SAFETY DATA SHEET

United Arab Emirates

Date of issue/Date of revision

: 20 March 2024

Version

: 24.01

SECTION 1: Identif undertaking	ication of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMAFAST 278 BASE RAL 7035
Product code	: 00324217
Other means of identification Not available.	ation
1.2 Relevant identified use	es of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier	of the safety data sheet
Sigma Paint Saudi Arabia L PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	.td.
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa
1.4 Emergency telephone number	e : 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 Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 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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ION 2: Hazards id	lentification
pictograms :	
word :	Danger
statements :	Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
<u>tionary statements</u>	
ntion :	Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoir release to the environment. Do not breathe vapour.
	Collect spillage.
ge :	Not applicable.
sal :	Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P260, P391, P501
ous ingredients :	bis-[4-(2,3-epoxipropoxi)phenyl]propane crystalline silica, respirable powder (<10 microns) 4-nonylphenol, branched oxirane, mono[(C12-14-alkyloxy)methyl] derivs. Fatty acids, C14-18 and C16-18-unsatd., maleated maleic anhydride
mental label : its	Contains epoxy constituents. May produce an allergic reaction.
XVII - Restrictions : manufacture, y on the market and certain dangerous nces, mixtures and	Not applicable.
I packaging requiremen	i <u>ts</u>
iners to be fitted : hild-resistant ings	Not applicable.
warning of danger :	Not applicable.
r hazards	
t meets the criteria : or vPvB	This mixture does not contain any substances that are assessed to be a PBT or a vPv \ensuremath{P}
azards which do :	Causes digestive tract burns.
	May cause endocrine disruption.
or vPvB azards which do :	Causes digestive tract burns.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	: Mixture	%	Classification	Specific Conc. Limits, M-factors	Туре
øs-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	and ATEs Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
crystalline silica, respirable powder (<10 microns)	EC: 238-878-4 CAS: 14808-60-7	≥5.0 - <10	STOT RE 1, H372 (inhalation)	-	[1] [2]
4-nonylphenol, branched	REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	≥5.0 - ≤10	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1300 mg/ kg M [Acute] = 10 M [Chronic] = 10	[1] [3]
xylene	REACH #: 01-2119488216-32 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]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤1.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Fatty acids, C14-18 and C16-18-unsatd., maleated	REACH #: 01-2119978273-29 EC: 288-306-2 CAS: 85711-46-2	≤0.30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.10	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372	ATE [Oral] = 400 mg/ kg Skin Sens. 1, H317: C ≥ 0.001%	[1] [2]
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SECTION 3: Composition/information on ingredients			
		(recontratory existence)	

(respiratory system) (inhalation) EUH071 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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute h	ealth effects
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
<u>Over-exposure si</u>	gns/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness

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SECTION 4: First aid measures

Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations	

4.3 Indication of any immediate 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon 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	: Fire-fighters should wear appropriate protective equipment and self-contained breathin

Special protective	: Fire-fighters should wear appropriate protective equipment and self-contained breathing
equipment for fire-fighters	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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ptective 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. Collect spillage.
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

- Earge optime in the contained method contained inclusion optimated. Occ optime proof teolo 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 spill product.
 6.4 Reference to other
- 6.4 Reference to other: See Section 1 for emergency contact information.sections: 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

his thi ex an mi ve sto co clo igr ha ag	It on appropriate personal protective equipment (see Section 8). Persons with a story of skin sensitization problems should not be employed in any process in which s product is used. Avoid exposure - obtain special instructions before use. Avoid posure during pregnancy. Do not handle until all safety precautions have been read d understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or st. Do not ingest. Avoid release to the environment. Use only with adequate ntilation. Wear appropriate respirator when ventilation is inadequate. Do not enter orage areas and confined spaces unless adequately ventilated. Keep in the original ntainer or an approved alternative made from a compatible material, kept tightly osed when not in use. Store and use away from heat, sparks, open flame or any other nition source. Use explosion-proof electrical (ventilating, lighting and material ndling) equipment. Use only non-sparking tools. Take precautionary measures ainst electrostatic discharges. Empty containers retain product residue and can be zardous. Do not reuse container.
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SECTION 7: Handli	ing and storage
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.

