#### **Egypt**

## SAFETY DATA SHEET

Date of issue/Date of revision : 25 October 2024 **Version** 



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

1.1 Product identifier

**Product name** : SIGMASHIELD 880 GF BASE BLACK

: 000001196146 **Product code** 

Other means of identification

00468644; 00475829

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.

: Product is not intended, labelled or packaged for consumer use. **Uses advised against** 

1.3 Details of the supplier of the safety data sheet

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

Aquatic Chronic 3, H412

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

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

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

2.2 Label elements

**Hazard pictograms** 





Signal word : Warning

Code : 000001196146 Date of issue/Date of revision : 25 October 2024

SIGMASHIELD 880 GF BASE BLACK

### **SECTION 2: Hazards identification**

**Hazard statements** : Flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

Prevention : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to

the environment. Avoid breathing vapour.

**Response**: Take off contaminated clothing and wash it before reuse.

**Storage** : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

P280, P210, P273, P261, P362 + P364, P501

Supplemental label elements

ntal label : 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 requirements** 

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 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

phenyl]propane 01-21 EC: 2 CAS:	CH #: 119456619-26 216-823-5	≥10 - <25	Skin Irrit. 2, H315 Eye Irrit. 2, H319	Skin Irrit. 2, H315: C ≥	[1]
vylene RFA(	: 1675-54-3 x: 603-073-00-2		Skin Sens. 1, H317 Aquatic Chronic 2, H411	5% Eye Irrit. 2, H319: C ≥ 5%	
01-21	119488216-32 215-535-7	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]

English (GB) Egypt 2/16

Code : 000001196146 Date of issue/Date of revision : 25 October 2024
SIGMASHIELD 880 GF BASE BLACK

### **SECTION 3: Composition/information on ingredients**

ozerien er compe			igi odionic		
			Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
Epoxy Resin (700 <mw <="1100)&lt;/td"><td>CAS: 25036-25-3</td><td>≥1.0 - ≤5.0</td><td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317</td><td>-</td><td>[1]</td></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]
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
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 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.

- [1] 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.

#### 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.

English (GB)	Egypt	3/16
g(-2)	-976-	<b>.</b>

Code : 000001196146 Date of issue/Date of revision : 25 October 2024

SIGMASHIELD 880 GF BASE BLACK

#### **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

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

**Ingestion**: 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**

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion** 

products

: Decomposition products may include the following materials:

carbon oxides nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

English (GB) Egypt 4/16

Code : 000001196146 Date of issue/Date of revision : 25 October 2024

SIGMASHIELD 880 GF BASE BLACK

## 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, 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. 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 nonemergency 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 noncombustible, 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

English (GB)	Egypt	5/16
	-97155	

Code : 000001196146 Date of issue/Date of revision : 25 October 2024

SIGMASHIELD 880 GF BASE BLACK

### **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. 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. 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

Exposure limit values
ACGIH TLV (United States, 7/2023) A4.
TWA 8 hours: 2 mg/m³. Form: Respirable fraction.
Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum
limits for air pollutants inside workplaces (Egypt, 8/2011) [xylene
(o-, m-, p-isomers)]
STEL 15 minutes: 651 mg/m³.
STEL 15 minutes: 150 ppm.
TWA 8 hours: 434 mg/m³.
TWA 8 hours: 100 ppm.
ACGIH TLV (United States, 7/2023)
TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.
Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum
limits for air pollutants inside workplaces (Egypt, 8/2011)
TWA 8 hours: 152 mg/m³.
TWA 8 hours: 50 ppm.
ACGIH TLV (United States)

English (GB) Egypt 6/16

Code : 000001196146 Date of issue/Date of revision : 25 October 2024 SIGMASHIELD 880 GF BASE BLACK TWA: 10 mg/m<sup>3</sup>. Form: Total dust. TWA: 3 mg/m<sup>3</sup>. Form: Respirable. TWA: 1. Form: Continuous filament glass fibres. TWA: 5 mg/m³ (Inhalable). Form: Continuous filament glass fibres. Law Number 4 of 1994, Environmental Law, Annex 8 - Maximum ethylbenzene limits for air pollutants inside workplaces (Egypt, 8/2011) STEL 15 minutes: 543 mg/m<sup>3</sup>. STEL 15 minutes: 125 ppm. TWA 8 hours: 434 mg/m<sup>3</sup>. TWA 8 hours: 100 ppm. **ACGIH TLV (United States)** 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and TWA: 10 mg/m<sup>3</sup>. Form: Inhalable particle. hexamethylenediamine TWA: 3 mg/m³ (inhalable dust). Form: Respirable particle.

xylene

#### DOL BEI (South Africa, 3/2021) [xylenes]

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.

## Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European 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

## 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 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 Skin protection

**Hand protection** 

- : Chemical splash goggles.
- : 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

English (GB) Egypt 7/16

Code : 000001196146 Date of issue/Date of revision : 25 October 2024

SIGMASHIELD 880 GF BASE BLACK

product is the most appropriate and takes into account the particular conditions of use,

as included in the user's risk assessment.

Gloves : butyl rubber

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before

handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection

**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

#### **Appearance**

Physical state : Liquid.
Colour : Black.

Odour : Aromatic. [Slight]
Odour threshold : Not available.

Melting point/freezing point : Not determined.

Initial boiling point and

boiling range

: >37.78°C

Flammability : Not determined. There are no data available on the mixture itself.

Upper/lower flammability or

explosive limits

Not available.

Flash point : Closed cup: 37°C

Auto-ignition temperature : Ingredient name

Ingredient name

°C

°F

Method

779

779

**Decomposition temperature** 

: Stable under recommended storage and handling conditions (see Section 7).

pH

: Not applicable. insoluble in water.

Viscosity

: Dynamic (room temperature): Not available. Kinematic (room temperature): >400 mm²/s

Kinematic (40°C): >21 mm<sup>2</sup>/s

Viscosity : > 100 s (ISO 6mm)

Solubility(ies)

Media	Result
cold water	Not soluble

Partition coefficient: n-octanol/ : Not applicable.

water

. Not applicable.

Vapour pressure :

English (GB) Egypt 8/16

Code : 000001196146 Date of issue/Date of revision : 25 October 2024

SIGMASHIELD 880 GF BASE BLACK

### **SECTION 9: Physical and chemical properties**

Ingradient neme	Vapour Pressure at 20°C		Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			

Relative density : 1.54

**Explosive properties** : The product itself is not explosive, but the formation of an explosible mixture of

vapour or dust with air is possible.

Oxidising properties

Particle characteristics

: Product does not present an oxidizing hazard.

**Median particle size** : Not applicable.

#### 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 halogenated compounds metal oxide/

oxides

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
s-[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>&gt;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	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Oral	Rat	17100 mg/kg	-

English (GB) Egypt 9/16

Code : 000001196146 Date of issue/Date of revision : 25 October 2024 SIGMASHIELD 880 GF BASE BLACK

## **SECTION 11: Toxicological information**

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	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine and hexamethylenediamine	mists		, and the second	
and nonamount of	LD50 Dermal	Rat	>2000 mg/kg	_
	LD50 Oral	Rat	>2000 mg/kg	-

Conclusion/Summary : There are no data

: There are no data available on the mixture itself.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the	Rabbit	0.4	24 hours	-
	conjunctivae				
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	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.
 Respiratory : There are no data available on the mixture itself.

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	skin	Mouse	Sensitising
	skin	Guinea pig	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	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

#### Specific target organ toxicity (repeated exposure)

English (GB) Egypt	10/16
--------------------	-------

Code : 000001196146 Date of issue/Date of revision : 25 October 2024

SIGMASHIELD 880 GF BASE BLACK

### **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2 Category 2		hearing organs lungs

#### **Aspiration hazard**

Product/ingredient name	Result
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely

routes of exposure

: Not available.

#### Potential acute health effects

Inhalation : No known significant effects or critical hazards.Ingestion : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Eye contact** : Causes serious eye irritation.

