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

SAFETY DATA SHEET

Date of issue/Date of revision

: 10 August 2021

Version : 1.02



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

1.1 Product identifier	
Product name	: SIGMASHIELD 420 BASE REDBROWN 6179
Product code	: 00445402
Product type	: Liquid.
Other means of identificatio	n
Not available.	
1.2 Relevant identified uses o	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 of t	he 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

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 Aquatic Chronic 2, H411

number

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

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

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

2.2 Label elements Hazard pictograms :

English (GB) United Arab Emirates

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SECTION 2: Hazards	identification	
Signal word	: Danger	
Hazard statements	 Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. 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.	
Response	: Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.	
Storage	: Not applicable.	
Disposal	: Not applicable.	
Hazardous ingredients	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) 2-methylpropan-1-ol nonylphenol 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene	
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	<u>ients</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 vPvB.	
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.	

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) xylene	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8 REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25 ≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332	[1]

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SECTION 3: Composition	on/information on ing	redients		
	Index: 601-022-00-9 REACH #: 01-2119484609-23		Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Flam. Liq. 3, H226	[1] [2]
2-methylpropan-1-ol	EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	5 21.0 - 53.0	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	['][²]
ethylbenzene	REACH #: 01-2119489370-33 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	5 ≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
nonylphenol	EC: 246-672-0 CAS: 25154-52-3 Index: 601-053-00-8	≥0.30 - <2.5	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]
1,3-bis[12-hydroxy-octadecamide- N-methylene]-benzene	REACH #: 01-2119962189-20 EC: 423-300-7 CAS: 911674-82-3 Index: 616-198-00-2	5 <1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	[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.

Туре

[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	
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.

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SECTION 4: First aid	1 measures		
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 symptom	ns and effects, both acute and delayed		
Potential acute health effect	<u>ots</u>		
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.		
Ingestion	: No known significant effects or critical hazards.		
Over-exposure signs/symp	<u>ptoms</u>		
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: stomach pains		
4.3 Indication of any immed	iate 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: Firefigh	ting 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.		
5.2 Special hazards arising	from the substance or mixture		
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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			

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SECTION 5: Firefight	ing measures	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures	
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.	
6.3 Methods and material for	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 spill product.	
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.	

