SAFETY DATA SHEET

Europe

Date of issue/Date of revision

: 3 July 2024

Version

: 1.03

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SECTION 1: Identification of the substance/mixture and of the company/ undertaking **1.1 Product identifier Product name** : VIGOR ZN 302 SR EVO BASE BLUEGREEN **Product code** : 000001199137 Other means of identification 00473600; 00473606

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use	: Professional applications, Used by spraying, Application by non spray methods
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 AC - France Freitag Immeuble Union Square 1, Rue de l'Union CS10055 92565 RUEIL MALMAISON CEDEX France Tel: +33(0)1.57.61.03.20 Fax: +33(0)1.57.61.01.70

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

1.4 Emergency telephone number

Supplier

+31 (0)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. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400

English (US)

Aquatic Chronic 1, H410

Europe

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SECTION 2: Hazards identification

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.

2.2 Label elements

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor.
Response	: Collect spillage.
Storage	: Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
	P280, P210, P273, P261, P391, P501
Hazardous ingredients	: Epoxy Resin (700 <mw<=1100) Cement, portland, chemicals bis-[4-(2,3-epoxipropoxi)phenyl]propane</mw<=1100)
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	ients
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
zinc powder zinc dust (stabilised)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥50 - ≤75	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤8.7	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]
o-xylene	REACH #: 01-2119485822-30 EC: 202-422-2 CAS: 95-47-6 Index: 601-022-00-9	≥5.0 - ≤7.7	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] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Epoxy Resin (700 <mw <=1100)</mw 	CAS: 25036-25-3	≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Cement, portland, chemicals	EC: 266-043-4 CAS: 65997-15-1	≥1.0 - <3.0	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
isobutyl acetate	EC: 203-745-1 CAS: 110-19-0 Index: 607-026-00-7	≥1.0 - ≤5.0	Flam. Liq. 2, H225 EUH066	-	[1] [2]
bis-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
English (US)	·		Europe		3/19

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SECTION 3: Composition/information on ingredients

	CAS: 100-41-4 Index: 601-023-00-4		(hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
EC: 215-222- CAS: 1314-13	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤1.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
			See Section 16 for the full text of the H statements declared above.		

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health eff	ects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/syn</u>	nptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.

English (US)	
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SECTION 4: First aid	measures
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any immedia	ate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefight	ing 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	om the substance or mixture
Hazards from the substance or mixture	: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard In a fire or if heated, a pressure increase will occur and the container may burst, with th risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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 tra Evacuate surrounding areas. Keep unnecessary and unprotected persor entering. Do not touch or walk through spilled material. Shut off all igniti- No flares, smoking or flames in hazard area. Avoid breathing vapor or m adequate ventilation. Wear appropriate respirator when ventilation is ina- on appropriate personal protective equipment.	nnel from on sources. ist. Provide
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of an Section 8 on suitable and unsuitable materials. See also the information emergency personnel".	
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SECTION 6: Accidental release measures

6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and materia	Is 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.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	 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

SECTIO	N 7. Handling and starage		
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SECTION 7: Handling and storage

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			
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed			
•	through skin.			
	STEL: 442 mg/m ³ 15 minutes.			
	STEL: 100 ppm 15 minutes.			
	TWA: 221 mg/m ³ 8 hours.			
	TWA: 50 ppm 8 hours.			
o-xylene	EU OEL (Europe, 1/2022). Absorbed through skin.			
	STEL: 442 mg/m ³ 15 minutes.			
	STEL: 100 ppm 15 minutes.			
	TWA: 221 mg/m ³ 8 hours.			
	TWA: 50 ppm 8 hours.			
Cement, portland, chemicals	ACGIH TLV (United States, 7/2023).			
	TWA: 1 mg/m ³ 8 hours. Form: Respirable fraction			
isobutyl acetate	EU OEL (Europe, 1/2022).			
	STEL: 150 ppm 15 minutes.			
	STEL: 723 mg/m ³ 15 minutes.			
	TWA: 241 mg/m ³ 8 hours.			
	TWA: 50 ppm 8 hours.			
butanone	EU OEL (Europe, 1/2022).			
	STEL: 900 mg/m ³ 15 minutes.			
	STEL: 300 ppm 15 minutes.			
	TWA: 600 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.			
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.			
enyiberizerie	STEL: 884 mg/m ³ 15 minutes.			
	STEL: 200 ppm 15 minutes.			
	TWA: 442 mg/m ³ 8 hours.			
	TWA: 100 ppm 8 hours.			
-	e should be made to monitoring standards, such as the following: European			
	EN 689 (Workplace atmospheres - Guidance for the assessment of exposure			
	ion to chemical agents for comparison with limit values and measurement			
	European Standard EN 14042 (Workplace atmospheres - Guide for the n and use of procedures for the assessment of exposure to chemical and			
	agents) European Standard EN 482 (Workplace atmospheres - General			
biological .	agents) European Standard En 462 (Workplace atmospheres - General			

of hazardous substances will also be required.

