SAFETY DATA SHEET

Date of issue/Date of revision : 16 July 2024 Version : 12.05 SECTION 1: Identification of the substance/mixture and of the company/ : SIGMAZINC 102 HS BASE GREY : 00277742

Other means of identification

Not available.

Product code

undertaking

1.1 Product identifier Product name

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 responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

: Product.Stewardship.EMEA@ppg.com

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture **Product definition** : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

1/20



Denmark

Code	: 00277742	Date of issue/Date of revision	: 16 July 2024	
SIGMAZIN	C 102 HS BASE GREY			

SECTION 2: Hazards identification

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

2

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

2.2 Label elements

Hazard pictograms



	· · · ·
Signal word	: Warning
Hazard statements	: Flammable liquid and vapour. 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
Hazardous ingredients	Epoxy Resin (700 <mw<=1100) reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)</mw<=1100)
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

not result in classification

Code : 00277742 **SIGMAZINC 102 HS BASE GREY** Date of issue/Date of revision

: 16 July 2024

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
zinc powder zinc dust (stabilised)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥50 - ≤75	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Epoxy Resin (700 <mw <=1100)</mw 	CAS: 25036-25-3	≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
xylene	REACH #: 01-2119488216-32 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, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Hydrocarbons, C9, aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	Carc. 1B, H350: C ≥ 10% EUH066: C ≥ 20%	[1]
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]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥1.0 - ≤5.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
			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.

Code : 00277742

Date of issue/Date of revision

: 16 July 2024

SIGMAZINC 102 HS BASE GREY

SECTION 3: Composition/information on ingredients

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <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	: 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.	
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

The moot important of	inpromo una onocio, soun acuto una aciajoa
Potential acute healt	h effects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	s/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any i	nmediate 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.

SIGMAZINC 102 HS BASE GREY		
Code : 00277742	Date of issue/Date of revision	: 16 July 2024

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising fr	om 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 halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	otective 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 f entering. Do not touch or walk through spilt material. Shut off all ignition sour flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Pro adequate ventilation. Wear appropriate respirator when ventilation is inadequate 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	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.

5/20

Code : 002777 SIGMAZINC 102 HS BA		Date of issue/Date of revision	: 16 July 2024
SECTION 6: Acc	idental release i	measures	
Large spill	explosion-pro sewers, wate treatment pla combustible, place in conta waste dispos	vithout risk. Move containers from spill area of equipment. Approach the release from r courses, basements or confined areas. No int or proceed as follows. Contain and colle absorbent material e.g. sand, earth, vermin ainer for disposal according to local regulat al contractor. Contaminated absorbent material e spilt product.	upwind. Prevent entry into Wash spillages into an effluent ect spillage with non- culite or diatomaceous earth and tions. Dispose of via a licensed

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.
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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 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.

Code: 00277742Date of issue/Date of revision: 16 July 2024

SIGMAZINC 102 HS BASE GREY

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values				
xylene	Working Environment Authority (Denmark, 2/2023). [xylen, alle				
	isomere] Absorbed through skin.				
	TWA: 109 mg/m ³ 8 hours.				
	TWA: 25 ppm 8 hours.				
	STEL: 442 mg/m ³ 15 minutes.				
	STEL: 100 ppm 15 minutes.				
1-methoxy-2-propanol	Working Environment Authority (Denmark, 2/2023). [1-methoxy-				
	2-propanol] Absorbed through skin.				
	TWA: 185 mg/m ³ 8 hours.				
	TWA: 50 ppm 8 hours.				
	STEL: 568 mg/m ³ 15 minutes.				
	STEL: 150 ppm 15 minutes.				

