

# SAFETY DATA SHEET

Date of issue/Date of revision

: 20 April 2025

Version

: 3.04



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

### 1.1 Product identifier

**Product name** : VIGOR ZN 302 SR EVO HARDENER

**Product code** : 000001059688

**Other means of identification**

00280308; 00418549

### 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** : Hardener.

**Uses advised against** : Product is not intended, labelled or packaged for consumer use.

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

PPG Coatings Belgium BV/SRL

Tweemontstraat 104

B-2100 Deurne

Belgium

Telephone +32-33606311

Fax +32-33606435

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

### 1.4 Emergency telephone number

Supplier

31 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

STOT RE 1, H372

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

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## SECTION 2: Hazards identification

### 2.2 Label elements

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: Highly flammable liquid and vapour.  
Causes skin irritation.  
Causes serious eye irritation.  
Causes damage to organs through prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects.

### Precautionary statements

Prevention

: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour.

Response

: Get medical advice/attention if you feel unwell.

Storage

: Not applicable.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

P280, P210, P273, P260, P314, P501

Hazardous ingredients

: ☒ Quartz (SiO<sub>2</sub>)

Supplemental label elements

: Contains ethylenediamine and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). 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 requirements

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 according to Regulation (EC) No. 1907/2006, Annex XIII

: 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                                                 | Type    |
|-------------------------------------------------------|----------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------|
| crystalline silica, respirable powder (<10 microns)   | EC: 238-878-4<br>CAS: 14808-60-7                                                       | ≥10 - ≤25    | STOT RE 1, H372 (inhalation)                                                                                                                                                                             | -                                                                                         | [1] [2] |
| propan-2-ol                                           | REACH #:<br>01-2119457558-25<br>EC: 200-661-7<br>CAS: 67-63-0<br>Index: 603-117-00-0   | ≥5.0 - ≤10   | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336                                                                                                                                              | -                                                                                         | [1] [2] |
| xylene                                                | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7                        | ≥5.0 - ≤10   | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412                           | ATE [Dermal] = 1700 mg/kg<br>ATE [Inhalation (vapours)] = 11 mg/l                         | [1] [2] |
| 2,4,6-tris (dimethylaminomethyl) phenol               | REACH #:<br>01-2119560597-27<br>EC: 202-013-9<br>CAS: 90-72-2                          | ≥1.0 - <3.0  | Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318                                                                                                                      | ATE [Oral] = 1200 mg/kg<br>ATE [Dermal] = 1280 mg/kg                                      | [1]     |
| zinc oxide                                            | REACH #:<br>01-2119463881-32<br>EC: 215-222-5<br>CAS: 1314-13-2<br>Index: 030-013-00-7 | ≥0.30 - <2.5 | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                                                                                                                         | M [Acute] = 1<br>M [Chronic] = 1                                                          | [1]     |
| ethylbenzene                                          | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4  | ≥1.0 - ≤5.0  | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373 (hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412                                                                             | ATE [Inhalation (vapours)] = 17.8 mg/l                                                    | [1] [2] |
| ethylenediamine                                       | REACH #:<br>01-2119480383-37<br>EC: 203-468-6<br>CAS: 107-15-3<br>Index: 612-006-00-6  | ≤0.30        | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Acute Tox. 3, H311<br>Acute Tox. 4, H332<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Resp. Sens. 1B, H334<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 | ATE [Oral] = 841 mg/kg<br>ATE [Dermal] = 560 mg/kg<br>ATE [Inhalation (gases)] = 6000 ppm | [1] [2] |
| N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide) | REACH #:<br>01-2119978265-26<br>EC: 204-613-6<br>CAS: 123-26-2                         | ≤0.30        | Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412                                                                                                                                                           | -                                                                                         | [1] [2] |

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### SECTION 3: Composition/information on ingredients

|  |  |  |                                                                      |  |  |
|--|--|--|----------------------------------------------------------------------|--|--|
|  |  |  | 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.

#### 4.2 Most important symptoms and effects, both acute and delayed

##### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. Defatting to the skin.
- Ingestion** : No known significant effects or critical hazards.

##### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
dryness  
cracking
- Ingestion** : No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

|                                     |                                                       |
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## SECTION 4: First aid measures

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<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

- Hazards from the substance or mixture** : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon oxides  
nitrogen oxides  
metal oxide/oxides

### 5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### 6.3 Methods and material for containment and cleaning up

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SECTION 6: Accidental release measures

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 spilt product. |
| 6.4 Reference to other sections | : See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information.                                                                                                                                                                                                                                                                                                                                                                                                                                      |

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective measures                                              | : Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.                                                                                                                      |

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

|                              |                |                                |                 |
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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                                                                                                                                                                 |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| crystalline silica, respirable powder (<10 microns)  | ACGIH TLV (United States, 1/2024) [Silica, crystalline] A2.<br>TWA 8 hours: 0.025 mg/m³. Form: Respirable fraction.                                                                   |
| propan-2-ol                                          | ACGIH TLV (United States, 1/2024) A4.<br>TWA 8 hours: 200 ppm.<br>STEL 15 minutes: 400 ppm.                                                                                           |
| xylene                                               | EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin.<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 221 mg/m³.<br>STEL 15 minutes: 100 ppm.<br>STEL 15 minutes: 442 mg/m³. |
| ethylbenzene                                         | EU OEL (Europe, 1/2022) Absorbed through skin.<br>TWA 8 hours: 100 ppm.<br>TWA 8 hours: 442 mg/m³.<br>STEL 15 minutes: 200 ppm.<br>STEL 15 minutes: 884 mg/m³.                        |
| ethylenediamine                                      | ACGIH TLV (United States, 1/2024) A4. Absorbed through skin.<br>TWA 8 hours: 10 ppm.                                                                                                  |
| N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | ACGIH TLV (United States)<br>TWA: 10 mg/m³. Form: Total dust.<br>TWA: 3 mg/m³. Form: Respirable.                                                                                      |

**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/DMELs

| Product/ingredient name | Exposure                                            | Value                              |
|-------------------------|-----------------------------------------------------|------------------------------------|
| propan-2-ol             | DNEL - Workers - Long term - Inhalation             | Effects: Systemic 500 mg/m³        |
|                         | DNEL - Workers - Long term - Dermal                 | Effects: Systemic 888 mg/kg bw/day |
|                         | DNEL - General population - Long term - Oral        | Effects: Systemic 26 mg/kg bw/day  |
|                         | DNEL - General population - Short term - Oral       | Effects: Systemic 51 mg/kg bw/day  |
|                         | DNEL - General population - Long term - Inhalation  | Effects: Systemic 89 mg/m³         |
|                         | DNEL - General population - Short term - Inhalation | Effects: Systemic 178 mg/m³        |
| xylene                  | DNEL - General population - Long term - Dermal      | Effects: Systemic 319 mg/kg bw/day |
|                         | DNEL - Workers - Short term - Inhalation            | Effects: Systemic 1000 mg/m³       |
|                         | DNEL - General population - Long term - Oral        | Effects: Systemic 5 mg/kg bw/day   |
|                         | DNEL - General population - Long term - Inhalation  | Effects: Local 65.3 mg/m³          |
|                         | DNEL - General population - Long term -             | Effects: Systemic 65.3 mg/m³       |
|                         |                                                     |                                    |

