# SAFETY DATA SHEET

Date of issue/Date of revision

: 17 February 2024

: 18.15 Version

**Europe** 

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

**1.1 Product identifier** 

Product name	: SIGMAZINC 158 BINDER
Product code	: 00142716
Other means of identification	on
Not available.	

1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

#### 1.3 Details of the supplier of the safety data sheet

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

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

#### **1.4 Emergency telephone number**

#### **Supplier**

+31 20 4075210

## **SECTION 2: Hazards identification**

2.1 Classification of the	substance or mixture		
Product definition	: Mixture		
Classification accordin	ng to Regulation (EC) N	o. 1272/2008 [CLP/GH	<u>S]</u>
Flam. Liq. 2, H225			
Skin Irrit. 2, H315			
Eye Irrit. 2, H319			
Repr. 1B, H360FD			
STOT SE 3, H335			
STOT SE 3, H336			
STOT RE 2, H373			
The product is classified	as hazardous according	to Regulation (EC) 127	2/2008 as amended.

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

English (US)

Europe

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## **SECTION 2: Hazards identification**

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

#### 2.2 Label elements

Hazard	pictograms
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English (US)



Signal word	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor.
Response	: IF exposed or concerned: Get medical advice or attention.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
	P280, P210, P260, P308 + P313, P403 + P233, P501
Hazardous ingredients	: 1-methoxy-2-propanol xylene tetraethyl silicate crystalline silica, respirable powder (<10 microns) trimethyl borate
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to professional users.
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.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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## **SECTION 2: Hazards identification**

## **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
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
xylene	EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤21	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]
tetraethyl silicate	REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤3.7	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]
crystalline silica, respirable powder (<10 microns)	EC: 238-878-4 CAS: 14808-60-7	≥1.0 - ≤5.0	STOT RE 1, H372 (inhalation)	-	[1] [2]
methanol	REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≥0.10 - ≤2.2	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	ATE [Oral] = 100 mg/ kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l STOT SE 1, H370: C $\geq$ 10% STOT SE 2, H371: 3% $\leq$ C < 10%	[1] [2]
trimethyl borate	EC: 204-468-9 CAS: 121-43-7 Index: 005-005-00-1	<1.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Eye Irrit. 2, H319 Repr. 1B, H360FD (oral) STOT SE 1, H370 (optic nerve)	ATE [Dermal] = 1980 mg/kg	[1] [2]
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## **SECTION 3: Composition/information on ingredients**

See Section 16 for the full text of the H statements declared above.
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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 recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show this 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Potential acute health effect		
Eye contact	Causes serious eye irritation.	
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness or lizziness. May cause respiratory irritation.	
Skin contact	Causes skin irritation. Defatting to the skin.	
Ingestion	Can cause central nervous system (CNS) depression.	
Over-exposure signs/sympt		
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness	

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Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations	

4.5 indication of any initiediate 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.			

# SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	rom the substance or mixture
Hazards from the substance or mixture	: Highly flammable liquid and vapor. 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.
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.

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### SECTION 5: Firefighting measures

**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	tective 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized 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 spilled 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).
6.3 Methods and materials fo	r containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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 spilled product.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## **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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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

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

	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. Store locked up. Eliminate all ignition sources. Separate from oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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

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	
1-methoxy-2-propanol	EU OEL (Europe, 1/2022). Absorbed through skin.	
	STEL: 568 mg/m <sup>3</sup> 15 minutes.	
	STEL: 150 ppm 15 minutes.	
	TWA: 375 mg/m³ 8 hours.	
	TWA: 100 ppm 8 hours.	
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]	
	Absorbed through skin.	
	STEL: 442 mg/m <sup>3</sup> 15 minutes.	
	STEL: 100 ppm 15 minutes.	
	TWA: 221 mg/m³ 8 hours.	
	TWA: 50 ppm 8 hours.	
tetraethyl silicate	EU OEL (Europe, 1/2022).	
	TWA: 5 ppm 8 hours.	
	TWA: 44 mg/m <sup>3</sup> 8 hours.	
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.	
	STEL: 884 mg/m <sup>3</sup> 15 minutes.	
	STEL: 200 ppm 15 minutes.	
	TWA: 442 mg/m³ 8 hours.	
	TWA: 100 ppm 8 hours.	
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/2023). [Silica, crystalline]	
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable	
methanol	EU OEL (Europe, 1/2022). Absorbed through skin.	
	TWA: 260 mg/m³ 8 hours.	
	TWA: 200 ppm 8 hours.	
trimethyl borate	ACGIH TLV (United States).	
English (US)	Europe	7/18

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## SECTION 8: Exposure controls/personal protection

	STEL: 6 mg/m³ TWA: 2 mg/m³
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**

