# 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

: 21 October 2023

Version : 1.01



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

1.1 Product identifier	
Product name	: SIGMAZINC 108 HS BASE GREY
Product code	: 00364557
Product description	- 1
Product type	: Liquid.
Other means of identification	: Not available.
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

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

e-mail address of person : Prod

: 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

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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SECTION 2: Hazards identification			

Hazard statements		Flammable liquid and vapour.
Hazaru statements	1	Causes skin irritation.
		May cause an allergic skin reaction.
		Causes serious eye irritation.
		Very toxic 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	:	Collect spillage.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		P280, P210, P273, P261, P391, 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	en	<u>ts</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 according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

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

Mixture

# 3.2 Mixtures

#### 1 **Product/ingredient name Identifiers** % Classification Туре zínc powder zinc dust (stabilised) REACH #: ≥50 - ≤75 Aquatic Acute 1, H400 [1] 01-2119467174-37 (M=1) Aquatic Chronic 1, EC: 231-175-3 H410 (M=1) CAS: 7440-66-6 Index: 030-001-01-9 bis-[4-(2,3-epoxipropoxi)phenyl] REACH #: ≥5.0 - ≤10 Skin Irrit. 2, H315 [1] propane 01-2119456619-26 Eye Irrit. 2, H319 EC: 216-823-5 Skin Sens. 1, H317 CAS: 1675-54-3 Aquatic Chronic 2, Index: 603-073-00-2 H411 Aquatic Acute 1, H400 zinc oxide REACH #: ≥1.0 - ≤5.0 [1] 01-2119463881-32 (M=1) EC: 215-222-5 Aquatic Chronic 1, CAS: 1314-13-2 H410 (M=1) Index: 030-013-00-7 Hydrocarbons, C9, aromatics > REACH #: ≥1.0 - ≤5.0 Flam. Liq. 3, H226 [1] 0.1% cumene 01-2119455851-35 Carc. 1B, H350 2/17 English (GB) **United Kingdom (UK)**

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SECTION 3: Composit	ion/information on i	ngredients		
	EC: 918-668-5 CAS: 64742-95-6		STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	
Epoxy Resin (700 <mw<=1100)< 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>[1]</td></mw<=1100)<>	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 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	[1] [2]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
xylene Octadecanamide, N,	EC: 215-535-7 CAS: 1330-20-7 CAS: 55349-01-4	≥1.0 - ≤5.0 <1.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 Skin Sens. 1, H317	[1] [2]
N'-1,6-hexanediylbis[12-hydroxy-			Aquatic Chronic 4, H413 See Section 16 for the full text of the H statements declared	

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. <u>Type</u>

above.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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. 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.

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SECTION 4: First aid	measures
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 symptom	is and effects, both acute and delayed
Potential acute health effects	<u>3</u>
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/symp	<u>toms</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 dryness cracking
Ingestion	: No specific data.
4.3 Indication of any immedi	ate 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.
<b>SECTION 5: Firefigh</b>	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides sulfur oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions 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.

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# SECTION 5: Firefighting measures

Special protective<br/>equipment for fire-fighters: Fire-fightersbreathing app

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# **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. 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. Collect spillage.
6.3 Methods and material for	со	ntainment 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 (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.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

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

# 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not 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.

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# SECTION 7: Handling and storage

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**

## 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**

Product/ingredient name	Exposure limit values
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m <sup>3</sup> 15 minutes. STEL: 125 ppm 15 minutes. TWA: 441 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 560 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
xylene	XYLENES
procedures national guidance	Id be made to appropriate monitoring standards. Reference to be documents for methods for the determination of hazardous also be required.