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

|                                               |                                                     |                   |                    |
|-----------------------------------------------|-----------------------------------------------------|-------------------|--------------------|
| 2,4,6-tris<br>(dimethylaminomethyl)<br>phenol | Inhalation                                          |                   |                    |
|                                               | DNEL - General population - Long term - Dermal      | Effects: Systemic | 125 mg/kg bw/day   |
|                                               | DNEL - Workers - Long term - Dermal                 | Effects: Systemic | 212 mg/kg bw/day   |
|                                               | DNEL - Workers - Long term - Inhalation             | Effects: Local    | 221 mg/m³          |
|                                               | DNEL - Workers - Long term - Inhalation             | Effects: Systemic | 221 mg/m³          |
|                                               | DNEL - General population - Short term - Inhalation | Effects: Local    | 260 mg/m³          |
|                                               | DNEL - General population - Short term - Inhalation | Effects: Systemic | 260 mg/m³          |
|                                               | DNEL - Workers - Short term - Inhalation            | Effects: Local    | 442 mg/m³          |
|                                               | DNEL - Workers - Short term - Inhalation            | Effects: Systemic | 442 mg/m³          |
|                                               | DNEL - General population - Long term - Oral        | Effects: Systemic | 0.075 mg/kg bw/day |
| ethylbenzene                                  | DNEL - General population - Short term - Dermal     | Effects: Systemic | 0.075 mg/kg bw/day |
|                                               | DNEL - General population - Long term - Dermal      | Effects: Systemic | 0.075 mg/kg bw/day |
|                                               | DNEL - General population - Short term - Inhalation | Effects: Systemic | 0.13 mg/m³         |
|                                               | DNEL - General population - Long term - Inhalation  | Effects: Systemic | 0.13 mg/m³         |
|                                               | DNEL - Workers - Long term - Dermal                 | Effects: Systemic | 0.15 mg/kg bw/day  |
|                                               | DNEL - Workers - Long term - Inhalation             | Effects: Systemic | 0.53 mg/m³         |
|                                               | DNEL - Workers - Short term - Dermal                | Effects: Systemic | 0.6 mg/kg bw/day   |
|                                               | DNEL - Workers - Short term - Inhalation            | Effects: Systemic | 2.1 mg/m³          |
|                                               | DMEL - Workers - Long term - Inhalation             | Effects: Local    | 442 mg/m³          |
|                                               | DMEL - Workers - Short term - Inhalation            | Effects: Systemic | 884 mg/m³          |
| ethylenediamine                               | DNEL - General population - Long term - Oral        | Effects: Systemic | 1.6 mg/kg bw/day   |
|                                               | DNEL - General population - Long term - Inhalation  | Effects: Systemic | 15 mg/m³           |
|                                               | DNEL - Workers - Long term - Inhalation             | Effects: Systemic | 77 mg/m³           |
|                                               | DNEL - Workers - Long term - Dermal                 | Effects: Systemic | 180 mg/kg bw/day   |
|                                               | DNEL - Workers - Short term - Inhalation            | Effects: Local    | 293 mg/m³          |
|                                               | DNEL - General population - Long term - Oral        | Effects: Systemic | 0.11 mg/kg bw/day  |
|                                               | DNEL - General population - Long term - Inhalation  | Effects: Systemic | 6.25 mg/m³         |
|                                               | DNEL - Workers - Long term - Inhalation             | Effects: Systemic | 25 mg/m³           |

PNECs

| Product/ingredient name | Compartment Detail - Method                     | Value           |
|-------------------------|-------------------------------------------------|-----------------|
| propan-2-ol             | Fresh water - Assessment Factors                | 140.9 mg/l      |
|                         | Marine water - Assessment Factors               | 140.9 mg/l      |
|                         | Secondary Poisoning                             | 160 mg/kg       |
|                         | Fresh water sediment                            | 552 mg/kg dwt   |
|                         | Marine water sediment                           | 552 mg/kg dwt   |
|                         | Sewage Treatment Plant - Assessment Factors     | 2251 mg/l       |
| xylene                  | Soil                                            | 28 mg/kg dwt    |
|                         | 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 |
| zinc oxide              | Soil                                            | 2.31 mg/kg      |
|                         | Fresh water - Sensitivity Distribution          | 20.6 µg/l       |
|                         | Marine water - Sensitivity Distribution         | 6.1 µg/l        |
|                         | Fresh water sediment - Sensitivity Distribution | 117 mg/kg dwt   |
|                         | Sewage Treatment Plant - Assessment Factors     | 52 µg/l         |
|                         | Marine water sediment - Assessment Factors      | 56.5 mg/kg dwt  |

