

# SAFETY DATA SHEET

Date of issue/Date of revision

: 21 November 2023

Version

: 4.03



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

### 1.1 Product identifier

**Product name** : PPG AQUACOVER 400 BASE (TINTED)

**Product code** : 00226569

#### Other means of identification

Not available.

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

**Product use** : Professional applications, Used by spraying.

**Use of the substance/  
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 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

#### National advisory body/Poison Centre

National Poison Information Centre at Beaumont Hospital. Tel: +353 1 8092566, email: npicdublin@beaumont.ie

#### 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]

Eye Dam. 1, H318

Skin Sens. 1, H317

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

: May cause an allergic skin reaction.  
Causes serious eye damage.  
Harmful to aquatic life with long lasting effects.

### Precautionary statements

Prevention

: Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Avoid breathing vapour.

Response

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage

: Not applicable.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.  
P280, P273, P261, P305 + P351 + P338, P310, P501

Hazardous ingredients

: Decanedioic acid, compds. with 1,3-benzenedimethanamine-bisphenol A-bisphenol A diglycidyl ether-diethylenetriamine glycidyl Ph ether reaction product-epichlorohydrin-formaldehyde-propylene oxide-triethylenetetramine polymer  
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine  
maleic anhydride

Supplemental label elements

: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

: 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

: None known.

|                                 |            |                                |                    |
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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    |
|--|---|--------------|--|--|---------|
| Decanedioic acid, compds. with 1,3-benzenedimethanamine-bisphenol A-bisphenol A diglycidyl ether-diethylenetriamine glycidyl Ph ether reaction product-epichlorohydrin-formaldehyde-propylene oxide-triethylenetetramine polymer | CAS: 260549-92-6  | ≥10 - ≤25    | Eye Dam. 1, H318   | -  | [1]     |
| aluminium dihydrogen triphosphate  | REACH #: 01-2119970565-28<br>EC: 237-714-9<br>CAS: 13939-25-8                       | ≥1.0 - ≤5.0  | Eye Irrit. 2, H319   | -  | [1] [2] |
| zinc oxide   | REACH #: 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]     |
| 2-butoxyethanol  | REACH #: 01-2119475108-36<br>EC: 203-905-0<br>CAS: 111-76-2<br>Index: 603-014-00-0  | ≤0.30        | Acute Tox. 4, H302<br>Acute Tox. 3, H331<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319  | ATE [Oral] = 1200 mg/kg<br>ATE [Inhalation (vapours)] = 3 mg/l | [1] [2] |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine  | REACH #: 01-2119972320-44<br>EC: 500-191-5<br>CAS: 68082-29-1                       | ≤0.30        | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Chronic 2, H411  | -  | [1]     |
| ammonia, anhydrous   | REACH #: 01-2119488876-14<br>EC: 231-635-3<br>CAS: 7664-41-7<br>Index: 007-001-00-5 | ≤0.30        | Flam. Gas 2, H221<br>Press. Gas (Comp.), H280<br>Acute Tox. 3, H331<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400                                    | ATE [Inhalation (gases)] = 2000 ppm<br>M [Acute] = 1           | [1] [2] |
| maleic anhydride   | REACH #: 01-2119472428-31<br>EC: 203-571-6<br>CAS: 108-31-6<br>Index: 607-096-00-9  | <0.0010      | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>Skin Sens. 1A, H317<br>STOT RE 1, H372 (respiratory system) (inhalation)<br>EUH071 | ATE [Oral] = 400 mg/kg<br>Skin Sens. 1, H317: C ≥ 0.001%       | [1] [2] |

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### SECTION 3: Composition/information on ingredients

|  |  |  |   |  |  |
|--|--|--|---|--|--|
|  |  |  | <b>See Section 16 for the full text of the H statements declared above.</b> |  |  |
|--|--|--|---|--|--|

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

This mixture contains  $\geq 1\%$  of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

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** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.  
In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
- 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

##### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

##### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.

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## SECTION 4: First aid measures

- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. 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  
sulfur 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.
- 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. Do not breathe 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".

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SECTION 6: Accidental release measures

- 6.2 Environmental precautions

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

Small spill

: Stop leak if without risk. Move containers from spill area. 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. 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.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

- 7.1 Precautions for safe handling

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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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: 5 to 35°C (41 to 95°F). Store in accordance with local regulations. 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. 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   |
|-----------------------------------|---|
| aluminium dihydrogen triphosphate | <b>NAOSH (Ireland, 5/2021). [aluminium salts, soluble]</b><br>OELV-8hr: 2 mg/m³ 8 hours.<br><b>NAOSH (Ireland, 5/2021). Absorbed through skin.</b><br>OELV-15min: 246 mg/m³ 15 minutes.<br>OELV-15min: 50 ppm 15 minutes.<br>OELV-8hr: 98 mg/m³ 8 hours.<br>OELV-8hr: 20 ppm 8 hours.<br><b>NAOSH (Ireland, 5/2021). [ammonia, anhydrous]</b><br>OELV-15min: 36 mg/m³ 15 minutes.<br>OELV-15min: 50 ppm 15 minutes.<br>OELV-8hr: 14 mg/m³ 8 hours.<br>OELV-8hr: 20 ppm 8 hours.<br><b>NAOSH (Ireland, 5/2021). Sensitization potential.</b><br>OELV-8hr: 0.01 ppm 8 hours. Form: The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases. |
| 2-butoxyethanol                   |   |
| ammonia, anhydrous                |   |
| maleic anhydride                  |   |

