SAFETY DATA SHEET

United Arab Emirates

: 1.05

Date of issue/Date of revision

: 22 November 2024 Version

SECTION 1: Identific undertaking	ation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: PHENGUARD SUBSEA 780 BASE ORANGE / RAL 2004
Product code	: 000001161198
Other means of identification 00383928	on
1.2 Relevant identified uses	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 of	the safety data sheet
Sigma Paint Saudi Arabia Lto PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	I.
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa
1.4 Emergency telephone number	: 00966 138473100 extn 1001

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 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.



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SECTION 2: Hazards identification

Hazard statements Precautionary statements	 Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Prevention	 Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.
Response	: 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	: Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P260, P305 + P351 + P338, P310, P501
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	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
		Englis	h (GB) Unite	d Arab Emirates	2/17

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SECTION 3: Compo			naredients		
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	≥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 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 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	≥1.0 - ≤4.6	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
crystalline silica, respirable powder (<10 microns)	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 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[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.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains \geq 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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

SECTION 4: First aid measures

4.1 Description of first aid m	ieasures
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.

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SECTION 4: First aid	measures		
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 symptom	s and effects, both acute and delayed		
Potential acute health effec	<u>ts</u>		
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/sympt			
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 immedia	ate 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.		
SECTION 5: Firefight	ting 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 sulfur oxides metal oxide/oxides 		

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
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SECTION 5: Firefight	ting measures			
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	5	r appropriate protective equipment an a full face-piece operated in positive pi		

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	ote	ctive 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.
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

Conforms to Regulation (E 2020/878	EC) No. 1907/2006 (REACH	I), Annex II, as amended by Commissio	n Regulation (EU)
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SECTION 7: Handl	ing and storage		
Protective measures	history of skin sensit this product is used. mist. Do not ingest. ventilation. Wear ap storage areas and c container or an appr closed when not in u ignition source. Use handling) equipment	personal protective equipment (see Section tization problems should not be employed Do not get in eyes or on skin or clothing. Avoid release to the environment. Use of popropriate respirator when ventilation is inat onfined spaces unless adequately ventilation oved alternative made from a compatible use. Store and use away from heat, spark e explosion-proof electrical (ventilating, light. Use only non-sparking tools. Take prece discharges. Empty containers retain proce reuse container.	in any process in which Do not breathe vapour or only with adequate adequate. Do not enter ed. Keep in the original material, kept tightly s, open flame or any other nting and material cautionary measures
Advice on general occupational hygiene	handled, stored and drinking and smokin	smoking should be prohibited in areas wh processed. Workers should wash hands g. Remove contaminated clothing and pro s. See also Section 8 for additional inform	and face before eating, otective equipment before
7.2 Conditions for safe storage, including any incompatibilities	with local regulations container protected t from incompatible m Eliminate all ignition closed and sealed u carefully resealed ar containers. Use app	bllowing temperatures: 0 to 35°C (32 to 95 s. Store in a segregated and approved are from direct sunlight in a dry, cool and well- naterials (see Section 10) and food and dri sources. Separate from oxidising materia ntil ready for use. Containers that have be nd kept upright to prevent leakage. Do not propriate containment to avoid environmer apatible materials before handling or use.	ea. Store in original ventilated area, away nk. Store locked up. als. Keep container tightly een opened must be t store in unlabelled

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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	
xylene	Ministry of Labor (France, 9/2023) [xylènes, isomères mixtes,
	purs] Absorbed through skin.
	STEL 15 minutes: 442 mg/m ³ .
	STEL 15 minutes: 100 ppm.
	TWA 8 hours: 221 mg/m ³ .
	TWA 8 hours: 50 ppm.
2-methylpropan-1-ol	Ministry of Labor (France, 9/2023)
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 150 mg/m³.
crystalline silica, respirable powder (<10 microns)	Ministry of Labor (France, 9/2023)
	TWA 8 hours: 0.1 mg/m ³ . Form: Respirable fraction.
ethylbenzene	Ministry of Labor (France, 9/2023) Absorbed through skin.
	TWA 8 hours: 20 ppm.
	TWA 8 hours: 88.4 mg/m ³ .
	STEL 15 minutes: 442 mg/m ³ .
	STEL 15 minutes: 100 ppm.

