SAFETY DATA SHEET

Date of issue/Date of revision

: 30 March 2023

Version : 7.02

pDG

Denmark

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

1.1 Product identifier

Product name	:	SIGMAZINC 9 BINDER
Product code	:	00332051
Other means of identification		

Not available.

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

1.3 Details of the supplier of the safety data sheet

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

e-mail address of person responsible for this SDS : Product.Stewardship.EMEA@ppg.com

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)

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. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

Code	: 00332051	Date of issue/Date of revision	: 30 March 2023
SIGMAZINC	9 BINDER		

SECTION 2: Hazards identification

ŝ

2.2 Label elements

Hazard pictograms



Signal word	:	Danger
Hazard statements	:	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	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.
Response	:	IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
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, P273, P304 + P312, P403 + P233, P501
Hazardous ingredients		propan-2-ol
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	en	its
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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

English	(GB)
---------	------

Code : 00332051 SIGMAZINC 9 BINDER Date of issue/Date of revision

: 30 March 2023

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1] [2]
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	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥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	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	≥5.0 - ≤9.5	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 - ≤4.8	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]
zinc chloride	EC: 231-592-0 CAS: 7646-85-7 Index: 030-003-00-2	<1.0	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 350 mg/ kg STOT SE 3, H335: C ≥ 5% M [Acute] = 1 M [Chronic] = 1	[1] [2]

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.

Code : 00332051 Date of issue/Date of revision : 30 March 2023

SIGMAZINC 9 BINDER

SECTION 3: Composition/information on ingredients

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. 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.

4.2 Most important symptoms and effects, both acute and delayed

	······································
Potential acute healt	h effects
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
4.3 Indication of any ir	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.

Code	: 00332051	Date of issue/Date of revision	: 30 March 2023
SIGMAZINC	9 BINDER		

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 fi	rom the substance or mixture
Hazards from the substance or mixture	: Highly 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 harmful 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	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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
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.

Code : 0033205 SIGMAZINC 9 BINDER	Date of issue/Date of revision : 30 March 2023
SECTION 6: Acci	dental 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 sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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. Store locked up. 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	: 00332051	Date of issue/Date of revision	: 30 March 2023	
SIGMAZIN				

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
propan-2-ol	Working Environment Authority (Denmark, 11/2021). Absorbed
	through skin.
	TWA: 490 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
1-methoxy-2-propanol	Working Environment Authority (Denmark, 11/2021). [1-methoxy-
	2-propanol] Absorbed through skin.
	TWA: 185 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
xylene	Working Environment Authority (Denmark, 11/2021). [Xylenes,
	all isomers] Absorbed through skin.
	TWA: 109 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
tetraethyl silicate	Working Environment Authority (Denmark, 11/2021).
	TWA: 44 mg/m ³ 8 hours.
	TWA: 5 ppm 8 hours.
ethylbenzene	Working Environment Authority (Denmark, 11/2021). Absorbed
	through skin. Carcinogen.
	TWA: 217 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
zinc chloride	Working Environment Authority (Denmark, 11/2021). [zinc
	chloride]
	TWA: 0.5 mg/m ³ , (calculated as Zn) 8 hours.
	Working Environment Authority (Denmark, 11/2021). [zinc
	chloride fume]
	TWA: 0.5 mg/m ³ , (calculated as Zn) 8 hours. Form: Fume

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
propan-2-ol	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	89 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	500 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	888 mg/kg bw/day	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/m ³	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
English (GB)	<u> </u>	1	Denmark	<u> </u>	7/19