#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.Ingestion : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects: Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently

exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

English (GB) Egypt 11/16

Code : 000001196146 Date of issue/Date of revision : 25 October 2024

SIGMASHIELD 880 GF BASE BLACK

## **SECTION 11: Toxicological information**

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
5   5   6   7   7   7   7   7   7   7   7   7	Acute LC50 1.8 mg/l Fresh	Daphnia - daphnia	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
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
12-hydroxyoctadecanoic acid, reaction products with	Acute EC50 >100 mg/l	Algae -	72 hours
1,3-benzenedimethanamine and	_	Pseudokirchneriella	
hexamethylenediamine		subcapitata	
		(microalgae)	
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia</i>	48 hours
		magna (Water flea)	
	Acute LC50 >100 mg/l	Fish - Oncorhynchus	96 hours
		mykiss (rainbow	
		trout)	
	Chronic NOEC 100 mg/l	Algae -	72 hours
		Pseudokirchneriella	
		subcapitata	
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia</i>	21 days
		magna (Water flea)	

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

### 12.2 Persistence and degradability

Test	Result	Dose	Inoculum
- OECD 301D	79 % - Readily - 10 days 9 % - Not readily - 29 days	-	-
Ready Biodegradability - Closed Bottle	, ,		
	- OECD 301D Ready	- 79 % - Readily - 10 days OECD 301D 9 % - Not readily - 29 days Ready Biodegradability -	- 79 % - Readily - 10 days - OECD 301D 9 % - Not readily - 29 days - Ready Biodegradability -

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

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

English (GB) Egypt 12/16
--------------------------

SIGMASHIELD 880 GF BASE BLACK

## **SECTION 12: Ecological information**

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Phenol, methylstyrenated 2-methylpropan-1-ol oxirane, mono[(C12-14-alkyloxy)methyl] derivs. ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	3.12 3.627 1 3.77 3.6 >6	7.4 to 18.5 - - - - 79.43	Low Low Low Low High	

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
ofs-[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
Epoxy Resin (700 <mw <="1100)&lt;/td"><td>No</td><td>N/A</td><td>N/A</td><td>No</td><td>N/A</td><td>N/A</td><td>N/A</td></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	N/A	N/A	N/A
oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	No	N/A	N/A	No	N/A	N/A	N/A
ethylbenzene	No	N/A	No	Yes	No	N/A	No

#### 12.6 Endocrine disrupting properties

Not available.

#### 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)

English (GB)	Egypt	13/16
English (SD)	<b>-9</b> 37Pt	10/10

Code : 000001196146 Date of issue/Date of revision : 25 October 2024

SIGMASHIELD 880 GF BASE BLACK

### **SECTION 13: Disposal considerations**

Waste code	Waste designation
<b>0</b> 8 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

#### **Packaging**

**Methods of disposal** 

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

Type of packaging		European waste catalogue (EWC)
container	15 01 06	mixed packaging

#### **Special precautions**

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

## **SECTION 14: Transport information**

	ADR/RID	IMDG	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
14.4 Packing group	III	III	III
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)

: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. **IMDG** 

: None identified. IATA

user

14.6 Special precautions 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 in bulk according to IMO instruments

: Not applicable.

English (GB)	Egypt	14/16
--------------	-------	-------

Code : 000001196146 : 25 October 2024 Date of issue/Date of revision

SIGMASHIELD 880 GF BASE BLACK

## 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
	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Candidate	D(2023) 8585-DC	1/23/2024

**Annex XVII - Restrictions** : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other national and international regulations. **Explosive precursors** : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

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

statements

H225 Highly flammable liquid and vapour.

Flammable liquid and vapour. H226

May be fatal if swallowed and enters airways. H304

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eve irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

May cause drowsiness or dizziness. H336

May cause damage to organs through prolonged or repeated exposure. H373

Toxic to aquatic life with long lasting effects. H411

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

**Full text of classifications** 

[CLP/GHS]

English (GB) 15/16 **Egypt** 

Code : 000001196146 Date of issue/Date of revision : 25 October 2024
SIGMASHIELD 880 GF BASE BLACK

#### **SECTION 16: Other information**

: Acute Tox. 4 ACUTE TOXICITY - Category 4
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

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

**History** 

Date of issue/ Date of : 25 October 2024

revision

Date of previous issue : 22 April 2024

Prepared by : EHS Version : 4

#### **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.

English (GB) Egypt 16/16