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

: 16 January 2020 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	: 00226479
Product type	: Liquid.
Other means of identification	1
Not available.	
1.2 Relevant identified uses o	f 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 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 responsible for this SDS	: ndpic@sfda.gov.sa

1.4 Emergency telephone : 00966 138473100 extn 1001 number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Chronic 3, H412

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 : 00226479		. 1907/2006 (REACH), Annex II Date of issue/Date of revision : 16 January 2020
GIGMASHIELD 420 BASE RED		
SECTION 2: Hazards	ic	lentification
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	Flammable liquid and vapour. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.
Response	:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	Store in a well-ventilated place. Keep cool.
Disposal	1	Not applicable.
Hazardous ingredients	:	Quartz (SiO2) reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) Phenol, methylstyrenated
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	en	ts
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
.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

3.2 Mixtures

: Mixture

Code : 00226479

SIGMASHIELD 420 BASE REDBROWN 6179

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
Quartz (SiO2)	EC: 238-878-4 CAS: 14808-60-7	≥25 - ≤50	STOT RE 1, H372 (inhalation)	[1] [2]
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥10 - <25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[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	[1] [2]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	[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 - ≤2.4	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]

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

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

<u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures Eye contact : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

: 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.

Conforms to Regulation (EC	No. 1907/2006 (REACH), Annex II
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SIGMASHIELD 420 BASE RE	DBROWN 6179
SECTION 4: First ai	l measures
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Kee 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. 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
	s and effects, both acute and delayed
Potential acute health effe	
Eye contact	: Causes serious eye irritation.
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	toms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation

1.0 Indiantian of any immediate r

Ingestion

4.3 Indication of any immediate medical attention and special treatment needed

redness dryness cracking

: No specific data.

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.
5.2 Special hazards arising f	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 harmful 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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II			
Code : 00226479	Date of issue/Date of revision : 16 January 2020		
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SECTION 5: Firefight	ting 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	teo	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. Avoid breathing 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.
6.3 Methods and material for	coi	ntainment 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.

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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II	
Code : 00226479	Date of issue/Date of revision : 16 January 2020	
SIGMASHIELD 420 BASE RE	DBROWN 6179	
SECTION 7: Handlin	ng and storage	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). 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. 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 ingest. Avoid breathing vapour or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. 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. Eliminate all ignition sources. Separate from oxidizing 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

SECTION 8: Exposure controls/personal protection

: Not available.

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	
Øuartz (SiO2)	ACGIH TLV (United States, 3/2019).	
	TWA: 0.025 mg/m ³ 8 hours. Form: Respirable	
xylene	EU OEL (Europe, 2/2017). 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.	
ethylbenzene	EU OEL (Europe, 2/2017). Absorbed through skin.	
	STEL: 884 mg/m ³ 15 minutes.	
	STEL: 200 ppm 15 minutes.	
<u>.</u>	English (GB) United Arab Emirates	6/15

	. 1907/2006 (REACH), Annex II
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SECTION 8: Exposu	controls/personal protection
1-methoxy-2-propanol	TWA: 442 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. EU OEL (Europe, 2/2017). Absorbed through skin. STEL: 568 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
2-methylpropan-1-ol	TWA: 375 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 3/2019). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance fo the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedure for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
3.2 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 control also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	
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 <u>Skin protection</u>	Chemical splash goggles.
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 estimate 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 particul
	conditions of use, as included in the user's risk assessment.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II		
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SECTION 8: Exposu	ire controls/personal protection	
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.	
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment	

will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	and chemical properties
<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Brownish-red.
Odour	: Characteristic.
Odour threshold	: Not available.
рН	: insoluble in water.
Melting point/freezing point	 May start to solidify at the following temperature: -14°C (6.8°F) This is based o data for the following ingredient: Phenol, methylstyrenated. Weighted average -82.8°C (-117°F)
Initial boiling point and boiling range	: >37.78°C
Flash point	: Closed cup: 26°C
Evaporation rate	: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.77compared with butyl acetate
Flammability (solid, gas)	: liquid
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)
Vapour pressure	: Highest known value: <1.6 kPa (<12 mm Hg) (at 20°C) (2-methylpropan-1-ol). Weighted average: 0.85 kPa (6.38 mm Hg) (at 20°C)
Vapour density	: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.52 (Air = 1
Relative density	: 1.5
Solubility(ies)	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	: Not applicable.
Auto-ignition temperature	: Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).
Decomposition temperature	: Stable under recommended storage and handling conditions (see Section 7).
Viscosity	: Kinematic (40°C): >0.21 cm²/s
Explosive properties	: Product does not present an explosion hazard.

English (GB) United Arab Emirates

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SIGMASHIELD 420 BASE F	, ,
SECTION 9: Physic	cal and chemical properties
Oxidising properties	: Product does not present an oxidizing hazard.
9.2 Other information No additional information.	
SECTION 10: Stab	lity 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 materia	 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	11.4 g/kg	-
xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 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	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 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.

