SAFETY DATA SHEET

Date of issue/Date of revision

: 17 April 2024

Version

: 2.03

Ivory Coast



SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier Product name	: PHENGUARD 610/780/985 HARDENER
Product code	: 000001189495
Other means of identifica 00446961; 00463557	ition
1.2 Relevant identified use	es of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier PPG Côte d'Ivoire	of the safety data sheet

15 BP 396, Abidjan 15 Cote D'Ivoire Tel: 00225 21 75 04 10 Fax: 00225 21 27 16 28

1.4 Emergency telephone : ORFILA (INRS) 0033 (0)1 45 42 59 59 / 00225 21 75 04 10 number

SECTION 2: Hazards identification

 2.1 Classification of the substance or mixture

 Product definition
 : Mixture

 Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

 Flam. Liq. 3, H226

Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Hazard pictograms : Signal word : Danger

English (GB)

 Code
 : 000001189495
 Date of issue/Date of revision
 : 17 April 2024

PHENGUARD 610/780/985 HARDENER

SECTION 2: Hazards	identification
Hazard statements	 Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: 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.
Response	: IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P304 + P310, P301 + P310, P403 + P233, P501
Hazardous ingredients	: xylene 3-aminopropyldiethylamine m-phenylenebis(methylamine) N-(3-(trimethoxysilyl)propyl)ethylenediamine
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ients
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture					
Product/ingredient name	Identifiers	%	Classification		Specific Conc. Limits, M-factors and ATEs	Туре
	1	English	n (GB)	lvory	/ Coast	2/16

Code : 000001189495

Date of issue/Date of revision

: 17 April 2024

PHENGUARD 610/780/985 HARDENER

SECTION 3: Composition/information on ingredients

xylene	REACH #: 01-2119488216-32	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312	ATE [Dermal] = 1700 mg/kg	[1] [2]
	EC: 215-535-7 CAS: 1330-20-7		Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 11 mg/l	
3-aminopropyldiethylamine	REACH #: 01-2119965402-39 EC: 203-236-4 CAS: 104-78-9 Index: 612-062-00-1	≥10 - ≤18	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	ATE [Oral] = 830 mg/ kg ATE [Dermal] = 524 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤16	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥5.0 - ≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
m-phenylenebis (methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥5.0 - ≤8.9	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 EUH071	ATE [Oral] = 930 mg/ kg ATE [Inhalation (gases)] = 4500 ppm	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
N-(3-(trimethoxysilyl)propyl) ethylenediamine	EC: 217-164-6 CAS: 1760-24-3	≥1.0 - ≤5.0	Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335	-	[1]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above.	-	[1] [2]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

English (GB) Ivory Coast

Code : 000

: 000001189495

Date of issue/Date of revision

: 17 April 2024

PHENGUARD 610/780/985 HARDENER

SECTION 3: Composition/information on ingredients

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of 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 recognised skin cleanser. Do NOT use solvents or thinners. Ingestion : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting. **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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health	effects
Eye contact	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any in	nmediate medical attention and special treatment needed
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.
Specific treatments	: No specific treatment.

Code : 000001189495	Date of issue/Date of revision	: 17 April 2024
PHENGUARD 610/780/985 HARDENER		

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. 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 harmful 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 combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.
5.3 Advice for firefighters	
Special precautions 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and
explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively,
or if water-insoluble, absorb with an inert dry material and place in an appropriate waste
disposal container. Dispose of via a licensed waste disposal contractor.

Code	: 000001189495	Date of issue/Date of revision	: 17 April 2024

PHENGUARD 610/780/985 HARDENER

SECTION 6: Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: 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. Do not get in eyes or on skin or clothing. Do not breathe vapour 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.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

