# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

# SAFETY DATA SHEET

Date of issue/Date of revision

: 20 March 2025

**Version** : 1.01



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

1.1 Product identifier	
Product name	: SIGMASHIELD 1090 BASE GREY 1225
Product code	: 41090-C1225/14.2L
Product type	: Liquid.
Other means of identification	: 😡 197524
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 of the safety data sheet

 ₱ G Coatings Belgium BV/SRL Tweemontstraat 104
 B-2100 Deurne
 Belgium
 Telephone +32-33606311
 Fax +32-33606435

e-mail address of person : Product.Stewardship.EMEA@ppg.com responsible for this SDS

### 1.4 Emergency telephone number

Supplier

₱31 20 4075210

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 3, H412 The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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	: 41090-C1225/14.2L	Date of issue/Date of revision	: 20 March 2025
SIGMASHIE	LD 1090 BASE GREY 1225		

#### SECTION 2: Hazards identification **Hazard statements** : 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. Avoid release to the environment. Avoid breathing vapour. Wash thoroughly after handling. Response 1 Not applicable. : Not applicable. **Storage** Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. P202, P280, P273, P261, P264, P501 Supplemental label : Contains epoxy constituents. May produce an allergic reaction. elements **Annex XVII - Restrictions** : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements **Containers to be fitted** : Not applicable. with child-resistant fastenings : Not applicable. Tactile warning of danger 2.3 Other hazards Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do : None known. not result in classification

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

3.2 Mixtures :	Mixture			
Product/ingredient name	Identifiers	%	Classification	Туре
pís-[4-(2,3-epoxipropoxi)phenyl] propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - ≤21	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
2,3-epoxypropyl neodecanoate	REACH #: 01-2119431597-33 EC: 247-979-2 CAS: 26761-45-5	≥1.0 - ≤3.8	Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥1.0 - ≤5.0	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317	[1]
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	REACH #: 01-2119979085-27 EC: 309-629-8 CAS: 100545-48-0	≤0.30	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
English (GB)	United F	Kingdom (UK)	·	2/1

Code	: 41090-C1225/14.2L	Date of issue/Date of revision	: 20 March 2025

### SIGMASHIELD 1090 BASE GREY 1225

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

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

Type

[1] Substance classified with a health or environmental hazard

This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
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. May cause an allergic skin reaction.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/sympt	<u>15</u>
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
Ingestion	No specific data.
4.3 Indication of any immedia	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.

English (GB)	United Kingdom (UK)	3/14

Conforms to Regulation (EC) N	lo. 1907/20	06 (REACH), Annex II, as amended by UK REA	CH Regulation SI 2019/758	
Code : 41090-C1225 SIGMASHIELD 1090 BASE G		Date of issue/Date of revision	: 20 March 2025	
SECTION 5: Firefigh	ting me	asures		
5.1 Extinguishing media Suitable extinguishing	: Use ar	n extinguishing agent suitable for the surrounding	, fire	
media			,	
Unsuitable extinguishing media	: None k	known.		
5.2 Special hazards arising f	rom the su	ibstance or mixture		
Hazards from the substance or mixture	This m contarr	: In a fire or if heated, a pressure increase will occur and the container may burst. 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	carbon	nposition products may include the following mat n oxides oxide/oxides	erials:	
5.3 Advice for firefighters				
Special protective actions for fire-fighters	there is	tly isolate the scene by removing all persons from s a fire. No action shall be taken involving any p e training.		
Special protective equipment for fire-fighters	breathi mode. conforr	hters should wear appropriate protective equipn ing apparatus (SCBA) with a full face-piece oper Clothing for fire-fighters (including helmets, pro ming to British standard BS EN 469 will provide a cal incidents.	ated in positive pressure tective boots and gloves)	

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures		
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation i 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	со	ntainment and cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. 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. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		

Code	: 41090-C1225/14.2L	Date of issue/Date of revision	: 20 March 2025
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### SIGMASHIELD 1090 BASE GREY 1225

### **SECTION 6: Accidental release measures**

6.4 Refer	ence	to	other
sections			

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

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

### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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

### 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 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. 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.

information on hygiene measures.

