SAFETY DATA SHEET

Date of issue/Date of revision

: 29 June 2021

Version : 2



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

1.1 Product identifier	
Product name	: SIGMACOVER 280 US HARDENER
Product code	: 00333182
Product type	: Liquid.
Other means of identification	ion
Not available.	
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Industrial 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	f 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	d.
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa

1.4 Emergency telephone : 00966 138473100 extn 1001 number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>

Fam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd STOT SE 3, H335 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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SECTION 2: Hazards	identification
	Identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Fammable liquid and vapour. 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. 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. IF INHALED: Immediately call a POISON CENTER or doctor.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Not applicable.
Hazardous ingredients	 * nonylphenol, branched xylene 2-methylpropan-1-ol Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 2,4,6-tris(dimethylaminomethyl)phenol 3,6-diazaoctanethylenediamin
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	
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 vPv
Other hazards which do not result in classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

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SIGMACOVER 280 US HARDENER

SECTION 3: Composition/information on ingredients

: Mixture

2 2	Mixtures	
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Code

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
<mark>#</mark> -nonylphenol, branched	REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 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 (M=10) Aquatic Chronic 1, H410 (M=10)	[1] [5]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥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	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥10 - <20	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	≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	[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	[1] [2]
2,4,6-tris(dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317	[1]
Nonylphenols	EC: 294-048-1 CAS: 91672-41-2	≥1.0 - <3.0	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) EUH071	[1] [5]
3,6-diazaoctanethylenediamin See Section 16 for the full text of	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	[1] [2]

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.

English (GB) United Arab Emirates

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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SECTION 3: Composition/information on ingredients

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid m	easures
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 effectsEye contact: CaInhalation: MaSkin contact: Ca

: 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	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing

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

reduced foetal weight

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SECTION 4: Firs	t aid measures		
Ingestion	: Adverse symptoms may stomach pains reduced foetal weight increase in foetal deaths skeletal malformations	include the following:	
4.3 Indication of any im	mediate medical attention and sp	pecial treatment needed	
Notes to physician		composition products in a fire, symp need to be kept under medical surv	
Specific treatments	: No specific treatment.		

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	from 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
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.
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SECTION 6: Accidental release measures

6.3 Methods and material for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Fut 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	: Do not store above the following temperature: 50°C (122°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.

Recommendations

: Not available.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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SECTION 7: Handling and storage

Industrial sector specific : Not available.

solutions

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/ingredier	nt name	Exposure limit values
₩ylene		EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
2-methylpropan-1-ol		ACGIH TLV (United States, 3/2020). TWA: 152 mg/m ³ 8 hours.
ethylbenzene		TWA: 50 ppm 8 hours. EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
3,6-diazaoctanethylenediamir	1	IPEL (-). Absorbed through skin. TWA: 1 ppm
Recommended monitoring procedures	atmosphere or b the ventilation or protective equipr following: Europ assessment of e values and meas atmospheres - G exposure to cher atmospheres - G measurement of	ntains ingredients with exposure limits, personal, workplace iological monitoring may be required to determine the effectiveness of other control measures and/or the necessity to use respiratory nent. Reference should be made to monitoring standards, such as the ean Standard EN 689 (Workplace atmospheres - Guidance for the xposure by inhalation to chemical agents for comparison with limit surement strategy) European Standard EN 14042 (Workplace buide for the application and use of procedures for the assessment of mical and biological agents) European Standard EN 482 (Workplace beneral requirements for the performance of procedures for the chemical agents) Reference to national guidance documents for determination of hazardous substances will also be required.
3.2 Exposure controls		
Appropriate engineering controls	other engineering recommended o	equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof ment.
Individual protection measur	res	
Hygiene measures	eating, smoking Appropriate tech Contaminated w contaminated clo	earms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. niques should be used to remove potentially contaminated clothing. ork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety
	showers are clos	e to the workstation location.
Eye/face protection Skin protection		se to the workstation location. goggles and face shield.