Code : 00332051 SIGMAZINC 9 BINDER

Date of issue/Date of revision

: 30 March 2023

H	
,	SECTION 8: Exposure controls/personal protection

	•••••				
	DNEL	Short term Inhalation	553.5 mg/m³	Workers	Systemic
xylene	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Local
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	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/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
tetraethyl silicate	DNEL	Short term Dermal	3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	14 mg/m ³	General population	Local
	DNEL	Long term Inhalation	14 mg/m ³	General population	Local
	DNEL	Short term Inhalation	14 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	14 mg/m ³	General population	Systemic
	DNEL	Short term Dermal	56 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	56 mg/kg bw/day	Workers	Systemic
ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
zinc chloride	DNEL	Long term Inhalation	1.25 mg/m ³	General population	Systemic
	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	8.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	8.3 mg/kg bw/day	Workers	Systemic
					,

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
propan-2-ol	-	Fresh water	140.9 mg/l	Assessment Factors
	-	Marine water	140.9 mg/l	Assessment Factors
	-	Secondary Poisoning	160 mg/kg	-
	-	Fresh water sediment	552 mg/kg dwt	-
	-		552 mg/kg dwt	-
	-	Sewage Treatment Plant	2251 mg/l	Assessment Factors
	-	Soil	28 mg/kg dwt	-
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
English (GB)	Denmark		8/19	

Code : 00332051 SIGMAZINC 9 BINDER		Date of issue/Date of	of revision :	30 March 2023
SECTION 8: Exposure cor	ntrols/p	ersonal protectior	1	
	-	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	-

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.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safe 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 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 differer 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.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	May be used: nitrile rubber Recommended: butyl rubber, polyvinyl alcohol (PVA), Viton®
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 ant static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EI 1149 for further information on material and design requirements and test methods.
English (GB)	Denmark 9/19

2020/878	
Code : 00332051 SIGMAZINC 9 BINDER	Date of issue/Date of revision : 30 March 2023
SECTION 8: Exposur	e controls/personal protection
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

SECTION 9: Physical and chemical properties

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

will be necessary to reduce emissions to acceptable levels.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>							
Physical state	:	Liquid.					
Colour	:	Grey.					
Odour	: .	Aromatic.					
Odour threshold	:	Not available.					
Melting point/freezing point		May start to solidify at the following temperature: 0°C (32°F) This is based on data for the following ingredient: water. Weighted average: -86.49°C (-123.7°F)					
Initial boiling point and boiling range	:	>37.78°C					
Flammability	:	Not available.					
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: ′	1.3% Upper	:: 23% (tetra	ethyl silicate)		
Flash point	:	Closed cup: 12°C					
Auto-ignition temperature	:						
		Ingredient name	°C	°F	Method		
		1-methoxy-2-propanol	270	518			
Decomposition temperature	: -	Stable under recommended sto	orage and ha	andling condi	itions (see Section 7).		
рН	1	Not applicable. insoluble in wate	er.				
Viscosity	:	Kinematic (40°C): >21 mm²/s					
Solubility(ies)	:						
Media		Result					
cold water		Not soluble					
Partition coefficient: n-octano	/:	Not applicable.					
Vapour pressure	:						

Code	: 00332051	Date of issue/Date of revision	: 30 March 2023
SIGMAZIN	NC 9 BINDER		

SECTION 9: Physical and chemical properties

			Vapor	Vapour Pressure at 20°C		Vapo	our pres	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		Isopropyl alcohol	33	4.4				
Evaporation rate	:	Highest known value butyl acetate	e: 1.7 (Iso	propyl al	lcohol) Weigh	ted avera	age: 1.37	compared with
Relative density	1	1.04						
Vapour density	:	Highest known value = 1)	e: 7.22 (A	.ir = 1) (tetraethyl silica	ate). We	ighted av	erage: 3 (Air
Explosive properties	:	The product itself is vapour or dust with a	•		the formation	of an ex	plosible n	nixture of
Oxidising properties	:	Product does not pre	esent an o	oxidizing	hazard.			
Particle characteristics								
Median particle size	:	Not applicable.						
9.2 Other information								
No additional information.								

