SAFETY DATA SHEET

Date of issue/Date of revision

: 16 December 2023 Version



: 5

SECTION 1: Identification of the substance/mixture and of the company/ undertaking **1.1 Product identifier Product name** : SIGMACOVER 246/410/430 LT HARDENER **Product code** : 00250027 Other means of identification Not available. 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/ : Coating. mixture : Product is not intended, labelled or packaged for consumer use. Uses advised against 1.3 Details of the supplier of the safety data sheet Sigma Paint Saudi Arabia Ltd. PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34 e-mail address of person : ndpic@sfda.gov.sa responsible for this SDS : 00966 138473100 extn 1001 **1.4 Emergency telephone** number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Corr. 1B, H314

Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd STOT SE 3, H335 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

Code : 00250027	Date of issue/Date of revision : 16 December 2023
SIGMACOVER 246/410/430	LT HARDENER
SECTION 2: Hazard	s identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapour. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. 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.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response	: Collect spillage.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P403 + P233, P501
Hazardous ingredients	 Ethylbenzene nonylphenol xylene Cashew, nutshell liq., polymer with diethylenetriamine and formaldehyde 2-methylpropan-1-ol Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6-diazaoctanethylenediamin 3-aminopropyldimethylamine 2,2'-iminodiethylamine Cashew, nutshell liq.
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	
Special packaging require	
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.
	English (GB) United Arab Emirates 2/18

Code : 00250027

SIGMACOVER 246/410/430 LT HARDENER

Date of issue/Date of revision

: 16 December 2023

SECTION 2: Hazards identification

May cause endocrine disruption.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
₽thylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥10 - ≤25	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]
nonylphenol	EC: 246-672-0 CAS: 25154-52-3 Index: 601-053-00-8	≥10 - ≤25	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] = 580 mg/ kg M [Acute] = 10 M [Chronic] = 10	[1] [3]
xylene	EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	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]
Cashew, nutshell liq., polymer with diethylenetriamine and formaldehyde	CAS: 68413-29-6	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	ATE [Oral] = 500 mg/ kg ATE [Dermal] = 1100 mg/kg	[1]
Formaldehyde, polymer with N,N-dimethyl- 1,3-propanediamine and phenol	CAS: 445498-00-0	≥5.0 - ≤10	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg M [Acute] = 1 M [Chronic] = 1	[1]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥5.0 - ≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280	[1]
<u> </u>		English	(GB) United Arab Er	nirates	3/18

Code : 00250027 SIGMACOVER 246/410/430	LT HARDENER		Date of issue/Date of revisi	on : 16 Decemb	per 2023
SECTION 3: Compo	sition/informat	ion on	ingredients		
	CAS: 90-72-2 Index: 603-069-00-0		Eye Dam. 1, H318	mg/kg	
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	<1.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[1] [2]
3-aminopropyldimethylamine	REACH #: 01-2119486842-27 EC: 203-680-9 CAS: 109-55-7 Index: 612-061-00-6	<1.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	ATE [Oral] = 410 mg/ kg ATE [Dermal] = 1100 mg/kg	[1]
2,2'-iminodiethylamine	REACH #: 01-2119473793-27 EC: 203-865-4 CAS: 111-40-0 Index: 612-058-00-X	≤0.30	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Oral] = 1080 mg/ kg ATE [Dermal] = 1090 mg/kg ATE [Inhalation (dusts and mists)] = 0.05 mg/l	[1] [2]
Cashew, nutshell liq.	EC: 232-355-4 CAS: 8007-24-7	≤0.30	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317	ATE [Oral] = 500 mg/ kg ATE [Dermal] = 1100 mg/kg	[1]
p-nonylphenol	EC: 203-199-4 CAS: 104-40-5	≤0.10	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1620 mg/ kg M [Acute] = 10 M [Chronic] = 10	[1] [3]

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.

Туре

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

SUB codes represent substances without registered CAS Numbers.

Code : 00250027

Date of issue/Date of revision

: 16 December 2023

SIGMACOVER 246/410/430 LT HARDENER

SECTION 4: First aid measures

4.1 Description of first aid m	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	offects
Eye contact	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
<u>Over-exposure signs/s</u>	
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking 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 imi	nediate medical attention and special treatment needed
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

- Code : 00250027
- SIGMACOVER 246/410/430 LT HARDENER

Date of issue/Date of revision

: 16 December 2023

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 nitrogen oxides halogenated compounds
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	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. Collect spillage.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

disposal container. Dispose of via a licensed waste disposal contractor.