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

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SECTION 7: Handlin	g and storage		
	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	: 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	
xylene	EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.	
2-methylpropan-1-ol	ACGIH TLV (United States, 3/2020). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.	
ethylbenzene	EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 884 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.	
1,3-bis[12-hydroxy-octadecamide-N-methylene]- benzene	ACGIH TLV (United States). TWA: 3 mg/m ³ , (Respirable fraction)	
procedures atmosphere or b the ventilation or protective equipr following: Europ assessment of e values and meas	his product contains ingredients with exposure limits, personal, workplace hosphere or biological monitoring may be required to determine the effectiveness of eventilation or other control measures and/or the necessity to use respiratory otective equipment. Reference should be made to monitoring standards, such as the owing: European Standard EN 689 (Workplace atmospheres - Guidance for the sessment of exposure by inhalation to chemical agents for comparison with limit ues and measurement strategy) European Standard EN 14042 (Workplace nospheres - Guide 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 controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	<u>ures</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. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical a	nd	chemical pro	perties						
The conditions of measurement of	all	properties are at star	dard tem	perature	and pre	ssure ı	unless	otherwise	indicated.
9.1 Information on basic physica	al a	nd chemical propert	ies						
<u>Appearance</u>									
Physical state	1	Liquid.							
Colour	:	Brownish-red.							
Odour	:	Characteristic.							
Odour threshold	:	Not available.							
рН	:	insoluble in water.							
Melting point/freezing point	:	May start to solidify a data for the following (-121.7°F)							
Initial boiling point and boiling range	:	>37.78°C							
Flash point	:	Closed cup: 25°C							
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (et	hylbenze	ne) We	eighted	avera	ge: 0.67cc	mpared with
Flammability (solid, gas)	:	liquid							
Upper/lower flammability or	1	Greatest known rang	ne. I ower	17% U	lpper: 10	n a% ('	2_meth	vlpropan-	1 01)
explosive limits		·				0.070 (2	2-mou	, yipi opan	1-01)
	:			ur Press					sure at 50°C
explosive limits	:	Ingredient name		ur Press		:0°C			•
explosive limits	:		Vapou	ur Press	ure at 2	o°C	Va mm	pour pres	sure at 50°C
explosive limits	:	Ingredient name	Vapou mm Hg <12	kPa	Ure at 2 Metho DIN EN 13016-2	od	Va mm Hg	pour pres kPa	sure at 50°C
explosive limits Vapour pressure	:	Ingredient name 2-methylpropan-1-ol Highest known value	Vapou mm Hg <12	kPa	Ure at 2 Metho DIN EN 13016-2	od	Va mm Hg	pour pres kPa	sure at 50°C
explosive limits Vapour pressure Vapour density	:	Ingredient name 2-methylpropan-1-ol Highest known value 1)	Vapou mm Hg <12 :: 7.59 (A	kPa <1.6 ir = 1) (r	Ure at 2 Metho DIN EN 13016-2 nonylphe	od od enol). 1	Va mm Hg	pour pres kPa	sure at 50°C
explosive limits Vapour pressure Vapour density Relative density		Ingredient name 2-methylpropan-1-ol Highest known value 1) 1.38 Insoluble in the follow	Vapou mm Hg <12 :: 7.59 (A	kPa <1.6 ir = 1) (r	Ure at 2 Metho DIN EN 13016-2 nonylphe	od od enol). 1	Va mm Hg	pour pres kPa	sure at 50°C
explosive limits Vapour pressure Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/		Ingredient name 2-methylpropan-1-ol Highest known value 1) 1.38 Insoluble in the follow Not applicable.	Vapou mm Hg <12 :: 7.59 (A	kPa <1.6 ir = 1) (r	ure at 2 Metho DIN EN 13016-2 ionylphe d water.	od od enol). 1	Va mm Hg	ted averag	sure at 50°C
explosive limits Vapour pressure Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/ water		Ingredient name 2-methylpropan-1-ol Highest known value 1) 1.38 Insoluble in the follow	Vapou mm Hg <12 :: 7.59 (A	<pre>xr Press kPa <1.6 ir = 1) (r rials: color </pre>	ure at 2 Metho DIN EN 13016-2 nonylphe d water.	od 2 enol).	Va mm Hg	pour pres kPa	sure at 50°C
explosive limits Vapour pressure Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/ water		Ingredient name 2-methylpropan-1-ol Highest known value 1) 1.38 Insoluble in the follow Not applicable. Ingredient name	Vapou mm Hg <12 2: 7.59 (A wing mate	Press kPa <1.6	ure at 2 Metho DIN EN 13016-2 honylphe d water.	°F 598	Va mm Hg Weigh	ted averag	sure at 50°C Method Je: 4.01 (Air =
explosive limits Vapour pressure Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/ water Auto-ignition temperature		Ingredient name 2-methylpropan-1-ol Highest known value 1) 1.38 Insoluble in the follow Not applicable. Ingredient name nonylphenol	Vapou mm Hg <12 :: 7.59 (A wing mate	Press kPa <1.6	ure at 2 Metho DIN EN 13016-2 honylphe d water.	°F 598	Va mm Hg Weigh	ted averag	sure at 50°C Method Je: 4.01 (Air =
explosive limits Vapour pressure Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/ water Auto-ignition temperature Decomposition temperature		Ingredient name 2-methylpropan-1-ol Highest known value 1) 1.38 Insoluble in the follow Not applicable. Ingredient name nonylphenol Stable under recomm	Vapou mm Hg <12 :: 7.59 (A wing mate	<pre>Interpresentation Interpresentation Interpresentatio Interpresentation Interpresentation Interpre</pre>	ure at 2 Metho DIN EN 13016-2 nonylphe d water.	°F 598 ling co	Va mm Hg Weigh	ted averag	sure at 50°C Method Je: 4.01 (Air =

9.2 Other information

No additional information.