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

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).

### **Occupational exposure limits**

No exposure limit value known.

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres -Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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.

### **DNELs/DMELs**

Code : 41090-C1225/14.2L

SIGMASHIELD 1090 BASE GREY 1225

Date of issue/Date of revision

: 20 March 2025

### **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
bis-[4-(2,3-epoxipropoxi) phenyl]propane			12.25 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	12.25 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	3.571 mg/kg bw/day	General	Systemic
		_		population	-
				[Consumers]	
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General	Systemic
				population	
				[Consumers]	
	DNEL	Long term Oral	0.75 mg/kg bw/day	General	Systemic
				population	
				[Consumers]	
	DNEL	Short term Oral	0.75 mg/kg bw/day	General	Systemic
				population	
				[Consumers]	
	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.75 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m <sup>3</sup>	Workers	Systemic
2,3-epoxypropyl	DNEL	Long term Dermal	2.5 mg/kg bw/day	General population	Systemic
neodecanoate					
	DNEL	Long term Inhalation	4 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	4.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5.88 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	2.5 mg/kg bw/day	General population	Systemic
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
	DNEL DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
		Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic Systemic
	DNEL DNEL	Short term Inhalation Short term Dermal	27 mg/m³ 40 mg/kg bw/day	General population Workers	Systemic Systemic
	DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	
Octadecanoic acid,	DNEL	Long term Inhalation	$0.055 \text{ mg/m}^3$		Systemic Local
12-hydroxy-, reaction			0.000 mg/m	General population	LUCAI
products with					
ethylenediamine					
	DNEL	Long term Inhalation	0.308 mg/m <sup>3</sup>	Workers	Local
			0.000 mg/m		Local

### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Fresh water sediment	0.006 mg/l 0.001 mg/l 0.996 mg/kg dwt 0.1 mg/kg dwt 0.196 mg/kg dwt 10 mg/l 11 mg/kg	Assessment Factors Assessment Factors Equilibrium Partitioning Equilibrium Partitioning Equilibrium Partitioning Assessment Factors Assessment Factors

### 8.2 Exposure controls

## Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Individual protection measures

English (GB)

United Kingdom (UK)

Code : 41090-C122 SIGMASHIELD 1090 BASE		Date of issue/Date of revision	: 20 March 2025
SECTION 8: Expos	ure controls/p	ersonal protection	
Hygiene measures	eating, smokin Appropriate te Contaminated	forearms and face thoroughly after handling and using the lavatory and at the end c echniques should be used to remove pote I work clothing should not be allowed out of clothing before reusing. Ensure that eyes	of the working period. ntially contaminated clothing. of the workplace. Wash

Eye/face protection: Chemical splash goggles.

**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. 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.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
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	: Grey.
Odour	: Characteristic.
Odour threshold	: Not available.
Melting point/freezing point	:
Initial boiling point and boiling range	: >37.78°C (>100°F)
Flammability (solid, gas)	: liquid
Upper/lower flammability or explosive limits	: Not available.
Flash point	: Closed cup: 170°C (338°F)

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Code : 41090-C1225/14.2L Date of issue/Date of revision : 20 Mar
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SIGMASHIELD 1090 BASE GREY 1225

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

Auto-ignition temperature	) :			
Ingredient name	°C	°F	Method	
2,3-epoxypropyl neodecanoate	276	528.8		
рН	: Not applicable	. insoluble in water.		
Viscosity	: Dynamic (roon Kinematic (roo	n temperature): Not av m temperature): Not av m temperature): Not a C): >21 mm²/s		
Solubility(ies)	:			

	Media	Result
	cold water	Not soluble
N	liscible with water : N	No.

# Partition coefficient: n-octanol/ : Not applicable. water

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### Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
-epoxypropyl neodecanoate	0.11251	0.015					
Relative density	: 2.05	5	1	·			
Explosive properties	: The product itself is not explosive, but the formation of an explosible mixture vapour or dust with air is possible.						
Dxidising properties Particle characteristics	: Pro	duct does n	ot present an oxic	lizing hazard.			
Median particle size	: Not	applicable.					

