# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 26 September 2023 Version



: 1.02

Europe

### 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 : 000001199137

Product code :: Other means of identification

00473600; 00473606

1.2 Relevant identified use	s 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

Product definition : Mixture 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 Aquatic Chronic 1, H410 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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English (GB)
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SECTION 2: Hazards identification

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

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

### 2.2 Label elements

Hazard pictograms



Signal word	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapour. Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>Very toxic to aquatic life with long lasting effects.</li> </ul>
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.
Response	: Collect spillage.
Storage	: Not applicable.
Disposal	: 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	ents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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## **SECTION 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 Index: 601-022-00-9	≥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	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 &lt;=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 CAS: 100-41-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs)	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
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### **SECTION 3: Composition/information on ingredients**

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	Index: 601-023-00-4		Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤1.0		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.

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**

### 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. 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 e	ffects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sy	<u>imptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.

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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	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
SECTION 5: Firefight	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	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 burs 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	<ul> <li>Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides</li> </ul>
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 Europear standard EN 469 will provide a basic level of protection for chemical incidents.

## 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 f entering. Do not touch or walk through spilt material. Shut off all ignition sour flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Pro adequate ventilation. Wear appropriate respirator when ventilation is inadequa on appropriate personal protective equipment.	rom ces. No ovide	
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any info Section 8 on suitable and unsuitable materials. See also the information in "F emergency personnel".		
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### **SECTION 6: Accidental release measures**

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 fo	or co	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. 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

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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 pure]
	Absorbed through skin.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
o-xylene	EU OEL (Europe, 1/2022). Absorbed through skin.
-	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
Cement, portland, chemicals	ACGIH TLV (United States, 1/2022).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
isobutyl acetate	EU OEL (Europe, 1/2022).
	STEL: 150 ppm 15 minutes.
	STEL: 723 mg/m <sup>3</sup> 15 minutes.
	TWA: 241 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
butanone	EU OEL (Europe, 1/2022).
	STEL: 900 mg/m <sup>3</sup> 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 600 mg/m <sup>3</sup> 8 hours.
	TWA: 200 ppm 8 hours.
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 442 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.

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**

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
zinc powder zinc dust	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	
(stabilised)	DINEL		0.00 mg/kg bw/day		Oysternic
(	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m <sup>3</sup>	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
xylene	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	
	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 <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL DNEL	Long term Inhalation Short term Inhalation	65.3 mg/m <sup>3</sup>	General population General population	
	DNEL		260 mg/m³ 260 mg/m³	General population	Local
	DNEL	Short term Inhalation Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic Local
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	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 <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
o-xylene	DNEL	Long term Oral	2.5 mg/kg bw/day	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	65.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
in the state of th	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
isobutyl acetate	DNEL	Short term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL DNEL	Long term Oral Short term Dermal	5 mg/kg bw/day 5 mg/kg bw/day	General population General population	Systemic Systemic
	DNEL	Long term Dermal	5 mg/kg bw/day	General population	
	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 <sup>3</sup>	General population	
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	General population	
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	300 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	300 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
bis-[4-(2,3-epoxipropoxi) phenyl]propane	DNEL	Long term Inhalation	12.25 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	12.25 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	8.33 mg/kg bw/day	Workers	Systemic
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_	DNEL	Short term Dermal	8.33 mg/kg bw/day	V		

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	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
				population	-
				[Consumers]	
	DNEL	Long term Oral	0.75 mg/kg bw/day	General	Systemic
				population	-
				[Consumers]	
	DNEL	Short term Oral	0.75 mg/kg bw/day	General	Systemic
				population	-
				[Consumers]	
	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.75 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m <sup>3</sup>	Workers	Systemic
butanone	DNEL	Long term Oral	31 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	106 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	412 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	600 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	1161 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 <sup>3</sup>	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 <sup>3</sup>	Workers	Local
	DMEL	Long term Inhalation	442 mg/m³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m <sup>3</sup>	Workers	Systemic
zinc oxide	DNEL	Long term Inhalation	0.5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
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### **PNECs**

Product/ingredient name	Туре	<b>Compartment Detail</b>	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	-
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
English (GB)	English (GB) Europe 9/19			

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	-	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/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

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 measures

mainaual protection me	asures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles. Use eye protection according to EN 166.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should 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.

English (GB)	Europe	10/19
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### **SECTION 8: Exposure controls/personal protection**

Gloves	rubber	
Body protection	onal protective equipment for the body should be selecte performed and the risks involved and should be approv- ling this product. When there is a risk of ignition from sta protective clothing. For the greatest protection from sta Id include anti-static overalls, boots and gloves. Refer to for further information on material and design requirement	ed by a specialist before tic electricity, wear anti- tic discharges, clothing European Standard EN
Other skin protection	opriate footwear and any additional skin protection meas d on the task being performed and the risks involved and ecialist before handling this product.	
Respiratory protection	irator selection must be based on known or anticipated erds of the product and the safe working limits of the selecters are exposed to concentrations above the exposure line priate, certified respirators. Use a properly fitted, air-purplying with an approved standard if a risk assessment indir a respirator conforming to EN140. Filter type: organic coulate filter P3	ted respirator. If nit, they must use ifying or air-fed respirator icates this is necessary.
Environmental exposure controls	sions from ventilation or work process equipment should comply with the requirements of environmental protection s, fume scrubbers, filters or engineering modifications to e necessary to reduce emissions to acceptable levels.	legislation. In some