Acute toxicity estimates

Route	ATE value	
	15069.44 mg/kg 135.6 mg/l	

Irritation/Corrosion

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SECTION 11: Toxicological information

0					
Product/ingredient name	Result	Species	Score	Exposure	Observation
eaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number) average molecular weight ≤ 700)	Skin - Moderate irritant	Rabbit	-	-	-
xylene	Eyes - Moderate irritant Skin - Moderate irritant		-	- 24 hours 500 mg	-

Conclusion/Summary

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Respiratory

Skin

Eyes

: 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 av	vilable on the mixt	uro itoolf	

Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
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.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene 1-methoxy-2-propanol 2-methylpropan-1-ol	Category 3 Category 3	Not applicable. Not applicable. Not applicable. Not applicable.	Respiratory tract irritation Narcotic effects Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 1	Inhalation	Not determined
	Category 2	Not determined	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 ef	fects	
Inhalation	: No known significant effe	ects or critical hazards.
Ingestion	: No known significant effe	ects or critical hazards.
Skin contact	: Causes skin irritation. De	efatting to the skin. May cause an allergic skin reaction.
	Eng	glish (GB) United Arab Emirates 10/1

SECTION 11: Toxicological information

Eye contact	Causes serious eye irritation.	
Symptoms related to the phy	II, chemical and toxicological characteristics	
Inhalation	lo specific data.	
Ingestion	lo specific data.	
Skin contact	dverse symptoms may include the following: ritation edness ryness racking	
Eye contact	dverse symptoms may include the following: ain or irritation /atering edness	
Delayed and immediate effect	s well as chronic effects from short and long-term exposure	
<u>Short term exposure</u>		
Potential immediate effects	lot available.	
Potential delayed effects	lot available.	
Long term exposure Potential immediate effects	lot available.	
Potential delayed effects	lot available.	
Potential chronic health effe		
Not available.		
Conclusion/Summary	lot available.	
General	Causes damage to organs through prolonged or repeated exposure. Prolonged or epeated contact can defat the skin and lead to irritation, cracking and/or dermatitis Once sensitized, a severe allergic reaction may occur when subsequently exposed ery low levels.	s.
Carcinogenicity	lo known significant effects or critical hazards.	
Mutagenicity	lo known significant effects or critical hazards.	
Teratogenicity	lo known significant effects or critical hazards.	
Developmental effects	lo known significant effects or critical hazards.	
Fertility effects	lo known significant effects or critical hazards.	
Other information	lot available.	
<u> </u>	the second se	

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), Phenol, methylstyrenated. May produce an allergic reaction.

Code : 00226479 SIGMASHIELD 420 BASE REDBROWN 6179 Date of issue/Date of revision

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia Fish	48 hours 96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours

: There are no data available on the mixture itself.

12.2 Persistence and degradability

A-(epichlorhydrin); epoxy resin (number average	Product/ingredient name	Test	Result	Dose	Inoculum
	reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	OECD 301F	5 % - 28 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
<pre>reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)</pre>	3	31	low
xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low
2-methylpropan-1-ol	0.76	-	low

12.4 Mobility in soil

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 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	Yes.

European waste catalogue (EWC)

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

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)	
Container	15 01 06 mixed packaging	
Special precautions	: This material and its container must be disposed of in a safe way. Care should taken when handling emptied containers that have not been cleaned or rinsed Empty containers or liners may retain some product residues. Vapour from pr 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 or thoroughly internally. Avoid dispersal of spilt material and runoff and contact v soil, waterways, drains and sewers.	out. oduct eaned

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
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	Ш	Ш
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: None identified.
Tunnel code	: (D/E)
IMDG	: None identified.
ΙΑΤΑ	: None identified.

Conforms to Regulation (EC)	No. 1907/2006 (REACI		
Code : 00226479		Date of issue/Date of revision	: 16 January 2020
SIGMASHIELD 420 BASE RED)BROWN 6179		
SECTION 14: Transp	ort information		
14.6 Special precautions for user		user's premises: always transport in close . Ensure that persons transporting the proc ident or spillage.	
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	: Not applicable.		
SECTION 15: Regula	itory information	n	
15.1 Safety, health and enviro	onmental regulations/	legislation specific for the substance o	r mixture
EU Regulation (EC) No. 190	<u>7/2006 (REACH)</u>		
Annex XIV - List of substar	<u>nces subject to author</u>	<u>risation</u>	
Annex XIV			
None of the components a	re listed.		
Substances of very high	<u>concern</u>		
None of the components a	re listed.		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.		
Other national and internati	onal regulations.		
Ozone depleting substance Not listed.	<u>}s (1005/2009/EU)</u>		
15.2 Chemical safety	: No Chemical Safety	Assessment has been carried out.	

assessment

SECTION 16: Other information

Indicates information that has change	d from previously issued version.		
1272/2 DNEL EUH s PNEC			
Full text of abbreviated H statements : H225 H226 H304 H312 H315 H317 H318 H319 H332 H335 H336 H372 (inhalatic H372 H373 H411	May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure if on) inhaled. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.		
	English (GB) United Arab Emirates 14/15		

Conforms to Regulation (EC) No. 1907/2006 (REACH), An	nex ll
Code : 00226479		Date of issue/Date of revision : 16 January 2020
SIGMASHIELD 420 BASE RE	DBROWN 6179	
SECTION 16: Other	information	
	H412 Harmful to aqua	atic life with long lasting effects.
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 2, H411	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
	Aquatic Chronic 3, H412	-
	Asp. Tox. 1, H304 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 1, H372 (inhalation) STOT RE 1, H372 STOT RE 2, H373 STOT SE 3, H335 STOT SE 3, H336	ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (inhalation) - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
<u>History</u>		
Date of issue/ Date of revision	: 16 January 2020	
Date of previous issue	: 11 October 2019	
Prepared by	: EHS	
Version	: 1.02	
<u>Disclaimer</u>		

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