SAFETY DATA SHEET

United Arab Emirates

: 2.01

Date of issue/Date of revision

: 20 February 2024 Version

SECTION 1: Identific undertaking	ation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: PHENGUARD SUBSEA 610 BASE REDGREY
Product code	: 000001159889
Other means of identificati 00382276; 00382340	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.

2.2 Label elements

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SECTION 2: Hazards identification				
Hazard pictograms				
Signal word	: Danger	• •		
Hazard statements	: Flammable liquid and Causes skin irritation May cause an allergi Causes serious eye May cause damage	n. c skin reaction.	exposure.	
Precautionary statements				
Prevention		es. Wear eye or face protection. Keep av en flames and other ignition sources. No s		
Response		autiously with water for several minutes. R do. Continue rinsing. Immediately call a P		
Storage	: Not applicable.			
Disposal	international regulation	and container in accordance with all local, ons. 2305 + P351 + P338, P310, P501	regional, national and	
Hazardous ingredients	2-methylpropan-1-ol crystalline silica, resp	formaldehyde, glycidyl ether (MW<=700) birable powder (<10 microns) l2-hydroxy-, reaction products with ethyler		
Supplemental label elements	: Contains epoxy cons	tituents. 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>ients</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 no	ot contain any substances that are assess	ed to be a PBT or a vPv	
Other hazards which do not result in classification	: Prolonged or repeate	ed contact may dry skin and cause irritatio	n.	

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3.2 Mixtures

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SECTION 3: Composition/information on ingredients

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
henol, 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	EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	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 - ≤5.0	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]
Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5 CAS: 64742-48-9	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	EUH066: C ≥ 20%	[1]
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. <u>Type</u>

[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.

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SECTION 3: Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

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4.1 Description of first aid n	neasures
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	<u>effects</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/	symptoms
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 in	nmediate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

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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 fi	om 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 sulfur oxides halogenated compounds metal oxide/oxides
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.

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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.

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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 name	Exposure limit values
▶arium sulfate	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 10 mg/m ³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning
	Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 10 mg/m ³ 8 hours.
	ACGIH TLV (United States, 1/2023). Notes: The value is for total dust containing no asbestos and < 1% crystalline silica.
	TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
xylene	Abu Dhabi - OSHAD - Occupational air quality threshold limit
	values (United Arab Emirates, 7/2016). [xylene (o, m & p
	isomers)]
	STEL: 651 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
	Cabinet Decree (12) of 2006 Regarding Regulation Concerning
	Protection of Air from Pollution (United Arab Emirates, 5/2006).
	[xylene (all isomers)]
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m ³ 8 hours.
	STEL: 651 mg/m ³ 15 minutes.
	TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 1/2023). [p-xylene and mixtures
	containing p-xylene] Ototoxicant.
	TWA: 20 ppm 8 hours.
titanium dioxide	Abu Dhabi - OSHAD - Occupational air quality threshold limit
	values (United Arab Emirates, 7/2016).
	TWA: 10 mg/m ³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning
	Protection of Air from Pollution (United Arab Emirates, 5/2006).
	TWA: 10 mg/m ³ 8 hours.
	ACGIH TLV (United States, 1/2023).
	TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles
Mica-group minerals	Abu Dhabi - OSHAD - Occupational air quality threshold limit
mou group minerais	values (United Arab Emirates, 7/2016).
	TWA: 3 mg/m ³ 8 hours. 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: 3 mg/m ³ 8 hours.
	ACGIH TLV (United States, 1/2023). Notes: Respirable fraction;
	see Appendix C, paragraph C.
Aluminium nouder (stabilized)	TWA: 0.1 mg/m ³ 8 hours. Form: Respirable fraction
Aluminium powder (stabilized)	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [aluminum metal and
	insoluble compounds]
	TWA: 1 mg/m ³ 8 hours. Form: measured as respirable fraction of
	the aerosol
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2-methylpropan-1-ol	TWA: 1 mg/m ³ 8 hours. Form: Respirable fraction Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
crystalline silica, respirable powder (>10 microns)	ACGIH TLV (United States, 1/2023). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning
	Protection of Air from Pollution (United Arab Emirates, 5/2006).TWA: 0.1 mg/m³ 8 hours.Abu Dhabi - OSHAD - Occupational air quality threshold limitvalues (United Arab Emirates, 7/2016). [silica (inhalable particle)/(respirable particulate)]TWA: 10 mg/m³ 8 hours. Form: inhalable particleTWA: 10 mg/m³ 8 hours. Form: inhalable particleTWA: 3 mg/m³ 8 hours. Form: respirable particulateAbu Dhabi - OSHAD - Occupational air quality threshold limitvalues (United Arab Emirates, 7/2016). [quartz silicacrystalline–α-quartz and cristobalite]TWA: 0.025 mg/m³ 8 hours. Form: measured as respirable fractionof the aerosolACGIH TLV (United States, 1/2023). [Silica, crystalline] Notes:Respirable fraction; see Appendix C, paragraph C.TWA: 0.025 mg/m³ 8 hours. Form: Respirable
crystalline silica, respirable powder (<10 microns)	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 0.1 mg/m ³ 8 hours. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [silica (inhalable particle)/ (respirable particulate)] TWA: 10 mg/m ³ 8 hours. Form: inhalable particle TWA: 3 mg/m ³ 8 hours. Form: respirable particulate Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [quartz silica crystalline– α -quartz and cristobalite] TWA: 0.025 mg/m ³ 8 hours. Form: measured as respirable fraction of the aerosol ACGIH TLV (United States, 1/2023). [Silica, crystalline] Notes: Respirable fraction; see Appendix C, paragraph C. TWA: 0.025 mg/m ³ 8 hours. Form: Respirable
ethylbenzene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 543 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 434 mg/m ³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 125 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours.

