# SAFETY DATA SHEET

Date of issue/Date of revision

: 14 May 2024

: Product is not intended, labelled or packaged for consumer use.

**Version** : 1.03



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

1.1	Prod	luct ic	lentifier

Product name	: SIGMAZINC 109 HS BASE
Product code	: 000001020163
Product type	: Liquid.
Other means of identification	<b>: </b> Ø0218767; 00327181; 00328664; 00350336
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.

#### 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

Uses advised against

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

### 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 bazardous acco

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 : 000001020163	Date of issue/Date of revision	: 14 May 2024
SIGMAZINC 109 HS BASE		

Hazard statements	:	Flammable liquid and vapour.
	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	1	Collect spillage.
Storage	1	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	nen	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
.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**

3.2 Mixtures : M	lixture			
Product/ingredient name	Identifiers	%	Classification	Туре
zinc powder zinc dust (stabilised)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥75 - ≤90	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
bis-[4-(2,3-epoxipropoxi)phenyl] propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥1.0 - ≤5.0	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,	[1] [2]
English (GB)	United King	dom (UK)		2/16

Code	: 000001020163	Date of issue/Date of revision	: 14 May 2024
SIGMAZINC	109 HS BASE		

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

-				
			H412	
Hydrocarbons, C9, aromatics <	REACH #:	≥1.0 - ≤5.0	Flam. Liq. 3, H226	[1]
0.1% cumene	01-2119455851-35		STOT SE 3, H335	
	EC: 918-668-5		STOT SE 3, H336	
	CAS: 64742-95-6		Asp. Tox. 1, H304	
			Aquatic Chronic 2,	
			H411	
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>≥1.0 - ≤5.0</td><td>EUH066 Skip krit 2, H215</td><td>[4]</td></mw<=1100)<>	CAS: 25036-25-3	≥1.0 - ≤5.0	EUH066 Skip krit 2, H215	[4]
	CAS. 25050-25-3	21.0 - 25.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
			Skin Sens. 1, H317	
1-methoxy-2-propanol	REACH #:	≥1.0 - ≤5.0	Flam. Liq. 3, H226	[1] [2]
	01-2119457435-35		STOT SE 3, H336	1.11-1
	EC: 203-539-1			
	CAS: 107-98-2			
	Index: 603-064-00-3			
zinc oxide	REACH #:	≤1.0	Aquatic Acute 1, H400	[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			
			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. <u>Type</u>

[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	<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	: 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	1	Causes serious eye irritation.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	÷	No known significant effects or critical hazards.

Code	: 000001020163	Date of issue/Date of revision	: 14 May 2024	
SIGMAZINC	109 HS BASE			

# SECTION 4: First aid measures

Over-exposure signs/sy	rmptoms
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 imm	ediate medical attention and special treatment needed
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting 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 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 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 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.
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.

### **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 non-emergency personnel".				

English (GB)	United Kingdom (UK)	4/16

Code	: 000001020163	Date of issue/Date of revision	: 14 May 2024
SIGMAZINC <sup>·</sup>	109 HS BASE		

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

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

Code : 000001020163 SIGMAZINC 109 HS BASE Date of issue/Date of revision

: 14 May 2024

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

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

#### **Biological exposure indices**

Product/ingredient name	Exposure indices		
xylene	XYLENES		

Recommended monitoring	1	Reference should be made to appropriate monitoring standards. Reference to
procedures		national guidance documents for methods for the determination of hazardous
		substances will also be required.

#### DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
pís-[4-(2,3-epoxipropoxi) phenyl]propane	DNEL	Long term Inhalation	12.25 mg/m <sup>3</sup>	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	
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	
	DNEL	Long term Dermal	0.75 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m³	General population	
	DNEL	Long term Inhalation	4.93 mg/m <sup>3</sup>	Workers	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
<u> </u>					6/46

