Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

## **SAFETY DATA SHEET**

Date of issue/Date of revision

: 17 January 2020 Version



: 1.02

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

1.1 Product identifier	
Product name	: PHENGUARD SUBSEA 780 BASE RAL 1004
Product code	: 00371901
Product type	: Liquid.
Other means of identificatio	n
Not available.	
1.2 Relevant identified uses of	f 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 of t	he safety data sheet
Sigma Paint Saudi Arabia Ltd.	
PO Box 7509 Dammam 31472	
Saudi Arabia	
Tel: 00966 138 47 31 00	
Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa

1.4 Emergency telephone : 00966 138473100 extn 1001 number

## **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 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

Code : 00371901 PHENGUARD SUBSEA 780 BASE RAL 1004

## **SECTION 2: Hazards identification**

Hazard pictograms		
Signal word	: Danger	
Hazard statements	<ul> <li>Flammable liquid and vapour. Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.</li> </ul>	
Precautionary statements		
Prevention	: Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sourc No smoking. Do not breathe vapour.	es.
Response	: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skir with water. IF IN EYES: Rinse cautiously with water for several minutes. Remov contact lenses, if present and easy to do. Continue rinsing.	
Storage	: Store in a well-ventilated place. Keep cool.	
Disposal	: Not applicable.	
Hazardous ingredients	<ul> <li>Phenol, polymer with formaldehyde, glycidyl ether (MW&lt;=700)</li> <li>2-methylpropan-1-ol</li> <li>Quartz (SiO2)</li> <li>Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine</li> </ul>	
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.	
Special packaging requirem	<u>ents</u>	
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.	3
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.	
SECTION 2. Compos	ition/information on ingradiants	

## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures

: Mixture

Code : 00371901

PHENGUARD SUBSEA 780 BASE RAL 1004

: 17 January 2020

### **SECTION 3:** Composition/information on ingredients

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
Phenol, polymer with formaldehyde, glycidyl ether (MW <=700)	CAS: 28064-14-4	≥10 - <25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤15	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - ≤4.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
Quartz (SiO2)	EC: 238-878-4 CAS: 14808-60-7	≥1.0 - ≤5.0	STOT RE 1, H372 (inhalation)	[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	[1] [2]
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	REACH #: 01-2119979085-27 EC: 309-629-8 CAS: 100545-48-0	≤0.30	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]

#### See Section 16 for the full text of the H statements declared above.

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.

#### <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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 a	aid measures
Eye contact	<ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.</li> </ul>
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II
Code : 00371901	Date of issue/Date of revision : 17 January 2020
PHENGUARD SUBSEA 780 E	BASE RAL 1004
<b>SECTION 4: First aid</b>	1 measures
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 symptom	ns and effects, both acute and delayed
Potential acute health effect	:ts
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	i <u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
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 immedi	ate medical attention and special treatment needed
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
<b>SECTION 5: Firefigh</b>	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
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 : Decomposition products may include the following materials: products : carbon oxides sulfur oxides metal oxide/oxides

#### 5.3 Advice for firefighters

Conforms to Regulation (EC) N	lo. 1907/2006 (REACH), Annex	: <b>II</b>	
Code : 00371901	Da	ate of issue/Date of revision	: 17 January 2020
PHENGUARD SUBSEA 780 BA	SE RAL 1004		
SECTION 5: Firefight	ing measures		
Special precautions for fire- fighters	there is a fire. No action sha	y removing all persons from the Il be taken involving any persona m fire area if this can be done w ontainers cool.	al risk or without suitable
Special protective equipment for fire-fighters	breathing apparatus (SCBA) mode. Clothing for fire-fighte	propriate protective equipment a with a full face-piece operated i ers (including helmets, protective idard EN 469 will provide a basic	n positive pressure e boots and gloves)

## **SECTION 6: Accidental release measures**

chemical incidents.

6.1 Personal precautions, prot	ective 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 c	ontainment 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.
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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## **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

Code : 00371901	No. 1907/2006 (REACH), Annex II Date of issue/Date of revision : 17 January 2020
PHENGUARD SUBSEA 780	
SECTION 7: Handlin	ng and storage
Protective measures	: Put on appropriate personal protective equipment (see Section 8). 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. 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 ingest. Avoid breathing vapour or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. 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 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
<b>7.3 Specific end use(s)</b> See Section 1.2 for Identified	uses.
Recommendations	: Not available.

## Industrial sector specific solutions

## **SECTION 8: Exposure controls/personal protection**

: Not available.

