# **SAFETY DATA SHEET**

Date of issue/Date of revision

Version : 3.03

SECTION 1: Identif undertaking	ication of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMAZINC 100 BASE
Product code	: 00251796
Other means of identification	ation
Not available.	
1.2 Relevant identified use	es 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.
<b>1.3 Details of the supplier</b> PPG Coatings Belgium BV Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435	
e-mail address of person responsible for this SDS	: Product.Stewardship.EMEA@ppg.com
1.4 Emergency telephone	number
National advisory body/P	oison Centre
Telephone number	: Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

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

Product definition	: Mixture		
<b>Classification according t</b>	o 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 t	o Regulation (EC) 1272/2	008 as amended.

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

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.

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### 2.2 Label elements

Hazard pictograms



Signal word	: Warning
Hazard statements	<ul> <li>Flammable liquid and vapour.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>Very toxic to aquatic life with long lasting effects.</li> </ul>
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	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P261, P391, P501</li> </ul>
Hazardous ingredients	Epoxy Resin (700 <mw<=1100) Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-</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	<u>ents</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: 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.

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### **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
Znc powder zinc dust (stabilised)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥25 - ≤50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Epoxy Resin (700 <mw &lt;=1100)</mw 	CAS: 25036-25-3	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥5.0 - <10	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	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]
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]
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	<1.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/l EUH066: C ≥ 20%	[1] [2]
Octadecanamide, N, N'-1,6-hexanediylbis [12-hydroxy-	CAS: 55349-01-4	≤0.30	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1]
			See Section 16 for the full text of the H statements declared above.		
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### **SECTION 3: Composition/information on ingredients**

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.

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	: 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	<ul> <li>If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

Detential coute health offects	-
Potential acute health effects	
Eye contact	Causes serious eye irritation.
Inhalation	No known significant effects or critical hazards.
Skin contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/sympto	<u>ns</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any immediate	e medical attention and special treatment needed
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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SECTION 4: First aid	d measures
Specific treatments	: No specific treatment.
<b>SECTION 5: Firefigh</b>	iting 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 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 from entering. Do not touch or walk through spilt material. Shut off all ignition source flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Prov adequate ventilation. Wear appropriate respirator when ventilation is inadequate on appropriate personal protective equipment.	es. No ⁄ide
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any inform Section 8 on suitable and unsuitable materials. See also the information in "For emergency personnel".	
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, dra sewers. Inform the relevant authorities if the product has caused environmenta pollution (sewers, waterways, soil or air). Water polluting material. May be harr the environment if released in large quantities. Collect spillage.	l
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 explosion-proof equipment. Dilute with water and mop up if water-soluble. Alte or if water-insoluble, absorb with an inert dry material and place in an appropriate disposal container. Dispose of via a licensed waste disposal contractor.	rnatively,
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SECTION 6: Acc	idental release measures
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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

# 6.4 Reference to other<br/>sections: See Section 1 for emergency contact information.<br/>See Section 8 for information on appropriate personal protective equipment.<br/>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 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.

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### **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		
ethylbenzene	Working Environment Authority (Denmark, 2/2023). Absorbed through skin. Carcinogen. TWA: 217 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 434 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes.		
xylene	Working Environment Authority (Denmark, 2/2023). [Xylenes, all isomers] Absorbed through skin. TWA: 109 mg/m <sup>3</sup> 8 hours. TWA: 25 ppm 8 hours. STEL: 442 mg/m <sup>3</sup> 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 <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 568 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.		
4-methylpentan-2-one	Working Environment Authority (Denmark, 2/2023). Absorbed through skin. TWA: 83 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 208 mg/m <sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes.		

by inhala strategy applicati biologica requiren agents)	d EN 689 (Workplace atmospheres - Guidance for the assessment of exposure ation to chemical agents for comparison with limit values and measurement be European Standard EN 14042 (Workplace atmospheres - Guide for the on and use of procedures for the assessment of exposure to chemical and al agents) European Standard EN 482 (Workplace atmospheres - General ments for the performance of procedures for the measurement of chemical Reference to national guidance documents for methods for the determination dous substances will also be required.
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#### **DNELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
ethylbenzene	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
-	DMEL	Short term Inhalation	884 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m <sup>3</sup>	Workers	Local
xylene	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
-	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
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### SECTION 8: Exposure controls/personal protection