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
rystalline silica, respirable powder (>10 mic	 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 limit values (United Arab Emirates, 7/2016). [silica (inhalable particle)/ (respirable particulate)] TWA: 10 mg/m³ 8 hours. Form: inhalable particle TWA: 3 mg/m³ 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/m³ 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/m³ 8 hours. Form: Respirable
Talc , not containing asbestiform fibres crystalline silica, respirable powder (<10 mic	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 2 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: 2 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2023). TWA: 2 mg/m ³ 8 hours. Form: Respirable Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 2 mg/m ³ 8 hours. Form: Respirable 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.
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	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [silica (inhalable particle)/ (respirable particulate)]TWA: 10 mg/m³ 8 hours. Form: inhalable particle TWA: 3 mg/m³ 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/m³ 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/m³ 8 hours. Form: Respirable
titanium dioxide	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 10 mg/m³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 10 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles
xylene	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p isomers)] STEL: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 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/m³ 8 hours. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 15 minutes. TWA: 434 mg/m³ 15 minutes. TWA: 434 mg/m³ 15 minutes. TWA: 400 ppm 8 hours. STEL: 651 mg/m³ 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.
1-methoxy-2-propanol	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 369 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. STEL: 553 mg/m ³ 15 minutes. STEL: 553 mg/m ³ 15 minutes. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 150 ppm 15 minutes. TWA: 369 mg/m ³ 8 hours. STEL: 553 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). STEL: 369 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.

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Recommended monitoring procedures	 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.
8.2 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.
Individual protection measu	<u>ires</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 particular 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 antistatic 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	:
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.

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SECTION 9: Physical and chemical properties

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

Physical state	1	Liquid.						
Colour	:	Various						
Odour	:	Aromatic.						
Odour threshold	1	Not available.						
Melting point/freezing point	:	May start to solidify a based on data for the Weighted average: -1	following	ingredie	•	,		/
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	1.48%	Upper: 13.74	% (1-me	thoxy-2-p	ropanol)
Flash point	:	Closed cup: 38°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		1-methoxy-2-propanol		270	518			
Decomposition temperature	1	Stable under recomm	ended st	orage ar	nd handling c	onditions	s (see Sec	tion 7).
ЭΗ	1	Not applicable. insolu		ter.				
/iscosity	1	Kinematic (40°C): >2						
Viscosity	1	60 - 100 s (ISO 6mm)					
Solubility(ies)	1							
Media		Result						
Wedia								
cold water		Not soluble						
cold water Partition coefficient: n-octanol	/:	Not soluble						
cold water Partition coefficient: n-octanol water	/ : :	Not soluble Not applicable.	Vapou	Ir Press	ure at 20°C	Vap	oour press	sure at 50°
cold water Partition coefficient: n-octanol water		Not soluble	Vapou mm Hg		ure at 20°C Method	Vap mm Hg	oour press	sure at 50°(Method
cold water Partition coefficient: n-octanol water		Not soluble Not applicable.	-		1	mm		1
cold water Partition coefficient: n-octanol water Vapour pressure	:	Not soluble Not applicable.	mm Hg 8.5	kPa 1.1 -methoxy	Method	mm Hg	kPa	Method
cold water Partition coefficient: n-octanol water Vapour pressure	:	Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value:	mm Hg 8.5	kPa 1.1 -methoxy	Method	mm Hg	kPa	Method
cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density	:	Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value: 0.78compared with b	mm Hg 8.5 0.814 (1 utyl aceta 11.7 (Ai	kPa 1.1 -methoxy te r = 1) (b	Method y-2-propanol)	mm Hg	kPa ted average	Method Je:
cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Vapour density	:	Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value: 0.78compared with b 1.68 Highest known value:	mm Hg 8.5 0.814 (1 utyl aceta 11.7 (Ai 76 (Air = iot explos	kPa 1.1 -methoxy te r = 1) (b : 1) ive, but t	Method y-2-propanol) ois-[4-(2,3-epo	Weight	kPa ted averag	Method Je: propane).
cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties		Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value: 0.78compared with b 1.68 Highest known value: Weighted average: 8 The product itself is n	mm Hg 8.5 0.814 (1 utyl aceta 11.7 (Ai 76 (Air = rot explos r is possi	kPa 1.1 -methoxy te r = 1) (b : 1) ive, but t ble.	Method y-2-propanol) bis-[4-(2,3-epo the formation	Weight	kPa ted averag	Method Je: propane).
		Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value: 0.78compared with b 1.68 Highest known value: Weighted average: 8 The product itself is n vapour or dust with ai	mm Hg 8.5 0.814 (1 utyl aceta 11.7 (Ai 76 (Air = rot explos r is possi	kPa 1.1 -methoxy te r = 1) (b : 1) ive, but t ble.	Method y-2-propanol) bis-[4-(2,3-epo the formation	Weight	kPa ted averag	Method Je: propane).

No additional information.

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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 halogenated compounds metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
s-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
oxirane, mono[(C12-14-alkyloxy)methyl]	LD50 Oral	Rat	17100 mg/kg	-
derivs.				
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and	Rat	>5.7 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>5000 mg/kg	-
maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
s-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the	Rabbit	0.4	24 hours	-
	conjunctivae				
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	-	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary					
Skin : There are	no data available on the r	nixture itself	-		
Eyes : There are	no data available on the r	nixture itself			

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Respiratory

: There are no data available on the mixture itself.