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		STEL: 543 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption. TWA: 20 ppm 8 hours.
Recommended monitoring procedures	Sta by str ap bic rec ag	ference should be made to monitoring standards, such as the following: European andard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure inhalation to chemical agents for comparison with limit values and measurement ategy) European Standard EN 14042 (Workplace atmospheres - Guide for the plication and use of procedures for the assessment of exposure to chemical and ological agents) European Standard EN 482 (Workplace atmospheres - General quirements for the performance of procedures for the measurement of chemical ents) Reference to national guidance documents for methods for the determination hazardous substances will also be required.
2 Exposure controls		
Appropriate engineering controls	otł rec va	e only with adequate ventilation. Use process enclosures, local exhaust ventilation her engineering controls to keep worker exposure to airborne contaminants below ar commended or statutory limits. The engineering controls also need to keep gas, pour or dust concentrations below any lower explosive limits. Use explosion-proof ntilation equipment.
ndividual protection measu	res	
Hygiene measures	ea Ap Co co	ash hands, forearms and face thoroughly after handling chemical products, before ting, smoking and using the lavatory and at the end of the working period. propriate techniques should be used to remove potentially contaminated clothing. Intaminated work clothing should not be allowed out of the workplace. Wash intaminated clothing before reusing. Ensure that eyewash stations and safety owers are close to the workstation location.
Eye/face protection Skin protection	: Ch	emical splash goggles and face shield.
Hand protection	wc ne du no glc pro fre (br (br (br Th pro	emical-resistant, impervious gloves complying with an approved standard should be orn at all times when handling chemical products if a risk assessment indicates this is cessary. Considering the parameters specified by the glove manufacturer, check ring use that the gloves are still retaining their protective properties. It should be ted that the time to breakthrough for any glove material may be different for different ove manufacturers. In the case of mixtures, consisting of several substances, the otection time of the gloves cannot be accurately estimated. When prolonged or quently repeated contact may occur, a glove with a protection class of 6 eakthrough time greater than 480 minutes according to EN 374) is recommended. hen only brief contact is expected, a glove with a protection class of 2 or higher eakthrough time greater than 30 minutes according to EN 374) is recommended. e user must check that the final choice of type of glove selected for handling this oduct is the most appropriate and takes into account the particular conditions of use, included in the user's risk assessment.
Gloves	: bu	tyl rubber
Body protection	pe ha sta sh	rsonal protective equipment for the body should be selected based on the task being rformed and the risks involved and should be approved by a specialist before ndling this product. When there is a risk of ignition from static electricity, wear anti- tic protective clothing. For the greatest protection from static discharges, clothing ould include anti-static overalls, boots and gloves. Refer to European Standard EN 49 for further information on material and design requirements and test methods.
Other skin protection	ba	propriate footwear and any additional skin protection measures should be selected sed on the task being performed and the risks involved and should be approved by a ecialist before handling this product.

