# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 15 November 2022 Version : 4



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

1.1 Product identifier	
Product name	: SIGMASHIELD 460 BASE GREEN 4199
Product code	: 00254421
Product type	: Liquid.
Other means of identification	ition
Not available.	
1.2 Relevant identified use	es of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/	: Coating.

mixture	
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

### 1.3 Details of the supplier of the safety data sheet

Sigma Paints Egypt Villa#8, street 279 New Maadi, Cairo Egypt Tel: 00202 516 223 797 Fax: 00202 516 38 04	
e-mail address of person	: PS.ACEMEA@ppg.com
responsible for this SDS	

1.4 Emergency telephone : +20 2 6840902 number

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Code : 00254421	Date of issue/Date of revision : 15 November 202
SIGMASHIELD 460 BASE GRE	EN 4199
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release t the environment. Do not breathe vapour.
Response	: 🖉ollect spillage.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	<ul> <li>poxy resin (MW ≤ 700)</li> <li>crystalline silica, respirable powder (&lt;10 microns)</li> <li>4-nonylphenol, branched</li> <li>2-methylpropan-1-ol</li> </ul>
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	<u>ents</u>
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 vPvE
Other hazards which do not result in classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

3.2 Mixtures

: Mixture

Code : 00254421		Da	ate of issue/Date of revisi	on : 15 Novemb	per 2022
SIGMASHIELD 460 BASE GREEN 4199 SECTION 3: Composition/information on ingredients					
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
epoxy resin (MW  ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
crystalline silica, respirable powder (<10 microns)	EC: 238-878-4 CAS: 14808-60-7	≥1.0 - ≤5.0	STOT RE 1, H372 (inhalation)	-	[1] [2]
4-nonylphenol, branched	REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	≥1.0 - <3.0	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]
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]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥0.30 - ≤2.9	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
Nonylphenols	EC: 294-048-1 CAS: 91672-41-2	≤0.10	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 mg/ kg M [Acute] = 10 M [Chronic] = 10	[1] [3]

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

Type

🕅 Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

English (GB)

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

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	<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 : No known significant effects or critical hazards. **Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. : Corrosive to the digestive tract. Causes burns. Ingestion **Over-exposure signs/symptoms** Eye contact : Adverse symptoms may include the following: pain watering redness Inhalation : No specific data. Skin contact : Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur Ingestion Adverse symptoms may include the following: ŝ, stomach pains 4.3 Indication of any immediate medical attention and special treatment needed : Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician quantities have been ingested or inhaled. **Specific treatments** : No specific treatment. SECTION 5: Firefighting measures 5.1 Extinguishing media

Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II
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SECTION 5: Firefight	ing measures
5.2 Special hazards arising f	om the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective 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 Europea standard EN 469 will provide a basic level of protection for chemical incidents.
<b>SECTION 6: Acciden</b>	al release measures

## SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ptective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into 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.