Code : 000001189495

Date of issue/Date of revision : 17 April 2024

PHENGUARD 610/780/985 HARDENER

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient r	name	Expos	sure limit values
xylene		EU OEL (Europe, 1/2022). [x	ylene, mixed isomers pure]
		Absorbed through skin.	
		STEL: 442 mg/m ³ 15 minutes	3.
		STEL: 100 ppm 15 minutes.	
		TWA: 221 mg/m ³ 8 hours.	
howend also had		TWA: 50 ppm 8 hours.	
benzyl alcohol		IPEL (-).	
		TWA: 5 ppm STEL: 10 ppm	
2-methylpropan-1-ol		ACGIH TLV (United States, 1	1/2023)
		TWA: 152 mg/m ³ 8 hours.	
		TWA: 50 ppm 8 hours.	
m-phenylenebis(methylamine)			/2023). Absorbed through skin.
		C: 0.018 ppm	
ethylbenzene		EU OEL (Europe, 1/2022). At	osorbed through skin.
-		STEL: 884 mg/m ³ 15 minutes	5.
		STEL: 200 ppm 15 minutes.	
		TWA: 442 mg/m ³ 8 hours.	
		TWA: 100 ppm 8 hours.	
toluene		EU OEL (Europe, 1/2022). At	
		STEL: 384 mg/m ³ 15 minutes	3.
		STEL: 100 ppm 15 minutes. TWA: 192 mg/m ³ 8 hours.	
		TWA: 50 ppm 8 hours.	
Recommended monitoring : procedures	Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	 Workplace atmospheres - Gu hemical agents for comparison ean Standard EN 14042 (Workp use of procedures for the assess European Standard EN 482 (the performance of procedures) 	ards, such as the following: European aidance for the assessment of exposure with limit values and measurement place atmospheres - Guide for the sment of exposure to chemical and Workplace atmospheres - General of or the measurement of chemical ents for methods for the determination
.2 Exposure controls			
Appropriate engineering : controls	other engineering recommended of	g controls to keep worker expos r statutory limits. The engineeri oncentrations below any lower e	s enclosures, local exhaust ventilation o sure to airborne contaminants below any ng controls also need to keep gas, explosive limits. Use explosion-proof
ndividual protection measures			
Hygiene measures :	eating, smoking a Appropriate tech Contaminated we contaminated clo	and using the lavatory and at th niques should be used to remo- ork clothing should not be allow	r handling chemical products, before e end of the working period. ve potentially contaminated clothing. ed out of the workplace. Wash nat eyewash stations and safety
Eye/face protection :		goggles and face shield.	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	
2020/878	

020/878			
Code : 00000118949	5	Date of issue/Date of revision	: 17 April 2024
PHENGUARD 610/780/985 H	ARDENER		
Skin protection			
Hand protection	worn at all times necessary. Cons during use that th noted that the tim glove manufactur protection time of frequently repeat (breakthrough tin When only brief of (breakthrough tin The user must ch product is the mo	Int, impervious gloves complying with an appr when handling chemical products if a risk as sidering the parameters specified by the glove he gloves are still retaining their protective pro- ne to breakthrough for any glove material may rers. In the case of mixtures, consisting of se of the gloves cannot be accurately estimated. ted contact may occur, a glove with a protection ne greater than 480 minutes according to EN contact is expected, a glove with a protection ne greater than 30 minutes according to EN beck that the final choice of type of glove sele ost appropriate and takes into account the pa e user's risk assessment.	sessment indicates this is e manufacturer, check operties. It should be y be different for different everal substances, the When prolonged or on class of 6 374) is recommended. class of 2 or higher 374) is recommended. ected for handling this
Gloves	: butyl rubber		
Body protection	performed and th handling this pro- static protective of should include ar	ive equipment for the body should be selected ne risks involved and should be approved by a duct. When there is a risk of ignition from sta- clothing. For the greatest protection from sta- nti-static overalls, boots and gloves. Refer to nformation on material and design requireme	a specialist before atic electricity, wear anti- tic discharges, clothing European Standard EN
Other skin protection	based on the tas	wear and any additional skin protection meas k being performed and the risks involved and handling this product.	
Respiratory protection	÷		
Environmental exposure controls	they comply with cases, fume scru	ventilation or work process equipment should the requirements of environmental protectior ubbers, filters or engineering modifications to v to reduce emissions to acceptable levels.	n legislation. In some

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>				
Physical state	: Liquid.			
Colour	: Colourless.			
Odour	: Aromatic.			
Odour threshold	: Not available.			
Melting point/freezing point	: May start to solidify at the fo data for the following ingredi -65.09°C (-85.2°F)			
Initial boiling point and boiling range	: >37.78°C			
Flammability	: Not available.			
Upper/lower flammability or explosive limits	: Greatest known range: Lowe	er: 1.3% Upp	er: 13% (benz	zyl alcohol)
Flash point	: Closed cup: 30°C			
Auto-ignition temperature	: Ingredient name	°C	°F	Method
	2-methylpropan-1-ol	415	779	
Decomposition temperature pH	Stable under recommendedNot applicable. insoluble in v	•	nandling cond	itions (see Section 7).