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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 equipme will be necessary to reduce emissions to acceptable levels.					
SECTION 9: Physical a	ind chemical prop	perties				
The conditions of measurement of	f all properties are at stan	dard tempe	rature and	pressure ur	nless otherwise indicated.	
9.1 Information on basic physic	al and chemical propert	ies				
<u>Appearance</u>						
Physical state	: Liquid.					
Colour	: Grey.					
Odour	: Aromatic. [Slight]					
Odour threshold	: Not available.					
Melting point/freezing point	: May start to solidify a data for the following Weighted average: -	ingredient:	Naphtha (C (<-76°F) This is based on hydrotreated heavy.	
Initial boiling point and boiling range	: >37.78°C					
Flammability	: Not available.					
Upper/lower flammability or explosive limits	: Greatest known rang	ge: Lower: 1	.7% Uppe	er: 10.9% (2-	methylpropan-1-ol)	
Flash point	: Closed cup: 27°C					
Auto-ignition temperature	: Ingredient name		°C	°F	Method	
	Hydrocarbons, C9-C11, isoalkanes, cyclics, <2%		270	518		
Decomposition temperature	: Stable under recomr	nended stor	rage and h	andling con	ditions (see Section 7).	
рН	: Not applicable. insolu	uble in wate	er.			
Viscosity		: Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s				
Viscosity	: > 100 s (ISO 6mm)					
Solubility(ies)	1					
Media	Result					
cold water	Not soluble					
Partition coefficient: n-octano water	I/ : Not applicable.					
Vapour pressure	:	Vapour	Pressure	at 20°C	Vapour pressure at 50°C	

In one office of the one of	Vapour Pressure at 20°C			Vapour pressure 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			

Evaporation rate	 Highest known value: 0.84 (ethylbenzene) Weighted average: 0.75compared with butyl acetate
Relative density	: 1.77
Vapour density	: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.44 (Air = 1)
Explosive properties	 The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
Oxidising properties	: Product does not present an oxidizing hazard.
Particle characteristics	
Median particle size	: Not applicable.

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SECTION 9: Physical and chemical properties

9.2 Other information

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 sulfur oxides halogenated compounds metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
X lene	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	-
Hydrocarbons, C9-C11, n-alkanes,	LD50 Dermal	Rat	>5000 mg/kg	-
isoalkanes, cyclics, <2% aromatics				
	LD50 Oral	Rat	>5000 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			
-	LD50 Oral	Rat	>2000 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name		Result Specie		Score	Exposure	Observation	
x ylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-	
Conclusion/Summary		I	1			1	
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							

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SECTION 11: Toxicological information

Product/ing	redient 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 mixtur	e itself.	
Respiratory	: There are no data avai	lable on the mixtur	e itself.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data avai	lable on the mixtur	e itself.	
Carcinogenicity				
Conclusion/Summary	: There are no data avai	lable on the mixtur	e itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data avai	lable on the mixtur	e itself.	
Teratogenicity				
Conclusion/Summary	: There are no data avai	lable on the mixtur	e itself.	
Specific target organ toxi	city (single exposure)			

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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Quartz (SiO2)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/ingredient name	Result
xylene Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely : Not available. routes of exposure