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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
reaction product: bisphenol-A-	LD50 Dermal	Rabbit	>2 g/kg	-
(epichlorhydrin); epoxy resin				
	LD50 Oral	Rat	>2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 mg/kg	-
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists		_	
octadecanoic acid and				
1,3-phenylenedimethanamine				

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

Acute toxicity estimates

Route	ATE value
Dermal	38880.51 mg/kg 20209.17 mg/kg 117.71 mg/l

Irritation/Corrosion

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Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Skin - Moderate irritant	Rabbit	-	-	-
ç ç ,	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

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

: There are no data available on the mixture itself.

Eyes Respiratory

Code

: There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	skin	Mouse	Sensitising

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Chapific torget ergen texi	city (cinale expecture)

Specific target organ toxicity (single exposure)

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
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/	ingredient name	Result
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health effec Inhalation	ts : No known significant effects or	r critical hazards.

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SECTION 11: Toxico	logical information
Ingestion	: No known significant effects or critical hazards.
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 p	hysical, 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
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate eff	ects as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	i Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	Not available.
Potential chronic health ef	iects
Not available.	
Conclusion/Summary	: Not available.
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.
Prolonged or repeated conta	ct may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled.

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.

SECTION 12: Ecological information

12.1 Toxicity

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SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
nonylphenol	Acute EC50 0.056 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic EC10 0.003 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 1 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	Acute LC50 >100 mg/l	Fish	96 hours

Conclusion/Summary : There

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	OECD 301F	5 % - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	-	-	Not readily
xylene ethylbenzene	-		Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	2.64 to 3.78	31	low
xylene	3.12	7.4 to 18.5	low
2-methylpropan-1-ol	1	-	low
ethylbenzene	3.6	79.43	low
nonylphenol	3.28	154.88	low

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

English (GB) United Arab Emirates

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SECTION 12: Ecological information

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

P	roc	luc	t

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	15 01 06 mixed packaging	
Special precautions	 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. 	

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN 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	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, nonylphenol)	Not applicable.

Conforms to Re	egulation (EC) No	o. 1907/2006 (REACH	i), Annex II	
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SECTION 1	14: Transpo	rt information		
Additional info	rmation			
ADR/RID	: The environ ≤5 kg.	mentally hazardous si	ubstance mark is not required when trans	ported in sizes of ≤5 L or
Tunnel code	: (D/E)			
IMDG	: The marine	pollutant mark is not r	required when transported in sizes of \leq 5 L	or ≤5 kg.
ΙΑΤΑ	: The environ regulations.	mentally hazardous si	ubstance mark may appear if required by	other transportation
14.6 Special pr user	ecautions for :		ser's premises: always transport in close Ensure that persons transporting the prod or spillage.	
14.7 Transport according to IN instruments		Not applicable.		
instruments		orv information		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Substance of equivalent concern for environment	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	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

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SECTION 16: Other i	information
Indicates information that I	has changed from previously issued version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] 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 statements	 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. 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 eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.
Full text of classifications [CLP/GHS]	 Acute Tox. 4 Aquatic Acute 1 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 3 Aquatic Chronic 4 Aguatic Chronic 4 Aguatic Chronic 4 Aquatic Chronic 4 Aguatic Chronic 4 CONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aguatic Chronic 4 Aspiration HAZARD - Category 1 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 2 Skin Corr. 1B Skin CORROSION/IRRITATION - Category 1B Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1 SKIN SENSITISATION - Category 1 STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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SECTION 16: Other information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.