DNELs

requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
x ylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/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
o-xylene	DNEL	Long term Oral	2.5 mg/kg bw/day	General population	Systemic
5	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
iachutul acotata	DNEL		300 mg/m ³		
isobutyl acetate		Short term Inhalation	0	General population	Systemic
	DNEL	Short term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	35.7 mg/m ³	General population	Local
	DNEL	Long term Inhalation	35.7 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	300 mg/m ³	General population	Local
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	600 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Systemic
bis-[4-(2,3-epoxipropoxi) phenyl]propane	DNEL	Long term Inhalation	12.25 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	12.25 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	3.571 mg/kg bw/day	General	Systemic
		_		population	-
				[Consumers]	
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General	Systemic
			0 0 9	population	,
				[Consumers]	
	DNEL	Long term Oral	0.75 mg/kg bw/day	General	Systemic
				population	_ ,
				[Consumers]	
		Short term Oral	0.75 ma/ka bw/day	[Consumers] General	Systemic
	DNEL	Short term Oral	0.75 mg/kg bw/day	General	Systemic
	DNEL	Short term Oral	0.75 mg/kg bw/day	General population	Systemic
				General population [Consumers]	
	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population [Consumers] General population	Systemic
	DNEL DNEL	Long term Dermal Long term Oral	89.3 µg/kg bw/day 0.5 mg/kg bw/day	General population [Consumers] General population General population	Systemic Systemic
	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population [Consumers] General population	Systemic

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SECTION 8: Exposure controls/personal protection

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	DNEL	Long term Inhalation	0.87 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m³	Workers	Systemic
butanone	DNEL	Long term Oral	31 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	106 mg/m³	General population	Systemic
	DNEL	Long term Dermal	412 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	450 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	600 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	900 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1161 mg/kg bw/day	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	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/m ³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
zinc powder zinc dust (stabilised)	-	Fresh water	20.6 µg/l	Sensitivity Distribution
	-	Marine water	6.1 µg/l	Sensitivity Distribution
	-	Sewage Treatment Plant	100 µg/l	Assessment Factors
	-	Fresh water sediment	118 mg/kg dwt	Sensitivity Distribution
	-	Marine water sediment	56.5 mg/kg dwt	Equilibrium Partitioning
	-	Soil	35.6 mg/kg dwt	Sensitivity Distribution
xylene	-	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-		6.58 mg/l	-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-
o-xylene	-	Fresh water	0.25 mg/l	-
	-	Sediment	14.33 mg/kg	-
	-	Soil	2.41 mg/kg	-
	-	Sewage Treatment Plant	5 mg/l	-
bis-[4-(2,3-epoxipropoxi)phenyl] propane	-	Fresh water	0.006 mg/l	Assessment Factors
	-	Marine water	0.001 mg/l	Assessment Factors
	-	Fresh water sediment	0.996 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.1 mg/kg dwt	Equilibrium Partitioning
	-	Soil	0.196 mg/kg dwt	Equilibrium Partitioning
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Secondary Poisoning	11 mg/kg	Assessment Factors
butanone	-	Fresh water	55.8 mg/l	Sensitivity Distribution
	-	Marine water	55.8 mg/l	Sensitivity Distribution
	-	Sewage Treatment Plant	709 mg/l	Sensitivity Distribution
	-	Fresh water sediment	284.74 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	284.7 mg/kg dwt	Equilibrium Partitioning
	-	Soil	22.5 mg/kg dwt	Equilibrium Partitioning
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	-
zinc oxide	-	Fresh water	20.6 µg/ľ	Sensitivity Distribution
English (US)	1	Europe	1	<u>9/19</u>