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SECTION 8: Exposure controls/personal protection

|              |                                                  |                |
|--------------|--------------------------------------------------|----------------|
| ethylbenzene | Soil - Sensitivity Distribution                  | 35.6 mg/kg dwt |
|              | Fresh water - Assessment Factors                 | 0.1 mg/l       |
|              | Marine water - Assessment Factors                | 0.01 mg/l      |
|              | Sewage Treatment Plant - Assessment Factors      | 9.6 mg/l       |
|              | Fresh water sediment - Equilibrium Partitioning  | 13.7 mg/kg dwt |
|              | Marine water sediment - Equilibrium Partitioning | 1.37 mg/kg dwt |
|              | Soil - Equilibrium Partitioning                  | 2.68 mg/kg dwt |
|              | Secondary Poisoning                              | 20 mg/kg       |

8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants 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

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Chemical splash goggles. Use eye protection according to EN 166.

Skin protection

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

**Gloves** : For prolonged or repeated handling, use the following type of gloves:

May be used: nitrile rubber  
Recommended: butyl rubber, polyvinyl alcohol (PVA), Viton®

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist 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.

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SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Colour** : Not available.
- Odour** : Amine-like.
- Melting point/freezing point** : Not determined.
- Boiling point or initial boiling point and boiling range** : >37.78°C
- Flammability** : Not determined. There are no data available on the mixture itself.
- Lower and upper explosion limit** : Not available.
- Flash point** : Closed cup: 17°C
- Auto-ignition temperature** :

| Ingredient name                       | °C  | °F    | Method  |
|---------------------------------------|-----|-------|---------|
| 2,4,6-tris(dimethylaminomethyl)phenol | 382 | 719.6 | EU A.15 |

- Decomposition temperature** : Stable under recommended storage and handling conditions (see Section 7).
- pH** : Not applicable. insoluble in water.
- Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): >21 mm²/s

Solubility :

| Media      | Result      |
|------------|-------------|
| cold water | Not soluble |

- Partition coefficient n-octanol/ water (log Pow)** : Not applicable.

| Ingredient name | Vapour Pressure at 20°C |     |        | Vapour pressure at 50°C |     |        |
|-----------------|-------------------------|-----|--------|-------------------------|-----|--------|
|                 | mm Hg                   | kPa | Method | mm Hg                   | kPa | Method |
| propan-2-ol     | 33.00268                | 4.4 |        |                         |     |        |

- Relative density** : 1.64

Particle characteristics

|                              |                |                                |                 |
|------------------------------|----------------|--------------------------------|-----------------|
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SECTION 9: Physical and chemical properties

|                                                          |                                                                                                                           |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Median particle size                                     | : Not applicable.                                                                                                         |
| 9.2 Other information                                    |                                                                                                                           |
| 9.2.1 Information with regard to physical hazard classes |                                                                                                                           |
| 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 present an oxidizing hazard.                                                                           |
| 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.<br>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:<br>oxidising agents, strong alkalis, strong acids.           |
| 10.6 Hazardous decomposition products   | : Depending on conditions, decomposition products may include the following materials:<br>carbon oxides nitrogen oxides metal oxide/oxides    |

SECTION 11: Toxicological information

|                                                                                                                                                                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008                                                                                       |  |
| The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. |  |
| Causes serious eye irritation.                                                                                                                                      |  |
| Causes skin irritation.                                                                                                                                             |  |
| Causes damage to organs through prolonged or repeated exposure.                                                                                                     |  |

