SAFETY DATA SHEET

Europe

Date of issue/Date of revision : 9.03 : 3 April 2024 Version SECTION 1: Identification of the substance/mixture and of the company/ undertaking **1.1 Product identifier Product name** : SIGMAZINC 11 GREY **Product code** : 00312622 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/ : Coating. mixture **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 : Product.Stewardship.EMEA@ppg.com responsible for this SDS 1.4 Emergency telephone number Supplier +31 20 4075210

SECTION 2: Hazards identification

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

English (GB)

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SECTION 2: Hazards identification

2.2 Label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	 Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Wash thoroughly after handling.
Response	: Collect spillage.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
	P280, P210, P273, P264, P391, P501
Hazardous ingredients	: Not applicable.
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
Źnc powder zinc dust (stabilised)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥50 - ≤75	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤17	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]
Wollastonite	EC: 237-772-5 CAS: 13983-17-0	≥5.0 - ≤10	Not classified.	-	[2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	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]
tetraethyl silicate	REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	≥0.30 - ≤2.4	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
1-nitropropane	EC: 203-544-9 CAS: 108-03-2 Index: 609-001-00-6	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332	ATE [Oral] = 455 mg/ kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[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]
2-methylaminoethanol	REACH #: 01-2119492297-26 EC: 203-710-0 CAS: 109-83-1	<1.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361 STOT SE 3, H335 STOT RE 2, H373 (kidneys, liver, ovary,	ATE [Oral] = 1391 mg/ kg ATE [Dermal] = 1443 mg/kg STOT SE 3, H335: C ≥ 5%	[1]
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SECTION 3: Composition/information on ingredients

			spleen, testes)		
nitroethane	REACH #: 01-2119966158-27 EC: 201-188-9 CAS: 79-24-3	<1.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 Repr. 2, H361 Aquatic Chronic 3, H412	ATE [Oral] = 1100 mg/ kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
2-dimethylaminoethanol	REACH #: 01-2119492298-24 EC: 203-542-8 CAS: 108-01-0 Index: 603-047-00-0	<1.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1803 mg/ kg ATE [Dermal] = 1370 mg/kg ATE [Inhalation (gases)] = 1641 ppm STOT SE 3, H335: C ≥ 5%	[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 pxylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

[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

Ina

4.1 Description of first aid measures				
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.			
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.			
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.			
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.			
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.			

4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation : No known significant effects or critical hazards. Causes skin irritation Defatting to the skin Skin contact

in contact	1	Causes skin initiation. Defatting to the skin.
estion	:	No known significant effects or critical hazards.

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SECTION 4: First aid measures

Over-exposure signs/syr	nptoms
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 imme	ediate medical attention and special treatment needed
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

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 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 nitrogen 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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment.

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).

See Section 13 for additional waste treatment information.

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.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EL	J)
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SECTION 7: Handling and storage

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.

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		
x ylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]		
	Absorbed through skin.		
	STEL: 442 mg/m ³ 15 minutes.		
	STEL: 100 ppm 15 minutes.		
	TWA: 221 mg/m³ 8 hours.		
	TWA: 50 ppm 8 hours.		
Wollastonite	ACGIH TLV (United States, 1/2023).		
	TWA: 1 mg/m ³ 8 hours. Form: Inhalable fraction		
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.		
	STEL: 884 mg/m ³ 15 minutes.		
	STEL: 200 ppm 15 minutes.		
	TWA: 442 mg/m ³ 8 hours.		
	TWA: 100 ppm 8 hours.		
tetraethyl silicate	EU OEL (Europe, 1/2022).		
	TWA: 5 ppm 8 hours.		
	TWA: 44 mg/m ³ 8 hours.		
1-nitropropane	ACGIH TLV (United States, 1/2023).		
	TWA: 91 mg/m ³ 8 hours.		
	TWA: 25 ppm 8 hours.		
nitroethane	EU OEL (Europe, 1/2022). Absorbed through skin.		
	STEL: 100 ppm 15 minutes.		
	STEL: 312 mg/m ³ 15 minutes.		
	TWA: 20 ppm 8 hours.		
	TWA: 62 mg/m³ 8 hours.		
2-dimethylaminoethanol	IPEL (-).		
	TWA: 1 ppm		
	STEL: 3 ppm		

