SAFETY DATA SHEET

United Arab Emirates

Date of issue/Date of revision

: 17 October 2024

Version

: 4

SECTION 1: Identific undertaking	cation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMASHIELD 420 BASE BLACK
Product code	: 00191018
Other means of identificat Not available.	ion
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier o	f the safety data sheet
Sigma Paint Saudi Arabia Lto 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]

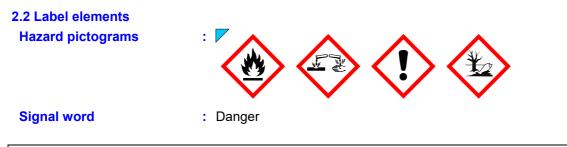
 Flam. Liq. 3, H226

 Skin Irrit. 2, H315

Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 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.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	
2020/878	

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SECTION 2: Hazards	identification		
Hazard statements	 Mammable 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	: ₩ear 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.		
Storage	: Not applicable.		
Disposal	 pispose of contents and container in accordance with all local, regional, national and international regulations. p280, P210, P273, P391, P305 + P351 + P338, P501 		
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	: P rolonged or repeated contact may dry skin and cause irritation.		
	May cause endocrine disruption.		

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Feaction 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	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
xylene	REACH #:	≥5.0 - ≤10	Flam. Liq. 3, H226	ATE [Dermal] = 1700	[1] [2]
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SECTION 3: Composition/information on ingredients

I -				1	1
	01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7		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	mg/kg ATE [Inhalation (vapours)] = 11 mg/l	
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - ≤3.0	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]
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 Aquatic Chronic 1, H410	ATE [Oral] = 580 mg/ kg M [Acute] = 10 M [Chronic] = 10	[1] [3]
1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene	REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2	<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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance with endocrine disrupting properties

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 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.

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SECTION 4: First aid	d 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. 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 symptor	ns and effects, both acute and delayed
Potential acute health effe	<u>cts</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>otoms</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: Firefighting measures

SECTION 5. Thenghung measures		
: Use dry chemical, CO ₂ , water spray (fog) or foam.		
: Do not use water jet.		
from the substance or mixture		
: Mammable 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.		

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SECTION 5: Firefighting measures

Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

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

Stop leak it without risk. Move containers from spin 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: See Section 1 for emergency contact information.sections: See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

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SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

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

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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