## **SECTION 10: Stability and reactivity**

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredie	ents.
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	ſ.
10.4 Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition p Refer to protective measures listed in sections 7 and 8.	roducts.
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 metal oxide/oxides	

Code : 41090-C1225/14.2L SIGMASHIELD 1090 BASE GREY 1225 Date of issue/Date of revision

: 20 March 2025

## **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	-
2,3-epoxypropyl neodecanoate	LD50 Dermal	Rat	3800 mg/kg	-
	LD50 Oral	Rat	9.6 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	LC50 Inhalation Dusts and mists	Rat	5.05 mg/l	4 hours
,	LD50 Oral	Rat	>2000 mg/kg	-

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

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMASHIELD 1090 BASE GREY 1225	65168.7	N/A	N/A	N/A	N/A
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
2,3-epoxypropyl neodecanoate	9600	3800	N/A	N/A	N/A
benzyl alcohol	1200	N/A	N/A	N/A	N/A
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	N/A	N/A	N/A	N/A	5.05

### 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 conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-

Conclusion/Summary<br/>Skin: Not available.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: There are no data available on the mixture itself.

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitising
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	skin	Guinea pig	Sensitising

### Conclusion/Summary

Skin

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

English (GB)

**United Kingdom (UK)** 

Code    : 41090-C1225/ SIGMASHIELD 1090 BASE G	Date of issue/Date of revision     : 20 March 2025       Comparison     : 20 March 2025
SECTION 11: Toxico	
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.
<b>Teratogenicity</b>	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxici	ity (single exposure)
Not available.	
Specific target organ toxici	ity (repeated exposure)
Not available.	
Aspiration hazard	
Not available.	
nformation on likely routes	: Not available.
of exposure	
Potential acute health effects	<u>S</u>
Eye contact	Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
	ysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:
-	pain or irritation
	pain or irritation watering
	watering redness
Inhalation	watering redness : No specific data.
Inhalation Skin contact	<ul> <li>watering redness</li> <li>No specific data.</li> <li>Adverse symptoms may include the following:</li> </ul>
	watering redness : No specific data.
	<ul> <li>watering redness</li> <li>No specific data.</li> <li>Adverse symptoms may include the following: irritation</li> </ul>
Skin contact Ingestion	<ul> <li>watering redness</li> <li>No specific data.</li> <li>Adverse symptoms may include the following: irritation redness</li> <li>No specific data.</li> </ul>
Skin contact Ingestion Delayed and immediate effect	<ul> <li>watering redness</li> <li>No specific data.</li> <li>Adverse symptoms may include the following: irritation redness</li> </ul>
Skin contact Ingestion Delayed and immediate effect Short term exposure	<ul> <li>watering redness</li> <li>No specific data.</li> <li>Adverse symptoms may include the following: irritation redness</li> <li>No specific data.</li> </ul>
Skin contact Ingestion <u>Delayed and immediate effect</u> <u>Short term exposure</u> Potential immediate	<ul> <li>watering redness</li> <li>No specific data.</li> <li>Adverse symptoms may include the following: irritation redness</li> <li>No specific data.</li> </ul>
Skin contact Ingestion <u>Delayed and immediate effect</u> <u>Short term exposure</u> Potential immediate effects	<ul> <li>watering redness</li> <li>No specific data.</li> <li>Adverse symptoms may include the following: irritation redness</li> <li>No specific data.</li> </ul> <b>cts as well as chronic effects from short and long-term exposure</b> : Not available.
Skin contact Ingestion Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects	<ul> <li>watering redness</li> <li>No specific data.</li> <li>Adverse symptoms may include the following: irritation redness</li> <li>No specific data.</li> </ul>
Skin contact Ingestion <u>Delayed and immediate effect</u> <u>Short term exposure</u> Potential immediate effects Potential delayed effects <u>Long term exposure</u>	<ul> <li>watering redness</li> <li>No specific data.</li> <li>Adverse symptoms may include the following: irritation redness</li> <li>No specific data.</li> <li>cts as well as chronic effects from short and long-term exposure</li> <li>Not available.</li> <li>Not available.</li> </ul>
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Skin contact Ingestion <u>Delayed and immediate effect</u> <u>Short term exposure</u> Potential immediate effects Potential delayed effects <u>Long term exposure</u> Potential immediate	<ul> <li>watering redness</li> <li>No specific data.</li> <li>Adverse symptoms may include the following: irritation redness</li> <li>No specific data.</li> <li>cts as well as chronic effects from short and long-term exposure</li> <li>Not available.</li> <li>Not available.</li> </ul>
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English (GB)	United Kingdom (UK)	10/1

### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

<mark>Code</mark> SIGMASH	: 41090-C1225/14.2L HIELD 1090 BASE GREY 1225	Date of issue/Date of revision	: 20 March 2025
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### SECTION 11: Toxicological information

**Mutagenicity** 

: Suspected of causing genetic defects.

**Reproductive toxicity** : No known significant effects or critical hazards.

#### **Other information** : Not available.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
	Acute EC50 4.8 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
, ,	Acute EC50 >10 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >10 mg/l	Fish - Oncorhynchus mykiss	96 hours

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Ready Biodegradability - Closed Bottle Test	22 % - 28 days	-	-

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
pís-[4-(2,3-epoxipropoxi) phenyl]propane 2,3-epoxypropyl neodecanoate	-	-	Not readily Not readily
benzyl alcohol Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	-	-	Readily Inherent

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,3-epoxypropyl neodecanoate benzyl alcohol Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	4.4 0.87 >5.86	-	High Low High

### 12.4 Mobility in soil

Code : 410	090-C1225/14.2L	Date of issue/Date of revision	: 20 March 2025
SIGMASHIELD 10	90 BASE GREY 1225		

## **SECTION 12: Ecological information**

Soil/water partition: Not available.coefficient: Not available.Mobility: Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

## **SECTION 13: Disposal considerations**

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

### 13.1 Waste treatment methods

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

### Hazardous waste

### Waste catalogue

Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
Packaging		
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	
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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.	

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	9006	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

English (GB)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

<mark>Code</mark> SIGMASHIE	: 41090-C1225/14.2L LD 1090 BASE GREY 1225	Date of issue/Date of revision	: 20 March 2025
SECTION	N 14: Transport inform	nation	
ADR/RID	: None identified.		
ADN	: The product is only regu	lated as a dangerous good when transported	in tank vessels.
IMDG	: None identified.		
IATA	: None identified.		
14.7 Transp according to instruments	οΙΜΟ	ble.	
	N 15: Regulatory infor	mation	
15.1 Safety,	health and environmental regu	ulations/legislation specific for the substa	nce or mixture
<u>UK (GB)/R</u>	EACH		
Annex XI	V - List of substances subject t	to authorisation	
<u>Annex X</u>			
None of t	the components are listed.		
<u>Substan</u>	ices of very high concern		

None of the components are listed.

**Explosive precursors** : Not applicable.

**Ozone depleting substances** 

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	Entry Number (REACH)
GMASHIELD 1090 BASE GREY 1225	3

Labelling

: Not applicable.

### Seveso Directive

This product is not controlled under the Seveso Directive.

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

✓ Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and
	Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
	No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Code	: 41090-C1225/14.2L	Date of issue/Date of revision	: 20 March 2025
SIGMASH	HELD 1090 BASE GREY 1225		

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

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 2, H341	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

<b>H</b> 302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Full text of classifications

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	
Eye Irrit. 2	SERIOUS EYÈ DAMAGE/EYE IRRITATION - Category 2	
Muta. 2	GERM CELL MUTAGENICITY - Category 2	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1B	SKIN SENSITISATION - Category 1B	
History		

Date of issue/ Date of revision	: 20 March 2025
Date of previous issue	: 9 November 2022
Prepared by	: EHS
Version	: 1.01

### <u>Disclaimer</u>

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.