	DNEL	Long term Inhalation	221 mg/m³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m³	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
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/m³	Workers	Systemic
	DNEL	Short term Inhalation	553.5 mg/m³	Workers	Local
	DNEL	Short term Inhalation	553.5 mg/m³	Workers	Systemic
zinc oxide	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Local
	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
4-methylpentan-2-one	DNEL	Long term Dermal	4.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	11.8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	14.7 mg/m³	General population	Local
	DNEL	Long term Inhalation	14.7 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	83 mg/m³	Workers	Local
	DNEL	Long term Inhalation	83 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	155.2 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	155.2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	208 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	208 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	4.2 mg/kg bw/day	General population	Systemic
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#### **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
	-	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
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
-	-	Marine water	0.01 mg/l	Assessment Factors
	-	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	-	Secondary Poisoning	20 mg/kg	-
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	100 mg/l	Assessment Factors
	-	Fresh water sediment	41.6 mg/kg	Equilibrium Partitioning
	-	Marine water sediment	4.17 mg/kg	Equilibrium Partitioning
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Marine water

Soil

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	-	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				
4-methylpentan-2-one	-	Fresh water	0.6 mg/l	Assessment Factors				

Fresh water sediment

Marine water sediment

Sewage Treatment Plant 27.5 mg/l

0.06 mg/l

8.27 mg/kg

0.83 mg/kg

1.3 mg/kg

Assessment Factors

**Assessment Factors** 

Equilibrium Partitioning

Equilibrium Partitioning

Equilibrium Partitioning

8.2 Exposure controls		
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants belo any recommended or statutory limits. The engineering controls also need to keep ga vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.	W IS,
Individual protection meas	<u>95</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	: Chemical splash goggles. Use eye protection according to EN 166.	
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should I worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, chec 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 differe 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 us as included in the user's risk assessment.	nt
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 befor 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.

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Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

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

#### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>							
Physical state	:	Liquid.					
Colour	:	Not available.					
Odour	:	Aromatic.					
Odour threshold	:	: Not available.					
Melting point/freezing point		May start to solidify at the following temperature: -94.9°C (-138.8°F) This is based on data for the following ingredient: ethylbenzene. Weighted average: -95.13°C (-139.2°F)					
Initial boiling point and boiling range	-	>37.78°C					
Flammability	:	Not available.					
Upper/lower flammability or explosive limits	-	Greatest known range: L	ower: 1.48% Up	oper: 13.74%	(1-methoxy-2-propanol)		
Flash point	:	Closed cup: 23°C					
Auto-ignition temperature	1						
		Ingredient name	°C	°F	Method		
		1-methoxy-2-propanol	270	518			
Decomposition temperature	:	Stable under recommend	led storage and	handling con	ditions (see Section 7).		
becomposition temperature		: Not applicable. insoluble in water.					
	1	Not applicable. Insoluble	in water.				
pH Viscosity		Kinematic (40°C): >21 mi					
pH Viscosity		• •					
рН		• •					

### Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
ethylbenzene	9.30076	1.2				

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#### SECTION 9: Physical and chemical properties : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.81compared with **Evaporation rate** butyl acetate **Relative density** : 2.17 Vapour density : Highest known value: 3.7 (Air = 1) (ethylbenzene). Weighted average: 3.59 (Air = 1) **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** : Product does not present an oxidizing hazard. **Particle characteristics** Median particle size : Not applicable.

9.2 Other information

No additional information.

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

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: 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 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>&gt;2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m <sup>3</sup>	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
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# ECTION 11: Toxicological information

LD50 Oral	Rat	>5000 mg/kg	-
LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
LD50 Dermal	Rabbit	>5000 mg/kg	-
LD50 Oral	Rat	2.08 g/kg	-
	LD50 Oral LC50 Inhalation Vapour LD50 Dermal	LD50 Oral Rat LC50 Inhalation Vapour Rat LD50 Dermal Rabbit	LD50 OralRat>5000 mg/kgLC50 Inhalation VapourRat11 mg/lLD50 DermalRabbit>5000 mg/kg

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

### Acute toxicity estimates

Route	ATE value	
Dermal	26992.34 mg/kg	
Inhalation (vapours)	107.3 mg/l	

#### Irritation/Corrosion

Product/ingredient name		Result	Species	Score	Exposure	Observation
<b>x</b> ylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			•		•	•
Skin	: There are	no data available on the r	nixture itself			
Eyes	: There are	no data available on the r	nixture itself			
Respiratory	: There are	no data available on the r	nixture itself			
Sensitisation						
<b>Conclusion/Summary</b>						
Skin	: There are	e no data available on the	mixture itsel	f.		
Respiratory	: There are	e no data available on the	mixture itsel	f.		
Mutagenicity						
<b>Conclusion/Summary</b>	: There are	e no data available on the	mixture itsel	f.		
<b>Carcinogenicity</b>						
<b>Conclusion/Summary</b>	: There are	e no data available on the	mixture itsel	f.		
Reproductive toxicity						
<b>Conclusion/Summary</b>	: There are	e no data available on the	mixture itsel	f.		
Teratogenicity						
<b>Conclusion/Summary</b>	: There are	e no data available on the	mixture itsel	f.		

