# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 23 October 2023

**Version** : 4.01

pDG

**Europe** 

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

1.1 Product identifier		
Product name	÷	VIGOR ZN 302 SR BASE BLUEGREEN
Product code	÷	00280307
Other means of identification	n	
Not available.		

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

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

PPG 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. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

English (US)

Europe

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**VIGOR ZN 302 SR BASE BLUEGREEN** 

# **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	: Warning
Hazard statements	<ul> <li>Flammable liquid and vapor. Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>Suspected of causing cancer.</li> <li>Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response	: Collect spillage.
Storage	: Not applicable.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P202, P280, P210, P273, P391, P501</li> </ul>
Hazardous ingredients	:      #-methylpentan-2-one     Epoxy Resin (700 <mw<=1100) bis-[4-(2,3-epoxipropoxi)phenyl]propane<="" cement,="" chemicals="" portland,="" th=""></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	<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.

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# **SECTION 2: Hazards identification**

**Other hazards which do** : Prolonged or repeated contact may dry skin and cause irritation. **not result in classification** 

# **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
Znc 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]
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥10 - <20	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/l EUH066: C ≥ 20%	[1] [2]
xylene	EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 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]
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]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤3.8	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5	≤1.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
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### **SECTION 3: Composition/information on ingredients**

CAS: 1314-13-2 Index: 030-013-00-7
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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

#### SUB codes represent substances without registered CAS Numbers.

## SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
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**

<u>effects</u>
: Causes serious eye irritation.
: No known significant effects or critical hazards.
: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
: No known significant effects or critical hazards.
<u>symptoms</u>
: Adverse symptoms may include the following: pain or irritation watering redness
: No specific data.
: Adverse symptoms may include the following: irritation redness dryness cracking

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SECTION 4: First	aid measures
Ingestion	: No specific data.
4.3 Indication of any imm	nediate medical attention and special treatment needed
	: Treat symptomatically. Contact poison treatment specialist immediately if la
Notes to physician	quantities have been ingested or inhaled.

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 from the substance or mixture

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Hazards from the substance or mixture	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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.

# **SECTION 6: Accidental release measures**

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6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, we and sewers. Inform the relevant authorities if the product has cause pollution (sewers, waterways, soil or air). Water polluting material, the environment if released in large quantities. Collect spillage.	ed environmental
For emergency responders	: If specialized clothing is required to deal with the spillage, take note Section 8 on suitable and unsuitable materials. See also the inform emergency personnel".	
6.1 Personal precautions, pro For non-emergency personnel	<ul> <li>tective equipment and emergency procedures</li> <li>No action shall be taken involving any personal risk or without suital Evacuate surrounding areas. Keep unnecessary and unprotected p entering. Do not touch or walk through spilled material. Shut off all No flares, smoking or flames in hazard area. Avoid breathing vapor adequate ventilation. Wear appropriate respirator when ventilation i on appropriate personal protective equipment.</li> </ul>	ersonnel from ignition sources. or mist. Provide

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# **SECTION 6: Accidental release measures**

#### 6.3 Methods and materials 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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

# **SECTION 7: Handling and storage**

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

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

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## SECTION 7: Handling and storage