#### **DNELs/DMELs**

English (GB)

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

Product/ingredient name	Туре	Exposure	Value	Population	Effect
zínc powder zinc dust stabilised)	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
ois-[4-(2,3-epoxipropoxi)	DNEL	Long term Inhalation	12.25 mg/m <sup>3</sup>	Workers	Systemic
phenyl]propane					-
	DNEL	Short term Inhalation	12.25 mg/m³	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 population	Systemic
				[Consumers]	
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General	Systemi
		ener term Bernar	o.or i inging buiday	population	Cyclonia
				[Consumers]	
		Long torm Oral	0.75 mg/kg bw/dov		Sustami
	DNEL	Long term Oral	0.75 mg/kg bw/day	General	Systemic
				population	
			<i></i>	[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	Systemi
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemi
	DNEL	Long term Dermal	0.75 mg/kg bw/day	Workers	Systemi
	DNEL				
		Long term Inhalation	0.87 mg/m <sup>3</sup>	General population	Systemi
	DNEL	Long term Inhalation	4.93 mg/m <sup>3</sup>	Workers	Systemi
inc oxide	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Local
	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemi
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemi
	DNEL	Long term Inhalation	5 mg/m <sup>3</sup>	Workers	Systemi
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemi
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemi
Hydrocarbons, C9, aromatics	DNEL	Long term Inhalation	150 mg/m <sup>3</sup>	Workers	Systemi
<ul> <li>0.1% cumene</li> </ul>				WORKEIS	-
	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemi
	DNEL	Long term Inhalation	32 mg/m³	General population	Systemi
	DNEL	Long term Dermal	11 mg/kg bw/day	General population	Systemi
	DNEL	Long term Oral	11 mg/kg bw/day	General population	Systemi
thylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemi
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	General population	Systemi
	DNEL			Workers	-
		Long term Inhalation	77 mg/m <sup>3</sup>		Systemi
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemi
	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemi
-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemi
, , , , , , , , , , , , , , , , , , ,	DNEL	Long term Inhalation	43.9 mg/m <sup>3</sup>	General population	Systemi
	DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemi
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemi
				Workers	-
	DNEL	Long term Inhalation	369 mg/m <sup>3</sup>		Systemi
	DNEL	Short term Inhalation	553.5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/m <sup>3</sup>	Workers	Systemi
ylene	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemi
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemi
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemi
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemi
	DNEL			Workers	-
	DNEL	Long term Inhalation Short term Inhalation	221 mg/m³ 442 mg/m³	Workers	Systemi Systemi
		LOUGH HELLI INDAIATION	1 44Z 1110/111°	VVOLKEIS	ovsiemi
			· · = · · · 9;····	Wentere	- )

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

DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	65.3 mg/m³	General population	Local
DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemic
DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
zinc powder zinc dust (stabilised)	Fresh water	20.6 µg/l	Sensitivity Distribution
	Marine water	6.1 µg/l	Sensitivity Distribution
	Sewage Treatment Plant	100 µg/l	Assessment Factors
	Fresh water sediment	118 mg/kg dwt	Sensitivity Distribution
	Marine water sediment	56.5 mg/kg dwt	Equilibrium Partitioning
	Soil	35.6 mg/kg dwt	Sensitivity Distribution
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Fresh water	0.006 mg/l	Assessment Factors
	Marine water	0.001 mg/l	Assessment Factors
	Fresh water sediment	0.996 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.1 mg/kg dwt	Equilibrium Partitioning
	Soil	0.196 mg/kg dwt	Equilibrium Partitioning
	Sewage Treatment Plant	10 mg/l	Assessment Factors
	Secondary Poisoning	11 mg/kg	Assessment Factors
zinc oxide	Fresh water	20.6 µg/l	Sensitivity Distribution
	Marine water	6.1 µg/l	Sensitivity Distribution
	Fresh water sediment	117 mg/kg dwt	Sensitivity Distribution
	Sewage Treatment Plant	52 µg/l	Assessment Factors
	Marine water sediment	56.5 mg/kg dwt	Assessment Factors
	Soil	35.6 mg/kg dwt	Sensitivity Distribution
ethylbenzene	Fresh water	0.1 mg/l	Assessment Factors
	Marine water	0.01 mg/l	Assessment Factors
	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	Secondary Poisoning	20 mg/kg	-
1-methoxy-2-propanol	Fresh water	10 mg/l	Assessment Factors
	Marine water	1 mg/l	Assessment Factors
	Sewage Treatment Plant		Assessment Factors
	Fresh water sediment	41.6 mg/kg	Equilibrium Partitioning
	Marine water sediment	4.17 mg/kg	Equilibrium Partitioning
	Soil	2.47 mg/kg	Equilibrium Partitioning
xylene	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Sewage Treatment Plant		-
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg	-