SECTION 10: Stability and reactivity				
: No specific test data related to reactivity available for this product or its ingredients.				
: The product is stable.				
: Under normal conditions of storage and use, hazardous reactions will not occur.				
: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.				
: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.				
: 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
propan-2-ol	LC50 Inhalation Vapour	Rat	72600 mg/m ³	4 hours
• •	LD50 Dermal	Rabbit	12800 mg/kg	_
	LD50 Oral	Rat	5045 mg/kg	_
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	_
	LD50 Oral	Rat	5.2 g/kg	_
xylene	LD50 Dermal	Rabbit	1.7 g/kg	_
,	LD50 Oral	Rat	4.3 g/kg	_
tetraethyl silicate	LC50 Inhalation Dusts and	Rat	10 to 16 mg/l	4 hours
,	mists		J. J. J.	
English (GB)	Denmark	<u> </u>	1	11/19

Code : 00332051 SIGMAZINC 9 BINDER		Date of issue/Date	: 30 March 20	23	
S	SECTION 11: Toxicological i	nformation			
	ethylbenzene	LD50 Dermal LD50 Oral LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rabbit Rat Rat Rabbit Rat	5.878 g/kg 6270 mg/kg 17.8 mg/l 17.8 g/kg 3.5 g/kg	- - 4 hours - -
	zinc chloride	LD50 Oral	Rat	0.35 g/kg	-

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

Irritation/Corrosion

Product/ingredier	it name	Result	Species	Score	Exposure	Observation
xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary				1		
Skin	: There are	e no data available on the r	nixture itself			
Eyes	: There are	e no data available on the r	nixture itself			
Respiratory	: There are	e no data available on the r	nixture itself	-		
Sensitisation						
Conclusion/Summary						
Skin	: There a	re no data available on the	mixture itsel	f.		
Respiratory	: There a	re no data available on the	mixture itsel	f.		
Mutagenicity						
Conclusion/Summary	: There a	re no data available on the	mixture itsel	f.		
Carcinogenicity						
Conclusion/Summary	: There a	re no data available on the	mixture itsel	f.		
Reproductive toxicity						
Conclusion/Summary	: There a	re no data available on the	mixture itsel	f.		
Teratogenicity						
Conclusion/Summary	: There a	re no data available on the	mixture itsel	f.		

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
propan-2-ol 1-methoxy-2-propanol xylene tetraethyl silicate zinc chloride	Category 3 Category 3 Category 3 Category 3 Category 3	- - - -	Narcotic effects Narcotic effects Respiratory tract irritation Respiratory tract irritation Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

Information on likely : Not available. routes of exposure

English (GB)	Denmark	12/19

SIGMAZINC 9 BINDER						
		Date of issue/Date of revision	: 30 March 2023			
Code	: 00332051	Date of issue/Date of revision	20 March 2022			

SECTION 11: Toxicological information

Potential acute health effect		
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.	
Ingestion	Can cause central nervous system (CNS) depression.	
Skin contact	Defatting to the skin. May cause skin dryness and irritation.	
Eye contact	Causes serious eye irritation.	
Symptoms related to the phy	ical, chemical and toxicological characteristics	
Inhalation	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	
Ingestion	No specific data.	
Skin contact	Adverse symptoms may include the following: irritation dryness cracking	
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness	
Delayed and immediate effe	s as well as chronic effects from short and long-term exposure	
<u>Short term exposure</u>		
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>s</u>	
Not available.		
Conclusion/Summary	Not available.	
General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/o dermatitis.	or
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.	
Prolonged or repeated contact	av dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled	

Prolonged or repeated contact may dry skin and cause irritation. 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 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

English (GB)

Code : 00332051 SIGMAZINC 9 BINDER Date of issue/Date of revision

: 30 March 2023

SECTION 11: Toxicological information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
propan-2-ol	Acute EC50 10100 mg/l	Daphnia - Daphnia	48 hours
	Fresh water	magna	
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l	Fish	96 hours
	Fresh water		
ethylbenzene	Acute EC50 1.8 mg/l Fresh	Daphnia	48 hours
-	water	-	
	Chronic NOEC 1 mg/l Fresh	Daphnia -	-
	water	Ceriodaphnia dubia	
zinc chloride	Acute EC50 5.64 mg/l Fresh	Aquatic plants -	4 days
	water	Lemna minor	
	Acute EC50 0.2 mg/l	Crustaceans	48 hours
	Acute LC50 0.4 to 2.2 mg/l	Fish	96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10 days	-	-
Conclusion/Summary	: There are no da	a available on the mixture itself.		