Code : 000001020163 SIGMAZINC 109 HS BASE

Date of issue/Date of revision

: 14 May 2024

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

	<u> </u>			
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	Local
DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
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	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	_			
DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
DNEL	Long term Dermal	11 mg/kg	General population	Systemic
DNEL	Long term Oral	11 mg/kg	General population	Systemic
DNEL	Long term Inhalation	32 mg/m <sup>3</sup>	General population	Systemic
DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
DNEL	Long term Inhalation	43.9 mg/m <sup>3</sup>	General population	Systemic
DNEL	Long term Dermal	78 mg/kg bw/day	General population	Systemic
DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	369 mg/m <sup>3</sup>	Workers	Systemic
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	Systemic
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELLong term DermalDNELLong term InhalationDNELLong term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELLong term DermalDNELLong term DermalDNELLong term OralDNELLong term OralDNELLong term InhalationDNELLong term OralDNELLong term DermalDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELShort term Inhalation	DNELLong term Dermal212 mg/kg bw/dayDNELLong term Inhalation221 mg/m³DNELLong term Inhalation260 mg/m³DNELShort term Inhalation260 mg/m³DNELShort term Inhalation260 mg/m³DNELShort term Inhalation442 mg/m³DNELShort term Inhalation442 mg/m³DNELShort term Inhalation442 mg/m³DNELShort term Inhalation442 mg/m³DNELLong term Dermal150 mg/kg bw/dayDNELLong term Oral11 mg/kgDNELLong term Oral32 mg/m³DNELLong term Inhalation32 mg/m³DNELLong term Oral33 mg/kg bw/dayDNELLong term Dermal78 mg/kg bw/dayDNELLong term Dermal183 mg/kg bw/dayDNELLong term Inhalation369 mg/m³DNELLong term Inhalation369 mg/m³DNELLong term Inhalation369 mg/m³	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL 

#### 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
xylene	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Sewage Treatment Plant	6.58 mg/l	-
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 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
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

#### 8.2 Exposure controls

Code : 000001020163 SIGMAZINC 109 HS BASE	Date of issue/Date of revision	: 14 May 2024	
SECTION 8: Exposure of	controls/personal protection		

-	re 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 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 meas	<u>ures</u>
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 <u>Skin protection</u>	: Chemical splash goggles.
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 i 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 differen 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 bein performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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 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 worker 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

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Grey.
Odour	: Aromatic.
Odour threshold	: Not available.

Code	: 000001020163	Date of issue/Date of revision	: 14 May 2024
SIGMAZINC	109 HS BASE		

# SECTION 9: Physical and chemical properties

Melting point/freezing point	<ul> <li>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: -45.73°C (-50.3°F)</li> </ul>						
Initial boiling point and boiling range	-	: >37.78°C (>100°F)					
Flammability (solid, gas) Upper/lower flammability or explosive limits	<ul> <li>liquid</li> <li>Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)</li> </ul>						
Flash point		d cup: 33	°C (91.4°F)				
Auto-ignition temperature	. 01036	u cup. 55	C (91.4 T)				
Ingredient name		°C	°F		lethod		
1-methoxy-2-propanol		270	518	•			
pH Viscosity Solubility(ies) Media	Not ap	natic (40°(	insoluble in wate C): >21 mm²/s	er.			
cold water	INOT	soluble					
Miscible with water Partition coefficient: n-octai water	: No. nol/ : Not ap	oplicable.					
Vapour pressure	:						
	Vap	our Pres	sure at 20°C	١	/apour pres	ssure at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
1-methoxy-2-propanol	8.5	1.1					
Relative density	: 3.22			·		I	
Vapour density			value: 11.7 (Air age: 7.53 (Air =		3-epoxiprop	oxi)phenyl]propane).	
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	: Produ	ct does n	ot present an ox	idizing hazard.			
Median particle size	: Not ap	oplicable.					

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	1	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.

English (GB)	United Kingdom (UK)	9/16

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

Code : 000001020163

decomposition products

Date of issue/Date of revision

: 14 May 2024

### SIGMAZINC 109 HS BASE

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

10.6 Hazardous

: Evolves hydrogen on contact with water. Depending on conditions, decomposition products may include the following materials: carbon 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)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Hydrocarbons, C9,	LD50 Dermal	Rabbit - Male,	>2000 mg/kg	-
aromatics < 0.1% cumene		Female		
	LD50 Oral	Rat	8400 mg/kg	-
Epoxy Resin (700 <mw &lt;=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 mg/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	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m <sup>3</sup>	4 hours
	mists		Ū	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 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)
SIGMAZINC 109 HS BASE	N/A	43240.1	N/A	279.8	N/A
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
xylene	4300	1700	N/A	11	N/A
Hydrocarbons, C9, aromatics < 0.1% cumene	8400	N/A	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A

#### 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	-	
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-	
				mg		
Conclusion/Summary	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						

Code	: 000001020163	Date of issue/Date of revision	: 14 May 2024
SIGMAZINC	109 HS BASE		

# **SECTION 11: Toxicological information**

	0		
Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitising
Conclusion/Summary			
Skin	: There are no da	ta available on the mixture itself	
Respiratory	: There are no da	ta available on the mixture itself	
Mutagenicity			
<b>Conclusion/Summary</b>	: There are no da	ta available on the mixture itself	
<b>Carcinogenicity</b>			
<b>Conclusion/Summary</b>	: There are no da	ta available on the mixture itself	
Reproductive toxicity			
<b>Conclusion/Summary</b>	: There are no da	ta available on the mixture itself	
Teratogenicity			
Conclusion/Summary	: There are no da	ta 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
Hydrocarbons, C9, aromatics < 0.1% cumene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects

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

Not available.