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	DNEL	Long term Inhalation	12.25 mg/m³	Workers	Systemic
, , , , , , , , , , , , , , , , , , ,	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 [Consumers]	Systemic
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.75 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Oral	0.75 mg/kg bw/day	General population [Consumers]	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m³	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/m³	Workers	Local
English (GB)			Denmark		7/20

Code : 00277742 SIGMAZINC 102 HS BASE GREY Date of issue/Date of revision

: 16 July 2024

SECTION 8: Exposure controls/personal protection

	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m³	Workers	Systemic
Hydrocarbons, C9, aromatics	DNEL	Long term Inhalation	150 mg/m ³	Workers	Systemic
> 0.1% cumene		_	-		-
	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	32 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	11 mg/kg bw/day	General population	Systemic
1-methoxy-2-propanol	DNEL	Long term Oral	33 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	43.9 mg/m³	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 ³	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/m³	Workers	Systemic

PNECs

Product/ingredient name	Туре	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
	-		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
reaction product: bisphenol-A-	-	Fresh water	0.006 mg/l	Assessment Factors
(epichlorhydrin); epoxy resin (number				
average molecular weight ≤ 700)				
	-		0.001 mg/l	Assessment Factors
	-	0	10 mg/l	Assessment Factors
	-	Fresh water sediment	0.996 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.1 mg/kg dwt	Equilibrium Partitioning
xylene	-	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-		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
	-		100 mg/l	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
	-		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

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

Code : 00277742 SIGMAZINC 102 HS BASE GR	REY	Date of issue/Date of revision : 16 July 2024
SECTION 8: Exposur	e c	ontrols/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 measu	ures	
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	1	Chemical splash goggles. Use eye protection according to EN 166.
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.
Gloves		butyl rubber
Body protection		Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	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.

Code	: 00277742	Date of issue/Date of revision	: 16 July 2024
SIGMAZINC	102 HS BASE GREY		

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance									
Physical state		Liquid.							
Colour		: Not available.							
Odour	1	: Aromatic.							
Odour threshold	1	Not available.							
Melting point/freezing point	1	May start to solidify	at the follo	wina te	mperature	e [.] <-6	0°C (<-7	76°F) This	s is hased c
menting point needing point	Ċ	data for the following Weighted average:	g ingredie	nt: Solve	ent naphtł				
Initial boiling point and boiling range	-	>37.78°C							
Flammability	:	Not available.							
Upper/lower flammability or explosive limits	-	Greatest known ran	ge: Lower	: 1.48%	Upper: 1	13.74%	% (1-me	thoxy-2-p	ropanol)
Flash point	1	Closed cup: 34°C							
Auto-ignition temperature	:								
		Ingredient name		°C	•	°F		Method	
		1-methoxy-2-propanol		270	5	518			
			<u> </u>					<u> </u>	
Decomposition temperature		Stable under recom		-	and handl	ing co	onditions	(see Sec	ction 7).
pH	- 1	Not applicable. insol		ater.					
Viscosity	1	Kinematic (40°C): >:	21 mm²/s						
Solubility(ies)	- 1								
Media		Result							
		Result Not soluble							
Media cold water Partition coefficient: n-octanol	I/ :	Not soluble							
Media cold water Partition coefficient: n-octanol water	I/ : :	Not soluble							
Media cold water Partition coefficient: n-octanol water	V : :	Not soluble	Vароц	ır Press	sure at 20	D.C	Vap	our press	sure at 50°
Media cold water Partition coefficient: n-octanol water		Not soluble Not applicable. Ingredient name	Vapou mm Hg	1	sure at 20 Metho		Vap mm Hg	our press	sure at 50° Method
Media cold water Partition coefficient: n-octanol water	I/ : :	Not soluble Not applicable.		1	1		mm	-	1
Media cold water Partition coefficient: n-octanol water Vapour pressure	:	Not soluble Not applicable. Ingredient name	mm Hg 8.5 e: 0.814 (1	kPa 1.1 I-metho	Metho	d	mm Hg	kPa	Method
Media cold water Partition coefficient: n-octanol water Vapour pressure	:	Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value	mm Hg 8.5 e: 0.814 (1	kPa 1.1 I-metho	Metho	d	mm Hg	kPa	Method
Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density	:	Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value 0.79compared with	mm Hg 8.5 e: 0.814 (1	kPa 1.1 I-metho	Metho	d	mm Hg	kPa	Method
Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Bulk density (g/cm³)	:	Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value 0.79compared with 2.17 2.74	mm Hg 8.5 e: 0.814 (1 butyl aceta	kPa 1.1 I-metho ate	Metho xy-2-prop	od oanol)	mm Hg Weight	kPa ed averag	ge:
Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Bulk density (g/cm³) Vapour density	:	Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value 0.79compared with 2.17 2.74 Highest known value	mm Hg 8.5 e: 0.814 (1 butyl aceta	kPa 1.1 I-metho ate	Metho xy-2-prop	od panol) Veigh	mm Hg Weight	kPa ed average: 3.48	Method ge: 3 (Air = 1)
Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Bulk density (g/cm³) Vapour density	:	Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value 0.79compared with 2.17 2.74 Highest known value The product itself is	mm Hg 8.5 e: 0.814 (1 butyl aceta e: 3.7 (Air not explos	kPa 1.1 I-metho ate T = 1) (x sive, but	Metho xy-2-prop	od panol) Veigh	mm Hg Weight	kPa ed average: 3.48	Method ge: 3 (Air = 1)
Media cold water Partition coefficient: n-octanol water Vapour pressure Evaporation rate Relative density Bulk density (g/cm³) Vapour density Explosive properties	:	Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value 0.79compared with 2.17 2.74 Highest known value The product itself is vapour or dust with	mm Hg 8.5 e: 0.814 (1 butyl aceta e: 3.7 (Air not explos air is poss	kPa 1.1 metho ate = 1) (x sive, but ible.	Metho xy-2-prop xylene). V t the form	od panol) Veigh	mm Hg Weight	kPa ed average: 3.48	Method ge: 3 (Air = 1)
Media	:	Not soluble Not applicable. Ingredient name 1-methoxy-2-propanol Highest known value 0.79compared with 2.17 2.74 Highest known value The product itself is	mm Hg 8.5 e: 0.814 (1 butyl aceta e: 3.7 (Air not explos air is poss	kPa 1.1 metho ate = 1) (x sive, but ible.	Metho xy-2-prop xylene). V t the form	od panol) Veigh	mm Hg Weight	kPa ed average: 3.48	Method ge: 3 (Air = 1)