Code : 00250027 Date of issue/Date of revision

SIGMACOVER 246/410/430 LT HARDENER

: 16 December 2023

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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

Code : 00250027

Date of issue/Date of revision

: 16 December 2023

SIGMACOVER 246/410/430 LT HARDENER

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
e thylbenzene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).STEL: 543 mg/m³ 15 minutes.STEL: 125 ppm 15 minutes.TWA: 100 ppm 8 hours.TWA: 434 mg/m³ 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/m³ 8 hours.STEL: 125 ppm 15 minutes.TWA: 434 mg/m³ 8 hours.STEL: 543 mg/m³ 15 minutes.TWA: 434 mg/m³ 8 hours.STEL: 543 mg/m³ 15 minutes.TWA: 100 ppm 8 hours.ACGIH TLV (United States, 1/2023). Ototoxicant. Notes:Substances for which there is a Biological Exposure Index orIndices 2002 Adoption.TWA: 20 ppm 8 hours.
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 8 hours. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 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.
2-methylpropan-1-ol	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. ACGIH TLV (United States, 1/2023). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. TWA: 50 ppm 8 hours.

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

Code : 00250027	Date of issue/Date of revision : 16 December 2023
SIGMACOVER 246/410/430 L	
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>res</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 <u>Skin protection</u>	: 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.

Date of issue/Date of revision

: 16 December 2023

Code : 00250027

SIGMACOVER 246/410/430 LT HARDENER

SECTION 9: Physical and chemical properties

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

<u>Appearance</u>								
Physical state	:	Liquid.						
Colour	:	Not available.						
Odour	:	Amine-like.						
Odour threshold	:	Not available.	Not available.					
Melting point/freezing point	:	May start to solidify at the following temperature: -8°C (17.6°F) This is based on data for the following ingredient: nonylphenol. Weighted average: -68.79°C (-91.8°F)						
Initial boiling point and boiling range	:	>37.78°C	>37.78°C					
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known rang	ge: Lower:	1.7% L	Jpper: 10.9%	(2-methy	/lpropan-1	-ol)
Flash point	:	Closed cup: 30°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		ponylphenol		370	698			
Decomposition temperature	:	Stable under recomr	nended st	orade a	nd handling o	conditions	(see Sec	tion 7).
pH	:	Not applicable. insolu		•	5		v	,
Viscosity	:	Kinematic (40°C): >2						
Solubility(ies)	:							
Media		Result						
		Result Not soluble						
Media Pold water Partition coefficient: n-octano	I/ :	Not soluble						
Media Fold water Partition coefficient: n-octano water	I/ : :	Not soluble Not applicable.	Vapou	r Press	sure at 20°C	Vap	our press	sure at 50°C
Media Fold water Partition coefficient: n-octano water		Not soluble	Vapou mm Hg		sure at 20°C Method	Vap mm Hg	our press	sure at 50°C Method
Media Fold water Partition coefficient: n-octano water		Not soluble Not applicable.	<u> </u>	kPa	+	mm	·	1
Media	:	Not soluble Not applicable.	mm Hg	kPa <1.6	Method DIN EN 13016-2	mm Hg	kPa	Method

Relative density Vapour density Explosive properties

- : Highest known value: 7.59 (Air = 1) (nonylphenol). Weighted average: 4.6 (Air = 1)
- : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
- : Product does not present an oxidizing hazard.

: Not applicable.

Oxidising properties Particle characteristics Median particle size

9.2 Other information

No additional information.

Date of issue/Date of revision

: 16 December 2023

Code : 00250027

SIGMACOVER 246/410/430 LT HARDENER

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 mg/kg	-
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	-
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil	LD50 Dermal	Rat	>2000 mg/kg	-
fatty acids and triethylenetetramine	LD50 Oral	Rat	>2000 mg/kg	
2.4.6. tric(dimethyleminemethyl) hered			>2000 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
0. Calibration of the days a dispersive	LD50 Oral	Rat	1200 mg/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
2. amin annous dalina atha da main a	LD50 Oral	Rat	1716 mg/kg	-
3-aminopropyldimethylamine	LD50 Dermal	Rabbit	>1000 mg/kg	-
	LD50 Oral	Rat	410 mg/kg	-
2,2'-iminodiethylamine	LC50 Inhalation Dusts and mists	Rat	0.07 to 0.3 mg/l	4 hours
	LD50 Dermal	Rabbit	1090 mg/kg	-
	LD50 Oral	Rat	1080 mg/kg	-
p-nonylphenol	LD50 Oral	Rat	1620 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Code : 00250027