#### **Aspiration hazard**

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

#### Information on likely routes : Not available.

#### of exposure

#### Potential acute health effects

: Causes serious eye irritation.
: No known significant effects or critical hazards.
: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
: No known significant effects or critical hazards.

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

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.
English (GB)	United Kingdom (UK)

Code: 000001020163Date of issue/Date of revision: 14 May 2024SIGMAZINC 109 HS BASE

# **SECTION 11: Toxicological information**

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.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>s</u>
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	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	;	No known significant effects or critical hazards.
Other information	:	Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Result	Species	Exposure
Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
Acute EC50 354 µg/l Fresh water	Daphnia - Water flea - Daphnia	48 hours
Chronic EC10 6.3 µg/l	Daphnia - Water flea - Daphnia	21 days
Chronic LC10 185 µg/l Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> - Juvenile (Fledgling, Hatchling, Weanling)	30 days
Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
Chronic NOEC 0.3 mg/l	Daphnia	21 days
LC50 9.2 mg/l	Fish	96 hours
Acute LC50 23300 mg/l	Daphnia - Daphnia	48 hours
	Fish - Goldfish	96 hours
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
	Acute EC50 0.106 mg/l Fresh water Acute EC50 354 µg/l Fresh water Chronic EC10 6.3 µg/l Chronic LC10 185 µg/l Fresh water Acute LC50 1.8 mg/l Fresh water Chronic NOEC 0.3 mg/l LC50 9.2 mg/l Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water Acute EC50 0.17 mg/l Acute EC50 0.481 mg/l Fresh water	Acute EC50 0.106 mg/l Fresh waterAlgae - Pseudokirchneriella subcapitataAcute EC50 354 µg/l Fresh waterAlgae - Pseudokirchneriella subcapitataChronic EC10 6.3 µg/lDaphnia - Water flea - Daphnia magnaChronic LC10 185 µg/l Fresh waterDaphnia - Water flea - Daphnia magna - NeonateChronic LC10 185 µg/l Fresh waterFish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)Acute LC50 1.8 mg/l Fresh waterDaphnia - daphnia magnaChronic NOEC 0.3 mg/l LC50 9.2 mg/lDaphnia - Daphnia FishAcute LC50 23300 mg/l Acute EC50 0.17 mg/l Acute EC50 0.481 mg/l Fresh waterDaphnia - Daphnia Fish - Goldfish Algae Daphnia - Water flea - Daphnia magna - Neonate

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hydrocarbons, C9, aromatics < 0.1% cumene	-	78 % - 28 days	-	-
Conclusion/Summary	: Not available.			

Code	: 000001020163	Date of issue/Date of revision	: 14 May 2024
SIGMAZINC <sup>·</sup>	109 HS BASE		

## **SECTION 12: Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	-	Not readily
xylene Hydrocarbons, C9,	-	-	Readily Readily
aromatics < 0.1% cumene			

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
Hydrocarbons, C9,	3.7 to 4.5	10 to 2500	High
aromatics < 0.1% cumene			
1-methoxy-2-propanol	<1	-	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

<u>Product</u>	
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.
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.
Type of packaging	Waste catalogue

Container	15 01 06	mixed packaging

Code	: 000001020163	Date of issue/Date of revision	: 14 May 2024
SIGMAZINC	109 HS BASE		

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

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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
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#### soil, waterways, drains and sewers.

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	III	111	111	111
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))	Not applicable.

#### Additional information

ADR/RID	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
ADN	<ul> <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 $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ .
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

14.7 Transport in bulk	: Not available.
according to IMO	
instruments	

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

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.

Code	: 000001020163	Date of issue/Date of revision	: 14 May 2024
SIGMAZINC	109 HS BASE		

# SECTION 15: Regulatory information

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.

	5 I J
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

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

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.	
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.	
EUH066	Repeated exposure may cause skin dryness or cracking.	

Full text of classifications

Code : 000001020163	Date of issue/Date of revision	: 14 May 2024
SIGMAZINC 109 HS BASE		

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

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC 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
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - 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 SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>	
Date of issue/ Date of revision	: 14 May 2024
Date of previous issue	e : 3 April 2024
Bronorod by	

Prepared by : EHS Version : 1.03

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