Code	: 00277742	Date of issue/Date of revision	: 16 July 2024	
SIGMAZIN	IC 102 HS BASE GREY			

SECTION 9: Physical and chemical properties

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Evolves hydrogen on contact with water. Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
zínc powder zinc dust (stabilised)	LC50 Inhalation Dusts and	Rat	>5.4 mg/l	4 hours
	mists		_	
	LD50 Oral	Rat	>2000 mg/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
reaction product: bisphenol-A-	LD50 Dermal	Rabbit	>2 g/kg	-
(epichlorhydrin); epoxy resin (number				
average molecular weight ≤ 700)				
	LD50 Oral	Rat	>2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Hydrocarbons, C9, aromatics > 0.1%	LD50 Dermal	Rabbit	>3160 mg/kg	-
cumene				
	LD50 Oral	Rat -	3492 mg/kg	-
		Female		
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/m³	4 hours
	mists			
	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

Code	: 00277742	Date of issue/Date of revision	: 16 July 2024
SIGMAZINC	102 HS BASE GREY		

SECTION 11: Toxicological information

Route	ATE value	
Dermal	41249.43 mg/kg	
Inhalation (vapours)	266.91 mg/l	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
eaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Eyes Respiratory

Skin

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

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	skin	Mouse	Sensitising

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	ity (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

Not available.

Aspiration hazard

Product/ingredient name	Result	
xylene Hydrocarbons, C9, aromatics > 0.1% cumene	ASPIRATION HAZARD - Category ASPIRATION HAZARD - Category	
English (GB)	Denmark	12/20

ode : 00277742 IGMAZINC 102 HS BASE GR	Date of issue/Date of revision : 16 July 2024 REY
ECTION 11: Toxicol	logical information
Information on likely routes of exposure	: Not available.
Potential acute health effect	<u>ts</u>
Inhalation	 No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Symptoms related to the ph	vsical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	 Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	 Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	
Not available.	
Conclusion/Summary	: Not available.
General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or
General	dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

English (GB)

headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Code : 00277742 SIGMAZINC 102 HS BASE GREY Date of issue/Date of revision