|                                        |                                                                                                                                                                       |                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Acute toxicity                         |                                                                                                                                                                       |                       |
| Product/ingredient name                | Result                                                                                                                                                                | Dose / Exposure       |
| propan-2-ol                            | Rat - Oral - LD50<br><u>Toxic effects:</u> Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Somnolence (general depressed activity) | 5045 mg/kg            |
|                                        | Rabbit - Dermal - LD50<br><u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity)Behavioral - IrritabilityGastrointestinal - Nausea or vomiting    | 12800 mg/kg           |
| xylene                                 | Rat - Inhalation - LC50 Vapour                                                                                                                                        | 72600 mg/m³ [4 hours] |
|                                        | Rat - Oral - LD50                                                                                                                                                     | 4.3 g/kg              |
|                                        | Rabbit - Dermal - LD50                                                                                                                                                | 1.7 g/kg              |
| 2,4,6-tris(dimethylaminomethyl) phenol | Rat - Dermal - LD50                                                                                                                                                   | 1280 mg/kg            |
|                                        | Rat - Oral - LD50<br><u>Toxic effects:</u> Peripheral Nerve and Sensation - Flaccid paralysis without anesthesia (usually neuromuscular blockage) Lung, Thorax, or    | 1200 mg/kg            |

|                              |                |                                |                 |
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SECTION 11: Toxicological information

|                                                          |                                                                                                              |                                                        |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| zinc oxide                                               | Respiration - Dyspnea<br>Rat - Oral - LD50<br>Rat - Dermal - LD50<br>Rat - Inhalation - LC50 Dusts and mists | >5000 mg/kg<br>>2000 mg/kg<br>>5700 mg/m³ [4 hours]    |
| ethylbenzene                                             | Rat - Oral - LD50<br>Rabbit - Dermal - LD50<br>Rat - Inhalation - LC50 Vapour                                | 3.5 g/kg<br>17.8 g/kg<br>17.8 mg/l [4 hours]           |
| ethylenediamine                                          | Rat - Male, Female - Oral - LD50<br>Rabbit - Male - Dermal - LD50<br>Rat - Inhalation - LC50 Gas.            | 841 mg/kg<br>560 mg/kg<br>6000 ppm [4 hours]           |
| N,N'-ethane-1,2-diylbis<br>(12-hydroxyoctadecan-1-amide) | Rat - Oral - LD50<br><br>Rat - Dermal - LD50<br>Rat - Inhalation - LC50 Dusts and mists                      | >2000 mg/kg<br><br>>2000 mg/kg<br>>5.11 mg/l [4 hours] |

Acute toxicity estimates

| Route                | ATE value      |
|----------------------|----------------|
| Oral                 | 41694.17 mg/kg |
| Dermal               | 16904.02 mg/kg |
| Inhalation (vapours) | 182.1 mg/l     |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Irritation/Corrosion

| Product/ingredient name | Result                                                                                                                |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Xylene                  | Rabbit - Skin - Moderate irritant<br>Amount/concentration applied: 500 mg<br>Duration of treatment/exposure: 24 hours |

Conclusion/Summary

Skin : Causes skin irritation.  
Eyes : Causes serious eye irritation.  
Respiratory : Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met.  
Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| propan-2-ol             | Category 3 | -                 | Narcotic effects             |
| xylene                  | Category 3 | -                 | Respiratory tract irritation |

Conclusion/Summary :

Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure)

|                              |                |                                |                 |
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SECTION 11: Toxicological information

| Product/ingredient name                                             | Category                 | Route of exposure | Target organs       |
|---------------------------------------------------------------------|--------------------------|-------------------|---------------------|
| crystalline silica, respirable powder (<10 microns)<br>ethylbenzene | Category 1<br>Category 2 | inhalation<br>-   | -<br>hearing organs |

Conclusion/Summary :  
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

| Product/ingredient name | Result                                                           |
|-------------------------|------------------------------------------------------------------|
| xylene<br>ethylbenzene  | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

Conclusion/Summary :  
Based on available data, the classification criteria are not met.

Information on likely routes of exposure : Not available.

Potential acute health effects

- 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.
- Eye contact : Causes serious eye irritation.