1-methoxy-2-propanol DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Inhalation T3 mg/kg bw/day General population Systemic DNEL Long term Inhalation T3 mg/kg bw/day General population Systemic DNEL Long term Inhalation 553.5 mg/m <sup>3</sup> Workers Systemic DNEL Long term Inhalation 553.5 mg/m <sup>3</sup> Workers Systemic DNEL Long term Inhalation 553.5 mg/m <sup>3</sup> Workers Systemic DNEL Long term Inhalation 65.3 mg/m <sup>3</sup> General population Systemic DNEL Long term Inhalation 65.3 mg/m <sup>3</sup> Workers Systemic DNEL Long term Inhalation 65.3 mg/m <sup>3</sup> Workers Systemic DNEL Long term Inhalation 65.3 mg/m <sup>3</sup> General population Systemic DNEL Long term Inhalation 212 mg/kg bw/day General population Systemic DNEL Long term Inhalation 221 mg/kg bw/day Workers Systemic DNEL Long term Inhalation 221 mg/m <sup>3</sup> Workers Systemic DNEL Long term Inhalation 221 mg/m <sup>3</sup> Workers Systemic DNEL Short term Inhalation 221 mg/m <sup>3</sup> Workers Systemic DNEL Short term Inhalation 221 mg/m <sup>3</sup> Workers Systemic DNEL Short term Inhalation 221 mg/m <sup>3</sup> Workers Systemic DNEL Short term Inhalation 221 mg/m <sup>3</sup> Workers Systemic DNEL Short term Inhalation 220 mg/m <sup>3</sup> General population Systemic DNEL Short term Inhalation 5.3 mg/m <sup>3</sup> General population Systemic DNEL Short term Inhalation 5.3 mg/m <sup>3</sup> General population Systemic DNEL Short term Inhalation 5.3 mg/m <sup>3</sup> General population Systemic DNEL Long term Dermal DNEL Short term Inhalation 5.3 mg/m <sup>3</sup> General population Systemic DNEL Long term Inhalation 5.3 mg/m <sup>3</sup> General population Systemic DNEL Long term Inhalation 5.3 mg/m <sup>3</sup> General population Systemic DNEL Long term Inhalation 5.3 mg/m <sup>3</sup> General population Systemic DNEL Long term Inhalation 442 mg/m <sup>3</sup> Workers Systemic DNEL Long term Inhalation 5.3 mg/m <sup>3</sup> General population Systemic DNEL Long term Inhalation 5.3 mg/m <sup>3</sup> General population Systemic DNEL Long term Inhalation 44 mg/m <sup>3</sup> Workers Systemic Systemic DNEL Long term Inhalation 44 mg/m <sup>3</sup> Workers Systemic Systemic DNEL Long term Inhalation 44 mg/m <sup>3</sup> Workers Systemic DNEL Long term Inhalation 77 mg/m <sup>3</sup>	Product/ingredient name	Туре	Exposure	Value	Population	Effects
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SECTION 8: Exposure controls/personal protection						
		DNEL	Short term Inhalation	26 mg/m <sup>3</sup>	General population Systemic	

		onon term initialation	20 mg/m		Oysternie
	DNEL	Long term Inhalation	26 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	130 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	130 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	130 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	130 mg/m³	Workers	Systemic
trimethyl borate	DNEL	Long term Inhalation	8.3 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	392 mg/kg bw/day	Workers	Systemic

### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
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
	-	Soil	2.47 mg/kg	Equilibrium Partitioning
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	-
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	-
methanol	-	Fresh water	20.8 mg/l	Assessment Factors
	-	Marine water	2.08 mg/l	Assessment Factors
	-	Sewage Treatment Plant	100 mg/l	Assessment Factors
	-	Fresh water sediment	77 mg/kg	Equilibrium Partitioning
	-	Marine water sediment	7.7 mg/kg	Equilibrium Partitioning
	-	Soil	100 mg/kg	Assessment Factors

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 below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	ires	
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. 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	:	

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<b>SECTION 8: Exposur</b>	e controls/personal 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	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: polyvinyl alcohol (PVA), Viton®, butyl rubber May be used: nitrile 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 vapor (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

	Europa dola	0
Initial boiling point and boiling range	: >37.78°C	
Melting point/freezing point	: May start to solidify at the following temperature: 0°C (32°F) This is based on dat for the following ingredient: water. Weighted average: -90.15°C (-130.3°F)	ta
Odor threshold	: Not available.	
Odor	: Characteristic.	
Color	: Colorless.	
Physical state	: Liquid.	
Appearance		

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SECTION 9: Physical and chemical properties						
Flammability	: Not available.					

Upper/lower flammability or explosive limits	Greatest known range: Lower: 6% Upper: 44% (methanol)		
Flash point	Closed cup: 16.5°C		
Auto-ignition temperature	270°C (518°F)		
Decomposition temperature	Stable under recommended storage and handling conditions (see Section 7).		
рН	lot applicable. insoluble in water.		
Viscosity	Kinematic (40°C): >21 mm²/s		
Solubility(ies)			
Media	Result		
cold water	Not soluble		

Partition coefficient: n-octanol/ : Not applicable.

