SAFETY DATA SHEET



Date of issue 10 October 2022

Version 6.01

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : AMERLOCK 2/400 HARDENER
- : 00281126
- : Not available.
 - : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Coating. Paints. Painting-related materials.

Uses advised against	Reason	
Not applicable.		

Supplier's details:	
Supplier	 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

ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 3 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	ACUTE TOXICITY (inhalation) - Category 3 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
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Section 2. Haza	rds identification
Target organs	 Contains material which causes damage to the following organs: brain, central nervous system (CNS). Contains material which may cause damage to the following organs: kidneys, lungs the nervous system, liver, bladder, cardiovascular system, upper respiratory tract, skin, ears, eye, lens or cornea, nose/sinuses. Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1.1% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 22.9% Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 77.9%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 56.9%
<u>GHS label elements</u>	
Hazard pictograms	
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. Toxic 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 statemen	
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: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately cal 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 wate 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

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation. result in classification

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers

CAS number : Not applicable.		
Ingredient name	%	CAS number
▶arium sulfate	20 - <30	7727-43-7
Talc , not containing asbestiform fibres	20 - <30	14807-96-6
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil	10 - <12.5	68082-29-1
fatty acids and triethylenetetramine		
ethylbenzene	7 - <10	100-41-4
nonylphenol	7 - <10	25154-52-3
xylene	5 - <7	1330-20-7
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-	5 - <7	9046-10-0 (n = 2-6)
(2-aminomethylethoxy)-		, , , , , , , , , , , , , , , , , , ,
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	3 - <5	68515-49-1
furfuryl alcohol	3 - <5	98-00-0
12-hydroxyoctadecanoic acid, reaction products with	1 - <2	220926-97-6
1,3-benzenedimethanamine and hexamethylenediamine		
p-nonylphenol	0 - <0.1	104-40-5

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 3/16				

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	Toxic 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.

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 sulfur 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, protective equipment and emergency proceduresFor 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.

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Section 6. A	ccidental release	e measures			
For emergency resp		•	e and unsuitable materials	•	
Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting mater May be harmful to the environment if released in large quantities. Collect spilla					
Methods and materi	als for containment and c	leaning up			
Small spill	and explosion-p Alternatively, or	roof equipment. Di if water-insoluble, a	tainers from spill area. Us ilute with water and mop u absorb with an inert dry ma er. Dispose of via a licens	ip if water-solu aterial and plac	ible. ce in an
Large spill	and explosion-p sewers, water c effluent treatme combustible, ab and place in cor Dispose of via a material may po	roof equipment. Ap ourses, basements nt plant or proceed sorbent material e. ntainer for disposal a licensed waste dis ose the same hazar	tainers from spill area. Us oproach release from upw or confined areas. Wash as follows. Contain and o g. sand, earth, vermiculite according to local regulati posal contractor. Contarr d as the spilled product. I d Section 13 for waste disp	rind. Prevent e spillages into collect spillage or diatomaced ons (see Secti ninated absorb Note: see Sect	entry into an with non- ous earth ion 13). ent

Section 7. Handling and storage

Precautions for safe handling	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. 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, 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				
▶arium sulfate	ACGIH TLV (United States, 1/2021).				
	TWA: 5 mg/m³ 8 hours. Form: Inhalable				
Tale, not containing achaptiform fibras	fraction				
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2021). TWA: 2 mg/m ³ 8 hours. Form: Respirable				
ethylbenzene	ACGIH TLV (United States, 1/2021).				
	TWA: 20 ppm 8 hours.				
xylene	ACGIH TLV (United States, 1/2021).				
	[Xylene]				
	STEL: 651 mg/m ³ 15 minutes.				
	STEL: 150 ppm 15 minutes.				
	TWA: 434 mg/m ³ 8 hours.				
	TWA: 100 ppm 8 hours.				
furfuryl alcohol	ACGIH TLV (United States, 1/2021).				
	Absorbed through skin.				
	TWA: 0.2 ppm 8 hours.				
12-hydroxyoctadecanoic acid, reaction products with	ACGIH TLV (United States).				
1,3-benzenedimethanamine and hexamethylenediamine	TWA: 10 mg/m ³ Form: Inhalable particle TWA: 3 mg/m ³ , (inhalable dust) Form:				
	Respirable particle				
	nts with exposure limits, personal, workplace				
of the ventilation or other contro protective equipment. Reference standards. Reference to nation	atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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 controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Environmental exposure Emissions from ventilation or work process equipment should be checked to ensure.

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.

Individual protection measures

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	: Chemical splash goggles and face shield.

Skin protection

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Section 8. Exposure controls/personal protection

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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	 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 approved and the risks involved and the risks.
	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

Α	p	p	e	а	r	a	n	C

<u>Appearance</u>			
Physical state	1	Liquid.	
Color	4	Not available.	
Odor	1	Aromatic.	
рН	1	Not applicable.	
Melting point	1	Not available.	
Boiling point	1	>37.78°C (>100°F)	
Flash point	1	Closed cup: 28°C (82.4°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	:	1.41	
Solubility(icc)		Media	Result
Solubility(ies)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	1	Not available.	
Decomposition temperature	:	Not available.	

