SAFETY DATA SHEET

United Arab Emirates

Date of issue/Date of revision

: 4 April 2024

Version

: 1.01

SECTION 1: Identification of the substance/mixture and of the company/ undertaking		
1.1 Product identifier		
Product name	: SIGMASHIELD 420 BASE RED BROWN	
Product code	: 000001200007	
Other means of identifica 00192368	tion	
1.2 Relevant identified use	s of the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying, Application by non spray methods.	
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	of the safety data sheet	
Sigma Paint Saudi Arabia L PO Box 7509 Dammam 31472 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	d.	
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa	
1.4 Emergency telephone number	: 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 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

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SIGMASHIELD 420 BASE REI	D BROWN		
SECTION 2: Hazards	identification		
Hazard pictograms			>
	: Danger		
Hazard statements		on. gic skin reaction.	exposure.
Precautionary statements			
Prevention	surfaces, sparks, c	oves. Wear eye or face protection. Keep a open flames and other ignition sources. No Do not breathe vapour.	
Response	: Collect spillage.		
Storage	: Not applicable.		
Disposal	international regula	s and container in accordance with all local ations. , P260, P391, P501	, regional, national and
Hazardous ingredients			
Supplemental label elements	: Contains epoxy co	nstituents. May produce an allergic reactior	1.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.		
Special packaging requiren	<u>nents</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 assess	ed to be a PBT or a vPvB
Other hazards which do not result in classification	: Causes digestive t irritation.	ract burns. Prolonged or repeated contact	may dry skin and cause
	May cause endocr	ine disruption.	

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
øis-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥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	≥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 Aquatic Chronic 3, H412	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]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - ≤3.2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
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]
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.

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SECTION 3: Composition/information on ingredients

[1] 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.

SECTION 4: First aid measures

4.1 Description of first aid n	neasures
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.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs/	<u>symptoms</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 im	mediate 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.

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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	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

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SECTION 6: Accidental release measures

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

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.

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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
rystalline silica, respirable powder (>10 microns)	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 0.1 mg/m ³ 8 hours. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [silica (inhalable particle)/ (respirable particulate)] TWA: 10 mg/m ³ 8 hours. Form: inhalable particle TWA: 3 mg/m ³ 8 hours. Form: respirable particulate Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [quartz silica crystalline–α-quartz and cristobalite] TWA: 0.025 mg/m ³ 8 hours. Form: measured as respirable fraction of the aerosol ACGIH TLV (United States, 1/2023). [Silica, crystalline] Notes: Respirable fraction; see Appendix C, paragraph C. TMA: 0.025 mg/m ³ 8 hours. Form: Desnirable
Talc , not containing asbestiform fibres	TWA: 0.025 mg/m ³ 8 hours. Form: Respirable Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 2 mg/m ³ 8 hours. Form: measured as respirable fraction of the aerosol Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 2 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2023). TWA: 2 mg/m ³ 8 hours. Form: Respirable
xylene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [xylene (o, m & p isomers)] STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). [xylene (all isomers)] STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. STEL: 651 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). [p-xylene and mixtures containing p-xylene] Ototoxicant.
diiron trioxide	TWA: 20 ppm 8 hours. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 5 mg/m ³ 8 hours. Form: measured as respirable fraction of the aerosol Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2023). Notes: Refers to Appendix B