Code : 000001161198 Date of issue/Date of revision : 22 November 2024 PHENGUARD SUBSEA 780 BASE ORANGE / RAL 2004 **Exposure limit values** Product/ingredient name Abu Dhabi - OSHAD - Occupational air quality threshold limit barium sulfate values (United Arab Emirates, 7/2016) TWA 8 hours: 10 mg/m³. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 10 mg/m³. ACGIH TLV (United States, 7/2023) TWA 8 hours: 5 mg/m³. Form: Inhalable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit xylene values (United Arab Emirates, 7/2016) [xylene (o, m & p isomers)] A4. STEL 15 minutes: 651 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 434 mg/m³. TWA 8 hours: 100 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) [xylene (all isomers)] STEL 15 minutes: 150 ppm. TWA 8 hours: 434 mg/m³. STEL 15 minutes: 651 mg/m³. TWA 8 hours: 100 ppm. ACGIH TLV (United States, 7/2023) [p-xylene and mixtures containing p-xylene] A4. Ototoxicant. TWA 8 hours: 20 ppm. Abu Dhabi - OSHAD - Occupational air quality threshold limit Mica-group minerals values (United Arab Emirates, 7/2016) TWA 8 hours: 3 mg/m³. Form: measured as respirable fraction of the aerosol. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 3 mg/m³. ACGIH TLV (United States, 7/2023) TWA 8 hours: 0.1 mg/m³. Form: Respirable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit crystalline silica, respirable powder (>10 microns) values (United Arab Emirates, 7/2016) [quartz silica crystalline-aquartz and cristobalite] A2. TWA 8 hours: 0.025 mg/m³. Form: measured as respirable fraction of the aerosol. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [silica] TWA 8 hours: 3 mg/m³. Form: respirable particulate. TWA 8 hours: 10 mg/m³. Form: inhalable particle. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 0.1 mg/m³. ACGIH TLV (United States, 7/2023) [Silica, crystalline] A2. TWA 8 hours: 0.025 mg/m³. Form: Respirable fraction. Abu Dhabi - OSHAD - Occupational air guality threshold limit 2-methylpropan-1-ol values (United Arab Emirates, 7/2016) TWA 8 hours: 152 mg/m³. TWA 8 hours: 50 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 152 mg/m³. TWA 8 hours: 50 ppm. ACGIH TLV (United States, 7/2023) English (GB) United Arab Emirates 7/17

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crystalline silica, respirable powder (<10 microns)	TWA 8 hours: 50 ppm. TWA 8 hours: 152 mg/m³.	
ethylbenzene	 TWA 8 hours: 0.025 mg/m³. Form: Respirable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A3. STEL 15 minutes: 543 mg/m³. STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 434 mg/m³. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) STEL 15 minutes: 125 ppm. TWA 8 hours: 434 mg/m³. STEL 15 minutes: 125 ppm. TWA 8 hours: 434 mg/m³. STEL 15 minutes: 543 mg/m³. TWA 8 hours: 434 mg/m³. STEL 15 minutes: 543 mg/m³. TWA 8 hours: 100 ppm. ACGIH TLV (United States, 7/2023) A3. Ototoxicant. TWA 8 hours: 20 ppm. 	
titanium dioxide	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A4. TWA 8 hours: 10 mg/m ³ . Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 10 mg/m ³ . ACGIH TLV (United States, 7/2023) A3. TWA 8 hours: 2.5 mg/m ³ . Form: respirable fraction, finescale particles.	
x ylene	DOL BEI (South Africa, 3/2021) [xylenes] BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling tim end of shift.	
ethylbenzene	DOL BEI (South Africa, 3/2021) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.	
procedures Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	d be made to monitoring standards, such as the following: European O (Workplace atmospheres - Guidance for the assessment of exposu- hemical agents for comparison with limit values and measurement can Standard EN 14042 (Workplace atmospheres - Guide for the use of procedures for the assessment of exposure to chemical and) European Standard EN 482 (Workplace atmospheres - General the performance of procedures for the measurement of chemical ce to national guidance documents for methods for the determination postances will also be required.	

