SAFETY DATA SHEET

Date of issue/Date of revision

: 15 November 2022 Version : 3



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

1.1 Product identifier	
Product name : SIGMASHIELD 460 BASE (LEAD FREE)	
Product code : 00155541	
Product type : Liquid.	
Other means of identification	
Not available.	
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Product use : Professional applications, Used by spraying.	
Use of the substance/ : Coating. mixture	
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 Paint Saudi Arabia Ltd. PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	

e-mail address of person : ndpic@sfda.gov.sa responsible for this SDS

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]

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

SIGMASHIELD 460 BASE (LEAD FREE) SECTION 2: Hazards identification Hazard pictograms : iwite iwite Hazard statements : Planmable liquid and vapour. Causes skin iritation. May cause an allergic skin reaction. Causes serious eye damage. May cause damage to organise through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. 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 to the environment. Do not breathe vapour. Rosponse : Ølspose of contents and container in accordance with all local, regional, national and international regulations. Hazardous ingredients : Ølspose of contents and container in accordance with all local, regional, national and international regulations. Hazardous ingredients : Ølspose of contents and container in accordance with all local, regional, national and international regulations. Hazardous ingredients : Ølspose of contents and container in accordance with all local, regional, national and international regulations. Hazardous ingredients : Opsystelline Stilla, respirable powder (<10 microns) 4-nonylphenol, branched <	Code : 00155541	Date of issue/Date of revision : 15 November 202
SECTION 2: Hazards identification Hazard pictograms :		
Hazard pictograms :	`	
Kignal word : Danger Hazard statements : Flammable liquid and vapour. Causes skin limitation. May cause an allergic skin reaction. Causes skin limitation. May cause damage to organs through prolonged or repeated exposure. Wery toxic to aquatic life with long lasting effects. Precautionary statements : 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 to the environment. Do not breather wapour. Response : Øollect spillage. Storage : Not applicable. Disposal : Ofspose of contents and container in accordance with all local, regional, national and international regulations. Hazardous ingredients : Contains epoxy constituents. May produce an allergic reaction. Supplemental label elements : Contains epoxy constituents. May produce an allergic reaction. Annox XVII - Restrictions on the manufacture, placing on the market and use of cortain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. Zotter hyazds : Not applicable. Zotter hyazds : Not applicable. Special packaging requirements : Not applicable. Containers to be fitted with child-resistant fastenings : No		Identification
Hazard statements : Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause damage. May cause damage. 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 to the environment. Do not breathe vapour. Response : ©follect spillage. Storage : Not applicable. Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. Hazardous ingredients : @foxpse of contents and container in accordance with all local, regional, national and international regulations. 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 requirements : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. Product meets the criteria of PFD or vPB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB or the razards which do not result in classification	Hazard pictograms	
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 2.3 Other hazards Product meets the criteria for PBT or vPvB Other hazards which do not result in classification This mixture does not contain any substances that are assessed to be a PBT or a vPvB Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. 	with child-resistant	: Not applicable.
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for PBT or vPvB Other hazards which do not result in classification : Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.	2.3 Other hazards	
not result in classification irritation.		: This mixture does not contain any substances that are assessed to be a PBT or a vPvB
SECTION 3: Composition/information on ingredients		
	SECTION 3: Compos	ition/information on ingredients

3.2 Mixtures

: Mixture

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SIGMASHIELD 460 BASE (LEAD FREE) SECTION 3: Composition/information on ingredients					
SECTION 3: Compo	Sition/Informat		ngrealents	Specific Conc.	
Product/ingredient name	Identifiers	%	Classification	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.

Туре

7 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.

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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

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Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects Eye contact : Causes serious eye damage. Inhalation : No known significant effects or critical hazards. : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. **Skin contact** Ingestion : Corrosive to the digestive tract. Causes burns. **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 : Adverse symptoms may include the following: Ingestion stomach pains 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large 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 ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