	purs] Absorbed through skin. STEL 15 minutes: 442 mg/m³.
	STEL 15 minutes: 100 ppm. TWA 8 hours: 221 mg/m ³ .
2-methylpropan-1-ol	TWA 8 hours: 50 ppm. Ministry of Labor (France, 9/2023) TWA 8 hours: 50 ppm.
ethylbenzene	TWA 8 hours: 150 mg/m ³ . Ministry of Labor (France, 9/2023) Absorbed through skin.
ettyidenzene	TWA 8 hours: 20 ppm. TWA 8 hours: 88.4 mg/m ³ . STEL 15 minutes: 442 mg/m ³ . STEL 15 minutes: 100 ppm.
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Product/ingredient name Exposure limit values iffystalline silica, respirable powder (>10 microns) Abu Dhabi - OSHAD - Occupational air quality threshold limit values (Intied Arab Emirates, 7/2016) [quartz silica crystalline-a-quartz and cristobalite] A2. TWA 8 hours: 0.025 mg/m². Form: mesured as respirable fraction of the aerosol. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [silica] TWA 8 hours: 30 mg². Form: respirable particulate. TWA 8 hours: 30 mg². Form: respirable particulate. TWA 8 hours: 0.025 mg/m². Form: insepirable particulate. TWA 8 hours: 0.015 mg/m². Form: hespirable fraction. Talc , not containing asbestiform fibres TWA 8 hours: 0.025 mg/m². Form: Respirable fraction. Talc , not containing asbestiform fibres TWA 8 hours: 0.025 mg/m². Form: Respirable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [A4. TWA 8 hours: 20 gm/m². Form: Respirable fraction. Yelne ACGHI TLV (United States, 7/2023) [Silica, crystalline] A2. TWA 8 hours: 2 mg/m². xylene ACGHI TLV (United States, 7/2023) [A4. TWA 8 hours: 2 mg/m². xylene ACGHI TLV (United States, 7/2023) [A4. TWA 8 hours: 100 ppm. TWA 8 hours: 20 pm. TWA 8 hours: 50	SIGMASHIELD 420 BASE BLACK	
values (United Arab Emirates, 7/2016) [quartz silica crystalline-or- quartz and cristobalited J.2. TWA 8 hours: 0.025 mg/m². Form: measured as respirable fraction of the aerosol. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [silica] TWA 8 hours: 30 mg/m². Form: respirable particulate. TWA 8 hours: 30 mg/m². Form: respirable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2013) [Silica, crystalline] A2. TWA 8 hours: 30 mg/m². Form: Respirable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2013) [Silica, crystalline] A2. TWA 8 hours: 20 mg/m². Form: Respirable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [A4. TWA 8 hours: 2 mg/m². Form: Respirable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [Aylene (o, m & p isomers)] A. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [Aylene (o, m & p isomers)] A. X= TEL 15 minutes 150 mg/m². X= TWA 8 hours: 20 mg/m². X= TEL 15 minutes 100 mg/m². X= TH A 8 hours: 20 pg/m². X= TEL 15 minutes: 651 mg/m². X= TWA 8 hours: 20 pg/m². X= TH A 8 hours: 20 pg/m². <tr< td=""><td>Product/ingredient name</td><td>Exposure limit values</td></tr<>	Product/ingredient name	Exposure limit values
values (United Arab Emirates, 7/2016) Ai. TWA 8 hours: 2 mg/m ³ . 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 8 hours: 2 mg/m ³ . ACGIH TLV (United States, 7/2023) AA. TWA 8 hours: 2 mg/m ³ . Form: Respirable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [xylene (o, m & p isomers)] A4. STEL 15 minutes: 150 ppm. TWA 8 hours: 434 mg/m ³ . STEL 15 minutes: 100 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) [xylene (all isomers)] STEL 15 minutes: 150 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) [xylene (all isomers)] STEL 15 minutes: 150 ppm. Cabinet Decree (12) of 2005 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) [xylene (all isomers)] STEL 15 minutes: 150 ppm. Cabinet Decree (12) of 2005 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) [xylene (all isomers)] STEL 15 minutes: 152 mg/m ³ .	✓ystalline silica, respirable powder (>10 microns)	 values (United Arab Emirates, 7/2016) [quartz silica crystalline–α-quartz and cristobalite] A2. TWA 8 hours: 0.025 mg/m³. Form: measured as respirable fraction of the aerosol. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [silica] TWA 8 hours: 3 mg/m³. Form: respirable particulate. TWA 8 hours: 10 mg/m³. Form: inhalable particle. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 0.1 mg/m³. ACGIH TLV (United States, 7/2023) [Silica, crystalline] A2.
ethylbenzene Aues (United Arab Emirates, 7/2016) [xylene (o, m & p isomers)] A4. STEL 15 minutes: 651 mg/m ² . STEL 15 minutes: 150 ppm. TWA 8 hours: 434 mg/m ² . TWA 8 hours: 100 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) [xylene (all isomers)] STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 100 ppm. ACGIH TLV (United States, 7/2023) [p-xylene and mixtures containing p-xylene] A4. Ototoxicant. TWA 8 hours: 20 ppm. A bu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) 2-methylpropan-1-ol Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) TWA 8 hours: 152 mg/m ³ . TWA 8 hours: 50 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 152 mg/m ³ . TWA 8 hours: 50 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 152 mg/m ³ . TWA 8 hours: 50 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 50 ppm. TWA 8 hours: 50 ppm.	Talc , not containing asbestiform fibres	 values (United Arab Emirates, 7/2016) A4. TWA 8 hours: 2 mg/m³. 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 8 hours: 2 mg/m³. ACGIH TLV (United States, 7/2023) A4.
values (United Arab Emirates, 7/2016)TWA 8 hours: 152 mg/m³.TWA 8 hours: 50 ppm.Cabinet Decree (12) of 2006 Regarding Regulation ConcerningProtection of Air from Pollution (United Arab Emirates, 5/2006)TWA 8 hours: 152 mg/m³.TWA 8 hours: 50 ppm.ACGIH TLV (United States, 7/2023)TWA 8 hours: 50 ppm.ACGIH TLV (United States, 7/2023)TWA 8 hours: 152 mg/m³.Abu Dhabi - OSHAD - Occupational air quality threshold limitvalues (United Arab Emirates, 7/2016) A3.STEL 15 minutes: 543 mg/m³.STEL 15 minutes: 125 ppm.TWA 8 hours: 100 ppm.TWA 8 hours: 434 mg/m³.	xylene	 values (United Arab Emirates, 7/2016) [xylene (o, m & p isomers)] A4. STEL 15 minutes: 651 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 434 mg/m³. TWA 8 hours: 100 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) [xylene (all isomers)] STEL 15 minutes: 150 ppm. TWA 8 hours: 434 mg/m³. STEL 15 minutes: 651 mg/m³. TWA 8 hours: 100 ppm. ACGIH TLV (United States, 7/2023) [p-xylene and mixtures containing p-xylene] A4. Ototoxicant.
values (United Arab Emirates, 7/2016) A3. STEL 15 minutes: 543 mg/m ³ . STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 434 mg/m ³ .	2-methylpropan-1-ol	 values (United Arab Emirates, 7/2016) TWA 8 hours: 152 mg/m³. TWA 8 hours: 50 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 152 mg/m³. TWA 8 hours: 50 ppm. ACGIH TLV (United States, 7/2023) TWA 8 hours: 50 ppm. TWA 8 hours: 152 mg/m³.
English (GR) United Arab Emirates 7/47	ethylbenzene	values (United Arab Emirates, 7/2016) A3. STEL 15 minutes: 543 mg/m ³ . STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 00191018 Date of issue/Date of revision : 17 October 2024 SIGMASHIELD 420 BASE BLACK Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) STEL 15 minutes: 125 ppm. TWA 8 hours: 434 mg/m³. STEL 15 minutes: 543 mg/m³. TWA 8 hours: 100 ppm. ACGIH TLV (United States, 7/2023) A3. Ototoxicant. TWA 8 hours: 20 ppm. ACGIH TLV (United States) 1,3-bis[12-hydroxy-octadecamide-N-methylene]benzene TWA: 3 mg/m³ (Respirable fraction). TWA: 10 mg/m³ (Total dust). xylene DOL BEI (South Africa, 3/2021) [xvlenes] BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: end of shift. ethylbenzene DOL BEI (South Africa, 3/2021) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift. : Reference should be made to monitoring standards, such as the following: European **Recommended monitoring** Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure procedures 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 : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or **Appropriate engineering** other engineering controls to keep worker exposure to airborne contaminants below any controls 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 measures **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** Chemical splash goggles and face shield. 21 **Skin protection** 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.