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 as well as chronic effects from short and long-term exposure

Short term exposure

- Potential immediate effects : No known significant effects or critical hazards.
- Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

- Potential immediate effects : No known significant effects or critical hazards.
- Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

- General : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Carcinogenicity : No known significant effects or critical hazards.
- Mutagenicity : No known significant effects or critical hazards.
- Reproductive toxicity : No known significant effects or critical hazards.

|                              |                |                                |                 |
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SECTION 11: Toxicological information

**Other 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

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

12.1 Toxicity

| Product/ingredient name                               | Result                       | Species                                               | Dose / Exposure          |
|-------------------------------------------------------|------------------------------|-------------------------------------------------------|--------------------------|
| Propan-2-ol                                           | Acute - EC50 - Fresh water   | Daphnia - Water flea - <i>Daphnia magna</i>           | 10.1 g/l [48 hours]      |
| 2,4,6-tris (dimethylaminomethyl)phenol                | Acute - LC50                 | Daphnia                                               | >100 mg/l [48 hours]     |
| zinc oxide                                            | Acute - LC50                 | Fish                                                  | >100 mg/l [96 hours]     |
|                                                       | Acute - EC50 - Fresh water   | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate | 0.481 mg/l [48 hours]    |
|                                                       | Acute - EC50                 | Algae                                                 | 0.17 mg/l [72 hours]     |
|                                                       | Chronic - NOEC - Fresh water | Algae                                                 | 0.017 mg/l [72 hours]    |
| ethylbenzene                                          | Acute - EC50 - Fresh water   | Daphnia                                               | 1.8 mg/l [48 hours]      |
|                                                       | Chronic - NOEC - Fresh water | Daphnia - <i>Ceriodaphnia dubia</i>                   | 1 mg/l                   |
| N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide) | Acute - EC50                 | Daphnia - <i>Daphnia magna</i>                        | 94 mg/l [48 hours]       |
|                                                       | Acute - EC50                 | Algae - <i>Pseudokirchneriella subcapitata</i>        | 29 to 43 mg/l [72 hours] |

**Conclusion/Summary** : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

| Product/ingredient name                               | Test                                                | Result                     | Dose / Inoculum |
|-------------------------------------------------------|-----------------------------------------------------|----------------------------|-----------------|
| 2,4,6-tris (dimethylaminomethyl)phenol                | OECD [ Ready Biodegradability - Closed Bottle Test] | 4% [28 days] - Not readily |                 |
| ethylbenzene                                          | -                                                   | 79% [10 days] - Readily    |                 |
| ethylenediamine                                       | -                                                   | 95% [28 days]              |                 |
| N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide) | -                                                   | 63% [28 days]              |                 |

|                              |                |                                |                 |
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SECTION 12: Ecological information

| Product/ingredient name                              | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------------------------------|-------------------|------------|------------------|
| ☑ xylene                                             | -                 | -          | Readily          |
| 2,4,6-tris(dimethylaminomethyl)phenol                | -                 | -          | Not readily      |
| ethylbenzene                                         | -                 | -          | Readily          |
| ethylenediamine                                      | -                 | -          | Readily          |
| N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | -                 | -          | Readily          |

12.3 Bioaccumulative potential

| Product/ingredient name                              | LogP <sub>ow</sub> | BCF         | Potential |
|------------------------------------------------------|--------------------|-------------|-----------|
| ☑ propan-2-ol                                        | 0.05               | -           | Low       |
| xylene                                               | 3.12               | 7.4 to 18.5 | Low       |
| 2,4,6-tris(dimethylaminomethyl)phenol                | 0.219              | -           | Low       |
| ethylbenzene                                         | 3.6                | 79.43       | Low       |
| ethylenediamine                                      | -2.04              | -           | Low       |
| N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | >6                 | -           | High      |

12.4 Mobility in soil

Soil/water partition coefficient

| Product/ingredient name                              | logK <sub>oc</sub> | K <sub>oc</sub> |
|------------------------------------------------------|--------------------|-----------------|
| ☑ propan-2-ol                                        | 0.54               | 3.4364          |
| 2,4,6-tris(dimethylaminomethyl)phenol                | 2.72               | 525.589         |
| ethylbenzene                                         | 2.23               | 170.406         |
| ethylenediamine                                      | 0.63               | 4.24117         |
| N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | 4.31               | 20542.3         |

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

☑ The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

|                              |                |                                |                 |
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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 :  
European waste catalogue (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 minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

| Type of packaging | European waste catalogue (EWC) |
|-------------------|--------------------------------|
| Container         | 15 01 06 mixed packaging       |

Special precautions : 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.