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SECTION 8: Exposure controls/personal protection

Recommended monitoring	: Reference should be made to monitoring standards, such as the following: European
procedures	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
xylene	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m ³	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	Local
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
2	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
	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
etraethyl silicate	DNEL	Long term Dermal	1.8 mg/kg bw/day	General population	Systemic
·····	DNEL	Short term Inhalation	5.3 mg/m ³	General population	Local
	DNEL	Long term Inhalation	5.3 mg/m ³	General population	Local
	DNEL	Short term Inhalation	5.3 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	5.3 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	6.3 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	44 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	44 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	44 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	44 mg/m ³	Workers	Systemic
1-nitropropane	DNEL	Long term Oral	0.25 mg/kg bw/day	General population	Systemic
r-muopropane	DNEL	Long term Inhalation	0.76 mg/m ³	General population	Local
	DNEL	Short term Oral	1.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.5 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	3.6 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	4.6 mg/m ³	General population	Local
	DNEL		7.1 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation Short term Inhalation			
	DNEL		9.1 mg/m ³	General population	Systemic
		Short term Inhalation Short term Inhalation	21.3 mg/m ³	Workers	Local
	DNEL		30.5 mg/m^3	Workers	Systemic
	DNEL	Long term Dermal	50 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	300 mg/kg bw/day	General population	Systemic
-ine evide	DNEL	Short term Dermal	500 mg/kg bw/day	Workers	Systemic
zinc oxide	DNEL	Long term Inhalation	0.5 mg/m ³	Workers	Local
	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	2.5 mg/m ³	General population	Systemic
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	DNEL	Long term Inhalation	5 mg/m ³	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
2-methylaminoethanol	DNEL	Long term Inhalation	0.275 mg/m ³	Workers	Systemi
	DNEL	Long term Oral	0.028 mg/kg bw/day	General population	Systemi
	DNEL	Long term Inhalation	0.0484 mg/m ³	General population	Systemi
	DNEL	Long term Dermal	0.08 mg/kg bw/day	Workers	Systemi
nitroethane	DNEL	Long term Inhalation	2 mg/m^3	General population	Systemi
	DNEL	Long term Inhalation	5 mg/m ³	General population	Local
	DNEL	Short term Inhalation	5 mg/m ³	General population	Systemi
	DNEL	Long term Inhalation	8.4 mg/m ³	Workers	Systemi
	DNEL	Short term Inhalation	15 mg/m ³	General population	Local
	DNEL	Short term Inhalation	17 mg/m ³	Workers	Systemi
	DNEL	Long term Inhalation	25 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	50 mg/m ³	Workers	Local
	DNEL	Long term Dermal	210 mg/kg bw/day	General population	
	DNEL	Long term Dermal	350 mg/kg bw/day	Workers	Systemi
	DNEL	Short term Dermal	1250 mg/kg bw/day	General population	Systemi
	DNEL	Short term Dermal	2100 mg/kg bw/day	Workers	Systemi
	DNEL	Long term Inhalation	2 mg/m ³	General population	Systemi
	DNEL	Long term Inhalation	5 mg/m ³	General population	Local
	DNEL	Short term Inhalation	5 mg/m ³	General population	
	DNEL	Long term Inhalation	8.4 mg/m ³	Workers	Systemi
	DNEL	Short term Inhalation	15 mg/m ³	General population	Local
	DNEL	Short term Inhalation	17 mg/m ³	Workers	Systemi
	DNEL	Long term Inhalation	25 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	50 mg/m ³	Workers	Local
	DNEL	Long term Dermal	210 mg/kg bw/day	General population	Systemi
	DNEL	Long term Dermal	350 mg/kg bw/day	Workers	Systemi
	DNEL	Short term Dermal	1250 mg/kg bw/day	General population	Systemi
	DNEL	Short term Dermal	2100 mg/kg bw/day	Workers	Systemi
2-dimethylaminoethanol	DNEL	Short term Dermal	100 ng/cm ²	Workers	Local
	DNEL	Long term Oral	0.148 mg/kg bw/day	General population	Systemi
	DNEL	Long term Dermal	0.25 mg/kg bw/day	Workers	Systemi
	DNEL	Long term Inhalation	0.43755 mg/m ³	General population	Systemi
	DNEL	Short term Dermal	1.2 mg/kg bw/day	Workers	Systemi
	DNEL	Long term Inhalation	1.76 mg/m^3	Workers	Local
	DNEL	Long term Inhalation	1.76 mg/m ³	Workers	Systemi
	DNEL	Short term Inhalation	5.28 mg/m ³	Workers	Systemi
	DNEL	Short term Inhalation	13.53 mg/m ³	Workers	Local