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

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SECTION 8: Exposu	re controls/p	ersonal protection	1	
8.2 Exposure controls Appropriate engineering controls	or other engi any recomm	Marine water Fresh water sediment Sewage Treatment Plant Marine water sediment Soil n adequate ventilation. Use neering controls to keep wo ended or statutory limits. The t concentrations below any winment	orker exposure to a he engineering con	irborne contaminants below trols also need to keep gas
Individual protection meas				
Hygiene measures	eating, smok Appropriate t Contaminate contaminate	, forearms and face thoroug ing and using the lavatory a techniques should be used d work clothing should not l d clothing before reusing. E close to the workstation loc	and at the end of the to remove potential be allowed out of the Ensure that eyewas	e working period. Ily contaminated clothing. ie workplace. Wash

Skin protection Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Gloves : butyl rubber **Body protection** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic 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. Appropriate footwear and any additional skin protection measures should be selected Other skin protection based on the task being performed and the risks involved and should be approved by a specialist before handling this product. **Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapor (Type A) and particulate filter P3

English (US)	Europe	10/19
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)	
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SECTION 8: Exposure controls/personal protection

Environmental exposure : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some controls 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

Appearance					
Physical state	:	Liquid.			
Color	:	Blue.			
Odor	:	Aromatic. [Slight]			
Odor threshold	:	Not available.			
Melting point/freezing point		May start to solidify at the foll based on data for the followir Weighted average: -62.98°C	ng ingredient		
Initial boiling point and boiling range	:	>37.78°C			
Flammability	:	Not available.			
Upper/lower flammability or explosive limits	:	Greatest known range: Lowe	r: 1.8% Upp	per: 11.5% (bu	tanone)
Flash point	:	Closed cup: 18°C			
Auto-ignition temperature	1.1				
Auto-ignition temperature	· · · ·				
		Ingredient name	°C	°F	Method
Auto-ignition temperature		Ingredient name butanone	° C 404	° F 759.2	Method
Decomposition temperature		•	404	759.2	
		butanone	404	759.2	
Decomposition temperature	:	butanone Stable under recommended	404 storage and	759.2	
Decomposition temperature pH	:	butanone Stable under recommended s Not applicable.	404 storage and	759.2	
Decomposition temperature pH Viscosity	:	butanone Stable under recommended Not applicable. Kinematic (40°C): >21 mm²/s	404 storage and	759.2	
Decomposition temperature pH Viscosity Viscosity	:	butanone Stable under recommended Not applicable. Kinematic (40°C): >21 mm²/s	404 storage and	759.2	
Decomposition temperature pH Viscosity Viscosity Solubility(ies)	:	butanone Stable under recommended s Not applicable. Kinematic (40°C): >21 mm²/s > 100 s (ISO 6mm)	404 storage and	759.2	
Decomposition temperature pH Viscosity Viscosity Solubility(ies) Media	: :	butanone Stable under recommended s Not applicable. Kinematic (40°C): >21 mm²/s > 100 s (ISO 6mm) Result Not soluble	404 storage and	759.2	

		Vapo		Pressure at 20°C		Vapor pressure a	
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	putanone	78.7564	10.5				
Evaporation rate	: Highest known value butyl acetate	e: 1.5 (iso	butyl ace	etate) Weight	ed avera	ge: 0.79c	ompared with
Relative density	: 2.06						
Vapor density	: Highest known value Weighted average:			bis-[4-(2,3-ep	oxipropo	ki)phenyl]	propane).
Explosive properties	: · · · · · · · · · · · · · · · · · · ·						
English (US)			Europe				11/19

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SECTION 9: Physic	al and chemical properties
	The product itself is not explosive, but the formation of an explosible mixture of vapor or dust with air is possible.
Oxidizing properties	: Product does not present an oxidizing hazard.
Particle characteristics	
Median particle size	: Not applicable.
9.2 Other information No additional information.	