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SECTION 5: Firefigh	ing measures		
5.2 Special hazards arising f	om the substance or mixtu	ire	
Hazards from the substance or mixture	a fire or if heated, a press risk of a subsequent expl lasting effects. Fire wate	pour. Runoff to sewer may create fire sure increase will occur and the conta losion. This material is very toxic to a r contaminated with this material mus charged to any waterway, sewer or d	ainer may burst, with the aquatic life with long st be contained and
Hazardous combustion products	: Decomposition products carbon oxides halogenated compounds metal oxide/oxides	may include the following materials:	
5.3 Advice for firefighters			
Special precautions for fire-fighters	there is a fire. No action	e by removing all persons from the v shall be taken involving any persona s from fire area if this can be done wi ed containers cool.	I risk or without suitable
Special protective equipment for fire-fighters	apparatus (SCBA) with a for fire-fighters (including	appropriate protective equipment an full face-piece operated in positive p helmets, protective boots and gloves vide 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			
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		
xylene	EU OEL (Europe, 10/2019). [xylene, mixed isomers] Absorb through skin.		
	STEL: 442 mg/m ³ 15 minutes.		
	STEL: 100 ppm 15 minutes.		
	TWA: 221 mg/m ³ 8 hours.		
	TWA: 50 ppm 8 hours.		
crystalline silica, respirable powder (<10 microns	s) ACGIH TLV (United States, 1/2021). [Silica, crystalline]		
	TWA: 0.025 mg/m ³ 8 hours. Form: Respirable		
ethylbenzene	EU OEL (Europe, 10/2019). Absorbed through skin.		
	STEL: 884 mg/m ³ 15 minutes.		
	STEL: 200 ppm 15 minutes.		
	English (GB) United Arab Emirates	6/15	

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SECTION 8: Exposure	controls/per	•		
2-methylpropan-1-ol		TWA: 442 mg/m ³ 8 h TWA: 100 ppm 8 hou ACGIH TLV (United S TWA: 152 mg/m ³ 8 h TWA: 50 ppm 8 hour	urs. States, 1/2021). nours.	
Recommended monitoring : procedures	atmosphere or bit the ventilation or protective equipm following: Europe assessment of ex- values and meas atmospheres - Gi exposure to chen atmospheres - Gi measurement of	ological monitoring may other control measures nent. Reference should ean Standard EN 689 (' (posure by inhalation to urement strategy) Euro uide for the application nical and biological age eneral requirements for chemical agents) Refe	exposure limits, personal y be required to determin s and/or the necessity to u d be made to monitoring s Workplace atmospheres o chemical agents for con opean Standard EN 1404 and use of procedures for ents) European Standard r the performance of proce perence to national guidance lous substances will also	e the effectiveness of use respiratory standards, such as the - Guidance for the nparison with limit 2 (Workplace or the assessment of EN 482 (Workplace cedures for the ce documents for
8.2 Exposure controls				
	other engineering recommended or	controls to keep work statutory limits. The e oncentrations below any	e process enclosures, loca er exposure to airborne c engineering controls also i y lower explosive limits.	ontaminants below any need to keep gas,
Individual protection measure	_			
Hygiene measures :	eating, smoking a Appropriate techr Contaminated wo contaminated clo	and using the lavatory a niques should be used ork clothing should not l	ghly after handling chemic and at the end of the work to remove potentially con be allowed out of the wor Ensure that eyewash stati cation.	king period. taminated clothing. kplace. Wash
Eye/face protection : <u>Skin protection</u>	Chemical splash	goggles and face shiel	d.	
Hand protection :	worn at all times of necessary. Considuring use that the noted that the time glove manufacture protection time of frequently repeate (breakthrough time When only brief of (breakthrough time The user must che product is the model)	when handling chemica idering the parameters in gloves are still retain the to breakthrough for a rers. In the case of mix the gloves cannot be a ed contact may occur, a ne greater than 480 mir contact is expected, a g ne greater than 30 minu- neck that the final choic	complying with an approve al products if a risk asses a specified by the glove m ing their protective prope any glove material may be ctures, consisting of sevel accurately estimated. WI a glove with a protection nutes according to EN 37 glove with a protection cla utes according to EN 374 be of type of glove selected es into account the particu- nt.	sment indicates this is anufacturer, check rties. It should be different for different ral substances, the nen prolonged or class of 6 4) is recommended. ss of 2 or higher) is recommended. d for handling this
Gloves :	butyl rubber			
Body protection :	performed and th handling this proc static protective c should include an	e risks involved and sh duct. When there is a r clothing. For the greate tti-static overalls, boots	ody should be selected by hould be approved by a sp risk of ignition from static est protection from static of and gloves. Refer to Eu and design requirements	becialist before electricity, wear anti- discharges, clothing ropean Standard EN
Other skin protection	based on the task		skin protection measure the risks involved and sh	
		English (GB)	United Arab Emirates	7/15