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 name	Exposure limit values	
- <del>x</del> ylene	EU OEL (Europe, 2/2017). Absorbed through skin.	
	STEL: 442 mg/m <sup>3</sup> 15 minutes.	
	STEL: 100 ppm 15 minutes.	
	TWA: 221 mg/m <sup>3</sup> 8 hours.	
	TWA: 50 ppm 8 hours.	
2-methylpropan-1-ol	ACGIH TLV (United States, 3/2019).	
	TWA: 152 mg/m <sup>3</sup> 8 hours.	
	TWA: 50 ppm 8 hours.	
Quartz (SiO2)	ACGIH TLV (United States, 3/2019).	
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable	
	English (GB) United Arab Emirates	6/15

Code : 00371901 PHENGUARD SUBSEA 780 BASE RAL 1004 Date of issue/Date of revision : 17

PHENGUARD SUBSEA 780 BASE RAL 1004

## SECTION 8: Exposure controls/personal protection

ethylbenzene	<b>EU OEL (Europe, 2/2017). Absorbed through skin.</b> STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes.
	TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours.
Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace 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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
2 Exposure controls	
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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
ndividual protection measu	<u>es</u>
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/face protection Skin protection	: Chemical splash goggles and face shield.
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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particula conditions of use, as included in the user's risk assessment.
Gloves	: butyl rubber
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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

•	
Other skin protection	Appropriate footwear and any additional skin protection measures should be 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.
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.

## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical	and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Yellow.
Odour	: Aromatic.
Odour threshold	: Not available.
рН	: insoluble in water.
Melting point/freezing point	: May start to solidify at the following temperature: -94.9°C (-138.8°F) This is based on data for the following ingredient: ethylbenzene. Weighted average: -95.76°C (-140.4°F)
Initial boiling point and boiling range	: >37.78°C
Flash point	: Closed cup: 26°C
Evaporation rate	: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.75compared with butyl acetate
Flammability (solid, gas)	: liquid
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)
Vapour pressure	: Highest known value: <1.6 kPa (<12 mm Hg) (at 20°C) (2-methylpropan-1-ol). Weighted average: 1.04 kPa (7.8 mm Hg) (at 20°C)
Vapour density	: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.47 (Air = 1)
Relative density	: 1.76
Solubility(ies)	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	: Not applicable.
Auto-ignition temperature	: Lowest known value: 415°C (779°F) (2-methylpropan-1-ol).
Decomposition temperature	: Stable under recommended storage and handling conditions (see Section 7).
Viscosity	: Kinematic (room temperature): >4 cm²/s Kinematic (40°C): >0.21 cm²/s
Viscosity	: > 100 s (ISO 6mm)
Explosive properties	: Product does not present an explosion hazard.
Oxidising properties	: Product does not present an oxidizing hazard.

#### 9.2 Other information

No additional information.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II				
Code : 00371901	Date of issue/Date of revision : 17 January 2020			
PHENGUARD SUBSEA 780 BASE RAL 1004				
SECTION 10: Stabilit	y 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 sulfur oxides metal oxide/oxides			

## **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	-
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	-
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	-
Octadecanoic acid, 12-hydroxy-, reaction	LC50 Inhalation Dusts and	Rat	5.05 mg/l	4 hours
products with ethylenediamine	mists		J	
	LD50 Oral	Rat	>2000 mg/kg	-

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

#### Acute toxicity estimates

Route	ATE value
Dermal	9463.61 mg/kg
Inhalation (vapours)	85.27 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

Skin 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
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	skin	Guinea pig	Sensitising
-	English (GB)	United Arab Emirates	s 9/15

Conforms to Regulation (EC	C) No. 1907/2006 (REACH), Au	nnex II			
Code : 00371901		Date of issu	e/Date of revision	: 17 January 2020	
PHENGUARD SUBSEA 780	BASE RAL 1004				
SECTION 11: Toxic	ological information				
Conclusion/Summary					
Skin	: There are no data availa	ble on the mixt	ure itself.		
Respiratory	: There are no data availa	ble on the mixt	ure itself.		
Mutagenicity					
<b>Conclusion/Summary</b>	: There are no data availa	ble on the mixt	ure itself.		
<b>Carcinogenicity</b>	Carcinogenicity				
<b>Conclusion/Summary</b>	: There are no data availa	ble on the mixt	ure itself.		
Reproductive toxicity					
<b>Conclusion/Summary</b>	: There are no data availa	ble on the mixt	ure itself.		
<b>Teratogenicity</b>					
<b>Conclusion/Summary</b>	: There are no data availa	ble on the mixt	ure itself.		
Specific target organ toxic	<u>city (single exposure)</u>				
Product/ingredient name Category Route of Target organs exposure					
xylene		Category 3	Not applicable.	Respiratory tract irritation	
2-methylpropan-1-ol		Category 3	Not applicable.	Narcotic effects	
Category 3 Not applicable. Respiratory tract irritation					