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
zínc powder zinc dust (stabilised)	LC50 Inhalation Dusts and	Rat	>5.4 mg/l	4 hours
	mists		Ŭ	
	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
o-xylene	LC50 Inhalation Vapor	Rat	27124 mg/m ³	4 hours
•	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
isobutyl acetate	LD50 Dermal	Rabbit	>17400 mg/kg	-
	LD50 Oral	Rat	13400 mg/kg	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
,	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m ³	4 hours
	mists		Ũ	
	LD50 Dermal	Rat	>2000 mg/kg	-
English (US)	Europe)		12/19

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SECTION 11: Toxicological information								
		LD50 Oral Ra	at >50)00 mg/kg	-			

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

Route	ATE value
Dermal	9441.38 mg/kg
Inhalation (vapors)	72.43 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene bis-[4-(2,3-epoxipropoxi)phenyl]propane	Skin - Moderate irritant Eyes - Mild irritant Eyes - Redness of the conjunctivae	Rabbit Rabbit Rabbit	- - 0.4	24 hours 500 mg 24 hours 24 hours	- - -
	Skin - Edema Skin - Erythema/Eschar Skin - Mild irritant	Rabbit Rabbit Rabbit	0.5 0.8 -	4 hours 4 hours 4 hours	- -

Conclusion/Summary

: There are no data available on the mixture itself.

Skin Eyes

: There are no data available on the mixture itself.

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

Sensitization

Product/ingre	dient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi)phenyl]propane		skin	Mouse	Sensitizing
Conclusion/Summary		•	•	
Skin	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the mixture itself.			

Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary

: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene o-xylene Cement, portland, chemicals butanone	Category 3 Category 3 Category 3 Category 3	- - -	Respiratory tract irritation Respiratory tract irritation Respiratory tract irritation Narcotic effects
ethylbenzene	Category 2	-	hearing organs

Information on the likely : Not available.

routes of exposure

English (US)	Europe	13/19

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

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SECTION 11: Toxicological information

	•			
Potential acute health effect	<u>s</u>			
Inhalation	: No known significant effects or critical hazards.			
Ingestion	: No known significant effects or critical hazards.			
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.			
Eye contact	: Causes serious eye irritation.			
Symptoms related to the ph	vsical, chemical and toxicological characteristics			
Inhalation	: No specific data.			
Ingestion	: No specific data.			
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking			
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness			
Delayed and immediate effects and also chronic effects from short and long term exposure				
<u>Short term exposure</u>				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
<u>Long term exposure</u>				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health effe				
Not available.				
Conclusion/Summary	: Not available.			
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.			
Carcinogenicity	: No known significant effects or critical hazards.			
Mutagenicity	: No known significant effects or critical hazards.			
Reproductive toxicity	: No known significant effects or critical hazards.			
Other information	: Not available.			
Prolonged or repeated contac	may day skip 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 vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
zinc powder zinc dust (stabilised)	Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 354 μg/l Fresh water	Daphnia - <i>Daphnia</i> magna	48 hours
	Chronic EC10 6.3 µg/l	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	21 days
	Chronic LC10 185 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	30 days
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> <i>magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	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	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum	
ø-xylene ethylbenzene	OECD 301F -	94 % - Readily - 28 days 79 % - Readily - 10 days	-	-	

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene o-xylene bis-[4-(2,3-epoxipropoxi)phenyl]propane ethylbenzene	- - -	- - -	Readily Readily Not readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	7.4 to 18.5	Low
o-xylene	3.12	14.13	Low
isobutyl acetate	2.3	-	Low
butanone	0.3	-	Low
ethylbenzene	3.6	79.43	Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

English (US)

SECTION 12: Ecological information					
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SECTION 12: Ecological information

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

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hererdeue weete	The elegation of the product may most the criteria for a bezordous wests

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

European waste catalog	gue (EWC)		
Waste code	Waste designation		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		
Packaging			
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered whe recycling is not feasible.		
Type of packaging	European waste catalogue (EWC)		
Container	15 01 06 mixed packaging		
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the containe Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterw drains and sewers.		

Code<th::</th>::3 July 2024VIGOR ZN 302 SR EVO BASE BLUEGREENDate of issue/Date of revision::3 July 2024

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	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 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

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

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>

the event of an accident or spillage.

Annex XIV - List of substances subject to authorization
Annex XIV
None of the components are listed.
Substances of very high concern
None of the components are listed.
Annex XVII - Restrictions : Not applicable.
on the manufacture,
placing on the market
and use of certain
dangerous substances,

mixtures and articles

English (US)

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SECTION 15: Regulatory information						

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

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

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SECTION 16: Other information		
Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1	
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1	
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2	
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - 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 Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITIZATION - Category 1	
STOT RE 2 STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3	

<u>History</u>

Date of issue/ Date of revision	: 3 July 2024
Date of previous issue	: 26 September 2023
Prepared by	: EHS
Version	: 1.03

Disclaimer

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