<u>PNECs</u>

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		
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		
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- 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	-					
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					
2-dimethylaminoethanol	-	Fresh water	0.066 mg/l	Assessment Factors					
	-	Marine water	0.007 mg/l	Assessment Factors					
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors					
	-	Fresh water sediment	0.053 mg/kg dwt	Equilibrium Partitioning					
	-	Soil	0.018 mg/kg dwt	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 below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. 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 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:
	Not recommended: nitrile rubber Recommended: polyvinyl alcohol (PVA), Viton®

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SECTION 8: Exposure controls/personal protection								
Body protection	: Personal protective equipment for the body should be selected based on the task							

	being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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	1	Liquid.					
Colour	1	Grey.					
Odour	1	Aromatic.					
Odour threshold	1	Not available.					
Melting point/freezing point					C (-116.5°F) This is based Veighted average: -94.98°0		
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% (tetraethyl silicate)					
Flash point	:	Closed cup: 25°C					
Auto-ignition temperature	1						
		Ingredient name	°C	°F	Method		
		Mene	432	809.6			
Decomposition temperature	:	Stable under recommend	led storage and	handling cond	litions (see Section 7).		
pH	:	Not applicable. insoluble	in water.				
Viscosity	:	Kinematic (40°C): >21 mi	m²/s				
Solubility(ies)	:						
Media		Result					
cold water		Not soluble					

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SECTION 9: Physical and chemical properties

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Partition coefficient: n-octanol/ : Not applicable. water

Vapour pressure

		Ingredient name	Vapou	Vapour Pressure at 20°C			our pres	sure at 50°C	
			mm Hg	kPa	Method	mm Hg	kPa	Method	
		ethylbenzene	9.30076	1.2					
Evaporation rate	:	Highest known value butyl acetate	e: 0.84 (et	hylbenz	ene) Weighte	d averag	e: 0.78co	mpared with	
Relative density	1	2.13							
Vapour density	:	Highest known value (Air = 1)	Highest known value: 7.22 (Air = 1) (tetraethyl silicate). Weighted average: 3.98 (Air = 1)						
Explosive properties	:	The product itself is vapour or dust with a			t the formation	of an ex	plosible n	nixture of	
Oxidising properties	:	Product does not pro	esent an c	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 nitrogen oxides metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Code : 00312622 SIGMAZINC 11 GREY Date of issue/Date of revision

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SECTION 11: Toxicological information

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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/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	-
tetraethyl silicate	LC50 Inhalation Dusts and	Rat	10 to 16 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	5.878 g/kg	-
	LD50 Oral	Rat	6270 mg/kg	-
1-nitropropane	LD50 Oral	Rat	0.455 g/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m³	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-methylaminoethanol	LD50 Dermal	Rat - Male,	1443 mg/kg	-
		Female		
	LD50 Oral	Rat	1391 mg/kg	-
nitroethane	LD50 Oral	Rat	1100 mg/kg	-
2-dimethylaminoethanol	LC50 Inhalation Gas.	Rat	1641 ppm	4 hours
	LC50 Inhalation Vapour	Rat	6100 mg/m³	4 hours
	LD50 Dermal	Rabbit	1.37 g/kg	-
	LD50 Oral	Rat	1.803 g/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

