# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 5 October 2021

Version : 2.02



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

1.1 Product identifier	
Product name	: SIGMALINE 391PC HARDENER YELLOW
Product code	: 00343824
Product type	: Liquid.
Other means of identificat	ion
Not available.	
1.2 Relevant identified uses	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier o	of the safety data sheet
Sigma Paint Saudi Arabia Lt	d.
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	

# 1.4 Emergency telephone : 00966 138473100 extn 1001 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]

Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd 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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SIGMALINE 391PC HARDEN	R YELLOW
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</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. Avoid release t the environment.
Response	: Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: 4-tert-butylphenol m-phenylenebis(methylamine) Phenol, methylstyrenated trimethylhexane-1,6-diamine N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)
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 vPv
Other hazards which do not result in classification	: None known.
<b>SECTION 3: Compos</b>	ition/information on ingredients

3.2 Mixtures

: Mixture

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

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
4-tert-butylphenol	REACH #: 01-2119489419-21 EC: 202-679-0 CAS: 98-54-4 Index: 604-090-00-8	≥10 - ≤25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361f Aquatic Chronic 1, H410 (M=1)	[1] [5]
m-phenylenebis(methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥10 - ≤18	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 EUH071	[1] [2]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥5.0 - ≤10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
trimethylhexane-1,6-diamine	EC: 247-134-8 CAS: 25620-58-0	≥5.0 - ≤9.9	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
nonylphenol	EC: 246-672-0 CAS: 25154-52-3 Index: 601-053-00-8	≥1.0 - ≤5.0	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]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	≤0.30	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1] [2]

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

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[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 measures Eye contact Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention. Inhalation Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

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SECTION 4: First aid	d measures		
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	<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 symptor	ns and effects, both acute and delayed		
Potential acute health effe	<u>cts</u>		
Eye contact	: Causes serious eye damage.		
Inhalation	: No known significant effects or critical hazards.		
Skin contact	: Causes severe burns. May cause an allergic skin reaction.		
Ingestion	: No known significant effects or critical hazards.		
Over-exposure signs/symp	<u>otoms</u>		
Eye contact	: Adverse symptoms may include the following: pain watering redness		

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

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	<ul> <li>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.</li> </ul>
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

#### 5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefight	ting measures
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. 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 sulfur oxides metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	<ul> <li>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.</li> </ul>
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.
<b>SECTION 6: Acciden</b>	tal 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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### 6.3 Methods and material for containment and cleaning up

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

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

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# 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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. 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.
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/ingredient name	Exposure limit values		
m-phenylenebis(methylamine) N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	ACGIH TLV (United States, 3/2020). Absorbed through skin. C: 0.018 ppm ACGIH TLV (United States). TWA: 3 mg/m <sup>3</sup> Form: Respirable TWA: 10 mg/m <sup>3</sup> Form: Total dust		
procedures atmosphere or b the ventilation or protective equipu following: Europ assessment of e values and measured	ontains 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 bean Standard EN 689 (Workplace atmospheres - Guidance for the exposure 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		

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SECTION 8: Exposu	re controls/personal protection
	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	: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures,
controls	local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection measured	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection Skin protection	: Chemical splash goggles and face shield.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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.

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# **SECTION 9: Physical and chemical properties**

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

Appearance									
Physical state	1	Liquid.							
Colour	1	Yellow.							
Odour	1	Amine-like.							
Odour threshold	1	Not available.							
рН	:	insoluble in water.							
Melting point/freezing point	:	May start to solidify a data for the following 1°C (33.8°F)							
Initial boiling point and boiling range	:	>37.78°C							
Flash point	÷	Closed cup: 115°C							
Evaporation rate	:	<0.005 (nonylphenol)	compare	d with bu	utyl ace	tate			
Flammability (solid, gas)	:	liquid	-						
Upper/lower flammability or explosive limits	:	Not available.							
Vapour pressure	:		Vapoι	r Pressure at 20°C		Vapour pressure at 50°C			
		Ingredient name	mm Hg	kPa	Meth	bd	mm Hg	kPa	Method
		trimethylhexane- 1,6-diamine	0.01500123	0.002					
Vapour density	1	Highest known value	:7.59 (A	ir = 1) (n	nonylphe	enol).			
Relative density	1	1.39							
Solubility(ies)	:	Insoluble in the follow	/ing mate	rials: colo	d water.				
Partition coefficient: n-octanol/ water	:	Not applicable.							
Auto-ignition temperature	:	Ingredient name		°C		°F		Method	
		nonylphenol		370	(	698			
Decomposition temperature	÷	Stable under recomm	nended st	orage ar	nd hand	ling co	nditions	s (see Sec	tion 7).
Viscosity	÷	Kinematic (40°C): >2		-		-			,
Explosive properties	÷	Product does not pre	sent an e	xplosion	hazard				
Oxidising properties	:	Product does not pre	sent an o	xidizing ł	hazard.				
.2 Other information									
No additional information.									

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.

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SECTION 10: Stabilit	y and reactivity
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 sulfur oxides metal oxide/oxides

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4-tert-butylphenol	LD50 Dermal	Rabbit	2.29 g/kg	-
	LD50 Oral	Rat	2.95 g/kg	-
m-phenylenebis(methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male, Female	>3100 mg/kg	-
	LD50 Oral	Rat	930 mg/kg	_
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 mg/kg	-
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
(12-hydroxyoctadecan-1-amide)	mists		J J	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

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

#### Acute toxicity estimates

Route	ATE value
	2979.09 mg/kg 36642.56 ppm

#### Irritation/Corrosion

			-	
m-phenylenebis(methylamine) Skin - Seve	ere irritant Rat	-	4 hours	4 hours

#### Conclusion/Summary

Skin : There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Respiratory

Eyes

: There are no data available on the mixture itself.