Biological exposure indices

| Product/ingredient name | Exposure indices  |
|-------------------------|---|
| 2-butoxyethanol         | <b>NAOSH (Ireland, 1/2011)</b><br>BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. |

**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           | Type | Exposure             | Value              | Population         | Effects  |
|-----------------------------------|------|----------------------|--------------------|--------------------|----------|
| aluminium dihydrogen triphosphate | DNEL | Long term Oral       | 1.65 mg/kg bw/day  | General population | Systemic |
|                                   | DNEL | Long term Inhalation | 2.47 mg/m³         | General population | Systemic |
|                                   | DNEL | Long term Inhalation | 11.52 mg/m³        | Workers            | Systemic |
|                                   | DNEL | Long term Dermal     | 16.45 mg/kg bw/day | General population | Systemic |
| zinc oxide                        | DNEL | Long term Dermal     | 32.9 mg/kg bw/day  | Workers            | Systemic |
|                                   | DNEL | Long term Inhalation | 0.5 mg/m³          | Workers            | Local    |
|                                   | DNEL | Long term Oral       | 0.83 mg/kg bw/day  | General population | Systemic |
|                                   | DNEL | Long term Inhalation | 2.5 mg/m³          | General population | Systemic |
|                                   | DNEL | Long term Inhalation | 5 mg/m³            | 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 |
|                                   | DNEL | Long term Oral       | 6.3 mg/kg bw/day   | General population | Systemic |
| 2-butoxyethanol                   |      |                      |                    |                    |          |

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## SECTION 8: Exposure controls/personal protection

|   |      |                       |                         |                    |          |
|---|------|-----------------------|-------------------------|--------------------|----------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | DNEL | Short term Oral       | 26.7 mg/kg bw/day       | General population | Systemic |
|   | DNEL | Long term Inhalation  | 59 mg/m <sup>3</sup>    | General population | Systemic |
|   | DNEL | Long term Inhalation  | 98 mg/m <sup>3</sup>    | Workers            | Systemic |
|   | DNEL | Short term Inhalation | 147 mg/m <sup>3</sup>   | General population | Local    |
|   | DNEL | Short term Inhalation | 246 mg/m <sup>3</sup>   | Workers            | Local    |
|   | DNEL | Short term Inhalation | 426 mg/m <sup>3</sup>   | General population | Systemic |
|   | DNEL | Short term Inhalation | 1091 mg/m <sup>3</sup>  | Workers            | Systemic |
| ammonia, anhydrous  | DNEL | Long term Oral        | 0.56 mg/kg bw/day       | General population | Systemic |
|   | DNEL | Long term Inhalation  | 0.97 mg/m <sup>3</sup>  | General population | Systemic |
|   | DNEL | Long term Dermal      | 1.1 mg/kg bw/day        | Workers            | Systemic |
|   | DNEL | Long term Inhalation  | 3.9 mg/m <sup>3</sup>   | Workers            | Systemic |
|   | DNEL | Long term Inhalation  | 2.8 mg/m <sup>3</sup>   | General population | Local    |
|   | DNEL | Short term Oral       | 6.8 mg/kg bw/day        | General population | Systemic |
|   | DNEL | Long term Oral        | 6.8 mg/kg bw/day        | General population | Systemic |
| maleic anhydride  | DNEL | Short term Dermal     | 6.8 mg/kg bw/day        | Workers            | Systemic |
|   | DNEL | Long term Dermal      | 6.8 mg/kg bw/day        | Workers            | Systemic |
|   | DNEL | Short term Inhalation | 7.2 mg/m <sup>3</sup>   | General population | Local    |
|   | DNEL | Long term Inhalation  | 14 mg/m <sup>3</sup>    | Workers            | Local    |
|   | DNEL | Short term Inhalation | 23.8 mg/m <sup>3</sup>  | General population | Systemic |
|   | DNEL | Long term Inhalation  | 23.8 mg/m <sup>3</sup>  | General population | Systemic |
|   | DNEL | Short term Inhalation | 36 mg/m <sup>3</sup>    | Workers            | Local    |
|   | DNEL | Short term Inhalation | 47.6 mg/m <sup>3</sup>  | Workers            | Systemic |
|   | DNEL | Long term Inhalation  | 47.6 mg/m <sup>3</sup>  | Workers            | Systemic |
|   | DNEL | Short term Dermal     | 68 mg/kg bw/day         | General population | Systemic |
|   | DNEL | Long term Dermal      | 68 mg/kg bw/day         | General population | Systemic |
|   | DNEL | Long term Inhalation  | 0.4 mg/m <sup>3</sup>   | Workers            | Systemic |
|   | DNEL | Long term Inhalation  | 0.4 mg/m <sup>3</sup>   | Workers            | Local    |
|   | DNEL | Long term Inhalation  | 0.081 mg/m <sup>3</sup> | Workers            | Local    |
|   | DNEL | Long term Inhalation  | 0.081 mg/m <sup>3</sup> | Workers            | Systemic |
|   | DNEL | Short term Inhalation | 0.2 mg/m <sup>3</sup>   | Workers            | Local    |
|   | DNEL | Short term Inhalation | 0.2 mg/m <sup>3</sup>   | Workers            | Systemic |
|   | DNEL | Long term Inhalation  | 0.05 mg/m <sup>3</sup>  | General population | Systemic |
|   | DNEL | Long term Oral        | 0.06 mg/kg bw/day       | General population | Systemic |
|   | DNEL | Long term Inhalation  | 0.08 mg/m <sup>3</sup>  | General population | Local    |
|   | DNEL | Short term Oral       | 0.1 mg/kg bw/day        | General population | Systemic |
|   | DNEL | Short term Dermal     | 0.1 mg/kg bw/day        | General population | Systemic |
|   | DNEL | Long term Dermal      | 0.1 mg/kg bw/day        | General population | Systemic |
|   | DNEL | Short term Dermal     | 0.2 mg/kg bw/day        | Workers            | Systemic |
|   | DNEL | Long term Dermal      | 0.2 mg/kg bw/day        | Workers            | Systemic |