Sensitisation

Product/ingredient nameRoute of
exposureSpeciesResultbis-[4-(2,3-epoxipropoxi)phenyl]propane
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.skinMouse
Guinea pigSensitising
Sensitising

Conclusion/SummarySkin: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.Mutagenicity: There are no data available on the mixture itself.Conclusion/Summary: There are no data available on the mixture itself.Carcinogenicity: There are no data available on the mixture itself.Conclusion/Summary: There are no data available on the mixture itself.Reproductive toxicity: There are no data available on the mixture itself.Reproductive toxicity: There are no data available on the mixture itself.Teratogenicity: 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)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Quartz (SiO2)	- 3,	inhalation	-
maleic anhydride		inhalation	respiratory system

Aspiration hazard

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

: Not available.

Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to the p	hysical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

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Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Delayed and immediate effe	cts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
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	ect	<u>></u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very lo levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	Suspected of damaging fertility. Suspected of damaging the unborn child.
Other information	:	Not available.

Causes digestive tract burns. 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.

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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
s-[4-(2,3-epoxipropoxi)phenyl]propane xylene	-	-	Not readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Image: An and a standard s	5.4	251.19	Low
xylene	3.12	7.4 to 18.5	Low
1-methoxy-2-propanol	<1	-	Low
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	-	Low
maleic anhydride	-2.78	-	Low

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

May cause endocrine disruption.

12.7 Other adverse effects

No known significant effects or critical hazards.

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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 catalog	ue (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.

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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	al 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. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly woid dispersal of spilt material and runoff and contact with soil, waterways, sewers.	

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN3470	UN3470	UN3470
14.2 UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
14.3 Transport hazard class(es)	8 (3)	8 (3)	8 (3)
14.4 Packing group	11	11	11
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	<mark>≬</mark> bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

Additional information

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Tunnel code : (D/E)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878			
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SECTIO	N 14: Transpo	ort information	
IMDG	: The marine	e pollutant mark is not required when transported in sizes of \leq 5 L	or ≤5 kg.
ΙΑΤΑ	: The enviro regulations	nmentally hazardous substance mark may appear if required by o	other transportation
14.6 Specia user	al precautions for	: Transport within user's premises: always transport in closed upright and secure. Ensure that persons transporting the producevent of an accident or spillage.	
14.7 Transport in bulk : according to IMO instruments		: Not applicable.	

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Endocrine disrupting properties for environment	4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	Candidate	ED/169/2012	12/19/2012

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other national and international regulations.

Other national and international regulations.

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

: No Chemical Safety Assessment has been carried out.

assessment

15.2 Chemical safety

SECTION 16: Other information

Indicates information the second s	nat has changed from previously issued version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

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SECTION 16: Other i	nformation			
Full text of abbreviated H	: H226 Flammable liqui	id and vanour		
statements	H302 Harmful if swall	•		
		May be fatal if swallowed and enters airways.		
	5	Harmful in contact with skin.		
		Causes severe skin burns and eye damage.		
		Causes skin irritation.		
		May cause an allergic skin reaction.		
		Causes serious eye damage. Causes serious eye irritation.		
		Harmful if inhaled.		
		rgy or asthma symptoms or breathing difficulties if inhaled.		
	H335 May cause resp	May cause respiratory irritation.		
		vsiness or dizziness.		
	5			
		uatic life with long lasting effects.		
		c life with long lasting effects.		
		atic life with long lasting effects.		
	EUH071 Corrosive to the	erespiratory tract.		
Full text of classifications	: Acute Tox. 4	ACUTE TOXICITY - Category 4		
[CLP/GHS]	Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category		
	Aquatic Chronic 1 Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category LONG-TERM (CHRONIC) AQUATIC HAZARD - Category		
	Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category		
	Asp. Tox. 1	ASPIRATION HAZARD - Category 1		
	Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1		
	Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2		
	Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3		
	Repr. 2 Resp. Sens. 1	REPRODUCTIVE TOXICITY - Category 2		
	Skin Corr. 1B	RESPIRATORY SENSITISATION - Category 1 SKIN CORROSION/IRRITATION - Category 1B		
	Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2		
	Skin Sens. 1	SKIN SENSITISATION - Category 1		
	Skin Sens. 1A	SKIN SENSITISATION - Category 1A		
	Skin Sens. 1B	SKIN SENSITISATION - Category 1B		
	STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1		
	STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED		
		EXPOSURE - Category 2		
	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE		
11:		EXPOSURE - Category 3		
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Prepared by	: EHS			
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