SECTION 14: Transport information

|                                 | ADR/RID         | ADN             | IMDG            | IATA            |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| 14.1 UN number or ID number     | UN1263          | UN1263          | UN1263          | UN1263          |
| 14.2 UN proper shipping name    | PAINT           | PAINT           | PAINT           | PAINT           |
| 14.3 Transport hazard class(es) | 3               | 3               | 3               | 3               |
| 14.4 Packing group              | II              | II              | II              | II              |
| 14.5 Environmental hazards      | No.             | Yes.            | No.             | No.             |
| Marine pollutant substances     | Not applicable. | Not applicable. | Not applicable. | Not applicable. |

Additional information

ADR/RID : None identified.

|                              |                |                                |                 |
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SECTION 14: Transport information

|             |                                                                                                             |
|-------------|-------------------------------------------------------------------------------------------------------------|
| Tunnel code | : (D/E)                                                                                                     |
| ADN         | : The product is only regulated as an environmentally hazardous substance when transported in tank vessels. |
| IMDG        | : None identified.                                                                                          |
| IATA        | : None identified.                                                                                          |

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

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

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)  
Annex XIV - List of substances subject to authorisation

Annex XIV  
None of the components are listed.  
Substances of very high concern

| Intrinsic property                                                                                                                   | Ingredient name | Status      | Reference number | Date of revision |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|------------------|------------------|
|  Substance of equivalent concern for human health | ethylenediamine | Recommended | D(2021) 4569-DC  | 4/12/2023        |

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name      | Entry Number ( REACH ) |
|------------------------------|------------------------|
| VIGOR ZN 302 SR EVO HARDENER | 3                      |

Labelling : Not applicable.  
Explosive precursors : Not applicable.  
Ozone depleting substances (EU 2024/590)

Not listed.  
Seveso Directive  
This product is controlled under the Seveso Directive.  
Danger criteria

| Category                                                                                |
|-----------------------------------------------------------------------------------------|
|  P5c |

15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out.

|                              |                |                                |                 |
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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 vapour.                                        |
| H226 | Flammable liquid and vapour.                                               |
| H302 | Harmful if swallowed.                                                      |
| H304 | May be fatal if swallowed and enters airways.                              |
| H311 | Toxic in contact with skin.                                                |
| H312 | Harmful in contact with skin.                                              |
| H314 | Causes severe skin burns and eye damage.                                   |
| 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.                                                        |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation.                                          |
| H336 | May cause drowsiness or dizziness.                                         |
| H372 | Causes damage to organs through prolonged or repeated exposure.            |
| H373 | May cause damage to organs through prolonged or repeated exposure.         |
| H400 | Very toxic to aquatic life.                                                |
| H410 | Very toxic to aquatic life with long lasting effects.                      |
| H412 | Harmful to aquatic life with long lasting effects.                         |

Full text of classifications [CLP/GHS]

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Acute Tox. 3      | ACUTE TOXICITY - Category 3                     |
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                     |
| Aquatic Acute 1   | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                  |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1  |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  |
| Flam. Liq. 2      | FLAMMABLE LIQUIDS - Category 2                  |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                  |
| Resp. Sens. 1B    | RESPIRATORY SENSITISATION - Category 1B         |
| Skin Corr. 1B     | SKIN CORROSION/IRRITATION - Category 1B         |
| Skin Corr. 1C     | SKIN CORROSION/IRRITATION - Category 1C         |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                 |
| Skin Sens. 1B     | SKIN SENSITISATION - Category 1B                |

|                              |                |                                |                 |
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| SECTION 16: Other information |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| STOT RE 1                     | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
| STOT RE 2                     | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3                     | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3   |

History

|                                 |                  |
|---------------------------------|------------------|
| Date of issue/ Date of revision | : 20 April 2025  |
| Date of previous issue          | : 9 October 2024 |
| Prepared by                     | : EHS            |
| Version                         | : 3.04           |

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.