SAFETY DATA SHEET

Date of issue/Date of revision

: 3 October 2024

Version

: 5



pPg

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

1.1 Product identifier	
Product name	: SIGMASHIELD 880 BASE REDBROWN
Product code	: 00345230
Other means of identification Not available.	tion
1.2 Relevant identified uses	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	of the safety data sheet
Sigma Paints Egypt Villa#8. street 279	

Sigma Paints Egypt Villa#8, street 279	
New Maadi, Cairo	
Egypt	
Tel: 00202 516 223 797	
Fax: 00202 516 38 04	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com

1.4 Emergency telephone : +20 2 6840902 number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 3, H412 The product is clearified as hererdown according to Degulation (EC) 127(

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

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

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

2.2 Label elements Hazard pictograms :

Signal word

: Warning



 Code
 <th::00345230</th>
 Date of issue/Date of revision
 : 3 October 2024

SIGMASHIELD 880 BASE REDBROWN

SECTION 2: Hazards identification

SECTION 2. Hazarus	
Hazard statements	 Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and 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	: IF exposed or concerned: Get medical advice or attention.
Storage	: Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P202, P280, P210, P273, P308 + P313, P501
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	<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	Phis mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.
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				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
ቓís-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - ≤22	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	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312	ATE [Dermal] = 1700 mg/kg	[1] [2]
		English	(GB)	Egypt	2/16

Code : 00345230 SIGMASHIELD 880 BASE R	EDBROWN	Da	ate of issue/Date of revisi	on : 3 October 2	2024
SECTION 3: Compo	sition/informat	ion on ir	ngredients		
	EC: 215-535-7 CAS: 1330-20-7		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 [Inhalation (vapours)] = 11 mg/l	
Epoxy Resin (700 <mw <=1100)</mw 	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
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] [3]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
2,3-epoxypropyl neodecanoate	REACH #: 01-2119431597-33 EC: 247-979-2 CAS: 26761-45-5	≥0.10 - ≤2.1	Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411	-	[1]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7	≥1.0 - ≤5.0	Acute Tox. 4, H332 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413	ATE [Inhalation (dusts and mists)] = 3.56 mg/l	[1] [2]
			See Section 16 for the full text of the H		

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.

statements declared

above.

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 meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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.
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.

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

Code	: 00345230	Date of issue/Date of revision	: 3 October 2024
SIGMASHIEL	D 880 BASE REDBROWN		

SECTION 4: First aid 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. 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

effects
: Causes serious eye irritation.
: No known significant effects or critical hazards.
: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
: No known significant effects or critical hazards.
<u>symptoms</u>
: Adverse symptoms may include the following: pain or irritation watering redness
: No specific data.
: Adverse symptoms may include the following: irritation redness dryness cracking
: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

: Use dry chemical, CO ₂ , water spray (fog) or foam.
: Do not use water jet.
rom 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.
: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

Code	: 00345230	Date of issue/Date of revision	: 3 October 2024
SIGMASHIEI	LD 880 BASE REDBROWN		

SECTION 5: Firefighting measures

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. 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	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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

Code	: 00345230	Date of issue/Date of revision	: 3 October 2024
SIGMASHIEL	D 880 BASE REDBROWN		

SECTION 7: Handling and storage

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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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

Occupational exposure limits

Product/ingredient name	Exposure	limit values			
<mark>ቓ</mark> arium sulfate	ACGIH TLV (United States, 7/20	23)			
	TWA 8 hours: 5 mg/m ³ . Form: Ir	halable fraction.			
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 7/20	23) A4.			
	TWA 8 hours: 2 mg/m ³ . Form: R	espirable fraction.			
crystalline silica, respirable powder (>10 microns)	ACGIH TLV (United States, 7/20	23) [Silica, crystalline	e] A2.		
	TWA 8 hours: 0.025 mg/m ³ . For	m: Respirable fraction.			
diiron trioxide	Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum				
	limits for air pollutants inside w	/orkplaces (Egypt, 8/2	2011)		
	TWA 8 hours: 5 mg/m ³ (as Fe).				
xylene	Law Number 4 of 1994, Environ				
	limits for air pollutants inside w	/orkplaces (Egypt, 8/2	2011) [xylene		
	(o-, m-, p-isomers)]				
	STEL 15 minutes: 651 mg/m ³ .				
	STEL 15 minutes: 150 ppm.				
	TWA 8 hours: 434 mg/m ³ .				
·	English (GB)	Egypt	6/16		