English (GB)

Ivory Coast

8/16

ode : 00000118949 HENGUARD 610/780/985 H		ER	Date of	issue/E	Date of revisio	on	: 17 Aj	oril 2024
SECTION 9: Physica	I and	chemical prop	perties					
Viscosity	:	Kinematic (40°C): >2	21 mm²/s					
Viscosity	:	30 - <40 s (ISO 6mr	n)					
Solubility(ies)	:							
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octa water	anol/ :	Not applicable.						
			Vapour Pressure at 20°C					
Vapour pressure	:		Vapou	ur Press	sure at 20°C	Vapo	our press	sure at 50°C
Vapour pressure	:	Ingredient name	Vapou mm Hg	1	Method	Vapo mm Hg	bur press kPa	Method
Vapour pressure	:	Ingredient name 2-methylpropan-1-ol		kPa	1	mm	+	1
	:		mm Hg <12.00102	kPa <1.6	Method DIN EN 13016-2	mm Hg	kPa	Method
Evaporation rate		2-methylpropan-1-ol Highest known value	mm Hg <12.00102	kPa <1.6	Method DIN EN 13016-2	mm Hg	kPa	Method
Evaporation rate Relative density	:	2-methylpropan-1-ol Highest known value butyl acetate	mm Hg <12.00102 e: 0.84 (eth e: 4.48 (Ai	kPa <1.6 nylbenze	Method DIN EN 13016-2 ene) Weighted	mm Hg	kPa	Method mpared with
Vapour pressure Evaporation rate Relative density Vapour density Explosive properties	:	2-methylpropan-1-ol Highest known value butyl acetate 0.94 Highest known value	mm Hg <12.00102 e: 0.84 (eth e: 4.48 (Ai : 1) not explos	kPa <1.6 nylbenze ir = 1) (;	Method DIN EN 13016-2 ene) Weighted 3-aminopropyle	mm Hg I average	kPa e: 0.56con	mpared with

Median particle size

: Not applicable.

9.2 Other information

Γ

No additional information.

SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
10.2 Chemical stability	: The product is stable.			
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.			
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.			
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.			
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides			

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- Code : 000001189495
- PHENGUARD 610/780/985 HARDENER

Date of issue/Date of revision : 17

: 17 April 2024

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
3-aminopropyldiethylamine	LD50 Dermal	Rabbit	524 mg/kg	-
	LD50 Oral	Rat	830 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
m-phenylenebis(methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male, Female	>3100 mg/kg	-
	LD50 Oral	Rat	930 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	2413 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

Conclusion/Summary : T

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
3-aminopropyldiethylamine	Skin - Visible necrosis	Rabbit		1 minutes	8 days
m-phenylenebis(methylamine)	Skin - Severe irritant	Rat		4 hours	4 hours

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.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
m-phenylenebis(methylamine)	skin	Mouse	Sensitising

	English (GB)	Ivory Coast	10/16
Conclusion/Summary	: There are no data available on the mixture itself.		
Reproductive toxicity			
Conclusion/Summary	: There are no data available on the mixture itself.		
Carcinogenicity			
Conclusion/Summary	: There are no data available on the mixture itself.		
Mutagenicity			
Respiratory	: There are no data available on the mixture itself.		
Skin	: There are no data available on the mixture itself.		
Conclusion/Summary			

Code : 000001189495

PHENGUARD 610/780/985 HARDENER

Date of issue/Date of revision

: 17 April 2024

SECTION 11: Toxicological information

Teratogenicity

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene 2-methylpropan-1-ol	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects
N-(3-(trimethoxysilyl)propyl)ethylenediamine toluene	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 2 Category 2	-	hearing organs -

Aspiration hazard

Product/i	ngredient name	Result
xylene ethylbenzene toluene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health effect	<u>ts</u>	
Inhalation	: May cause respiratory irritation.	
Ingestion	: No known significant effects or criti	cal hazards.
Skin contact	: Causes severe burns. Defatting to	the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.	
Symptoms related to the ph	ysical, chemical and toxicological c	haracteristics
Inhalation	: Adverse symptoms may include the respiratory tract irritation coughing	e following:
Ingestion	: Adverse symptoms may include the stomach pains	e following:
Skin contact	: Adverse symptoms may include the pain or irritation redness dryness cracking blistering may occur	e following:
Eye contact	: Adverse symptoms may include the pain watering redness	e following:
Delayed and immediate effe	ects as well as chronic effects from s	hort and long-term exposure
Short term exposure Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
	English (GB)	lyony Coast 11/16

- Code : 000001189495
- PHENGUARD 610/780/985 HARDENER

- Date of issue/Date of revision
- : 17 April 2024

SECTION 11: Toxicological information

	5
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: 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	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F. Avoid contact with skin and clothing. 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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
3-aminopropyldiethylamine	Acute EC50 30.2 mg/l	Daphnia	48 hours
	Acute EC50 146.6 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
N-(3-(trimethoxysilyl)propyl)ethylenediamine	EC50 597 mg/l	Fish	96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
1 1 5		90 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

Conclusion/Summary

: There are no data available on the mixture itself.