## **8.2 Exposure controls**

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	controls/personal protection	
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 bell any recommended or statutory limits. The engineering controls also need to keep g vapour or dust concentrations below any lower explosive limits. Use explosion-proor ventilation equipment.	ow  as,
Individual protection measu	en e	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye/face protection Skin protection	: Chemical splash goggles.	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should worn at all times when handling chemical products if a risk assessment indicates thi 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 u as included in the user's risk assessment. butyl rubber	ent d.
Body protection	: Personal protective equipment for the body should be selected based on the task be 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 an static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.	ti-
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 be 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 work are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complyin 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 particulat filter P3	ıg
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 equipmer 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

: Liquid.
: Grey.
: Characteristic.
: Not available.

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

Melting point/freezing point	: May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propane. Weighted average: -47.23°C (-53°F)					
Initial boiling point and boiling range	: >37.78°	: >37.78°C (>100°F)				
Flammability (solid, gas)	: liquid					
Upper/lower flammability or explosive limits	: Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)					
Flash point	: Closed cup: 38°C (100.4°F)					
Auto-ignition temperature						
Ingredient name		°C	°F	Method		
1-methoxy-2-propanol		270	518			

Decomposition temperature	:					
рН	:	Not app	licable.			
		Not app	licable. insolul	ole in water.		
Viscosity	:	Kinema	tic (40°C): >21	mm²/s		
Solubility(ies)	:					
Media		Resu	lt			
cold water		Not so	bluble			
Miscible with water	:	No.				 
Partition coefficient: n-octano water	1/:	Not app	licable.			
Vapour pressure	:					

#### Vapour Pressure at 20°C Vapour pressure at 50°C Method Ingredient name mm Hg kPa Method mm Hg kPa ethylbenzene 9.3 1.2 **Relative density** 2.92 Vapour density : Highest known value: 11.7 (Air = 1) (bis-[4-(2,3-epoxipropoxi)phenyl]propane). Weighted average: 7.44 (Air = 1) : The product itself is not explosive, but the formation of an explosible mixture of **Explosive properties** vapour or dust with air is possible. **Oxidising properties** : Product does not present an oxidizing hazard. **Particle characteristics** Median particle size : Not applicable.

# SECTION 10: Stability and reactivity

English (GB)	United Kingdom (UK) 10/17
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition produc Refer to protective measures listed in sections 7 and 8.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.2 Chemical stability	: The product is stable.
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

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

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# **SECTION 10: Stability and reactivity**

**10.6 Hazardous** decomposition products : Depending on conditions, decomposition products may include the following materials: carbon 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
zinc powder zinc dust	LC50 Inhalation Dusts and	Rat	>5.4 mg/l	4 hours
(stabilised)	mists		-	
. ,	LD50 Oral	Rat	>2000 mg/kg	-
bis-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Hydrocarbons, C9, aromatics > 0.1% cumene	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat - Female	3492 mg/kg	-
Epoxy Resin (700 <mw &lt;=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
,	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
,	LD50 Oral	Rat	4.3 g/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)
SIGMAZINC 108 HS BASE GREY	N/A	85724.9	N/A	329.8	N/A
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
Hydrocarbons, C9, aromatics > 0.1% cumene	3492	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
xylene	4300	1700	N/A	11	N/A

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
s-[4-(2,3-epoxipropoxi)	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	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Conclusion/Summary	: Not available.			·	
Skin	: There are no data available on the mixture itself.				

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# **SECTION 11: Toxicological information**

: 1	There are no data	available on the	e mixture itself.
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**Respiratory** : There are no data available on the mixture itself.