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
	EU OEL (Europe, 1/2022).
	STEL: 208 mg/m <sup>3</sup> 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 83 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin.
	STEL: 442 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 221 mg/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
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/m <sup>3</sup> 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**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Inc powder zinc dust (stabilised)	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/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
4-methylpentan-2-one	DNEL	Long term Oral	4.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	11.8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	14.7 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	14.7 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	83 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	83 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	155.2 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	155.2 mg/m <sup>3</sup>	General population	Systemic
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DNEL bis-[4-(2,3-epoxipropoxi) phenyl]propaneDNEL DNELShort term Inhalation Long term Inhalation442 mg/m³ 442 mg/m³Workers WorkersDNEL DNELDNEL DNELLong term Inhalation Long term Inhalation12.25 mg/m³Workers	
bis-[4-(2,3-epoxipropoxi) phenyl]propane DNEL DNEL Long term Inhalation Long term Inhalation 12.25 mg/m <sup>3</sup> Workers	Systemic
bis-[4-(2,3-epoxipropoxi) DNEL Long term Inhalation 12.25 mg/m <sup>3</sup> Workers Workers	Local
phenyl]propane	Systemic
	Systemic
DNEL  Short term Inhalation   12.25 mg/m <sup>3</sup>   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]	
	Systemic
population	- )
[Consumers]	
	Systemic
population	Systemic
[Consumers]	0
	Systemic
population	
[Consumers]	_
DNEL Long term Dermal 89.3 µg/kg bw/day General population	
	Systemic
	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
	Local
	Local
	Systemic
5	Local
	Systemic
	( ), (a.k
	Systemic
	Systemic
DNEL Long term Dermal 83 mg/kg bw/day Workers	Systemic Systemic
English (US) Europe	Systemic

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

PNECs
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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
4-methylpentan-2-one	-	Fresh water	0.6 mg/l	Assessment Factors
	-	Marine water	0.06 mg/l	Assessment Factors
	-	Sewage Treatment Plant		Assessment Factors
	-	Fresh water sediment	8.27 mg/kg	Equilibrium Partitioning
	-	Marine water sediment	0.83 mg/kg	Equilibrium Partitioning
	-	Soil	1.3 mg/kg	Equilibrium Partitioning
xylene	-	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment Plant	6.58 mg/l	-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-
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
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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# Individual protection measures 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.

English (US)	Europe	9/18
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SECTION 8: Exposu	e controls/personal protection
Eye/face protection Skin protection	: Chemical splash goggles. Use eye protection according to EN 166.
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 anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapor (Type A) and particulate filter P3
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

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

#### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Aromatic. [Slight]
Odor threshold	: Not available.
Melting point/freezing point	: May start to solidify at the following temperature: 8 to 12°C (46.4 to 53.6°F) This is based on data for the following ingredient: bis-[4-(2,3-epoxipropoxi)phenyl]propane. Weighted average: -78.68°C (-109.6°F)
Initial boiling point and boiling range	: >37.78°C