SIGMACOVER 246/410/430 LT HARDENER

Date of issue/Date of revision : 16

: 16 December 2023

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Irritant	Human	-	-	-
2,4,6-tris(dimethylaminomethyl)phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days

Conclusion/Summary

: There are no data available on the mixture itself.

Skin Eyes

: There are no data available on the mixture itself.

Respiratory

: There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitising
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitising
Conclusion/Summony	-	•	

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2,2'-iminodiethylamine	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Product/ingredient name	Result
ethylbenzene xylene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely : Not available.	

routes of exposure

y . Not avalla

Potential acute health effects

English (GB) United Arab Emirates

Code : 00250027		Date of issue/Date of revision	: 16 December 2023
SIGMACOVER 246/410/430 L	T HARDENER		
SECTION 11: Toxico	ological infor	mation	
Inhalation	: May cause res	spiratory irritation.	
Ingestion	: Harmful if swa	allowed.	
Skin contact	: Causes sever	e burns. Defatting to the skin. May cause an al	lergic skin reaction.
Eye contact	: Causes seriou	us eye damage.	
Symptoms related to the p	hysical, chemical	and toxicological characteristics	
Inhalation	: Adverse symp respiratory tra coughing reduced foeta increase in foe skeletal malfo	I weight etal deaths	
Ingestion	: Adverse symp stomach pains reduced foeta increase in foe skeletal malfo	l weight etal deaths	
Skin contact	: Adverse symp pain or irritatio redness dryness cracking blistering may reduced foeta increase in foe skeletal malfo	/ occur il weight etal deaths	
Eye contact	: Adverse symp pain watering redness	otoms may include the following:	
Delayed and immediate eff	ects as well as ch	aronic effects from short and long-term expos	<u>sure</u>
Short term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	S: Not available.		
Long term exposure Potential immediate effects	: Not available.		
Potential delayed effects	• Not available		
Potential chronic health ef			
Not available.			
	N N N N N N N N N N		
Conclusion/Summary	: Not available.	we are to every through prolonged or reported	
General	repeated cont	Image to organs through prolonged or repeated or act can defat the skin and lead to irritation, crack ed, a severe allergic reaction may occur when su s.	king and/or dermatitis.
Carcinogenicity	-	nificant effects or critical hazards.	
Mutagenicity	•	nificant effects or critical hazards.	
Reproductive toxicity	: Suspected of	damaging fertility. Suspected of damaging the u	nborn child.
Other information	: Not available.		

Code : 00250027

SIGMACOVER 246/410/430 LT HARDENER

SECTION 11: Toxicological information

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Date of issue/Date of revision

: 16 December 2023

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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
nonylphenol	Acute EC50 0.056 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic EC10 0.003 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 1 µg/l Fresh water	Daphnia - Daphnia magna	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours
3-aminopropyldimethylamine	Acute LC50 122 mg/l	Fish	96 hours
2,2'-iminodiethylamine	Acute LC50 430 mg/l	Fish	96 hours
p-nonylphenol	Acute EC50 134.1 µg/l	Algae -	72 hours
	Marine water	Phaeodactylum tricornutum -	
		Exponential growth	
	Chronic EC10 73.8 µg/l	phase	72 hours
	Marine water	Algae - <i>Phaeodactylum</i>	12 HOUIS
		tricornutum -	
		Exponential growth phase	

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum		
ethylbenzene 3-aminopropyldimethylamine 2,2'-iminodiethylamine	- OECD 301D -	79 % - Readily - 10 days 69 % - Readily - 20 days 87 % - Readily - 21 days	- -	- - -		
Conclusion/Summary : There are no data available on the mixture itself.						