			Date of issue/Date of r	evision	: 3 October 2024
GMASHIELD 880 BASE RED	DΒ	ROWN			
2-methylpropan-1-ol			TWA 8 hours: 100 ppm. Law Number 4 of 1994, Enviro limits for air pollutants inside TWA 8 hours: 152 mg/m ³ . TWA 8 hours: 50 ppm.		
12-hydroxyoctadecanoic acid with 1,3-benzenedimethanam hexamethylenediamine			ACGIH TLV (United States) TWA: 10 mg/m³. Form: Inhalab TWA: 3 mg/m³ (inhalable dust)		rable particle.
x ylene			DOL BEI (South Africa, 3/2021 BEI: 1.5 g/g creatinine, methylh end of shift.		n urine]. Sampling ti
Recommended monitoring procedures	:	Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	d be made to monitoring standard (Workplace atmospheres - Guid hemical agents for comparison w ean Standard EN 14042 (Workpla ise of procedures for the assessm) European Standard EN 482 (W the performance of procedures for ce to national guidance document ostances will also be required.	ance for the a ith limit values ce atmospher nent of exposu orkplace atmo or the measure	assessment of expose and measurement res - Guide for the ure to chemical and ospheres - General ement of chemical
.2 Exposure controls					
Appropriate engineering controls		other engineering recommended or vapour or dust co ventilation equipr	equate ventilation. Use process e g controls to keep worker exposur r statutory limits. The engineering oncentrations below any lower exp ment.	re to airborne g controls also	contaminants below need to keep gas,
Individual protection measur Hygiene measures		Wash hands, for eating, smoking a Appropriate tech Contaminated we contaminated clo	earms and face thoroughly after h and using the lavatory and at the o niques should be used to remove ork clothing should not be allowed othing before reusing. Ensure that se to the workstation location.	end of the wor potentially co l out of the wo	rking period. ntaminated clothing. vrkplace. Wash
Eye/face protection Skin protection	;	Chemical splash	goggles.		
Hand protection	:	worn at all times necessary. Cons during use that the noted that the tim glove manufactur protection time of frequently repeat (breakthrough tim When only brief of (breakthrough tim The user must ch product is the mo as included in the	nt, impervious gloves complying when handling chemical products sidering the parameters specified he gloves are still retaining their puthe to breakthrough for any glove researcher in the case of mixtures, con f the gloves cannot be accurately red contact may occur, a glove with the greater than 480 minutes accord contact is expected, a glove with a ne greater than 30 minutes accord neck that the final choice of type of bost appropriate and takes into acc e user's risk assessment.	s if a risk asset by the glove n rotective proper naterial may b isisting of seve estimated. W th a protection ording to EN 37 ding to EN 374 of glove select	ssment indicates this manufacturer, check erties. It should be be different for different eral substances, the /hen prolonged or a class of 6 74) is recommended ass of 2 or higher 4) is recommended. ed for handling this
Gloves	:	butyl rubber			
Body protection	1	performed and th	ve equipment for the body should he risks involved and should be an	proved by a s	specialist before
		static protective of should include an	duct. When there is a risk of ignit clothing. For the greatest protecti- nti-static overalls, boots and glove nformation on material and design	on from static s. Refer to Eu	discharges, clothing uropean Standard E

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878					
Code : 00345230	Date of issue/Date of revision : 3 October 2024				
SIGMASHIELD 880 BASE RE	DBROWN				
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

<u>Appearance</u> Physical state		Liquid.						
Colour	1	Brownish-red.						
Odour	2	Aromatic. [Slight]						
Odour threshold	1	Not available.						
Melting point/freezing point	1	Not determined.						
Initial boiling point and boiling range		>37.78°C						
Flammability	:	Not determined. The	ere are no	data ava	ailable on	the mixture	e itself.	
Upper/lower flammability or explosive limits	:	Not available.						
Flash point	:	Closed cup: 37°C						
Auto-ignition temperature	1	Ingredient name		°C	٩	F	Method	
		3-epoxypropyl neodec	anoate	276	52	8.8		
Decomposition temperature pH Viscosity	: :	Stable under recomm Not applicable. insol Øynamic (room temp Kinematic (room temp Kinematic (40°C): >2	uble in wa perature): nperature)	ter. Not ava	ilable.	ng conditior	ns (see Sec	tion 7).
Viscosity		> 100 s (ISO 6mm)	2111111/5					
Solubility(ies)	÷							
		Result						
Media								
Media cold water		Not soluble						
cold water Partition coefficient: n-octanol/	:	Not soluble						
	:	Not soluble Not applicable.	Vapou	ır Press	sure at 20	°C Va	pour pres	sure at 50°C
cold water Partition coefficient: n-octanol/ water		Not soluble	Vapou mm Hg		sure at 20 Method		pour press	sure at 50°C Method
cold water Partition coefficient: n-octanol/ water		Not soluble Not applicable.	-	kPa		d mm	<u> </u>	i
cold water Partition coefficient: n-octanol/ water Vapour pressure	:	Not soluble Not applicable.	mm Hg	kPa	Methoo DIN EN	d mm	<u> </u>	i
cold water Partition coefficient: n-octanol/ water Vapour pressure Relative density	:	Not soluble Not applicable. Ingredient name Image: The state of the	mm Hg <12.00102	kPa <1.6 ive, but	DIN EN 13016-2	d mm Hg	kPa	Method
cold water Partition coefficient: n-octanol/ water	:	Not soluble Not applicable. Ingredient name Ingredient name Ingredient name	mm Hg <12.00102	kPa <1.6 ive, but ble.	DIN EN 13016-2	d mm Hg	kPa	
cold water Partition coefficient: n-octanol/ water Vapour pressure Relative density Explosive properties	:	Not soluble Not applicable. Ingredient name Impredient name methylpropan-1-ol 1.71 The product itself is vapour or dust with a	mm Hg <12.00102	kPa <1.6 ive, but ble.	DIN EN 13016-2	d mm Hg	kPa	Method