8.2 Exposure controls

Conforms to Regulation (EC) 2020/878	007/2006 (REACH), Annex II, as amend	ded by Commission Regulation (EU)
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Appropriate engineering controls	ner engineering controls to keep worker commended or statutory limits. The eng	rocess enclosures, local exhaust ventilation or exposure to airborne contaminants below any jineering controls also need to keep gas, ower explosive limits. Use explosion-proof
Individual protection measu		
Hygiene measures	ting, smoking and using the lavatory and	remove potentially contaminated clothing. allowed out of the workplace. Wash sure that eyewash stations and safety
Eye/face protection Skin protection	emical splash goggles and face shield.	
Hand protection	orn at all times when handling chemical p cessary. Considering the parameters sp ring use that the gloves are still retaining ted that the time to breakthrough for any ove manufacturers. In the case of mixture otection time of the gloves cannot be acc quently repeated contact may occur, a g reakthrough time greater than 480 minut hen only brief contact is expected, a glove eakthrough time greater than 30 minute e user must check that the final choice of	glove with a protection class of 6 tes according to EN 374) is recommended.
Gloves	tyl rubber	
Body protection	rformed and the risks involved and shound ndling this product. When there is a risk atic protective clothing. For the greatest ould include anti-static overalls, boots ar	y should be selected based on the task being IId be approved by a specialist before of ignition from static electricity, wear anti- protection from static discharges, clothing and gloves. Refer to European Standard EN of design requirements and test methods.
Other skin protection		kin protection measures should be selected e risks involved and should be approved by a
Respiratory protection		
Environmental exposure controls	ey comply with the requirements of enviro	s equipment should be checked to ensure onmental protection legislation. In some ng modifications to the process equipment cceptable levels.

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	: Orange.
Odour	: Aromatic. [Slight]
Odour threshold	: Not available.
Melting point/freezing point	: Not determined.
Initial boiling point and boiling range	: >37.78°C

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SECTION 9: Physical	and	chemical prop	perties					
Flammability	:	Not determined. The	re are no	data ava	ilable on the r	nixture	itself.	
Upper/lower flammability or explosive limits	:	Not available.						
Flash point	:	Closed cup: 24°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		N-(2,3-dihydro-2-oxo-1H- benzimidazol-5-yl)-2-[(2-methoxyphenyl)azo] -3-oxobutyramide	-	280	536			
Decomposition temperature	:	Stable under recomm	nended st	orage ar	nd handling co	ondition	s (see Sec	tion 7).
рН	:	Not applicable. insolu	uble in wa	ter.				
Viscosity	:	Øynamic (room temp Kinematic (room tem Kinematic (40°C): ≥2	nperaturé)					
Viscosity	:	> 100 s (ISO 6mm)						
Solubility(ies)	:	1						
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octar water	nol/ :	Not applicable.						
Vapour pressure	:	In the second second	Vapour Pressure at 20°C		Vapour pressure at		sure at 50°C	
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			
Relative density	:	1.76						
Explosive properties	:	The product itself is a vapour or dust with a			the formation	of an e	xplosible m	nixture of
Oxidising properties		Product does not pre	esent an o	xidizing	nazard.			
Particle characteristics								
Median particle size	:	Not applicable.						
9.2 Other information								
No additional information.								
SECTION 10: Stability	y and	d reactivity						
10.1 Reactivity	: No	specific test data rela	ated to rea	ctivity av	ailable for this	s produ	ct or its ing	redients.
10.2 Chemical stability	: The	e product is stable.						
10.3 Possibility of hazardous reactions	: Un	der normal conditions	of storag	e and us	e, hazardous	reactio	ns will not o	occur.
10.4 Conditions to avoid		nen exposed to high te fer to protective meas	•	-		rdous d	lecomposit	ion products.
10.5 Incompatible materials		ep away from the follo dising agents, strong	-			g exoth	ermic reac	tions:

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SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen 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		Ū	
	LD50 Oral	Rat	>2000 mg/kg	-

Conclusion/Summary : 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	-

Conclusion/Summary

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Respiratory

Skin

Eyes

: There are no data available on the mixture itself.