Code	: 000001189495	Date of issue/Date of revision	: 17 April 2024
PHENGUARE	610/780/985 HARDENER		

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
3-aminopropyldiethylamine	-	-	Readily
benzyl alcohol	-	-	Readily
ethylbenzene	-	-	Readily
toluene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
benzyl alcohol	0.87	-	Low
2-methylpropan-1-ol	1	-	Low
m-phenylenebis(methylamine)	0.18	2.69	Low
ethylbenzene	3.6	79.43	Low
toluene	2.73	8.32	Low

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised 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.
Hazardous waste	: Yes.
European waste cataloo	ue (EWC)

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances	Waste code	Waste designation
	08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

ode : 0000011894	195	Date of issue/Date of revision	: 17 April 2024
HENGUARD 610/780/985	HARDENER		
ECTION 13: Dispo	osal consideration	IS	
Methods of disposal		vaste should be avoided or minimised wher e recycled. Incineration or landfill should o sible.	
Type of packaging		European waste catalogue (EWC)	
Container	15 01 06	mixed packaging	
Special precautions	taken when handling Empty containers or residues may create	s container must be disposed of in a safe w g emptied containers that have not been cl r liners may retain some product residues. e a highly flammable or explosive atmosph grind used containers unless they have bee	eaned or rinsed out. Vapour from product ere inside the container

internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways,

SECTION 14: Transport information

drains and sewers.

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN3470	UN3470	UN3470
14.2 UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
14.3 Transport hazard class(es)	8 (3)	8 (3)	8 (3)
14.4 Packing group	11	11	II
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: None identified.
Tunnel code	: (D/E)
IMDG	: None identified.
ΙΑΤΑ	: None identified.

14.6 Special precautions for	4	Transport within user's premises: always transport in closed containers that are
user		upright and secure. Ensure that persons transporting the product know what to do in the
		event of an accident or spillage.

14.7 Transport in bulk	: Not applicable.
according to IMO	
instruments	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

English (GB)

Code : 00000118949	5	Date of issue/Date of revision	: 17 April 2024		
PHENGUARD 610/780/985 H	ARDENER				
SECTION 15: Regula	tory informatio	า			
None of the components ar	e listed.				
Annex XVII - Restrictions	: Not applicable.				
on the manufacture, placing on the market					
and use of certain					
dangerous substances, mixtures and articles					
Other national and international	onal regulations.				
Explosive precursors	: Not applicable.				
Ozone depleting substance	<u>es (1005/2009/EU)</u>				
Not listed.					
15.2 Chemical safety	: No Chemical Safety	Assessment has been carried out.			
assessment					
SECTION 16: Other i	nformation				
Indicates information that h					
Abbreviations and	: ATE = Acute Toxici		rulation (EC) Na		
acronyms	1272/2008]	n, Labelling and Packaging Regulation [Reg	gulation (EC) No.		
	DNEL = Derived No				
		CLP-specific Hazard statement			
	RRN = REACH Re	No Effect Concentration gistration Number			
Full text of abbreviated H	: H225 Highly fla	ammable liquid and vapour.			
statements		ble liquid and vapour. if swallowed.			
		atal if swallowed and enters airways.			
		contact with skin.			
		in contact with skin. severe skin burns and eye damage.			
		skin irritation.			
		se an allergic skin reaction.			
		serious eye damage. serious eye irritation.			
		if inhaled.			
		se respiratory irritation.			
		se drowsiness or dizziness.			
	H361d Suspected of damaging the unborn child.H373 May cause damage to organs through prolonged or repeated exposure.				
		to aquatic life with long lasting effects.			
Full text of eleccifications	: Acute Tox. 3	e to the respiratory tract. ACUTE TOXICITY - Category 3			
Full text of classifications [CLP/GHS]	Acute Tox. 3	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4			
	Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUAT			
	Asp. Tox. 1 Eye Dam. 1	ASPIRATION HAZARD - Category SERIOUS EYE DAMAGE/EYE IR			
	Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IR			
	Flam. Liq. 2	FLAMMABLE LIQUIDS - Category	2		
	Flam. Liq. 3 Repr. 2	FLAMMABLE LIQUIDS - Category REPRODUCTIVE TOXICITY - Category			
	Repr. 2 Skin Corr. 1B	SKIN CORROSION/IRRITATION			
	Skin Irrit. 2	SKIN CORROSION/IRRITATION	- Category 2		
	Skin Sens. 1	SKIN SENSITISATION - Category			
	Skin Sens. 1B	SKIN SENSITISATION - Category	18		

English (GB)

Ivory Coast

15/16

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	
2020/878	

Code : 000001189495 PHENGUARD 610/780/985 HARDENER	Date of issue/Date of revision	: 17 April 2024		
SECTION 16: Other information				

	STOT SE 3	EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
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Date of previous issue	: 19 February 2024	
Prepared by	: EHS	
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<u>Disclaimer</u>		

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		English (GB)	Ivory Coast	16/16
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