Potential acute health effects

: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
: Causes serious eye damage.
e physical, chemical and toxicological characteristics
: No specific data.
: Adverse symptoms may include the following: stomach pains

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Skin contact	: Adverse symptoms pain or irritation redness dryness cracking blistering may occur	may include the following:		
Eye contact	: Adverse symptoms pain watering redness	may include the following:		
Delayed and immediate eff	ects as well as chronic	effects from short and long-term expo	<u>sure</u>	
Short 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 eff Not available.	fects			
Conclusion/Summary	: Not available.			
General	repeated contact ca	to organs through prolonged or repeated n defat the skin and lead to irritation, crac severe allergic reaction may occur when s	king and/or dermatitis.	
Carcinogenicity	: No known significan	t effects or critical hazards.		
Mutagenicity	: No known significan	t effects or critical hazards.		
Reproductive toxicity	: No known significan	: 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

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Product/ingredient name	Result	Species	Exposure
✓methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	LC50 >1000 mg/l	Algae	72 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - 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
Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, <2% aromatics	-	80 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-
Octadecanoic acid,	301D Ready	22 % - 28 days	-	-
12-hydroxy-, reaction products with ethylenediamine	Biodegradability - Closed Bottle Test			

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
▼ylene Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	-	- - - -	Readily Readily Readily Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	10 to 2500	High
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.

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SECTION 12: Ecological information

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 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	taken when Empty conta residues ma Do not cut, v	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

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	III	Ш		
		English (GB) Unit	ed Arab Emirates	15/17

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14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
2.2 Tunnel code : (D/ IMDG : Thi	.3.1.5.1. E)		kagings up to 450 L according to kagings up to 450 L according to 2.3.2.5.
14.6 Special precaution user		e. Ensure that persons transp	ansport in closed containers that are porting the product know what to do in the
14.7 Transport in bulk according to IMO instruments	: Not applicable.		
	gulatory informatio		
EU Regulation (EC) N	environmental regulations o. 1907/2006 (REACH) ubstances subject to authorem ents are listed.		e substance or mixture
Substances of very	<u>high concern</u>		
None of the compone Annex XVII - Restrict on the manufacture, placing on the mark and use of certain dangerous substant mixtures and articles	tions : Not applicable. et ces,		
	- ternational regulations.		
Explosive precursors			019/1148. All suspicious transactions, Ild be reported to the relevant national
Ozone depleting sub Not listed.	<u>stances (1005/2009/EU)</u>		
15.2 Chemical safety assessment	: No Chemical Safe	ty Assessment has been car	ried out.

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SECTION 16: Other information						
Indicates information that	has changed from previously i	issued version.				
Abbreviations and acronyms	: ATE = Acute Toxicity Est CLP = Classification, Lab 1272/2008] DNEL = Derived No Effect EUH statement = CLP-sp PNEC = Predicted No Eff RRN = REACH Registrat	belling and Packaging Regulation [Reg ct Level becific Hazard statement fect Concentration	gulation (EC) No.			
Full text of abbreviated H statements	H226Flammable liquH304May be fatal if sH312Harmful in contH315Causes skin irrH317May cause seriousH318Causes seriousH319Causes seriousH322Harmful if inhalH335May cause resH336May cause drowH372Causes damagH373May cause danH411Toxic to aquatiH412Harmful to aqu	swallowed and enters airways. tact with skin. itation. allergic skin reaction. s eye damage. s eye irritation.	repeated exposure.			
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) AQUAT LONG-TERM (CHRONIC) AQUAT ASPIRATION HAZARD - Category SERIOUS EYE DAMAGE/EYE IRF SERIOUS EYE DAMAGE/EYE IRF FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SKIN SENSITISATION - Category SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 3	IC HAZARD - Category 2 IC HAZARD - Category 3 I RITATION - Category 1 RITATION - Category 2 2 3 Category 2 1 IB ICITY - REPEATED ICITY - REPEATED			
History						
Date of issue/ Date of revision	: 20 February 2024					
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Prepared by	: EHS					
Version Disclaimer	: 2.01					

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