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

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

## **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			
<b>x</b> ylene	EU OEL (Europe, 10/2019). [x through skin.	ylene, mixed isomers] Absc	orbed	
	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.			
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/	2021). [Silica, crystalline]		
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. F	orm: Respirable		
ethylbenzene	EU OEL (Europe, 10/2019). At			
	STEL: 884 mg/m <sup>3</sup> 15 minutes.	-		
	STEL: 200 ppm 15 minutes.			
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2-methylpropan-1-ol		TWA: 442 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. <b>ACGIH TLV (United States</b> ) TWA: 152 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.	, 1/2021).	
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 exposu- iological monitoring may be re- other control measures and/c ment. Reference should be m ean Standard EN 689 (Workp xposure by inhalation to chem surement strategy) European Guide for the application and us mical and biological agents) E General requirements for the per- chemical agents) Reference determination of hazardous su	equired to determine the e or the necessity to use res ade to monitoring standar place atmospheres - Guida nical agents for compariso Standard EN 14042 (Wo se of procedures for the a European Standard EN 48 erformance of procedures to national guidance doc	ffectiveness of piratory rds, such as the ance for the on with limit rkplace sessment of 2 (Workplace s for the uments for
8.2 Exposure controls				
	other engineerin recommended o	equate ventilation. Use proce g controls to keep worker expo r statutory limits. The enginee oncentrations below any lower ment.	osure to airborne contami ering controls also need to	nants below any keep gas,
Individual protection measure				
Hygiene measures	eating, smoking Appropriate tech Contaminated w contaminated clo	earms and face thoroughly aft and using the lavatory and at niques should be used to rem ork clothing should not be allo othing before reusing. Ensure se to the workstation location.	the end of the working pe ove potentially contamina wed out of the workplace	riod. ted clothing. . Wash
Eye/face protection Skin protection	: Chemical splash	goggles and face shield.		
Hand protection	worn at all times necessary. Con during use that the noted that the tim glove manufactur protection time of frequently repear (breakthrough tim When only brief (breakthrough tim The user must of product is the more	ant, impervious gloves complying when handling chemical prodisidering the parameters specific he gloves are still retaining the ne to breakthrough for any glow rers. In the case of mixtures, of the gloves cannot be accura ted contact may occur, a glove me greater than 480 minutes a contact is expected, a glove w me greater than 30 minutes accurate heck that the final choice of ty post appropriate and takes into e user's risk assessment.	ucts if a risk assessment fied by the glove manufact eir protective properties. I we material may be different consisting of several sub- tely estimated. When pro- e with a protection class of according to EN 374) is re- vith a protection class of 2 ccording to EN 374) is rec- pe of glove selected for h	indicates this is sturer, check t should be ent for different stances, the blonged or f 6 commended. or higher ommended. andling this
Gloves	: butyl rubber			
Body protection	performed and the handling this prospective should include a	ive equipment for the body sho ne risks involved and should b duct. When there is a risk of clothing. For the greatest prot nti-static overalls, boots and g information on material and de	e approved by a specialis ignition from static electric tection from static dischar loves. Refer to European	t before city, wear anti- ges, clothing Standard EN
Other skin protection	based on the tas	wear and any additional skin p k being performed and the ris handling this product.		
		English (GB)	Egypt	7/15

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<b>SECTION 8: Exposu</b>	re controls/personal protection						
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 physic	al and	d chemical properties			
<u>Appearance</u>					
Physical state	: L	iquid.			
Colour	: \	/arious			
Odour	: A	Aromatic.			
Odour threshold	: N	lot available.			
Melting point/freezing point	d	<i>I</i> ay start to solidify at the following temperature: <-7°C (<19.4°F) This is based on lata for the following ingredient: 4-nonylphenol, branched. Weighted average: 78.07°C (-108.5°F)			
Initial boiling point and boiling range	: >	•37.78°C			
Flammability	: N	lot available.			
Upper/lower flammability or explosive limits	: (	Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)			
Flash point	: 0	Closed cup: 31.9°C			
Auto-ignition temperature	: 4	415°C (779°F)			
Decomposition temperature	: 5	Stable under recommended storage and handling conditions (see Section 7).			
рН	: N	lot applicable. insoluble in water.			
Viscosity	: ł	inematic (40°C): >21 mm²/s			
Viscosity	: 6	0 - 100 s (ISO 6mm)			
Solubility(ies)	:				
Media		Result			
cold water		Not soluble			

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure	:	In smaller to smaller	Vapour Pressure at 20°C			Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		₽ methylpropan-1-ol	<12	<1.6	DIN EN 13016-2			
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (etl	nylbenze	ene) Weighted	l average	e: 0.76co	mpared with
Relative density	:	1.66						
Vapour density	:	Highest known value 4.35 (Air = 1)	: 7.59 (A	ir = 1)(	4-nonylphenol,	branche	ed). Weię	ghted average:
Explosive properties	:	The product itself is a vapour or dust with a			the formation	of an exp	olosible n	nixture of
Oxidising properties	:	Product does not pre	esent an o	xidizing	hazard.			
		Eng	lish (GB)			Egypt		8/15

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<b>SECTION 9: Physica</b>	I and chemical properties
Particle characteristics	
Median particle size	: Not applicable.
9.2 Other information	
No additional information.	
<b>SECTION 10: Stabilit</b>	y and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 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	-
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	-

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

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
poxy resin (MW ≤ 700)	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	-	-

<b>Conclusion/Summary</b>	
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.