Sensitisation

Teratogenicity

Product/ingr	edient name	Route of exposure	Species	Result	
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine		skin	Guinea pig	Sensitising	
Conclusion/Summary			·	·	
Skin	: There are no data avai	lable on the mixtu	re itself.		
Respiratory	: There are no data available on the mixture itself.				
Mutagenicity					
Conclusion/Summary	: There are no data avai	lable on the mixtu	re itself.		
Carcinogenicity					
Conclusion/Summary	: There are no data avai	lable on the mixtu	re itself.		

Reproductive toxicity

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

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

Specific target organ toxicity (single exposure)

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SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Specific target organ toxicity (repeated exposure)			
Product/ingredient name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
ethylbenzene	Category 2	-	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 effects

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 ph	ys	ical, chemical and toxicological characteristics
Inhalation	1	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 s as well as chronic effects from short and long-term exposure
Short term exposure	<u> </u>	s as well as enrolle encets non short and long-term exposure
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ct	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.

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SECTION 11: Toxicological information

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.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. 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. Avoid contact with skin and clothing.

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
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	Daphnia -	-
	water	Ceriodaphnia dubia	
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
ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	- 301D Ready Biodegradability - Closed Bottle Test	79 % - Readily - 10 days 22 % - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine		-	Readily Readily Inherent

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	Low
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	>5.86	-	High

12.4 Mobility in soil

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

<u>Product</u>	
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	: 🚩 es.
Elementaria de la contrata de	

European waste catalogue (EWC)

Waste code	Waste designation		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substa		
Packaging			
Methods of disposal : The generation of waste should be avoided or minimised wherever possible. N packaging should be recycled. Incineration or landfill should only be considered recycling is not feasible.		uld be recycled. Incineration or landfill should only be considered when	
Type of packaging	European waste catalogue (EWC)		
Container	15 01 06	mixed packaging	

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SECTION 13: Disposal considerations

 Special precautions This material and its container must be disposed of in a safe way. Care shoul taken when handling emptied containers that have not been cleaned or rinsed Empty containers or liners may retain some product residues. Vapour from presidues may create a highly flammable or explosive atmosphere inside the control bornot cut, weld or grind used containers unless they have been cleaned thore internally. Avoid dispersal of spilt material and runoff and contact with soil, wa drains and sewers.
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SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID 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	III
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	: (D/E)
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
ΙΑΤΑ	: None identified.

14.6 Special precautions for : 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.

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 EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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SECTION 15: Regula	atory information		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other national and internat	tional regulations.		
Explosive precursors	: Not applicable.		
Ozone depleting substance Not listed.	<u>es (1005/2009/EU)</u>		
NOT IISTED.			
I5.2 Chemical safety assessment	: No Chemical Safety As	ssessment has been carried out.	
SECTION 16: Other i	information		
Indicates information that	has changed from previous	ly issued version.	
Abbreviations and acronyms	1272/2008] DNEL = Derived No Et	abelling and Packaging Regulation [Re ffect Level -specific Hazard statement Effect Concentration	gulation (EC) No.
Full text of abbreviated H statements	H226Flammable IH304May be fatalH312Harmful in coH315Causes skinH317May cause aH318Causes serieH319Causes serieH322Harmful if inlH335May cause aH336May cause aH372Causes damH373May cause a	an allergic skin reaction. ous eye damage. ous eye irritation.	
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B STOT RE 1 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUA LONG-TERM (CHRONIC) AQUA ASPIRATION HAZARD - Categor SERIOUS EYE DAMAGE/EYE IR SERIOUS EYE DAMAGE/EYE IR FLAMMABLE LIQUIDS - Categor FLAMMABLE LIQUIDS - Categor SKIN CORROSION/IRRITATION SKIN SENSITISATION - Categor SKIN SENSITISATION - Categor SPECIFIC TARGET ORGAN TO EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TO EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TO	TIC HAZARD - Category 3 y 1 RITATION - Category 1 RITATION - Category 2 y 2 y 3 - Category 2 y 1 XICITY - REPEATED

English (GB)

United Arab Emirates

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Code : 000001161 PHENGUARD SUBSEA 780	198 0 BASE ORANGE / RAL 2004	Date of issue/Date of revision	: 22 November 2024		
SECTION 16: Other information					
History					
Date of issue/ Date of revision	: 22 November 2024				
Date of previous issue	: 27 August 2024				

Prepared by : EHS Version : 1.05

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