Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

# SAFETY DATA SHEET

Date of issue/Date of revision

: 7 October 2022

Version

: 1



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

: SIGMACOVER 456 HS HARDENER
: 000001011154
: Liquid.
n
f the substance or mixture and uses advised against
: Professional applications, Used by spraying.
: Coating.
: Product is not intended, labelled or packaged for consumer use.
he safety data sheet
: ndpic@sfda.gov.sa
: 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 SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

number

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

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SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapour.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>May cause respiratory irritation.</li> <li>Suspected of damaging fertility. Suspected of damaging the unborn child.</li> <li>Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away fr heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Aver 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.
Hazardous ingredients	<ul> <li>xylene</li> <li>Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine</li> <li>4-nonylphenol, branched</li> <li>2-methylpropan-1-ol</li> <li>3,6-diazaoctanethylenediamin</li> </ul>
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	ents
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 vF
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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# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
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	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[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	≥10 - ≤25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
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]
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	REACH #: 01-2119557899-12 EC: 618-561-0 CAS: 9046-10-0 (n = 2-6)	≥5.0 - ≤10	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	-	[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]
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	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	≥1.0 - ≤4.6	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[1] [2]
<u></u>	<u> </u>	English		nirates	3/16

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# **SECTION 3: Composition/information on ingredients**

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

# 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	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
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 effects	
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 :	Corrosive to the digestive tract. Causes burns.
Over-exposure signs/symptor	<u>ns</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
	English (GB) United Arab Emirates 4/16

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SECTION 4: First aid	l measures			
4.3 Indication of any immedi	ate medical attention a	and special treatment needed		
Notes to physician		n of decomposition products in a fire, symp n may need to be kept under medical surv		
Specific treatments	: No specific treatme	ent.		
<b>SECTION 5: Firefigh</b>	ting measures			
5.1 Extinguishing media				
Suitable extinguishing media	: Use dry chemical, (	CO <sub>2</sub> , water spray (fog) or foam.		
Unsuitable extinguishing media	: Do not use water je	et.		
5.2 Special hazards arising f	rom the substance or	mixture		
Hazards from the substance or mixture	a fire or if heated, a risk of a subsequer lasting effects. Fire	nd vapour. Runoff to sewer may create fire a pressure increase will occur and the conta at explosion. This material is very toxic to a water contaminated with this material mu- ng discharged to any waterway, sewer or d	ainer may burst, with the aquatic life with long st be contained and	
Hazardous combustion products	: Decomposition proc carbon oxides nitrogen oxides	ducts may include the following materials:		
5.3 Advice for firefighters				
Special precautions for fire-fighters	there is a fire. No a training. Move con	e scene by removing all persons from the v action shall be taken involving any persona tainers from fire area if this can be done wi exposed containers cool.	I risk or without suitable	
Special protective equipment for fire-fighters	apparatus (SCBA) for fire-fighters (incl	l wear appropriate protective equipment an with a full face-piece operated in positive p luding helmets, protective boots and gloves ill provide a basic level of protection for che	ressure mode. Clothing s) conforming to European	

# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective 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

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SECTION	6: Accidenta	l release measures		
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 spill product.		
6.4 Reference sections	to other :	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.
<b>7.3 Specific end use(s)</b> See Section 1.2 for Identified u	lses	5.
Recommendations		Not available.
Industrial sector specific		Not available.

Industrial sector specific	:	Not ava
solutions		

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# **SECTION 8: Exposure controls/personal protection**

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

### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name		Exposure limit values		
xylene		EU OEL (Europe, 10/2019). [xylene, mixed isomers] Absorbed through skin. STEL: 442 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.		
2-methylpropan-1-ol		ACGIH TLV (United States, 1/2021). TWA: 152 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.		
ethylbenzene		<b>EU OEL (Europe, 10/2019). Absorbed through skin.</b> STEL: 884 mg/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.		
3,6-diazaoctanethylenediamin		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 ment. 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 suide for the application and use of procedures for the assessment of mical and biological agents) European Standard EN 482 (Workplace ceneral requirements for the performance of procedures for the chemical agents) Reference to national guidance documents for determination of hazardous substances will also be required.		
.2 Exposure controls				
Appropriate engineering controls	other engineering recommended of	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.		
ndividual protection measure	<u>es</u>			
Hygiene measures	eating, smoking Appropriate tech Contaminated we 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 se to the workstation location.		
Eye/face protection Skin protection		goggles and face shield.		
Hand protection	:			