English (GB)

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Egypt

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**SECTION 11: Toxicological information** 

## **Sensitisation**

Code

Product/ingredient name		Route of exposure	Species	Result
epoxy resin (MW $\leq$ 700)		skin	Mouse	Sensitising
Conclusion/Summary			-	
Skin	: There are no data av	ailable on the mixtur	re itself.	
Respiratory	: There are no data av	ailable on the mixtur	re itself.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data av	ailable on the mixtu	re itself.	
Carcinogenicity				
Conclusion/Summary	: There are no data av	ailable on the mixtu	re itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data av	ailable on the mixtu	re itself.	
Teratogenicity				
Conclusion/Summary	: There are no data available on the mixture itself.			
Specific target organ toxi	<u>city (single exposure)</u>			

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

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Quartz (SiO2)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs

### **Aspiration hazard**

Produ	act/ingredient name Result
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.
Potential acute health ef	f <u>fects</u>
Inhalation	: No known significant effects or critical hazards.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to the	e physical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur

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<b>SECTION 11: Toxicol</b>	ogical information		
Eye contact	: Adverse symptoms may pain watering redness	<i>include the following:</i>	
Delayed and immediate effe	<u>cts as well as chronic effe</u>	ects from short and long-term expos	<u>ure</u>
<u>Short term exposure</u>			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Long term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health effe	ects		
Not available.			
Conclusion/Summary	: Not available.		
General	repeated contact can de	organs through prolonged or repeated e afat the skin and lead to irritation, crack are allergic reaction may occur when su	ing and/or dermatitis.
Carcinogenicity	: No known significant eff	ects or critical hazards.	
Mutagenicity	: No known significant eff	ects or critical hazards.	
Reproductive toxicity	: No known significant eff	ects or critical hazards.	
Other information	: Not available.		

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. 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
epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina	48 hours
		macrocopa	
	Acute LC50 0.221 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
	water		
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
Phenol, 2-nonyl-, branched	Acute LC50 0.017 mg/l	Fish - Pleuronectes	96 hours
		americanus	

**Conclusion/Summary** 

: There are no data available on the mixture itself.

English	(GB)
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## **SECTION 12: Ecological information**

## 12.2 Persistence and degradability

Code

Product/ingredient name	Test	Result		Dose		Inoculum
epoxy resin (MW  ≤ 700) ethylbenzene	OECD 301F -	5 % - 28 days 79 % - Readily - 10 day	ys	-		-
Conclusion/Summary	: There are no o	data available on the mixtu	re itself.			
Product/ingredient name		Aquatic half-life	Photo	lysis	В	iodegradability
poxy resin (MW ≤ 700) xylene ethylbenzene					Re	ot readily eadily eadily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
epoxy resin (MW ≤ 700)	3	31	low
xylene	3.12	7.4 to 18.5	low
4-nonylphenol, branched	5.4	251.19	low
ethylbenzene	3.6	79.43	low
2-methylpropan-1-ol	1	-	low

12.4	Mobility	in soil	
Sai	l/watar n	ortition	

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

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

May cause endocrine disruption.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

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

### 13.1 Waste treatment 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 catalogi	10 (F	EWG)

European waste catalogue (EWC)

English (GB)

## **SECTION 13: Disposal considerations**

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

## Packaging

Code

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 h Empty contai residues may Do not cut, w	and its container must be disposed of in a safe way. Care should be nandling emptied containers that have not been cleaned or rinsed out. Iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. yeld or grind used containers unless they have been cleaned thoroughly yoid dispersal of spilt material and runoff and contact with soil, waterways, ewers.		

## **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III		Ш
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Epoxy resin (MW ≤ 700), 4-nonylphenol, branched)	Not applicable.

### **Additional information**

ADR/RID	<ul> <li>The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.</li> </ul>			
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 pre- user	cautions 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 IM0 instruments				

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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

Code

None of the components are listed.

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#### 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 substances which include any of the individual isomers or a combination thereof	Candidate	ED/169/2012	10/29/2013
Endocrine disrupting properties for environment		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. Abbreviations and : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. acronyms 1272/20081 DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number Full text of abbreviated H : H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. statements Harmful if swallowed. H302 May be fatal if swallowed and enters airways. H304 H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eve damage. H319 Causes serious eye irritation. English (GB) 14/15 Egypt

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SECTION 16: Other	information	
Full text of classifications [CLP/GHS]	H336May cause ofH361Suspected ofH361fdSuspected ofH372Causes danH373May cause ofH400Very toxic toH410Very toxic toH411Toxic to aqu	respiratory irritation. drowsiness or dizziness. of damaging fertility or the unborn child. of damaging fertility. Suspected of damaging the unborn child. nage to organs through prolonged or repeated exposure. damage to organs through prolonged or repeated exposure. o aquatic life. o aquatic life with long lasting effects. uatic life with long lasting effects. aquatic life with long lasting effects.
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revision	. OF here 0004	
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Prepared by	: EHS	
Version Disclaimer	: 4	

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