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/IGOR ZN 302 SR BASE BLUEG									
SECTION 9: Physical a	nd	chemical pro	perties						
Flammability	:	Not available.							
Upper/lower flammability or explosive limits	-	Greatest known range: Lower: 1.4% Upper: 7.5% (4-methylpentan-2-one)							
Flash point	:	Closed cup: 23°C							
Auto-ignition temperature	:								
		Ingredient name		°C		°F		Method	
		xylene		432		809.6			
Decomposition temperature	:	Stable under recom	mended s	torage a	and han	l dling co	onditions	s (see Sec	ction 7).
рН	:	Not applicable. insol		-		Ū		Υ.	,
Viscosity	:	Kinematic (40°C): >	21 mm²/s						
Solubility(ies)	:								
Media		Result							
· · I I · · · · f · ·		Not soluble							
cold water		NOT SOLUDIE							
Partition coefficient: n-octanol	1:								
Partition coefficient: n-octanol/ water	/ : :								
Partition coefficient: n-octanol/ water	/ : :		Vapo	r Press	ure at 2	20°C	Va	oor press	sure at 50°C
Partition coefficient: n-octanol/ water	:		Vapo mm Hg		ure at 2 Meth		Vaj mm Hg	oor press	sure at 50°C Method
Partition coefficient: n-octanol/ water	:	Not applicable.			1		mm	-	1
Partition coefficient: n-octanol water Vapor pressure	:	Not applicable.	15.75	<b>kPa</b> 2.1	Meth	nod	mm Hg	kPa	Method
Partition coefficient: n-octanol water Vapor pressure Evaporation rate	:	Not applicable. Ingredient name 4-methylpentan-2-one Highest known value	15.75	<b>kPa</b> 2.1	Meth	nod	mm Hg	kPa	Method
Partition coefficient: n-octanol water Vapor pressure Evaporation rate Relative density		Not applicable. Ingredient name 4-methylpentan-2-one Highest known value with butyl acetate	mm Hg 15.75 e: 1.7 (4-n e: 11.7 (A	kPa 2.1 nethylpe ir = 1) (	Meth ntan-2-	one) W	mm Hg /eightec	kPa l average	Method
Partition coefficient: n-octanol water Vapor pressure Evaporation rate Relative density Vapor density		Not applicable. Ingredient name 4-methylpentan-2-one Highest known value with butyl acetate 2.02 Highest known value	mm Hg 15.75 e: 1.7 (4-n e: 11.7 (A 4.42 (Air : not explos	<b>kPa</b> 2.1 nethylpe ir = 1) ( = 1) sive, but	Metr ntan-2-	one) W 2,3-epc	mm Hg /eightec	kPa l average xi)phenyl]	Method
Partition coefficient: n-octanol water Vapor pressure Evaporation rate Relative density Vapor density Explosive properties		Not applicable. Ingredient name 4-methylpentan-2-one Highest known value with butyl acetate 2.02 Highest known value Weighted average: The product itself is	mm Hg 15.75 e: 1.7 (4-n e: 11.7 (A 4.42 (Air : not explos ir is possib	kPa 2.1 nethylpe ir = 1) ( = 1) sive, but ble.	Metr ntan-2- bis-[4-(	one) W 2,3-epc mation	mm Hg /eightec	kPa l average xi)phenyl]	Method
Partition coefficient: n-octanol water Vapor pressure Evaporation rate Relative density Vapor density Explosive properties Oxidizing properties		Not applicable. Ingredient name 4-methylpentan-2-one Highest known value with butyl acetate 2.02 Highest known value Weighted average: 4 The product itself is vapor or dust with a	mm Hg 15.75 e: 1.7 (4-n e: 11.7 (A 4.42 (Air : not explos ir is possib	kPa 2.1 nethylpe ir = 1) ( = 1) sive, but ble.	Metr ntan-2- bis-[4-(	one) W 2,3-epc mation	mm Hg /eightec	kPa l average xi)phenyl]	Method
Partition coefficient: n-octanol water Vapor pressure Evaporation rate Relative density Vapor density Explosive properties Oxidizing properties varticle characteristics		Not applicable. Ingredient name 4-methylpentan-2-one Highest known value with butyl acetate 2.02 Highest known value Weighted average: 4 The product itself is vapor or dust with a	mm Hg 15.75 e: 1.7 (4-n e: 11.7 (A 4.42 (Air : not explos ir is possib	kPa 2.1 nethylpe ir = 1) ( = 1) sive, but ble.	Metr ntan-2- bis-[4-(	one) W 2,3-epc mation	mm Hg /eightec	kPa l average xi)phenyl]	Method
Cold water         Partition coefficient: n-octanol/ water         Vapor pressure         Evaporation rate         Relative density         Vapor density         Explosive properties         Oxidizing properties         Particle characteristics         Median particle size         0.2 Other information		Not applicable. Ingredient name 4-methylpentan-2-one Highest known value with butyl acetate 2.02 Highest known value Weighted average: 4 The product itself is vapor or dust with ai Product does not pro	mm Hg 15.75 e: 1.7 (4-n e: 11.7 (A 4.42 (Air : not explos ir is possib	kPa 2.1 nethylpe ir = 1) ( = 1) sive, but ble.	Metr ntan-2- bis-[4-(	one) W 2,3-epc mation	mm Hg /eightec	kPa l average xi)phenyl]	Method

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.

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SECTION	10: Stability and reactivity		

- **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
Źnc powder zinc dust (stabilised)	LC50 Inhalation Dusts and	Rat	>5.4 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>2000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/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	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 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 <sup>3</sup>	4 hours
	mists			
	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 bis-[4-(2,3-epoxipropoxi)phenyl]propane	Skin - Moderate irritant	Rabbit Rabbit	-	24 hours 500 mg 24 hours	-
bis-[4-(2,3-epoxipropoxi)prienyi]propane	Eyes - Mild irritant Eyes - Redness of the	Rabbit	- 0.4	24 hours	-
	conjunctivae Skin - Edema	Rabbit	0.5	4 hours	_
	Skin - Erythema/Eschar	Rabbit		4 hours	-
	Skin - Mild irritant	Rabbit	-	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.
   There are no data available on the mixture itself.
- <u>Sensitization</u>

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

#### **Conclusion/Summary**

Skin

: There are no data available on the mixture itself.