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### **SECTION 8: Exposure 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

<ul> <li>Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)</li> <li>335°C (635°F)</li> <li>Stable under recommended storage and handling conditions (see Section 7).</li> <li>Not applicable.</li> <li>Kinematic (40°C): &gt;21 mm<sup>2</sup>/s</li> </ul>
<ul> <li>: 335°C (635°F)</li> <li>: Stable under recommended storage and handling conditions (see Section 7).</li> </ul>
: 335°C (635°F)
: Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)
: liquid
: >37.78°C
: May start to solidify at the following temperature: 12°C (53.6°F) This is based on data for the following ingredient: 3,6-diazaoctanethylenediamin. Weighted average: -66.29°C (-87.3°F)
: Not available.
: Amine-like.
: Not available.
: Liquid.

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SECTION 9: Physica	al and	cbemical pro	perties					
Viscosity	:	60 - 100 s (ISO 6mn	n)					
Solubility(ies)	:							
Media		Result						
cold water		Not soluble						
Partition coefficient: n-oct water	anol/ :	Not applicable.						
Vapour pressure	:		Vapou	ur Press	sure at 20°C	Vapo	our press	sure at 50°
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2			
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (et	hylbenze	ene) Weighted	d average	e: 0.74co	mpared with
Relative density	:	0.95						
Vapour density	:	Highest known value 4.41 (Air = 1)	e: 7.59 (A	ir = 1)(	4-nonylphenol	, branche	ed). Weię	ghted avera
		: Product does not present an explosion hazard.						
Explosive properties		Product does not pre						
Explosive properties Oxidising properties		Product does not pre		•				
		•		•				

9.2 Other information

No additional information.

<b>SECTION 10: Stabilit</b>	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 Date of issue/Date of revision

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# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Fatty acids, C18-unsatd., dimers,	LD50 Dermal	Rat	>2000 mg/kg	-
oligomeric reaction products with tall-oil				
fatty acids and triethylenetetramine				
	LD50 Oral	Rat	>2000 mg/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
Poly[oxy(methyl-1,2-ethanediyl)], α-	LD50 Dermal	Rat	2980 mg/kg	-
(2-aminomethylethyl)-ω-				
(2-aminomethylethoxy)-				
	LD50 Oral	Rat	2885 mg/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	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
-	LD50 Oral	Rat	1716 mg/kg	-

# **Conclusion/Summary**

: There are no data available on the mixture itself.

Irritation/Corrosion

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

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	

### <u>Sensitisation</u>

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/Summary		•				
Skin	: There are no data available on the mixture itself.					
Respiratory	: There are no data available on the mixture itself.					
Mutagenicity						
<b>Conclusion/Summary</b>	nary : There are no data available on the mixture itself.					
<b>Carcinogenicity</b>						
Conclusion/Summary <u>Reproductive toxicity</u>	: There are no data available on the mixture itself.					