English (GB) **United Arab Emirates**

Code : 00250027 Date of issue/Date of revision : 16 December 2023 SIGMACOVER 246/410/430 LT HARDENER **SECTION 12: Ecological information Product/ingredient name** Aquatic half-life **Biodegradability Photolysis** ethylbenzene Readily xylene Readily Fatty acids, C18-unsatd., dimers, oligomeric Not readily reaction products with tall-oil fatty acids and triethylenetetramine 3-aminopropyldimethylamine Readily

12.3 Bioaccumulative potential

2,2'-iminodiethylamine

Product/ingredient name	LogPow	BCF	Potential
e thylbenzene	3.6	79.43	Low
nonylphenol	3.28	154.88	Low
xylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low
3-aminopropyldimethylamine	-0.352	-	Low
2,2'-iminodiethylamine	-5.58	4.47	Low
Cashew, nutshell liq.	>4.78	-	High
p-nonylphenol	5.76	380.19	Low

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

May cause endocrine disruption.

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 metho	ods
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.
<u>European waste catalogu</u>	ie (EWC)

Readily

- Code : 00250027

Date of issue/Date of revision

: 16 December 2023

SIGMACOVER 246/410/430 LT HARDENER

SECTION 13: Disposal considerations

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	ng European waste catalogue (EWC)	
Container	15 01 06	mixed packaging
Special precautions	 15 01 06 mixed packaging This material and its container must be disposed of in a safe way. Care show 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 or Do not cut, weld or grind used containers unless they have been cleaned tho internally. Avoid dispersal of spilt material and runoff and contact with soil, we drains and sewers. 	

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3470	UN3470	UN3470
14.2 UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
14.3 Transport hazard class(es)	8 (3)	8 (3)	8 (3)
14.4 Packing group	11	11	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(nonylphenol)	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)
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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 user event of an accident or spillage.

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

Code : 00250027

SIGMACOVER 246/410/430 LT HARDENER

Date of issue/Date of revision

: 16 December 2023

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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Substance of equivalent concern 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	4/19/2013
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
	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.

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 that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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
	DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration

Code : 00250027	Date o	f issue/Date of revision	: 16 December 2023
SIGMACOVER 246/410/430 L			
SECTION 16: Other i	nformation		
Full text of abbreviated H statements	H361fd Suspected of damaging	apour. ed and enters airways. skin. rns and eye damage. skin reaction. mage. tation. or dizziness. g fertility or the unborn child. g fertility. Suspected of damagin organs through prolonged or re	
	H410Very toxic to aquatic lifeH411Toxic to aquatic life withH412Harmful to aquatic life with	e with long lasting effects. n long lasting effects. vith long lasting effects.	
Full text of classifications [CLP/GHS]	Acute Tox. 4ACUTAquatic Acute 1SHORAquatic Chronic 1LONOAquatic Chronic 2LONOAquatic Chronic 3LONOAquatic Chronic 3LONOAquatic Chronic 3LONOAsp. Tox. 1ASPIIEye Dam. 1SERIEye Irrit. 2SERIFlam. Liq. 2FLANFlam. Liq. 3FLANRepr. 2REPFSkin Corr. 1BSKINSkin Sens. 1SKINSkin Sens. 1SKINStort RE 2SPECSTOT SE 3SPEC	E TOXICITY - Category 2 E TOXICITY - Category 4 RT-TERM (ACUTE) AQUATIC G-TERM (CHRONIC) AQUATIC G-TERM (CHRONIC) AQUATIC G-TERM (CHRONIC) AQUATIC G-TERM (CHRONIC) AQUATIC RATION HAZARD - Category 7 OUS EYE DAMAGE/EYE IRRI OUS EYE DAMAGE/EYE IRRI IMABLE LIQUIDS - Category 2 IMABLE LIQUIDS - Category 3 RODUCTIVE TOXICITY - Cate CORROSION/IRRITATION - (CORROSION/IRRITATION - (SENSITISATION - Category 1 SENSITISATION - Category 1 SENSITISATION - Category 1 SENSITISATION - Category 1 CIFIC TARGET ORGAN TOXIC DSURE - Category 3	C HAZARD - Category 1 C HAZARD - Category 2 C HAZARD - Category 3 TATION - Category 1 TATION - Category 1 TATION - Category 2 Category 1B Category 1C Category 2 A CITY - REPEATED
<u>History</u> Date of issue/ Date of revision	: 16 December 2023		
Date of previous issue	: 10 February 2022		
Prepared by	: EHS		
Version	: 5		
<u>Disclaimer</u>			

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.