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English (US) Europe 12/18
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Respiratory	: There are no data available on the mixture itself.	
Mutagenicity		
<b>Conclusion/Summary</b>	: 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.	
Reproductive toxicity		
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.	
<b>Teratogenicity</b>		
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.	

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

Product/ingredient name	Category	Route of exposure	Target organs
4-methylpentan-2-one	Category 3	-	Narcotic effects
xylene	Category 3		Respiratory tract irritation
Cement, portland, chemicals	Category 3		Respiratory tract irritation

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

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

#### **Aspiration hazard**

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

: Not available. Information on the likely routes of exposure Potential acute health effects Inhalation : No known significant effects or critical hazards. : No known significant effects or critical hazards. Ingestion Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. : Causes serious eye irritation. Eye contact Symptoms related to the physical, 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 Short term exposure

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# **SECTION 11: Toxicological information**

	Potential immediate effects	1	Not available.
	Potential delayed effects	:	Not available.
	<u>Long term exposure</u>		
	Potential immediate effects	:	Not available.
	Potential delayed effects	:	Not available.
ļ	Potential chronic health effe	ct	<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	:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
	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 vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### **11.2.2 Other information**

Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
zínc powder zinc dust (stabilised)	Acute EC50 0.106 mg/l	Algae -	72 hours
	Fresh water	Pseudokirchneriella subcapitata	
	Chronic NOEC 0.0727 mg/l	Daphnia - Daphnia	21 days
	Fresh water	Magna	-
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh	Daphnia - <i>daphnia</i>	48 hours
	water	magna	
	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	Daphnia -	-
	water	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

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## **SECTION 12: Ecological information**

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-
Conclusion/Summary	• There are no d	lata available on the mixture itsel	f	·

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

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

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
4-methylpentan-2-one	1.9	-	Low
xylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

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

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**SECTION 13: Disposal considerations** 

European waste catalog	<u>ue (EWC)</u>		
Waste code	Waste designation		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		
Packaging			
Methods of disposal		waste should be avoided or minimized wherever possible. Waste be recycled. Incineration or landfill should only be considered when asible.	
Type of packaging	European waste catalogue (EWC)		
Container	15 01 06	mixed packaging	
Special precautions	taken when handlin Empty containers of residues may crea Do not cut, weld on	its container must be disposed of in a safe way. Care should be ng emptied containers that have not been cleaned or rinsed out. or liners may retain some product residues. Vapor from product te a highly flammable or explosive atmosphere inside the container. r grind used containers unless they have been cleaned thoroughly ispersal of spilled material and runoff and contact with soil, waterways	

# 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	III	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), bis-[4- (2,3-epoxipropoxi) phenyl]propane)	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.

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# 14. Transport information

14.6 Special precautions for	Transport within user's premises: always transport in closed containers that are
user	upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to 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

**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 Assessment

: No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

### Abbreviations and acronyms

ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway IMDG = International Maritime Dangerous Goods

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

Code : 00280307 VIGOR ZN 302 SR BASE BLUEGREEN	Date of issue/Date of revision	: 23 October 2023
SECTION 16: Other information		

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.
H351	Suspected of causing cancer.
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	5]
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatia Aquita 1	

Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2	
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	I
Carc. 2	CARCINOGENICITY - Category 2	J
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2	İ.
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	i.
Skin Sens. 1	SKIN SENSITIZATION - Category 1	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -	İ.
STOT SE 3	Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3	

#### <u>History</u>

Date of issue/ Date of revision	: 23 October 2023
Date of previous issue	: 25 October 2022
Prepared by	: EHS
Version	: 4.01

#### <u>Disclaimer</u>

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