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
propan-2-ol	0.05	-	low
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

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.

English (GB)
	/

Co	de : 00332051	Date of issue/Date of revision	: 30 March 2023
SIC	GMAZINC 9 BINDER		

SECTION 12: Ecological information

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

: Yes.

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

13.1 Waste treatment methods

Product

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

Hazardous waste

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	ckaging European waste catalogue (EWC)	
Container 15 01 06 mixed packaging		mixed packaging
Special precautions	taken when l Empty conta residues ma Do not cut, v	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.

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.
English (GB)		Denma	ark	15/19

Code : 00332 SIGMAZINC 9 BINDE		Date of issue/Date of revision : 30 March 2023		30 March 2023
14. Transport	information			
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 pre user	cautions 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 tr bulk according 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

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category		
P5c		

Product/ingredient name	List name	Name on list	Classification	Notes
ethylbenzene	Denmark Carcinogenic Chemicals	Ethylbenzen	Listed	-

National regulations	
Product registration	:
number	

: PR-2434719

English (GB) Denmark 16/19

Code : 00332051 SIGMAZINC 9 BINDER	Date of issue/Date of revision	: 30 March 2023
SECTION 15: Regulatory information		

SECTION 15: Regula	itory information
Danish fire class	: I-1
Denmark – Cancer risks	 National Working Environment Authorities Ordinance on Measures to Prevent Cancer Risks during Work with Substances and Preparations is applicable.
MAL-code	: 4-3
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, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed.
	MAL-code: 4-3 Application: When spraying in new* booths if the operator is outside 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 and eye protection must be worn.
	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.
	- Air-supplied half mask, coveralls and eye protection 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.
	- Air-supplied full mask and coveralls must be worn.
	When spraying in existing* spray booths, if the operator is outside the spray zone.
	- Air-supplied full mask, arm protectors and apron must be worn.
	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 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, coveralls and hood must be worn.

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

Code	: 00332051	Date of issue/Date of revision	: 30 March 2023
SIGMAZINC	9 BINDER		

SECTION 15: Regulatory information

	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.
Low-boiling liquids	 This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.
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	: 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. 2, H225	On basis of test data
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

English (GB)	Denmark	18/19

Code : 00332051 SIGMAZINC 9 BINDER		Date of issue/Date of revision: 30 March 2023
SECTION 16: Othe	r information	
H225		Highly flammable liquid and vapour.
H226		Flammable liquid and vapour.
H302		Harmful if swallowed.
H304		May be fatal if swallowed and enters airways.
H312		Harmful in contact with skin.
H314		Causes severe skin burns and eye damage.
H315		Causes skin irritation.
H318		Causes serious eye damage.
H319		Causes serious eye irritation.
H332		Harmful if inhaled.
H335		May cause respiratory irritation.
H336		May cause drowsiness or dizziness.
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.
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 - Category 3
Asp. Tox. 1		ASPIRATION HAZARD - Category 1
Eye Dam. 1		SERIOUS EYE DAMAGE/EYE IRRITATION - 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
Skin Corr. 1B		SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2		SKIN CORROSION/IRRITATION - Category 2
STOT RE 2		SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE -
		Category 2
STOT SE 3		SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
		Category 3
<u>History</u>		
Date of issue/ Date of	: 30 March 2023	
revision		
Date of previous issue	: 4 November 202	2
Prepared by	: EHS	
Version	: 7.02	

Disclaimer

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.