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SECTION 8: Exposu	re controls/personal 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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Not available.
Odour	: Characteristic.
Odour threshold	: Not available.
рН	: insoluble in water.
Melting point/freezing point	 May start to solidify at the following temperature: <-7°C (<19.4°F) This is based on data for the following ingredient: 4-nonylphenol, branched. Weighted average: -58.52°C (-73.3°F)
Initial boiling point and boiling range	: >37.78°C
Flash point	: Closed cup: 27.22°C
Evaporation rate	: 0.63 (butyl acetate = 1)
Flammability (solid, gas)	: liquid
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)

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SECTION 9: Physical ar	nd chemical	properties	;		
Vapour pressure	: 0.97 kPa (7.3	mm Hg)			
Vapour density	: Highest knowr 5.04 (Air = 1)	n value: 7.59 (A	Air = 1) (4-n	onylphenol, bra	inched). Weighted average
Relative density	: 0.94				
Solubility(ies)	: Insoluble in the	e following mate	erials: cold v	water.	
Water Solubility at room temperature	: 6.2 g/l				
Partition coefficient: n-octanol/ water	: Not applicable				
Auto-ignition temperature	: Ingredient na	ame	°C	°F	Method
	4-nonylphenol, b	ranched	372	701.6	ASTM E 659
Decomposition temperature	: Stable under r	ecommended s	torage and	handling condit	ions (see Section 7).
Viscosity	: Kinematic (40°	°C): >21 mm²/s			
Explosive properties	: Product does	not present an e	explosion ha	azard.	

: Product does not present an oxidizing hazard.

9.2 Other information

Oxidising properties

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 nitrogen oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
-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	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
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SECTION 11: Toxicologica	l information			
2,4,6-tris(dimethylaminomethyl)phenc		Rat Rabbit	3.5 g/kg 1.28 g/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal LD50 Oral LD50 Dermal	Rat Rat Rabbit	1280 mg/kg 1200 mg/kg 1465 mg/kg	
······································	LD50 Oral	Rat	1716 mg/kg	-

Acute toxicity estimates

Route	ATE value		
Øral	4654.42 mg/kg		
Dermal	10926.66 mg/kg		
Inhalation (vapours)	78.66 mg/l		

Irritation/Corrosion

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

Conclusion/Summary

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

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
2,4,6-tris(dimethylaminomethyl)phenol	skin	Guinea pig	Sensitising
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitising

Conclusion/Summary

Product/inc	redient name	Category	Route of
Specific target organ toxic	ity (single exposure)		
Conclusion/Summary	: There are no data available	on the mixtur	e itself.
Teratogenicity			
Conclusion/Summary	: There are no data available	on the mixtur	e itself.
Reproductive toxicity			
Conclusion/Summary	: There are no data available	on the mixtur	e itself.
Carcinogenicity			
Conclusion/Summary	: There are no data available	on the mixtur	e itself.
Mutagenicity			
Respiratory	: There are no data available	on the mixtur	e itself.
Skin	: There are no data available	on the mixtur	e itself.

Product/ingredient name	Category	Route of exposure	Target organs
	Category 3 Category 3 Category 3		Respiratory tract irritation Respiratory tract irritation Narcotic effects

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SECTION 11: Toxicological information					
Specific target organ toxicit	<u>y (repeated exposure)</u>				-
Product/ingredient name Category Route of exposure Target organs					
ethylbenzene		Catego	ory 2	-	hearing organs
Aspiration hazard					
Product/ir	ngredient name			R	esult
xylene ethylbenzene				RATION HAZARD - RATION HAZARD -	
Information on likely routes of exposure	: Not available.				
Potential acute health effect	<u>s</u>				
Inhalation	: May cause respiratory in	ritation.			
Ingestion	: Corrosive to the digestiv	e tract. Ca	uses bi	urns.	
Skin contact	: Causes severe burns.	Defatting to	the ski	n. May cause an a	llergic skin reaction.
Eye contact	: Causes serious eye dan	-			
Symptoms related to the phy	ysical, chemical and toxic	ological ch	aracte	eristics	
Ingestion	 Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations Adverse symptoms may include the following: stomach pains reduced foetal weight 				
Skin contact	 increase in foetal deaths skeletal malformations Adverse symptoms may pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations 	include the	e followi	ing:	
Eye contact	: Adverse symptoms may pain watering redness	include the	followi	ing:	
Delayed and immediate effe	<u>cts as well as chronic effe</u>	cts from sl	hort an	<u>id long-term expo</u>	<u>sure</u>
Short term exposure					
Potential immediate effects					
Potential delayed effects	: Not available.				
Long term exposure Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
Potential chronic health effe					
Not available.					

SECTION 11: Toxicological information

Conclusion/Summary	: Not available.
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility. Suspected of damaging the unborn child.
Other information	: Not available.