#### **Sensitisation**

Product/ingr	edient name	Route of exposure	Species	Result
m-phenylenebis(methylam	ine)	skin	Mouse	Sensitising
Conclusion/Summary				
Skin	: There are no data avai	lable on the mixtu	re itself.	
Respiratory	: There are no data avai	lable on the mixtu	re itself.	
Mutagenicity				
Conclusion/Summary	: There are no data avai	lable on the mixtu	re itself.	
<b>Carcinogenicity</b>				
	En	ıglish (GB) l	Inited Arab Emirates	9/14

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SECTION 11: Toxico	ological information
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
<u>Teratogenicity</u>	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	<u>ity (single exposure)</u>
Not available.	
Specific target organ toxic	<u>ity (repeated exposure)</u>
Not available.	
Aspiration hazard	
Not available.	
Information on likely	: Not available.
routes of exposure	
Potential acute health effe	<u>cts</u>
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to the p	hysical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following:
	reduced foetal weight increase in foetal deaths
	skeletal malformations
Ingestion	: Adverse symptoms may include the following:
U U	stomach pains
	reduced foetal weight increase in foetal deaths
	skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	pain or irritation
	redness
	blistering may occur reduced foetal weight
	increase in foetal deaths
	skeletal malformations
Eye contact	: Adverse symptoms may include the following:
	pain watering
	redness
Delayed and immediate eff	fects as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	s : Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	s : Not available.
Potential chronic health ef	<u>fects</u>

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Not available.	
<b>Conclusion/Summary</b>	: Not available.
General	: 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.
Sanding and grinding dusts	may be harmful if inhaled. Exposure to amine vapor has been reported to cause transient

Sanding and grinding dusts may be harmful if inhaled. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
nonylphenol	Acute EC50 0.056 mg/l	Algae -	72 hours
	Fresh water	Desmodesmus subspicatus	
	Chronic EC10 0.003 mg/l	Algae -	72 hours
	Fresh water	Desmodesmus subspicatus	
	Chronic NOEC 1 µg/l Fresh water	Daphnia - Daphnia magna	21 days
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 94 mg/l	Daphnia - Daphnia magna	48 hours

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### **12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum	
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	63 % - 28 days	-	-	
Conclusion/Summary : There are no data available on the mixture itself.					
Product/ingredient name		Aquatic half-life	Photolysis	Biodegradability	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4-tert-butylphenol m-phenylenebis(methylamine) Phenol, methylstyrenated nonylphenol N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan- 1-amide)	3 0.18 3.627 3.28 >6	67.61 2.69 - 154.88 -	low low low low high

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<b>SECTION 12: Ecological information</b>					

# 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	: Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Type of packaging	European waste catalogue (EWC)

Container 1		mixed packaging
Special precautions	taken when handling er Empty containers or line	ntainer must be disposed of in a safe way. Care should be nptied containers that have not been cleaned or rinsed out. ers may retain some product residues. Avoid dispersal of spilt contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN3066	UN3066	UN3066
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	II	П	П
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
		English (GB) Unite	ed Arab Emirates 12/14

Conforms to Reg	Julation (EC) No. 19	07/2006 (REACH)	, Annex II		
Code : 0	0343824		Date of issue/Date	of revision	: 5 October 2021
SIGMALINE 391	PC HARDENER YEL	LOW			
SECTION 1	4: Transport ir	nformation			
Marine pollutan substances	t Not applicat	le.	(4-tert-butylphenol, nonylphenol)	Not a	oplicable.
Additional inform	nation				
ADR/RID	: The environmen <sup>•</sup> ≤5 kg.	tally hazardous sul	bstance mark is not requir	ed when transp	orted in sizes of ≤5 L or
Tunnel code	: (E)				
IMDG	: The marine pollu	tant mark is not re	equired when transported i	n sizes of ≤5 L	or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.			ther transportation	
14.6 Special pre user	upr		er's premises: always tra insure that persons transp or spillage.		
14.7 Transport in according to IM instruments		t 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-tert-butylphenol	Candidate	ED/71/2019, EU/2019/1194	7/16/2019
	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

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

Conforms to Regulation (EC	) No. 1907/2006 (REACH),	Annex II	
Code : 00343824		Date of issue/Date of revision : 5 O	ctober 2021
SIGMALINE 391PC HARDEN	IER YELLOW		
SECTION 16: Other	information		
Indicates information that	has changed from previous	ly issued version.	
Abbreviations and acronyms	1272/2008] DNEL = Derived No E	Labelling and Packaging Regulation [Regulation (E ffect Level P-specific Hazard statement Effect Concentration	C) No.
Full text of abbreviated H statements	H315 Causes skin H317 May cause a H318 Causes serie H332 Harmful if in H361f Suspected o H361fd Suspected o H400 Very toxic to H410 Very toxic to	ere skin burns and eye damage. i irritation. an allergic skin reaction. ous eye damage. haled. of damaging fertility. of damaging fertility. Suspected of damaging the un o aquatic life. o aquatic life with long lasting effects. iquatic life with long lasting effects.	born child.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Eye Dam. 1 Repr. 2 Skin Corr. 1B Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD LONG-TERM (CHRONIC) AQUATIC HAZAR SERIOUS EYE DAMAGE/EYE IRRITATION - REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1	D - Category 1 D - Category 3 - Category 1 1B
<u>History</u> Date of issue/ Date of	: 5 October 2021		
revision			
Date of previous issue	: 5 October 2021		
Prepared by	: EHS		
Version Disclaimer	: 2.02		

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