riate monitoring standards. Reference to nods for the determination of hazardous		
Appropriate engineering controls	:	contaminants below any recommende	ols to keep worker exposure to airborne ed or statutory limits. The engineering control concentrations below any lower explosive		
Environmental exposure controls	:	Emissions from ventilation or work 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.			
dividual protection measur	res				
Hygiene measures		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			
Eye protection	÷	Chemical splash goggles and face sh	ield.		
	۰.	Chemical-resistant, impervious gloves			
Skin protection Hand protection		be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break	emical products if a risk assessment indicate rameters specified by the glove manufacture still retaining their protective properties. It sthrough for any glove material may be rers. In the case of mixtures, consisting of		

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 materials carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides

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
51	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)				
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			-	
	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

Notice in production in taking in the intervention of the production of	ode 000001194602 Product name AMERLOCI	(/ SIGMACOV		Date of i DENER	ssue	9 Octol	oer 2024	4 Ver	sion 1.02
Housing count name Open Sign Open Sign Open Sign Open Sign Anonylphenol, branched Skin - Erythema/Eschar Rabbit 4 - - Skin : There are no data available on the mixture itself. - - - Skin : There are no data available on the mixture itself. - - - Respiratory : There are no data available on the mixture itself. - - - Sensitization Product/ingredient name Route of exposure skin Guinea pig Sensitizing Sensitizing S.5.5trimethylcyclohexylamine : Shin Guinea pig Sensitizing Sensitizing S.5.5trimethylcyclohexylamine : There are no data available on the mixture itself. Sensitizing Conclusion/Summary : There are no data available on the mixture itself. Sensitizing Conclusion/Summary : There are no data available on the mixture itself. Sensitizing Conclusion/Summary : There are no data available on the mixture itself. Sensitizing Conclusion/Summary : There are no data available on the mixture itself. <th>Section 11. Toxico</th> <th>ologica</th> <th>l info</th> <th>rmat</th> <th>ion</th> <th></th> <th></th> <th></th> <th></th>	Section 11. Toxico	ologica	l info	rmat	ion				
Conclusion/Summary Skin : There are no data available on the mixture itself. Eyes : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Sensitization Product/ingredient name #-aminomethyl- 3.5.5-trimethylcyclohexylamine Species #-aminomethyl- 3.5.5-trimethylcyclohexylamine Species Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Mutagenicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Classification : Product/ingredient name OSHA IARC IARC 4-methylpentan-2-one : : 2B : : carcinogen Classification codee: MAR: t	Product/ingredient name	Result			Species	Score	9	Exposure	Observation
Skin : There are no data available on the mixture itself. Eyes : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Sensitization Product/ingredient name Route of exposure skin Species Result Saminomethyl- skin Guinea pig Sensitizing Conclusion/Summary : There are no data available on the mixture itself. Sensitizing Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Mutagenicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Classification : There are no data available on the mixture itself. Classification : There are no data available on the mixture itself. Classification : There are no data available on the mixture itself. Classification : There are no data available on the mixture itself. Classification : There are no data available on the mixture itself. Carcinogen Classification code:	Inonylphenol, branched	Skin - Erytł	nema/Es	char	Rabbit	4		-	-
Saminomethyl- 3,5,5-trimethylcyclohexylamine exposure skin Guinea pig Sensitizing Conclusion/Summary Skin : There are no data available on the mixture itself. Sensitizing Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Wutagenicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Classification IARC NTP 4-methylpentan-2-one 2B - cyclohexanone - 3 - Carcinogen Classification code: IARC: 1, 2A, 2B, 3, 4 NTP: Know to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: - Reproductive toxicity Not available. - - Conclusion/Summary : There are no data available on the mixture itself. - Reproductive toxicity Not listed/not regulated: - - Reproductive toxicity	Skin Eyes Respiratory	: There ar	e no dat	a availa	able on the mi	xture itse	lf.		
Framinomethyl- 3.5.5-trimethylcyclohexylamine skin Guinea pig Sensitizing Conclusion/Summary Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Mutagenicity Not available. Conclusion/Summary Conclusion/Summary : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Classification : Product/ingredient name OSHA - 2B - :<	Product/ingredient name		5	Species	5		Resu	lt	
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4-methylpentan-2-one cyclohexanone - 2B 3 - Carcinogen Classification code: IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: - Reproductive toxicity Not available. Conclusion/Summary : There are no data available on the mixture itself.	Mutagenicity Not available. Conclusion/Summary Carcinogenicity Not available. Conclusion/Summary								
cyclohexanone - 3 - Carcinogen Classification code: IARC: 1, 2A, 2B, 3, 4 IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: - - Reproductive toxicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Teratogenicity	Product/ingredient name	OSHA	IARC	NTF	>				
IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: - Reproductive toxicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Teratogenicity		-							
	IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: + Not listed/not regul Reproductive toxicity Not available. Conclusion/Summary	4 a human carci ated: -						nogen	
Conclusion/Summary	Not available.								

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

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 <u>Potential acute health effects</u>		Not available.
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	1	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

vapor concentrations in excess in adverse health effects such irritation and adverse effects of Symptoms and signs include drowsiness and, in extreme of some of the above effects by that repeated exposure to org noise can cause greater hear If splashed in the eyes, the liq Ingestion may cause nausea, known, delayed and immediat short-term and long-term exp exposure and eye contact. Ex transient corneal edema deso for several hours. This conditioned to the several hours.		There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.
Short term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health eff	ect	<u>S</u>
Not available.		

Section 11. Toxicological information

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	: 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

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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 >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	
 #-methylpentan-2-one 2,4,6-tris (dimethylaminomethyl)phenol 	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test	4 % - Not r	ıdily - 28 days eadily - 28 days	-		-	
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	Jradability	
 methylpentan-2-one benzyl alcohol 2,4,6-tris (dimethylaminomethyl)phenol 	-		-		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.
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

English (US)	Colombia	1

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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 $\leq 5 \text{ L}$ 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).

> English (US) Colombia

Section 16. Other information

<u>History</u>	
Date of previous issue	: 8/10/2023
Version	: 1.02 EHS
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.