f issue/Date of revision : 4 April 2024 of Variable Composition. Respirable fraction; see aragraph C. ³ 8 hours. Form: Respirable fraction e (12) of 2006 Regarding Regulation Concerning atir from Pollution (United Arab Emirates, 5/2006). m ³ 8 hours. SHAD - Occupational air quality threshold limit Arab Emirates, 7/2016). [silica (inhalable particle) ticulate)] m ³ 8 hours. Form: inhalable particle ³ 8 hours. Form: respirable particulate SHAD - Occupational air quality threshold limit Arab Emirates, 7/2016). [quartz silica juartz and cristobalite] g/m ³ 8 hours. Form: measured as respirable fraction hited States, 1/2023). [Silica, crystalline] Notes:
aragraph C. ³ 8 hours. Form: Respirable fraction a (12) of 2006 Regarding Regulation Concerning a (12) of 2006 Regardin
e (12) of 2006 Regarding Regulation Concerning ir from Pollution (United Arab Emirates, 5/2006). m ³ 8 hours. SHAD - Occupational air quality threshold limit Arab Emirates, 7/2016). [silica (inhalable particle ticulate)] n ³ 8 hours. Form: inhalable particle ³ 8 hours. Form: respirable particulate SHAD - Occupational air quality threshold limit Arab Emirates, 7/2016). [quartz silica quartz and cristobalite] g/m ³ 8 hours. Form: measured as respirable fraction
Arab Emirates, 7/2016). [silica (inhalable particle ticulate)] n ³ 8 hours. Form: inhalable particle ³ 8 hours. Form: respirable particulate SHAD - Occupational air quality threshold limit Arab Emirates, 7/2016). [quartz silica juartz and cristobalite] g/m ³ 8 hours. Form: measured as respirable fractior
³ 8 hours. Form: respirable particulate SHAD - Occupational air quality threshold limit Arab Emirates, 7/2016). [quartz silica uartz and cristobalite] g/m ³ 8 hours. Form: measured as respirable fractior
g/m³ 8 hours. Form: measured as respirable fractior
nited States, 1/2023). [Silica, crystalline] Notes:
c tion; see Appendix C, paragraph C. g/m³ 8 hours. Form: Respirable
SHAD - Occupational air quality threshold limit Arab Emirates, 7/2016). /m³ 8 hours.
8 hours. e (12) of 2006 Regarding Regulation Concerning hir from Pollution (United Arab Emirates, 5/2006). (m ³ 8 hours.
8 hours. hited States, 1/2023). /m³ 8 hours. 8 hours.
SHAD - Occupational air quality threshold limit Arab Emirates, 7/2016). /m ³ 15 minutes. n 15 minutes.
m to minutes. 1 8 hours. 2 (12) of 2006 Regarding Regulation Concerning
hir from Pollution (United Arab Emirates, 5/2006). n 15 minutes. /m³ 8 hours.
/m ³ 15 minutes. 1 8 hours. hited States, 1/2023). Ototoxicant. Notes:
r which there is a Biological Exposure Index or
ree f A pr ig/ ng pn Ui

Standard EN 689 (Workplace atmospheres - Guidance for 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 of 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

Conforms to Regulation (EC) 2020/878	No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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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>res</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 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	1 · · · · · · · · · · · · · · · · · · ·
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 physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Brownish-red.
Odour	: Aromatic.
Odour threshold	: Not available.
Melting point/freezing point	: May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propane. Weighted average: -22.28°C (-8.1°F)

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SECTION 9: Physical a	nd	chemical prop	oerties					
Initial boiling point and boiling range	:	>37.78°C						
Flammability	:	Not available.						
Upper/lower flammability or explosive limits	:	Greatest known rang	e: Lower:	1.7% L	Jpper: 10.9%	(2-methy	/lpropan-1	-ol)
Flash point	:	Closed cup: 25°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		4-nonylphenol, branched		372	701.6	A	STM E 659	
Decomposition temperature pH Viscosity Viscosity		Stable under recomn Not applicable. Kinematic (40°C): >2 > 100 s (ISO 6mm)		brage a	nd handling co	onditions	(see Sec	tion 7).
Solubility(ies)								
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octano water	I/ :	Not applicable.						
Vapour pressure	1		Vapour Pressure at 20°C			Vap	our press	sure at 50°
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			
Evaporation rate	:	Highest known value butyl acetate	: 0.84 (eth	ylbenze	ene) Weighteo	d averag	e: 0.76co	mpared with
Relative density	1	1.75						
Vapour density		Highest known value Weighted average: 9	.01 (Air =	1)				
Explosive properties	-	The product itself is r vapour or dust with a			the formation	of an ex	plosible m	nixture of
Oxidising properties	:	Product does not pre	sent an o	kidizing	hazard.			
Particle characteristics								
Median particle size	-	Not applicable.						
0.2 Other information								
No additional information.								

- **10.2 Chemical stability** : The product is stable.
- **10.3 Possibility of** : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions
- **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.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878							
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SECTION 10: Stabilit	ty and reactivity						
10.5 Incompatible materials		e following materials to prevent strong exot rong alkalis, strong acids.	hermic reactions:				
10.6 Hazardous decomposition products	: Depending on condi carbon oxides meta	itions, decomposition products may include al oxide/oxides	e the following materials:				

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/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	-
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	-