Code : 000001011154 SIGMACOVER 456 HS HARDENER SECTION 11: Toxicological information Conclusion/Summary : There are no data availa Teratogenicity Conclusion/Summary : There are no data availa Specific target organ toxicity (single exposure) Product/ingredient name xylene 2-methylpropan-1-ol Specific target organ toxicity (repeated exposure) Product/ingredient name ethylbenzene Aspiration hazard	able on the	mixture mixture gory ory 3 - ory 3 - ory 3 - ory 2 - ory 2 -	itself. Route of exposure Route of exposure	: 7 October 2022 Target organs Respiratory tract irritation Respiratory tract irritation Narcotic effects Target organs hearing organs Result
SECTION 11: Toxicological information         Conclusion/Summary       : There are no data availa         Teratogenicity         Conclusion/Summary       : There are no data availa         Specific target organ toxicity (single exposure)         Product/ingredient name         xylene         2-methylpropan-1-ol         Specific target organ toxicity (repeated exposure)         Product/ingredient name         ethylbenzene	able on the able on the Catego Catego Catego Catego	mixture gory ory 3 - ory 3 - ory 3 ory 3 ory 2 ory 2 - ASPIR	itself. Route of exposure Route of exposure	Respiratory tract irritation Respiratory tract irritation Narcotic effects Target organs hearing organs Result
Conclusion/Summary       : There are no data availation         Teratogenicity       Conclusion/Summary       : There are no data availation         Specific target organ toxicity (single exposure)       Product/ingredient name         xylene       2-methylpropan-1-ol         Specific target organ toxicity (repeated exposure)         Product/ingredient name         ethylbenzene	able on the able on the Catego Catego Catego Catego	mixture gory ory 3 - ory 3 - ory 3 ory 3 ory 2 ory 2 - ASPIR	itself. Route of exposure Route of exposure	Respiratory tract irritation Respiratory tract irritation Narcotic effects Target organs hearing organs Result
Teratogenicity         Conclusion/Summary       : There are no data availa         Specific target organ toxicity (single exposure)         Product/ingredient name         xylene         2-methylpropan-1-ol         Specific target organ toxicity (repeated exposure)         Product/ingredient name         ethylbenzene	able on the Catego Catego Catego Catego	mixture gory ory 3 - ory 3 - ory 3 ory 3 ory 2 ory 2 - ASPIR	itself. Route of exposure Route of exposure	Respiratory tract irritation Respiratory tract irritation Narcotic effects Target organs hearing organs Result
Conclusion/Summary       : There are no data availa         Specific target organ toxicity (single exposure)         Product/ingredient name         xylene         2-methylpropan-1-ol         Specific target organ toxicity (repeated exposure)         Product/ingredient name         ethylbenzene	Catego Catego Catego Catego Catego	gory 3 - ory 3 - ory 3 - ory 3 - ory 2 -	Route of exposure Route of exposure	Respiratory tract irritation Respiratory tract irritation Narcotic effects Target organs hearing organs Result
Specific target organ toxicity (single exposure)         Product/ingredient name         xylene         2-methylpropan-1-ol         Specific target organ toxicity (repeated exposure)         Product/ingredient name         ethylbenzene	Catego Catego Catego Catego Catego	gory 3 - ory 3 - ory 3 - ory 3 - ory 2 -	Route of exposure Route of exposure	Respiratory tract irritation Respiratory tract irritation Narcotic effects Target organs hearing organs Result
Product/ingredient name         xylene         2-methylpropan-1-ol         Specific target organ toxicity (repeated exposure)         Product/ingredient name         ethylbenzene	Catego Catego Catego Catego	ory 3 - ory 3 - ory 3 - ory 2 - ory 2 -	exposure Route of exposure	Respiratory tract irritation Respiratory tract irritation Narcotic effects Target organs hearing organs Result
xylene 2-methylpropan-1-ol Specific target organ toxicity (repeated exposure) Product/ingredient name ethylbenzene	Catego Catego Catego Catego	ory 3 - ory 3 - ory 3 - ory 2 - ory 2 -	exposure Route of exposure	Respiratory tract irritation Respiratory tract irritation Narcotic effects Target organs hearing organs Result
2-methylpropan-1-ol  Specific target organ toxicity (repeated exposure)  Product/ingredient name ethylbenzene	Catego Catego Catego	ory 3 - ory 3 - gory ory 2 - ASPIR	exposure	Respiratory tract irritation Narcotic effects Target organs hearing organs Result
Product/ingredient name ethylbenzene		ory 2 -	exposure	hearing organs Result
ethylbenzene		ory 2 -	exposure	hearing organs Result
	Categ	ASPIR		Result
Aspiration hazard	I			
Product/ingredient name				
xylene				) - Catedory 1
ethylbenzene			ATION HAZARD	
Information on likely : Not available. routes of exposure				
Potential acute health effects				
Inhalation : May cause respiratory in	rritation			
Ingestion : Corrosive to the digestiv		uses bu	rns.	
Skin contact : Causes severe burns. I				allergic skin reaction.
Eye contact : Causes serious eye dar	-		,	U U
Symptoms related to the physical, chemical and toxic	cological ch	naracter	<u>ristics</u>	
Inhalation : Adverse symptoms may respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations	n	e followir	ng:	
Ingestion : Adverse symptoms may stomach pains reduced foetal weight increase in foetal deaths skeletal malformations		e followir	ng:	
Skin contact : Adverse symptoms may pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations		e followir	ng:	
Eye contact : Adverse symptoms may pain watering redness	y include the	e followir	ng:	
Delayed and immediate effects as well as chronic effe	ects from s	hort and	<u>d long-term exp</u>	<u>oosure</u>
<u>Short term exposure</u>				
Eng	glish (GB)	Un	ited Arab Emira	ites 11/16