Zauses digestive tract burns. 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.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
-nonylphenol, branched	Acute EC50 0.04 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours
Phenol, 2-nonyl-, branched	Acute LC50 0.017 mg/l	Fish - Pleuronectes americanus	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
e thylbenzene	-	79 % - Readily - 10	days -		-
Conclusion/Summary : There are no data available on the mixture itself.					
Product/ingredient name		Aquatic half-life	Photol	ysis	Biodegradability
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine		-	-		Readily Not readily
ethylbenzene		-	-		Readily

12.3 Bioaccumulative potential

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Product/ingredient name	LogPow	BCF	Potential	
-nonylphenol, branched	5.4	251.19	low	
xylene	3.12	7.4 to 18.5	low	
2-methylpropan-1-ol	1	-	low	
ethylbenzene	3.6	79.43	low	
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	low	
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	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 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	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC)

Waste code	Waste designation				
08 01 99	wastes not otherwise specified				
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	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 by create a highly flammable or explosive atmosphere inside the container. weld or grind used containers unless they have been cleaned thoroughly word dispersal of spilt material and runoff and contact with soil, waterways, sewers.		

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SECTION 14: Transport information

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	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN 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.	(4-nonylphenol, branched, Polyamide)	Not applicable.

Additional information

Code

ADR/RID Tunnel code IMDG IATA	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. (D/E) The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. The environmentally hazardous substance mark may appear if required by other transportation regulations. 			
14.6 Special pre user	utions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.			
14.7 Transport in according to IM instruments	ulk : 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
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 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	Candidate Candidate	ED/169/2012 ED/169/2012	12/19/2012
	English (GB)	United Arab En	nirates	14/16

Conforms to Regulation (E	EC) No. 1907/2006 (REACH), A	nnex II						
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SECTION 15: Regulatory information								
	substances which include any individual isomers or a combin							
Annex XVII - Restriction on the manufacture, placing on the market and use of certain dangerous substances mixtures and articles Other national and intern	, <u>national regulations.</u>							
Ozone depleting substa Not listed.	<u>nces (1005/2009/E0)</u>							
15.2 Chemical safety assessment	: No Chemical Safety Asse	essment has been carried out.						
SECTION 16: Othe	r information							
	at has changed from previously							
Abbreviations and acronyms	1272/2008] DNEL = Derived No Effe	belling and Packaging Regulation [Re ect Level pecific Hazard statement ffect Concentration	gulation (EC) No.					
Full text of abbreviated H statements	H226Flammable liqH302Harmful if swaH304May be fatal ifH312Harmful in conH314Causes severeH315Causes severeH317May cause anH318Causes seriouH319Causes seriouH32Harmful if inhaH335May cause resH361Suspected of ofH361fdSuspected of ofH373May cause datH400Very toxic to aH410Very toxic to aH411Toxic to aquat	swallowed and enters airways. ttact with skin. e skin burns and eye damage. ritation. allergic skin reaction. Is eye damage. Is eye damage. Is eye irritation. aled. spiratory irritation. owsiness or dizziness. damaging fertility or the unborn child. damaging fertility. Suspected of damage mage to organs through prolonged or quatic life. quatic life with long lasting effects. ic life with long lasting effects. Juatic life with long lasting effects.						
Full text of classifications [CLP/GHS]		ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATI LONG-TERM (CHRONIC) AQUATI LONG-TERM (CHRONIC) AQUATI LONG-TERM (CHRONIC) AQUATI ASPIRATION HAZARD - Category SERIOUS EYE DAMAGE/EYE IRF SERIOUS EYE DAMAGE/EYE IRF FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category REPRODUCTIVE TOXICITY - Category	TIC HAZARD - Category 1 TIC HAZARD - Category 2 TIC HAZARD - Category 3 (1 RITATION - Category 1 RITATION - Category 2 (2) (3) tegory 2					

English (GB)

United Arab Emirates

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II							
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SECTION 16: Other information							
	Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A Skin Sens. 1B STOT RE 2 STOT SE 3	SKIN CORROSION/IRRITATION - SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SKIN SENSITISATION - Category SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOXI EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXI EXPOSURE - Category 3	Category 2 1 1A 1B CITY - REPEATED				
<u>History</u>							
Date of issue/ Date of revision	: 29 June 2021						
Date of previous issue	: 6 April 2020						
Prepared by	: EHS						
Version	: 2						
Disalaimar							

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