Route	ATE value
Oral	22738.96 mg/kg
Dermal	9541.01 mg/kg
Inhalation (gases)	354819.72 ppm
Inhalation (vapours)	51.85 mg/l

Irritation/Corrosion

Product/ingredien	it name	Result	Species	Score	Exposure	Observation
x ylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary		1				
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	-		
<u>Sensitisation</u>						
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.		
Carcinogenicity						
Conclusion/Summary	: There are	e no data available on the	mixture itsel	f.		
Reproductive toxicity						
English (CP)		E	uropo			12/10

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SECTION 11: Toxicological information

Conclusion/Summary : There are no da

: There are no data available on the mixture itself.

Teratogenicity

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene tetraethyl silicate 2-methylaminoethanol 2-dimethylaminoethanol	Category 3 Category 3 Category 3 Category 3	- - -	Respiratory tract irritation 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 2-methylaminoethanol	Category 2 Category 2	-	hearing organs kidneys, liver, ovary, spleen, testes

Aspiration hazard

Product/in	ngredient name	Result
xylene ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health effect	<u>s</u>	
Inhalation	: No known significant effects or cri	tical hazards.
Ingestion	: No known significant effects or cri	tical hazards.
Skin contact	: Causes skin irritation. Defatting to	o the skin.
Eye contact	: Causes serious eye irritation.	
Symptoms related to the phy	ysical, chemical and toxicological of	characteristics
Inhalation	: No specific data.	
Ingestion	: No specific data.	
Skin contact	: Adverse symptoms may include th irritation redness dryness cracking	ne following:
Eye contact	: Adverse symptoms may include the pain or irritation watering redness	ne following:
Delayed and immediate effe	cts as well as chronic effects from	short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects Long term exposure	: Not available.	

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SECTION 11: Toxicological information

Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	

Potential chronic health effects

Not available.

Conclusion/Summary	: Not available.
General	 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	: No known significant effects or critical hazards.
Other information	: Not available.

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

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
zínc powder zinc dust (stabilised)	Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic EC10 6.3 µg/l	Daphnia - Daphnia magna - 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	-
zinc oxide	Acute EC50 0.17 mg/l Acute EC50 0.481 mg/l Fresh water	Álgae Daphnia - <i>Daphnia magna</i> - Neonate	72 hours 48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours

Conclusion/Summary : The

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene nitroethane	- OECD 301D Ready Biodegradability - Closed Bottle Test	79 % - Readily - 10 days <0.1 % - 28 days	-	-
English (GB)		Europe		15/19

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SECTION 12: Ecological information

Conclusion/Summary : There are no data available on the mixture itself.			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene nitroethane	-		Readily Readily Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X lene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
tetraethyl silicate	3.18	-	Low
1-nitropropane	0.79	-	Low
2-methylaminoethanol	-0.94	_	Low
nitroethane	0.18	_	Low
2-dimethylaminoethanol	-0.55	-	Low

12.4 Mobility in soil

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

Hazardous waste : Yes.

European waste catalogue (EWC)

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

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SECTION 13: Disposal considerations

Packaging

Methods of disposal

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

Type of packaging	European waste catalogue (EWC)	
Container	15 01 06	mixed packaging
Special precautions	taken when 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. weld 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	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	=	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Zinc powder - zinc dust (stabilized))	Not applicable.

Additional information

ADR/RID	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
ADN	 The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special prec 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 tra bulk according to 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 authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain

dangerous substances,

mixtures and articles

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c E1	

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 inform	nation
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
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	<u>)</u>
Acute Tox. 3	ACUTE TOXICITY - Category 3
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
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
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
	Category 5
History	
Date of issue/ Date of : 3 A revision	oril 2024
Date of previous issue : 2 No	ovember 2022
Prepared by : EHS	3
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