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# **SECTION 11: Toxicological information**

		-
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ct	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
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	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	1	Suspected of damaging fertility. Suspected of damaging the unborn child.
Other information	:	Not available.

Causes 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.

#### 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
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
Poly[oxy(methyl-1,2-ethanediyl)], α-	EC50 15 mg/l	Algae	72 hours
(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	-	_	
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum			
ethylbenzene	-	79 % - Readily - 10 days	s -	-			
Conclusion/Summary : There are no data available on the mixture itself.							
		English (GB) U	nited Arab Emirates	12/16			

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

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# **SECTION 12: Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	-	Not readily
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	-	-	Not readily
ethylbenzene	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	low
4-nonylphenol, branched	5.4	251.19	low
2-methylpropan-1-ol	1	-	low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	low
ethylbenzene	3.6	79.43	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 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 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	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalog	ue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

#### Packaging

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SECTION 13: Dispo	osal considera	ations	
Methods of disposal		on of waste should be avoided or minimised when ould be recycled. Incineration or landfill should o ot feasible.	
Type of packaging		European waste catalogue (EWC)	
Container	15 01 06	mixed packaging	
Special precautions	taken when h Empty contai residues may Do not cut, we	and its container must be disposed of in a safe w handling emptied containers that have not been cl ners or liners may retain some product residues. If create a highly flammable or explosive atmosph reld or grind used containers unless they have be void dispersal of spilt material and runoff and cont ewers.	eaned or rinsed out. Vapour from product ere inside the container. en cleaned thoroughly

### **SECTION 14: Transport information**

instruments

	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.	(Polyamide, 4-nonylphenol, branched)	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 $\leq 5$ L or $\leq 5$ 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 user upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. 14.7 Transport in bulk : Not applicable. according to IMO

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# **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.

Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

		English (GB) United Arab Emirates 15/16
	H410	Very toxic to aquatic life with long lasting effects.
	H400	Very toxic to aquatic life.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
	H336	May cause drowsiness or dizziness.
	H335	May cause respiratory irritation.
	H332	Harmful if inhaled.
	H319	Causes serious eye irritation.
	H318	Causes serious eye damage.
	H317	May cause an allergic skin reaction.
	H315	Causes skin irritation.
	H314	Causes severe skin burns and eye damage.
	H312	Harmful in contact with skin.
	H304	May be fatal if swallowed and enters airways.
otatomonto	H302	Harmful if swallowed.
statements	H226	Flammable liquid and vapour.
Full text of abbreviated H	: H225	Highly flammable liquid and vapour.
		Predicted No Effect Concentration REACH Registration Number
		tement = CLP-specific Hazard statement
		Derived No Effect Level
-	1272/200	
acronyms		lassification, Labelling and Packaging Regulation [Regulation (EC) No.
Abbreviations and	: ATE = A	cute Toxicity Estimate

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SECTION 16: Other	information		
		itic life with long lasting effects. Juatic life with long lasting effects.	
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1 Skin Sens. 1A STOT RE 2	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATI LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT ASPIRATION HAZARD - Category SERIOUS EYE DAMAGE/EYE IRI SERIOUS EYE DAMAGE/EYE IRI FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category REPRODUCTIVE TOXICITY - Ca SKIN CORROSION/IRRITATION SKIN CORROSION/IRRITATION SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOX	FIC HAZARD - Category 1 FIC HAZARD - Category 2 FIC HAZARD - Category 3 y 1 RITATION - Category 1 RITATION - Category 2 / 2 / 3 tegory 2 - Category 1B - Category 1B - Category 1C - Category 2 / 1 / 1A KICITY - REPEATED
<u>History</u>			
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