# Product/ingredient nameCategory<br/>exposureRoute of<br/>exposureTarget organsQuartz (SiO2)<br/>ethylbenzeneCategory 1<br/>Category 2Inhalation<br/>Not determinedNot determined<br/>hearing organs

#### **Aspiration hazard**

Product/ingredient name	Result	
xylene	ASPIRATION HAZARD - Category 1	
ethylbenzene	ASPIRATION HAZARD - Category 1	

#### Information on likely : Not available. routes of exposure

Potential acute health effect		
Inhalation	No known significant effects or critical hazards.	
Ingestion	No known significant effects or critical hazards.	
Skin contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.	
Eye contact	Causes serious eye damage.	
Symptoms related to the pl	ical, chemical and toxicological characteristics	
Inhalation	No specific data.	
Ingestion	Adverse symptoms may include the following: stomach pains	
Skin contact	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur	
Eye contact	Adverse symptoms may include the following: pain watering redness	
Delayed and immediate eff	s as well as chronic effects from short and long-term exposure	
Short term exposure		

Code : 00371901 PHENGUARD SUBSEA 780 BASE RAL 1004 Date of issue/Date of revision : 17 Janu

## SECTION 11: Toxicological information

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>cts</u>
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure. 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.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Other information	: Not available.

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour 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. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

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.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains Phenol, polymer with formaldehyde, glycidyl ether (MW<=700), Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine. May produce an allergic reaction.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Date of issue/Date of revision : 17 January 2020

## PHENGUARD SUBSEA 780 BASE RAL 1004

## **SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposure
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >10 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >10 mg/l	Fish - Oncorhynchus mykiss	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
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	301D Ready Biodegradability - Closed Bottle Test	22 % - 28 days	-	-

<b>Conclusion/Summary</b> : There are no data available on the mixture itself.					
Product/ingredient name Aquatic half-life Photolysis Biodegradability					
xylene	-	-	Readily		
ethylbenzene	-	-	Readily		
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	-	-	Inherent		

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
2-methylpropan-1-ol	0.76	-	low
ethylbenzene	3.15	79.43	low
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	>5.86	-	high

#### 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 Other adverse effects** : No known significant effects or critical hazards.

Code : 00371901 PHENGUARD SUBSEA 780 BASE RAL 1004 Date of issue/Date of revision : 17 January 2020

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 catalogue (EWC)

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

#### Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)	
Container	15 01 06 mixed packaging	
Special precautions	: 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.	

## **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	Ш	Ш	Ш
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

ADR/RID	This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.
Tunnel code IMDG	<ul> <li>(D/E)</li> <li>This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.</li> </ul>

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II				
Code : 00371901	Date of issue/Date of revision : 17 January 2020			
PHENGUARD SUBSEA 780 BAS	E RAL 1004			
SECTION 14: Transpo	rt information			
IATA : None identif	ïed.			
14.6 Special precautions for : user	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.			
14.7 Transport in bulk : according to Annex II of Marpol and the IBC Code	Not applicable.			
SECTION 15: Regulato	ory information			
15.1 Safety, health and environ	mental regulations/legislation specific for the substance or mixture			
EU Regulation (EC) No. 1907/2	2006 (REACH)			
Annex XIV - List of substance	es subject to authorisation			
Annex XIV				
None of the components are	listed.			
Substances of very high concern				
None of the components are listed.				
on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.			
Other national and internation	<u>iai regulations.</u>			

Ozone depleting substances (1005/2009/EU)

Not listed.

- 15.2 Chemical safety
- : No Chemical Safety Assessment has been carried out.

assessment

## **SECTION 16: Other information**

Indicates information that has change	d from previously issued version.		
1272/2 DNEL EUH s PNEC			
Full text of abbreviated H         : H225           statements         H226           H304         H312           H315         H317           H318         H319           H332         H335           H336         H372	Highly flammable liquid and vapour. Flammable liquid and vapour. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled.		
	English (GB) United Arab Emirates 14/15		

Conforms to Regulation (EC	C) No. 1907/2006 (REACH), An	nex II
Code : 00371901		Date of issue/Date of revision : 17 January 2020
PHENGUARD SUBSEA 780	BASE RAL 1004	
<b>SECTION 16: Other</b>	information	
		blife with long lasting effects. atic life with long lasting effects.
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 2, H411	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
	Aquatic Chronic 3, H412 Asp. Tox. 1, H304 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Stor Res. 1B, H317 STOT RE 1, H372 (inhalation) STOT RE 2, H373 STOT SE 3, H335 STOT SE 3, H336	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (inhalation) - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
<u>History</u>		
Date of issue/ Date of revision	: 17 January 2020	
Date of previous issue	: 7 October 2019	
Prepared by	: EHS	
Version	: 1.02	
<u>Disclaimer</u>		

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