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

Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Eyes - Mild irritant	Rabbit	-	24 hours	-
Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
Skin - Oedema	Rabbit	0.5	4 hours	-
Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
Skin - Mild irritant	Rabbit	-	4 hours	-
Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Skin - Erythema/Eschar	Rabbit	4	-	-
	Eyes - Mild irritant Eyes - Redness of the conjunctivae Skin - Oedema Skin - Erythema/Eschar Skin - Mild irritant Skin - Moderate irritant	Eyes - Mild irritant Rabbit Eyes - Redness of the Rabbit conjunctivae Skin - Oedema Rabbit Skin - Erythema/Eschar Rabbit Skin - Mild irritant Rabbit	Eyes - Mild irritantRabbit-Eyes - Redness of the conjunctivaeRabbit0.4Skin - OedemaRabbit0.5Skin - Erythema/EscharRabbit0.8Skin - Mild irritantRabbit-Skin - Moderate irritantRabbit-	Eyes - Mild irritantRabbit-24 hoursEyes - Redness of the conjunctivaeRabbit0.424 hoursSkin - OedemaRabbit0.54 hoursSkin - Erythema/EscharRabbit0.84 hoursSkin - Mild irritantRabbit-4 hoursSkin - Moderate irritantRabbit-24 hours

Conclusion/Summary

Conclusion/Summary

Reproductive toxicity

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

Sensitisation

Product	/ingredient name	Route of exposure	Species	Result		
bis-[4-(2,3-epoxipropoxi)phenyl]propane		skin	Mouse	Sensitising		
Conclusion/Summar	у		I			
Skin	Skin : There are no data available on the mixture itself.					
Respiratory	Respiratory : There are no data available on the mixture itself.					
Mutagenicity						

Conclusion/Summary : There are no data available on the mixture itself. <u>Carcinogenicity</u>

: There are no data available on the mixture itself.

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IGMASHIELD 420 BASE RE	ED BROWN				
ECTION 11: Toxico	ological information	tion			
Conclusion/Summary Teratogenicity	: There are no data	available on the mixture	e itself.		
Conclusion/Summary	: There are no data	available on the mixture	e itself.		
Product/ing	gredient name	Category	Route of exposure	Target organs	
Information on likely routes of exposure	: Not available.				
Potential acute health effe	<u>cts</u>				
Inhalation	: No known significa	ant effects or critical haz	ards.		
Ingestion	: Corrosive to the di	gestive tract. Causes b	urns.		
Skin contact	: Causes skin irritati	on. Defatting to the skir	n. May cause an alle	ergic skin reaction.	
Eye contact	: Causes serious ey	e damage.			
<u>Symptoms related to the p</u>	hysical, chemical and	toxicological characte	eristics		
Inhalation	: No specific data.				
Ingestion	: Adverse symptoms stomach pains	s may include the follow	ing:		
Skin contact Eye contact	pain or irritation redness dryness cracking blistering may occu	s may include the follow ur s may include the follow			
	pain watering redness				
Delayed and immediate eff	ects as well as chroni	c effects from short ar	nd long-term expos	<u>ure</u>	
Short term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	s : Not available.				
Long term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	S: Not available.				
Potential chronic health ef	fects				
Not available.					
Conclusion/Summary	: Not available.				
General	: May cause damag repeated contact c	e to organs through pro an defat the skin and le severe allergic reaction	ad to irritation, crack	ing and/or dermatitis.	
Carcinogenicity	: No known significa	ant effects or critical haz	ards.		
Mutagenicity	: No known significa	ant effects or critical haz	ards.		
Reproductive toxicity	: No known significa	ant effects or critical haz	ards.		
Other information	: Not available.				

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SECTION 11: Toxicological information

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
øis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> <i>magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
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	-
Phenol, 2-nonyl-, branched	Acute LC50 0.017 mg/l	Fish - <i>Pleuronectes</i> americanus	96 hours

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum	
ethylbenzene	-	79 % - Readily - 10 day	/S	-	-	
Conclusion/Summary : There are no data available on the mixture itself.						
Product/ingredient name	Aquatic half-life	Photo	olysis	Biodegradability		
bis-[4-(2,3-epoxipropoxi)phen xylene ethylbenzene	yl]propane		- -		Not readily Readily Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
4-nonylphenol, branched	5.4	251.19	Low
2-methylpropan-1-ol	1	-	Low
ethylbenzene	3.6	79.43	Low

12.4 Mobility in soil

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

Mobility

: Not available.

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SECTION 12: Ecological information

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	: The classification of the product may meet the criteria for a hazardous waste.

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	taken when ha Empty contair residues may Do not cut, we	and its container must be disposed of in a safe way. Care should be andling emptied containers that have not been cleaned or rinsed out. hers or liners may retain some product residues. Vapour from product create a highly flammable or explosive atmosphere inside the container. eld or grind used containers unless they have been cleaned thoroughly oid dispersal of spilt material and runoff and contact with soil, waterways, wers.	