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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	
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

		2-methylpropan-1-ol	<12.00102	<1.6	DIN EN			
		_	mm Hg		Method	mm Hg	kPa	Method
Vapour pressure	1	Ingredient name		i	sure at 20°C	Vap		sure at 50°C
Partition coefficient: n-octanol/ water	:	Not applicable.						
cold water		Not soluble						
Media		Result						
Solubility(ies)	:							
Viscosity	:	Dynamic (room temp Kinematic (room temp Kinematic (40°C): >2	, nperaturé)					
рН	:	Not applicable. insol		-	0		`	,
Decomposition temperature	:	Stable under recomr	mended st	orage a	and handling c	onditions	(see Sec	tion 7).
		ponylphenol		370	698			
Auto-ignition temperature	1	Ingredient name		°C	°F		Method	
Flash point	:	Closed cup: 25°C				<u> </u>		
Upper/lower flammability or explosive limits	-	Not available.						
Flammability	1	Not determined. The	ere are no	data av	ailable on the	mixture i	tself.	
Initial boiling point and boiling range		>37.78°C						
Melting point/freezing point	4	Not determined.						
Odour threshold	:	Not available.						
Odour	:	Characteristic.	Characteristic.					
Colour	:	Various	arious					
Physical state	- ÷.	Liquid.						

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SECTION 9: Physica	al and chemic	al properties	
Explosive properties		ct itself is not explosive, but the formation of an lust with air is possible.	explosible mixture of
Oxidising properties	: Product do	es not present an oxidizing hazard.	
Particle characteristics			
Median particle size	: Not applica	ble.	

No additional information.