2

### water

Vapor pressure

			Vapo	r Press	ure at 20°C	Vapor pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		methanol	126.96329	16.9				
Evaporation rate	:	Highest known value acetate	e: 2.1 (me	thanol)	Weighted ave	erage: 0.8	3compar	ed with buty
Relative density	:	1.18						
Vapor density	:	Highest known value: 7.22 (Air = 1) (tetraethyl silicate). Weighted average: 3.66 (Air = 1)						
Explosive properties	:	The product itself is vapor or dust with ai			t the formation	of an ex	plosible n	nixture of
Oxidizing properties	:	Product does not pro	esent an c	xidizing	j 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: oxidizing agents, strong alkalis, strong acids.

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

10.6 Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides 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
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
tetraethyl silicate	LC50 Inhalation Dusts and mists	Rat	10 to 16 mg/l	4 hours
	LD50 Dermal	Rabbit	5.878 g/kg	-
	LD50 Oral	Rat	6270 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
methanol	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
trimethyl borate	LD50 Dermal	Rabbit	1.98 g/kg	-
-	LD50 Oral	Rat	6.14 g/kg	-

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

#### Irritation/Corrosion

Product/ingredient name		Result	Species	Score	Exposure	Observation
xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary		I				
Skin	: There are	no data available on the r	mixture itself			
Eyes	: There are	no data available on the r	mixture itself			
Respiratory	: There are	no data available on the r	mixture itself			
Sensitization						
Conclusion/Summary						
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						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
<b>Carcinogenicity</b>						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Reproductive toxicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Teratogenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Specific target organ toxi	<u>city (single ex</u>	<u>oosure)</u>				

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# SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
1-methoxy-2-propanol	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
tetraethyl silicate	Category 3	-	Respiratory tract irritation
methanol	Category 1	-	-
trimethyl borate	Category 1	-	optic nerve

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

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-

#### **Aspiration hazard**

Produc	t/ingredient name	Result		
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		
Information on the likely routes of exposure	: Not available.			
Potential acute health effe	ects			
Inhalation	: Can cause central nervous system dizziness. May cause respiratory	n (CNS) depression. May cause drowsiness or irritation.		
Ingestion	: Can cause central nervous system	n (CNS) depression.		
Skin contact	: Causes skin irritation. Defatting to	the skin.		
Eye contact	: Causes serious eye irritation.			
Symptoms related to the p	ohysical, chemical and toxicological o	haracteristics		
Inhalation	: Adverse symptoms may include the respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations			
Ingestion	: Adverse symptoms may include th reduced fetal weight increase in fetal deaths skeletal malformations	ie following:		
Skin contact	: Adverse symptoms may include the irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations	e following:		

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

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SECTION 11: Toxicological information						
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Eye contact	: Adverse symptoms may include the following: pain or irritation
	watering redness
Delayed and immediate effe	cts and also 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	<u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility. May damage the unborn child.
Other information	: Not available.
<b>e</b> ,	t may dry skin and cause irritation. Contains . methanol . Cannot be made nonpoisonous. ss if swallowed. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure

May be fatal or cause blindness if swallowed. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/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.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure			
1-methoxy-2-propanol	Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia Fish	48 hours 96 hours			
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours			
	Chronic NOEC 1 mg/I Fresh water	Daphnia - Ceriodaphnia dubia	-			
methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours			
Conclusion/Summary : There are no data available on the mixture itself.						

#### 12.2 Persistence and degradability

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## **SECTION 12: Ecological information**

Product/ingredient name Test F		Result		Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days		-	-
Conclusion/Summary : There are no data available on the mixture itself.					
Product/ingredient name Aquatic half-life Photolysis Biodegradabi					Biodegradability
xylene		-	-		Readily

\_

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Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1-methoxy-2-propanol	<1	-	Low
xylene	3.12	7.4 to 18.5	Low
tetraethyl silicate	3.18	-	Low
ethylbenzene	3.6	79.43	Low
methanol	-0.77	-	Low
trimethyl borate	-1.9	-	Low

#### 12.4 Mobility in soil

ethylbenzene

Soil/water partition	: Not available.
coefficient (Koc)	
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 minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.	
Hazardous waste	: Yes.	
European waste catalogue (EWC)		

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## SECTION 13: Disposal considerations

Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
Packaging		
Methods of disposal	<ul> <li>The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.</li> </ul>	
Type of packaging	European waste catalogue (EWC)	
Container	15 01 06 mixed packaging	
Special precautions	<ul> <li>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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.</li> </ul>	

## 14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
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	II	II	II	II
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

ADR/RID	: None identified.
Tunnel code	: (D/E)
ADN	: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
IMDG	: None identified.
ΙΑΤΑ	: None identified.
14.6 Special pro	equitions for

**14.6 Special precautions 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 transport in	: Not applicable.
bulk according to IMO	
instruments	

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## SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorization

#### Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Restricted to professional users.

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	

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

#### Assessment

### **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

Full text of abbreviated H statements

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SECTION 16: Other infor	mation
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H412	Harmful to aquatic life with long lasting effects.
Full text of classifications [CLP/G	<u>HS]</u>
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)
	Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)
-	Category 2
STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
	Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
	Category 3
<u>History</u>	

revision	• 17 1 Cordary 202-
Date of previous issue	: 1 February 2024
Prepared by	: EHS
Version	: 18.15

### <u>Disclaimer</u>

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