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
		English (GB) United Arab E	mirates 14/17

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SECTION 14: Transport information

14.4 Packing group	Ш	111	
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Kis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

Additional information

ADR/RID	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special 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	

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	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

Code : 000001200007 Date of issue/Date of revision : 4 April 2024 SIGMASHIELD 420 BASE RED BROWN SECTION 15: Regulatory information Amox XVII-Rostrictions : Not applicable. Annox XVII-Rostrictions : Not applicable. . . on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles . . Other national and international regulations. Explosive precursors : Rot applicable. . Ozone depleting substances (1005/2009/EU) Not listed . . . SECTION 16: Other information // Fit applicable. . . . SECTION 16: Other information that has changed from previously issued version. Seconyms : ATE - Acute Toxicity Estimate acronyms . <th>Conforms to Regulation (EC 2020/878</th> <th>C) No. 1907/2006 (REAC</th> <th>H), Annex II, as amended by Commissio</th> <th>on Regulation (EU)</th>	Conforms to Regulation (EC 2020/878	C) No. 1907/2006 (REAC	H), Annex II, as amended by Commissio	on Regulation (EU)
SECTION 15: Regulatory information Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other national and intermational regulations. Explosive precursors : Not applicable. Ozone depleting substances (1005/2009/EU) Not listed. SECTION 16: Other information ************************************	Code : 00000120000)7	Date of issue/Date of revision	: 4 April 2024
Annex XVII - Restrictions : Not applicable. on the manufacture, pilacing on the market and use of certain dangerous substances, mixtures and articles Other national and international regulations. Explosive precursors : Not applicable. Other national and international regulations. Explosive precursors : No Chemical Safety Assessment has been carried out. assessment : ATE = Acute Toxicity Estimate Clicates information that has changed from previously issued version. Abbreviations and acronyms : ATE = Acute Toxicity Estimate coronyms : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statements : H225 Full toxt of abbreviated H : H225 Fighty flammable liquid and vapour. H226 Fighty flammable liquid and vapour. H226 Fighty flammable regulation. H236 Fighty flammable fight and vapour. H236 Fighty flammable fight and vapour. H236 Fighty flammable fight and vapour. H236 Fighty flam vapoure danage. H33	SIGMASHIELD 420 BASE RI	ED BROWN		
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Explosive procursors : Not applicable: Ozone depleting substances (1005/2009/EU) Not listed. 15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out. SECTION 16: Other information Imicates information that has changed from previously issued version. Abbreviations and acronyms : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 127/2/2008] 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 H226 Flammable liquid and vapour. H326 Flammable installowed. H314 Causes skin initiation. H315 Causes skin initiation. H316 Causes serious eye dimate. H317 May cause registratory fination. H338 Harmful if swallowed. H3316 Suspected of damaging fertility of the unborn child. H3317 May cause registratory fination. H333 Harmful if swallowed yee initation. H334 Causes stratous eye initation. H335 Causes damage to organs through prolonged or repeated exposure. </td <td>on the manufacture, placing on the market and use of certain dangerous substances,</td> <td> Not applicable. </td> <td></td> <td></td>	on the manufacture, placing on the market and use of certain dangerous substances,	 Not applicable. 		
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assessment SECTION 16: Other information Indicates information that 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 : H225 Highly flammable liquid and vapour. H322 Flammable liquid and vapour. H324 Flammable liquid and vapour. H326 Flammable liquid and vapour. H336 Causes serious eve damage. H311 Causes serious eve damage. H312 Causes serious eve damage. H319 Causes damage to organs through prolonged or repeated exposure. H330 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory trat.	Ozone depleting substan	••		
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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 Highly flammable liquid and vapour. H322 H324 Harmful if swallowed. H3302 H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes serious eye irritation. H318 Causes serious eye irritation. H319 Causes damage to organs through prolonged or repeated exposure. H336 May cause damage to organs through prolonged or repeated exposure. H311 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H319 Very toxic to aquatic life with long lasting effects. H319 Causes damage to organs through prolonged or repeated exposure. H320 </td <td>SECTION 16: Other</td> <td>information</td> <td></td> <td></td>	SECTION 16: Other	information		
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SECTION 16: Other information			
	Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
	Skin Sens. 1	SKIN SENSITISATION - Category 1	
	STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEAT EXPOSURE - Category 1	ΓED
	STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEA EXPOSURE - Category 2	ΓED
	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
<u>History</u>			
Date of issue/ Date of revision	: 4 April 2024		
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Prepared by	: EHS		
Version	: 1.01		
Disclaimor			

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