: 16 July 2024

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
zínc powder zinc dust (stabilised)	Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 354 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Chronic EC10 6.3 µg/l	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	21 days
	Chronic LC10 185 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	30 days
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Hydrocarbons, C9, aromatics > 0.1% cumene	EC50 3.2 mg/l LC50 9.2 mg/l	Daphnia Fish	48 hours 96 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia Fish	48 hours 96 hours
zinc oxide	Acute EC50 0.17 mg/l Acute EC50 0.481 mg/l Fresh water Chronic NOEC 0.017 mg/l	Algae Daphnia - <i>Daphnia magna</i> - Neonate Algae	72 hours 48 hours 72 hours
	Fresh water	Луас	12 110015

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Feaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	OECD 301F	5 % - 28 days	-	-
Hydrocarbons, C9, aromatics > 0.1% cumene	-	75 % - Readily - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Péaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	-	-	Not readily
xylene Hydrocarbons, C9, aromatics > 0.1% cumene	-	-	Readily Readily

12.3 Bioaccumulative potential

Code	: 00277742	Date of issue/Date of revision	: 16 July 2024
SIGMAZINC	102 HS BASE GREY		

SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential	
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	2.64 to 3.78	31	Low	
xylene 1-methoxy-2-propanol	3.12 <1	7.4 to 18.5 -	Low 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 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

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

Hazardous waste

European waste catalogue (EWC)

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

Packaging

Methods of disposal

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

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

English (GB)	Denmark	15/20

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

Code	00277742	Date of issue/Date of revision	: 16 July 2024
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SIGMAZINC 102 HS BASE GREY

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID 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	111	III	III	III
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	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
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 prec user	autions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Maritime tra	nsport in : Not applicable.

14.7 Maritime transport in : Not applicable. **bulk according to IMO instruments**

Code	: 00277742	Date of issue/Date of revision	: 16 July 2024	
SIGMAZINC	102 HS BASE GREY			

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

_			
Category			
P5c E1			
National regulations			
Product registration	: PR-1296449		
Danish fire class	: II-1		
Executive Order No. 179	<u>95/2015</u>		
Ingredient name		Annex I Section A	Annex I Section B
ethylbenzene		Listed	-
AL-code	: 3-5	L	1

MAL-code

Protection based on MAL

: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/ protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

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

Code : 00277742 SIGMAZINC 102 HS BASE GREY Date of issue/Date of revision

: 16 July 2024

SECTION 15: Regulatory information

	MAL-code: 3-5 Application: When using scraper or knife, brush, roller etc. for pre- and post- treatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns.
	- Protective clothing must be worn.
	During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.
	- Air-supplied half mask, protective clothing and eye protection must be worn.
	When spraying in new* booths if the operator is outside the spray zone.
	- Air-supplied half mask and eye protection must be worn.
	When spraying in existing* spray booths, if the operator is outside the spray zone. During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone.
	- Air-supplied full mask and protective clothing must be worn.
	During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.
	- Air-supplied full mask, protective clothing and hood must be worn.
	Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.
	Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.
	Caution The regulations contain other stipulations in addition to the above.
	*See Regulations.
Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
List of undesirable substances	: Not listed
Carcinogenic waste	: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

English	(GB)
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Conforms to Regulation (EC) No.	1907/2006 (REACH), Annex II, as a	nended by Commission Regulation (EU)
2020/878		

Code	: 00277742	Date of issue/Date of revision	: 16 July 2024
SIGMAZINC	102 HS BASE GREY		

SECTION 15: Regulatory information

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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.
H350	May cause cancer.
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 [CLP/GHS]

Code : 00277742 SIGMAZINC 102 HS BASE GREY	Date of issue/Date of revision: 16 July 2024	
SECTION 16: Other information		
Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Asp. Tox. 1 Carc. 1B Eye Irrit. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1	ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 1B SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	

<u>HISTOLY</u>	
Date of issue/ Date of revision	: 16 July 2024
Date of previous issue	: 21 October 2023
Prepared by	: EHS
Version	: 12.05

Disclaimer

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