# **Sensitisation**

Eyes

Product/ingredient name	Route of exposure	Species	Result
ቓís-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitising
Conclusion/Summary	*	-	
Skin	: There are no da	ata available on the mixture itself	
Respiratory	: There are no da	ata available on the mixture itself	
Mutagenicity			
Conclusion/Summary	: There are no da	ata available on the mixture itself	
<b>Carcinogenicity</b>			
Conclusion/Summary	: There are no da	ata available on the mixture itself	-
Reproductive toxicity			
Conclusion/Summary	: There are no da	ata available on the mixture itself	
Teratogenicity			
<b>Conclusion/Summary</b>	:		
	There are no da	ata available on the mixture itself	

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

Product/ingredient name	Category	Route of exposure	Target organs
Hydrocarbons, C9, aromatics > 0.1% cumene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

## **Aspiration hazard**

Product/ingredient name	Result
Hydrocarbons, C9, aromatics > 0.1% cumene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1

Information on likely routes : Not available. of exposure

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.

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

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	-
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.

Delayed and immediate effec	ts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
<b>Conclusion/Summary</b>	:	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	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	1	No known significant effects or critical hazards.

# Other information

: Not available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Zinc powder zinc dust (stabilised)	Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.0727 mg/l Fresh water	Daphnia - <i>Daphnia Magna</i>	21 days
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
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
Hydrocarbons, C9, aromatics > 0.1% cumene	EC50 3.2 mg/l	Daphnia	48 hours
	LC50 9.2 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia - Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish - Goldfish	96 hours

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# **SECTION 12: Ecological information**

Conclusion/Summary

: Not available.

#### 12.2 Persistence and degradability

Test	Result		Dose	Inoculum
-	75 % - Readily - 28	days	-	-
-	79 % - Readily - 10	days	-	-
Conclusion/Summary : Not available.				
Aquatic half-lif	ie	Photoly	sis	Biodegradability
-		-		Not readily
-		-		Readily
-		-		Readily Readily
	- - : Not available Aquatic half-lif - -	- 75 % - Readily - 28 - 79 % - Readily - 10 : Not available. Aquatic half-life - -	-       75 % - Readily - 28 days         -       79 % - Readily - 10 days         : Not available.       Aquatic half-life         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -	-       75 % - Readily - 28 days       -         -       79 % - Readily - 10 days       -         : Not available.       -       -         Aquatic half-life       Photolysis         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -         -       -       -

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ethylbenzene	3.6	79.43	Low
1-methoxy-2-propanol	<1	-	Low
xylene	3.12	7.4 to 18.5	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: 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	: Yes.
Wasto cataloguo	

Waste catalogue

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	

English (GB)

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Methods of disposal	<ul> <li>The generation of waste should be avoided or minimised wherever possible. Was packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.</li> </ul>		
Type of packaging	Waste catalogue		
Container	15 01 06 mixed packaging		
pecial precautions	: This material and its container must be disposed of in a safe way. Care sho taken when handling emptied containers that have not been cleaned or rinse Empty containers or liners may retain some product residues. Vapour from residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been thoroughly internally. Avoid dispersal of spilt material and runoff and contac soil, waterways, drains and sewers.	ed out. product cleaned	

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	Ш	Ш	Ш	Ш
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Zinc powder - zinc dust (stabilized), bis-[4- (2,3-epoxipropoxi) phenyl]propane)	Not applicable.

# Additional information

ADR/RID Tunnel code	<ul> <li>The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.</li> <li>(D/E)</li> </ul>
ADN	<ul> <li>C&gt;&gt;</li> <li>The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.</li> </ul>
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special pre user	<b>ecautions for</b> : <b>Transport within user's premises:</b> 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 i according to IM instruments	

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# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

# UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

**Ozone depleting substances** 

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c E1

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate 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</li> </ul>
	PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

# Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

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# **SECTION 16: Other information**

<b>H</b> 225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

## Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) ĂQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
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
Carc. 1B	CARCINOGENICITY - Category 1B
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	• 21 October 2023

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Date of previous issue	: 7 November 2022
Prepared by	: EHS
Version	: 1.01

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