English (US)

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Sectio	n 9. Physical and c	hemical prope	rties		

Viscosity

: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

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 sulfur oxides halogenated compounds metal oxide/ oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure			
parium sulfate	LD50 Dermal	Rat	>2000 mg/kg	_			
	LD50 Oral	Rat	>5000 mg/kg	-			
Fatty acids, C18-unsatd.,	LD50 Dermal	Rat	>2000 mg/kg				
dimers, oligomeric reaction	LD30 Dermai	i tat	~2000 mg/kg	-			
products with tall-oil fatty							
acids and							
triethylenetetramine							
	LD50 Oral	Rat	>2000 mg/kg	_			
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours			
,	LD50 Dermal	Rabbit	17.8 g/kg	-			
	LD50 Oral	Rat	3.5 g/kg	-			
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-			
	LD50 Oral	Rat	580 mg/kg	-			
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-			
	LD50 Oral	Rat	4.3 g/kg	-			
Poly[oxy(methyl-	LD50 Dermal	Rat	2980 mg/kg	-			
1,2-ethanediyl)], α-							
(2-aminomethylethyl)-ω-							
(2-aminomethylethoxy)-							
	LD50 Oral	Rat	2885 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	-			
furfuryl alcohol	LC50 Inhalation Vapor	Rat	934 mg/m ³	4 hours			
	LC50 Inhalation Vapor	Rat	233 ppm	4 hours			
	LD50 Dermal	Rabbit	400 mg/kg	-			
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ode 00281126 roduct name AMERLOCH	(2/400 HARDE		Date of is	sue		10 Octo	ber 202	22	Versio	on	6.01
Section 11. Toxico	logical	info	rmat	ion							
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mis				Rat		3825 mg/kg 0.132 g/kg 3.56 mg/l		- - 4	hours	
p-nonylphenol	LD50 Dermal LD50 Oral LD50 Oral				Rat Rat Rat	>2000 mg/kg					
Conclusion/Summary rritation/Corrosion	: There ar	e no dat	a availa	ble on t	he mixt	ure itsel	f.				
Product/ingredient name	Result			Speci	es	Score)	Exposure	e	Observ	ation
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine xylene	Skin - Irrita	es - Severe irritant Rabbit - in - Irritant Human - in - Moderate irritant Rabbit -			- - 24 hours { mg	- - 500 -		_			
Eyes Respiratory Sensitization	: There ar : There ar										
Product/ingredient name	Route of exposure	\$	Species	i			Resu	lt			
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	1	Mouse				Sens	itizing			
Conclusion/Summary Skin Respiratory Mutagenicity Not available.	: There ar : There ar										
Conclusion/Summary Carcinogenicity Not available.	: There ar	e no dat	a availa	ble on t	he mixt	ure itsel	f.				
Conclusion/Summary <u>Classification</u>	: There ar	e no dat	a availa	ble on t	he mixt	ure itsel	f.				
Product/ingredient name	OSHA	IARC	NTP)							
✔ ftylbenzene xylene furfuryl alcohol		2B 3 2B									
	•	•									

Froduct name AMERL

Section 11. Toxicological information

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.

Teratogenicity

Not available.

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

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
furfuryl alcohol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene furfuryl alcohol 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2 Category 2 Category 2	- - inhalation	hearing organs - lungs

Target organs

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

Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, liver, bladder, cardiovascular system, upper respiratory tract, skin, ears, eye, lens or cornea, nose/sinuses.

Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
furfuryl alcohol	ASPIRATION HAZARD - Category 2

Information on the likely routes of exposure Potential acute health effects	Not available.		
Eye contact	Causes serious eye damage.		
Inhalation	Toxic if inhaled. May cause respiratory irritation.		
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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.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing 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 effe	cts 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.
Short term exposure	. There are no data available on the mixture iter.
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects Long term exposure	: There are no data available on the mixture itself.

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Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects
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	: 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 2/400 HARDENER	2850.3	2740.6	N/A	3.9	1.2
barium sulfate	N/A	2500	N/A	N/A	N/A
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	2500	2500	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
nonylphenol	580	2140	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	2885	2980	N/A	N/A	N/A
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	N/A	16000	N/A	N/A	N/A
furfuryl alcohol	500	1100	N/A	0.934	0.5
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	2500	2500	N/A	N/A	3.56
p-nonylphenol	1620	N/A	N/A	N/A	N/A

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Code	00281126	
Product nam	e	AMERLO

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Section 12. Ecological information

· · · · · · · · · · · · · · · · · · ·			-
Product/ingredient name	Result	Species	Exposure
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours
nonylphenol	Acute EC50 0.056 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic EC10 0.003 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 1 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	EC50 15 mg/l	Algae	72 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days

Date of issue

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	- OECD 301D Ready Biodegradability - Closed Bottle Test		ıdily - 10 days eadily - 29 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Fatty acids, C18-unsatd.,dimers, oligomeric reactionproducts with tall-oil fattyacids andtriethylenetetramineethylbenzenexylenePoly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	- - -		-		Not rea Readily Readily Not rea	, ,

English (US)	Colombia	

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Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
ethylbenzene	3.6	79.43	low	
nonylphenol	3.28	154.88	low	
xylene	3.12	7.4 to 18.5	low	
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	8.8	-	high	
furfuryl alcohol	0.3	-	low	
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	high	
p-nonylphenol	5.76	380.19	low	

Mobility in soil

Soil/water pa	rtition
coefficient (K	loc)

: 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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ	
UN number	UN3469	UN3469) UN3469 UN34		
UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATEDPAINT RELATEDMATERIAL,MATERIAL,FLAMMABLE,FLAMMABLE,CORROSIVECORROSIVE		
Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)	
Packing group III				III	

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Section 14. Transport information

Environmental	Yes. The	Yes. The	Yes.	Yes. The
hazards	environmentally	environmentally		environmentally
	hazardous substance	hazardous substance		hazardous substance
	mark is not required.	mark is not required.		mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Polyamide, nonylphenol)	Not applicable.

Additional information

UN	: None identified.
Brazil	: None identified.
Risk number	: 38
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable.

to IMO instruments

Section 15. Regulatory information

Safety, health and 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	1	11/8/2021
Version	:	6.01 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

Section 16. Other information

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.