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
reaction product: bisphenol-A-	LD50 Dermal	Rabbit	>2 g/kg	-
(epichlorhydrin); epoxy resin (number			0.0	
average molecular weight \leq 700)				
c c <i>i</i>	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	-
1,3-bis[12-hydroxy-octadecamide-N-	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
methylene]-benzene	mists		_	

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
eaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number) average molecular weight ≤ 700)	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	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

: 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
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.
Specific target organ toxic	city (single exposure)

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene 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 : Not available.	

routes of exposure

Potential acute health effects

Inhalation

: No known significant effects or critical hazards.

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SECTION 11: Toxicol	ical information	
Ingestion	No known significant effects or critical hazards.	
Skin contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction	i.
Eye contact	Causes serious eye damage.	
Symptoms related to the ph	al, 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	
	as well as chronic effects from short and long-term exposure	
Short term exposure Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Long term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health effe		
Not available.		
Conclusion/Summary	Not available.	
General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking a dermatitis. Once sensitized, a severe allergic reaction may occur when subsequexposed 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.	

Frolonged 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.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
epoxy resin (number average molecular weight ≤ 700)	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
1,3-bis[12-hydroxy-octadecamide-N-methylene]- benzene	Acute LC50 >100 mg/l	Fish	96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

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

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

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

12.3 Bioaccumulative potential

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

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	<u>.</u>

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, waterway drains and sewers.		

SECTION 14: Transport information

	ADR/RID	IMDG	IATA	
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	
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SECTION 14: Transport information

14.4 Packing group					
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.		
Marine pollutant substances	Not applicable.	<pre>(reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)</pre>	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	4/19/2013
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

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SECTION 15: Regul	atory 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 interna	tional regulations.		
Explosive precursors	: Not applicable.		
Ozone depleting substand	<u>ces (1005/2009/EU)</u>		
Not listed.			
15.2 Chemical safety	: No Chemical Safety Asse	ssment has been carried out.	
assessment			
SECTION 16: Other	information		
	has changed from previously i	seued version	
Abbreviations and	: ATE = Acute Toxicity Est		
acronyms		belling and Packaging Regulation [Reg	gulation (EC) No.
	1272/2008]		,
	DNEL = Derived No Effect		
	EUH statement = CLP-sp PNEC = Predicted No Eff		
	RRN = REACH Registrat		
Full text of abbreviated H		ble liquid and vapour.	
statements	H226 Flammable liqu	id and vapour.	
	H302 Harmful if swall		
	H304 May be fatal if s H312 Harmful in cont	swallowed and enters airways.	
		skin burns and eye damage.	
	H315 Causes skin irri	itation.	
	,	allergic skin reaction.	
	H318 Causes serious H319 Causes serious		
	H332 Harmful if inhal		
	H335 May cause resp	piratory irritation.	
		wsiness or dizziness.	ada a tha contactor de la
		amaging fertility. Suspected of damage to organs through prolonged or	
	H400 Very toxic to aq		
		uatic life with long lasting effects.	
		c life with long lasting effects.	
		atic life with long lasting effects. g lasting harmful effects to aquatic life	3
Full text of classifications	: Acute Tox. 4	ACUTE TOXICITY - Category 4	
[CLP/GHS]	Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATION	C HAZARD - Category 1
- •	Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUAT	IC HAZARD - Category
	Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUAT	
	Aquatic Chronic 3 Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT	
	Aqualle Chronic 4 Asp. Tox. 1	ASPIRATION HAZARD - Category	
	Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRF	RITATION - Category 1
	Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRF	
	Flam. Liq. 2	FLAMMABLE LIQUIDS - Category	
	Flam Lig 3	ELAMMARIELIOLIDE Cotogony	3
	Flam. Liq. 3 Repr. 2	FLAMMABLE LIQUIDS - Category REPRODUCTIVE TOXICITY - Cat	
	Flam. Liq. 3 Repr. 2 Skin Corr. 1B	FLAMMABLE LIQUIDS - Category REPRODUCTIVE TOXICITY - Cat SKIN CORROSION/IRRITATION -	tegory 2

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU))
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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 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
Date of issue/ Date of revision	: 17 October 2024	
Date of previous issue	: 25 June 2021	
Prepared by	: EHS	
Version	: 4	
Diacloimar		

<u>Disclaimer</u>

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