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3		Narcotic effects
4-methylpentan-2-one	Category 3		Narcotic effects

### Specific target organ toxicity (repeated exposure)

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

### **Aspiration hazard**

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

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SECTION 11: Toxico	logical information
Information on likely routes of exposure	: Not available.
Potential acute health effect	<u>cts</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 p	hysical, 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
	ects 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 eff	
Not available.	
Conclusion/Summary	: Not available.
General	
General	<ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/o dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
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.

Repeated exposure to high vapor concentrations may cause irritation. Sanding and grinding dusts may be narmitul inimated. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

#### 11.2 Information on other hazards

### **11.2.1 Endocrine disrupting properties**

Not available.

### **11.2.2 Other information**

Not available.

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### **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
zínc powder zinc dust (stabilised)	Acute EC50 0.106 mg/l	Algae -	72 hours
	Fresh water	Pseudokirchneriella subcapitata	
	Chronic EC10 6.3 µg/l	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene 4-methylpentan-2-one	- OECD 301F	79 % - Readily - 10 days 83 % - Readily - 28 days		-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethylbenzene	-	-	Readily
xylene	-	-	Readily
4-methylpentan-2-one	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethylbenzene	3.6	79.43	Low
xylene	3.12	7.4 to 18.5	Low
1-methoxy-2-propanol	<1	-	Low
4-methylpentan-2-one	1.9	-	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.

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### **SECTION 12: Ecological information**

### 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<br/>of this product, solutions and any by-products should at all times comply with the<br/>requirements of environmental protection and waste disposal legislation and any<br/>regional local authority requirements. Dispose of surplus and non-recyclable products<br/>via a licensed waste disposal contractor. Waste should not be disposed of untreated to<br/>the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

#### Hazardous waste : Yes. European waste catalogue (EWC)

Waste code	Waste designation           waste paint and varnish containing organic solvents or other hazardous substances		
08 01 11*			
ackaging			
Methods of disposal		on of waste should be avoided or minimised wherever possible. Waste nould be recycled. Incineration or landfill should only be considered wher of feasible.	
Type of packaging		European waste catalogue (EWC)	
Container	15 01 06	mixed packaging	

I his 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.

### 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	III	111		III
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14. Trar	nsport information		

14.5 Environmental	Yes.	Yes.	Yes.	Yes. The environmentally
hazards				hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Zinc powder - zinc dust (stabilized))	Not applicable.

### Additional information

		_	
	ADR/RID	1	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code : (D/E)		(D/E)	
, , , , , , , , , , , , , , , , , , , ,		The environmentally hazardous substance mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.	
IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.		The marine pollutant mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.	
	ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations.
	14.6 Special precauser	au	<b>Itions for</b> : <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
	14.7 Maritime trar bulk according to		• • • • • • • • • • • • • • • • • • • •

### instruments

### 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** 

: This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

#### Ozone depleting substances (1005/2009/EU)

Not listed.

### **Seveso Directive**

This product is controlled under the Seveso Directive.

#### **Danger criteria**

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

	Category	
	P5c	
	E1	
N	ational regulations	1
D	anish fire class : II-1	

#### Executive Order No. 1795/2015

Protection based on MAL

Ingredient name	Annex I Section A	Annex I Section B
Quartz (SiO2)	Listed	-
ethylbenzene	Listed	-

MAL-code

: 3-5

# : 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.

#### MAL-code: 3-5

**Application:** When using scraper or knife, brush, roller etc. for pre- and posttreatments 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

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booth.				
	- Air-supplied full mask, protective clothing and hood must be worn.			
	<b>Drying:</b> 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.			
	<b>Polishing:</b> 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.			
	<b>Caution</b> 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.			

## **15.2 Chemical safety** assessment

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: 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]

Denmark

#### 1907/2006 (REACH) latio 2) N . n .....

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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			
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H351	Suspected of causing cancer.		
H373	May cause damage to organs through prolonged or repeated		
	exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
H413	May cause long lasting harmful effects to aquatic life.		
EUH066	Repeated exposure may cause skin dryness or cracking.		
Full text of classifications [CLP/GHS]			
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 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Calegory T		
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3		
Asp. Tox. 1	ASPIRATION HAZARD - Category 1		
Carc. 2	CARCINOGENICITY - Category 2		
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2		
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2		
Flam. Liq. 2 Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 2		
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2		
Skin Sens. 1	SKIN SENSITISATION - Category 1		
	ONIN OLIVOTTOATION - Calegory I		

FLAMMABLE LIQUIDS - Category 2
FLAMMABLE LIQUIDS - Category 3
SKIN CORROSION/IRRITATION - Category 2
SKIN SENSITISATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE -
Category 2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
Category 3

<u>History</u>
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Date of issue/ Date of revision	: 26 April 2024
Date of previous issue	: 25 October 2023
Prepared by	: EHS
Version	: 3.03
Disclaimer	

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

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.