### **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

information on busic physic	sai ana onenneai propei	100					
<u>Appearance</u>							
Physical state	: Liquid.						
Colour	: Blue.						
Odour	: Aromatic. [Slight]						
Odour threshold	: Not available.						
Melting point/freezing point		ne following ingredient		2°C (46.4 to 53.6°F) This is poxipropoxi)phenyl]propane.			
Initial boiling point and boiling range	: >37.78°C						
Flammability	: Not available.						
Upper/lower flammability or explosive limits	: Greatest known rar	Greatest known range: Lower: 1.8% Upper: 11.5% (butanone)					
Flash point	: Closed cup: 18°C						
Auto-ignition temperature	:						
	Ingredient name	°C	°F	Method			
	butanone	404	759.2				
Decomposition temperature	: Stable under recom	mended storage and	handling cond	litions (see Section 7).			
pH	: Not applicable.	intended eterage and	nananig cond				
Viscosity	: Kinematic (40°C): >	•21 mm²/s					
Viscosity	: > 100 s (ISO 6mm)						
Solubility(ies)	:						

English (GB)	
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## **SECTION 9: Physical and chemical properties**

	Media	Result
	cold water	Not soluble
Ρ	artition coefficient: n-octanol/ : N	lot applicable

mcient: n-octanol/ : Not applicable water

### Vapour pressure

Vapour pressure	:		_ <u>.</u>					
			Vapor	ur Pres	sure at 20°C	Vap	our pres	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		butanone	78.76	10.5				
Evaporation rate	:	L Highest known value butyl acetate	∋: 1.5 (iso'	butyl ac	etate) Weight	ed avera	 ge: 0.79c	ompared with
Relative density	:	2.06						
Vapour density	:		Highest known value: 11.7 (Air = 1) (bis-[4-(2,3-epoxipropoxi)phenyl]propane). Weighted average: 4.46 (Air = 1)					
Explosive properties	:	•	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.					
Oxidising properties	:	Product does not pre	esent an c	oxidizinç	g 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	: 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** 

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**SECTION 11: Toxicological information** 

Product/ingredient name	Result	Species	Dose	Exposure
zinc 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	-
o-xylene	LC50 Inhalation Vapour	Rat	27124 mg/m <sup>3</sup>	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>&gt;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 Vapour	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 <sup>3</sup>	4 hours
	mists		Ŭ	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

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

### Irritation/Corrosion

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

#### **Conclusion/Summary**

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

Eyes

Respiratory

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

**Sensitisation** 

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi)phenyl]propane	skin	Mouse	Sensitising

English (GB)	Europe
Conclusion/Summary	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Mutagenicity	
Respiratory	: There are no data available on the mixture itself.
Skin	: There are no data available on the mixture itself.
<b>Conclusion/Summary</b>	

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 000001199137 Date of issue/Date of revision : 26 September 2023 **VIGOR ZN 302 SR EVO BASE BLUEGREEN SECTION 11: Toxicological information 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. **Product/ingredient name Route of Target organs** Category exposure Information on likely : Not available. routes of exposure Potential acute health effects : No known significant effects or critical hazards. Inhalation Ingestion : No known significant effects or critical hazards. : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. **Skin contact** Eye contact : Causes serious eye irritation.

### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	1	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 effe	cts	as well as chronic effects from short and long-term exposure
Short term exposure		
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	ect	<u>S</u>
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.

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### **SECTION 11: Toxicological information**

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
zinc powder zinc dust (stabilised)	Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella	72 hours
	Chronic NOEC 0.0727 mg/l	<i>subcapitata</i> Daphnia - <i>Daphnia</i>	21 days
	Fresh water	Magna	
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	Daphnia - Daphnia	48 hours
	Fresh water	magna - Neonate	
	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
o-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

English (	GB)
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### **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
xylene	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	:	Not available.
coefficient (Koc)		
Mobility	1	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	: The classification of the product may meet the criteria for a hazardous waste.

#### European waste catalogue (EWC)

Waste code	Waste designation		
08 01 11* waste paint and varnish containing organic solvents or other hazardous subst			
ackaging			
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste		

ooul	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

English (GB)	Europe	16/19

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### **SECTION 13: Disposal considerations**

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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

	ADR/RID	ADN	IMDG	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), bis-[4- (2,3-epoxipropoxi) phenyl]propane)	Not applicable.

### **Additional information**

ADR/RID	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 $\leq 5$ L or $\leq 5$ 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	autions for : <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.		
14.7 Maritime tran 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 information	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eve 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]	Repeated exposure may cause skin dryness of clacking.
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 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
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 Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSUR
	Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
	Category 3

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### <u>Disclaimer</u>

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