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SECTION 8: Exposu	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	I chemical properties
Appearance		
Physical state	: L	iquid.
Colour	: V	'arious
Odour	: A	romatic.
Odour threshold	: N	lot available.
Melting point/freezing point	d	lay start to solidify at the following temperature: <-7°C (<19.4°F) This is based on ata 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	: 0	Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)
Flash point	: C	closed cup: 31.9°C
Auto-ignition temperature	: 4	15°C (779°F)
Decomposition temperature		table under recommended storage and handling conditions (see Section 7).
рН	: N	lot applicable. insoluble in water.
Viscosity	: K	(inematic (40°C): >21 mm²/s
Viscosity	: 6	0 - 100 s (ISO 6mm)
Solubility(ies)	1	
Media		Result
cold water		Not soluble

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure	:	In our all and a sure of	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	nylbenz	ene) Weighteo	d average	e: 0.76co	mpared with
Relative density	:	1.66						
Vapour density		Highest known value 4.35 (Air = 1)	e: 7.59 (A	ir = 1)((4-nonylphenol	, branche	ed). Weig	ghted average:
Explosive properties	:	The product itself is a vapour or dust with a			t the formation	of an exp	plosible m	nixture of
Oxidising properties	:	Product does not pre	esent an o	xidizing	hazard.			
		Eng	lish (GB)	U	nited Arab En	nirates		8/15

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SECTION 9: Physica	I and chemical properties
Particle characteristics	
Median particle size	: Not applicable.
9.2 Other information	
No additional information.	
SECTION 10: Stabilit	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
epoxy 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	-	-

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.

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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 avai	lable on the mixtur	e itself.	
Respiratory	: There are no data avai	lable on the mixtur	e itself.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data avai	lable on the mixtur	e itself.	
Carcinogenicity				
Conclusion/Summary	: There are no data avai	lable on the mixtur	e itself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data avai	lable on the mixtur	e itself.	
Teratogenicity				
Conclusion/Summary	: There are no data avai	lable on the mixtur	e itself.	
Specific target organ toxic	<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	uct/ingredient name Result
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.
Potential acute health effective	ffects
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

Conforms to Regulation (EC)	No. 1907/2006 (REACH), A	Annex II	
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Eye contact	: Adverse symptoms may pain watering redness	<i>i</i> include the following:	
Delayed and immediate effe	<u>cts as well as chronic effe</u>	ects from short and long-term exposition	<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	<u>ects</u>		
Not available.			
Conclusion/Summary	: Not available.		
General	repeated contact can de	organs through prolonged or repeated e afat the skin and lead to irritation, cracki are allergic reaction may occur when sul	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
<mark>e</mark> poxy 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 americanus	96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

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12.2 Persistence and degradability

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Product/ingredient name	Test	Result		Dose		Inoculum
poxy resin (MW ≤ 700) ethylbenzene	OECD 301F -	5 % - 28 days - 79 % - Readily - 10 days -		-		-
Conclusion/Summary : There are no data available on the mixture itself.						
Product/ingredient name	oduct/ingredient name Aquatic half-life Photolysis Biodegr		iodegradability			
poxy resin (MW ≤ 700) xylene ethylbenzene		- - -	Not readily Readily Readily		adily	

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	
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	: Yes.
European waste catalogi	

<u>catalogue (E</u>

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SECTION 13: Disposal considerations

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	: This material and its container must be disposed of in a safe way. Ca taken when handling emptied containers that have not been cleaned of Empty containers or liners may retain some product residues. Vapou residues may create a highly flammable or explosive atmosphere inside Do not cut, weld or grind used containers unless they have been clean internally. Avoid dispersal of spilt material and runoff and contact with drains and sewers.	or rinsed out. r from product de the container. ned thoroughly	

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		
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	: The environ ≤5 kg.	mentally hazardous substance mark is not required when transported in sizes of \leq 5 L or
Tunnel code	: (D/E)	
IMDG	: The marine	pollutant mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$.
IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.		
14.6 Special pred 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 ir according to IMC instruments		Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

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]	Candidate	ED/169/2012	10/29/2013
Endocrine disrupting properties for environment	4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	Candidate	ED/169/2012	12/19/2012

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.

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SECTION 16: Other	information	
Full text of classifications [CLP/GHS]	H336May cause ofH361Suspected ofH361fdSuspected ofH372Causes damH373May cause ofH400Very toxic toH410Very toxic toH411Toxic to aque	espiratory irritation. drowsiness or dizziness. of damaging fertility or the unborn child. of damaging fertility. Suspected of damaging the unborn child. hage to organs through prolonged or repeated exposure. damage to organs through prolonged or repeated exposure. aquatic life. aquatic life with long lasting effects. hatic life with long lasting effects. aquatic life with long lasting effects.
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revision Date of previous issue	: 25 June 2021	
Prepared by	: EHS	
Version Disclaimer	: 3	

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