Code<th::</th>:::<

SECTION 9: Physical and chemical properties

9.2 Other information

No additional information.

SECTION 10: Stability 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 nitrogen oxides sulfur oxides metal oxide/oxides					

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	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 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	-
2,3-epoxypropyl neodecanoate	LD50 Dermal	Rat	3800 mg/kg	-
	LD50 Oral	Rat	9.6 g/kg	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine	mists		-	
and hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

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

Irritation/Corrosion

Code : 00345230

SIGMASHIELD 880 BASE REDBROWN

Date of issue/Date of revision :

: 3 October 2024

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
s-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant Eyes - Redness of the	Rabbit Rabbit	- 0.4	24 hours 24 hours	-
	conjunctivae Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar Skin - Mild irritant	Rabbit Rabbit	0.8 -	4 hours 4 hours	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

Skin

: There are no data available on the mixture itself.

Eyes

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

Respiratory Sensitisation

Product/ingredient name	Route of exposure	Species	Result
s-[4-(2,3-epoxipropoxi)phenyl]propane	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 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
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs

Aspiration hazard

Produ	ict/ingredient name	Result	
xylene		ASPIRATION HAZARD - Catego	ry 1
Information on likely routes of exposure	: Not available.	I	
Potential acute health ef	<u>fects</u>		
Inhalation	: No known significant effe	ects or critical hazards.	
Ingestion	: No known significant effe	ects or critical hazards.	
	Eng	lish (GB) Egypt	10/16

 Code
 <th::00345230</th>
 Date of issue/Date of revision
 : 3 October 2024

 SIGMASHIELD 880 BASE REDBROWN

SECTION 11: Toxicological information

Skin contact	ises skin irritation. Defatting to the skin. May cause an allergic skir	i reaction.
Eye contact	ises serious eye irritation.	
Symptoms related to the ph	chemical and toxicological characteristics	
Inhalation	specific data.	
Ingestion	specific data.	
Skin contact	erse symptoms may include the following: ation ness ness cking	
Eye contact	erse symptoms may include the following: n or irritation ering ness	
Delayed and immediate effe	well as chronic effects from short and long-term exposure	
Short term exposure		
Potential immediate effects	available.	
Potential delayed effects	available.	
<u>Long term exposure</u>		
Potential immediate effects	available.	
Potential delayed effects	available.	
Potential chronic health effe		
Not available.		
Conclusion/Summary	available.	
General	longed or repeated contact can defat the skin and lead to irritation, matitis. Once sensitized, a severe allergic reaction may occur wher osed to very low levels.	
Carcinogenicity	known significant effects or critical hazards.	
Mutagenicity	pected of causing genetic defects.	
Reproductive toxicity	known significant effects or critical hazards.	
Other information	available.	
Brolongod or reported contac	ny alkin and acupa irritation. Sanding and grinding duate may be her	mful if inholod

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.

Code : 00345230 SIGMASHIELD 880 BASE REDBROWN Date of issue/Date of revision

: 3 October 2024

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
pís-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh	Daphnia - <i>daphnia</i>	48 hours
	water	magna	
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
	Acute EC50 4.8 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia</i> <i>magna (Water flea)</i>	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days

Conclusion/Summary :

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
reaction products with	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 29 days	-	-
Conclusion/Summary	: There are no data	a available on the mixture itself.		

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
s-[4-(2,3-epoxipropoxi)phenyl]propane	-	-	Not readily
xylene	-	-	Readily
2,3-epoxypropyl neodecanoate	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
x ylene	3.12	7.4 to 18.5	Low	
Phenol, methylstyrenated	3.627	-	Low	
2-methylpropan-1-ol	1	-	Low	
2,3-epoxypropyl neodecanoate	4.4	-	High	
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	High	

12.4 Mobility in soil

English (GB)	Egypt	12/16

Code : 00345230 Date of issue/Date of revision : 3 October 2024 SIGMASHIELD 880 BASE REDBROWN

SECTION 12: Ecological information

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

: Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
▶ís-[4-(2,3-epoxipropoxi) phenyl]propane	No	N/A	N/A	No	N/A	N/A	N/A
xylene	No	N/A	No	No	No	N/A	No
Époxy Resin (700 <mw <=1100)</mw 	No	N/A	N/A	No	N/A	N/A	N/A
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
2-methylpropan-1-ol	No	N/A	N/A	No	Ň/A	N/A	N/A
2,3-epoxypropyl neodecanoate	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Endocrine disrupting properties

Not available.

Container

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

15 01 06

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. 2

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 wher recycling is not feasible.	
Type of packaging	European waste catalogue (EWC)	

English (GB)	Egypt

13/16

mixed packaging

Code

: 00345230 SIGMASHIELD 880 BASE REDBROWN Date of issue/Date of revision

: 3 October 2024

SECTION 13: Disposal considerations

 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 contain Do not cut, weld or grind used containers unless they have been cleaned thorough internally. Avoid dispersal of spilt material and runoff and contact with soil, waterwardrains and sewers.
--

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	Ш	Ш	Ш
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.
Tunnel code	: (D/E)
IMDG	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
ΙΑΤΑ	: None identified.

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are user upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk	: Not applicable.
according to IMO	
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
₩₽́vB	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Candidate	D(2023) 8585-DC	1/23/2024

|--|

Code : 00345230		Date of issue/Date of revision	: 3 October 2024
SIGMASHIELD 880 BASE R	EDBROWN		
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			
Explosive precursors	: Not applicable.		
Ozone depleting substan Not listed.	<u>ces (1005/2009/EU)</u>		
not listed.			
15.2 Chemical safety assessment	: No Chemical Safety As	ssessment has been carried out.	
SECTION 16: Other	information		
Indicates information that	has changed from previous	ly issued version.	
Abbreviations and	: ATE = Acute Toxicity I	-	
acronyms	CLP = Classification, I	_abelling and Packaging Regulation [Reg	gulation (EC) No.
	1272/2008]	ffeetlevel	
	DNEL = Derived No E	P-specific Hazard statement	
	PNEC = Predicted No		
	RRN = REACH Regist	tration Number	
Full text of abbreviated H		liquid and vapour.	
statements		if swallowed and enters airways. ontact with skin.	
	H315 Causes skin		
		an allergic skin reaction.	
		ous eye damage. ous eye irritation.	
	H332 Harmful if in		
		espiratory irritation.	
		drowsiness or dizziness. of causing genetic defects.	
	•	damage to organs through prolonged or	repeated exposure.
		atic life with long lasting effects.	
		quatic life with long lasting effects. ong lasting harmful effects to aquatic life	
Full text of classifications	: Acute Tox. 4	ACUTE TOXICITY - Category 4	
[CLP/GHS]	Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUAT	IC HAZARD - Category
	Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUAT	
	Aquatic Chronic 4 Asp. Tox. 1	LONG-TERM (CHRONIC) AQUAT ASPIRATION HAZARD - Category	
	Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRF	
	Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRF	RITATION - Category 2
	Flam. Liq. 3	FLAMMABLE LIQUIDS - Category	
	Muta. 2 Skin Irrit. 2	GERM CELL MUTAGENICITY - C SKIN CORROSION/IRRITATION -	
	Skin Sens. 1	SKIN SENSITISATION - Category	1
	STOT RE 2	SPECIFIC TARGET ORGAN TOX	ICITY - REPEATED
	STOT SE 3	EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOX	ICITY - SINGLE
		EXPOSURE - Category 3	
<u>History</u> Date of issue/ Date of	: 3 October 2024		
Date UI 1550E/ Date UI	- 5 OCIODEI 2024		
revision			

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
Code : 00345230		Date of issue/Date of revision	: 3 October 2024	
SIGMASHIELD 880 BASE	REDBROWN			
SECTION 16: Othe	r information			
Date of previous issue	: 15 November 2022			
Prepared by	: EHS			
Version	: 5			

Version

Disclaimer

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