### PNECs

| Product/ingredient name | Type | Compartment Detail     | Value          | Method Detail            |
|-------------------------|------|------------------------|----------------|--------------------------|
| 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       |
| 2-butoxyethanol         | -    | Soil                   | 35.6 mg/kg dwt | Sensitivity Distribution |
|                         | -    | Fresh water            | 8.8 mg/l       | Assessment Factors       |
|                         | -    | Marine water           | 0.88 mg/l      | Assessment Factors       |
|                         | -    | Fresh water sediment   | 34.6 mg/kg     | Equilibrium Partitioning |
|                         | -    | Marine water sediment  | 3.46 mg/kg     | Equilibrium Partitioning |
|                         | -    | Soil                   | 3.13 mg/kg     | Equilibrium Partitioning |

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## SECTION 8: Exposure controls/personal protection

|   |   |                        |                  |                          |
|---|---|------------------------|------------------|--------------------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | - | Sewage Treatment Plant | 463 mg/l         | Assessment Factors       |
|   | - | Fresh water            | 0.043 mg/l       | Assessment Factors       |
|   | - | Marine water           | 0 mg/l           | Assessment Factors       |
|   | - | Sewage Treatment Plant | 3.84 mg/l        | Assessment Factors       |
|   | - | Fresh water sediment   | 434.02 mg/kg dwt | Equilibrium Partitioning |
|   | - | Marine water sediment  | 43.4 mg/kg dwt   | Equilibrium Partitioning |
|   | - | Soil                   | 86.78 mg/kg dwt  | Equilibrium Partitioning |
|   | - | Fresh water            | 0.1 mg/l         | Assessment Factors       |
|   | - | Marine water           | 0.01 mg/l        | Assessment Factors       |
|   | - | Sewage Treatment Plant | 44.6 mg/l        | Assessment Factors       |
|   | - | Fresh water sediment   | 0.334 mg/kg dwt  | Equilibrium Partitioning |
|   | - | Marine water sediment  | 0.033 mg/kg dwt  | Equilibrium Partitioning |
|   | - | Soil                   | 0.042 mg/kg dwt  | Equilibrium Partitioning |
|   | - |                        |                  |                          |
| maleic anhydride  |   |                        |                  |                          |

### 8.2 Exposure controls

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### 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.

**Eye/face protection** : Chemical splash goggles and face shield. 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** : polyethylene 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.

**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

: Various
- Odour

: Amine-like.
- Odour threshold

: Not available.
- Melting point/freezing point

: May start to solidify at the following temperature: 0°C (32°F) This is based on data for the following ingredient: water.
- Initial boiling point and boiling range

: >37.78°C
- Flammability

: Not available.
- Upper/lower flammability or explosive limits

: Not available.
- Flash point

: Closed cup: Not applicable.
- Auto-ignition temperature

: Not available.
- Decomposition temperature

: Stable under recommended storage and handling conditions (see Section 7).
- pH

: 8
- Viscosity

: Kinematic (40°C): >21 mm²/s
- Viscosity

: > 100 s (ISO 6mm)
- Solubility(ies)

:

| Media      | Result            |
|------------|-------------------|
| cold water | Partially soluble |

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

Vapour pressure :

| Ingredient name | Vapour Pressure at 20°C |     |        | Vapour pressure at 50°C |     |        |
|-----------------|-------------------------|-----|--------|-------------------------|-----|--------|
|                 | mm Hg                   | kPa | Method | mm Hg                   | kPa | Method |
| water           | 17.5                    | 2.3 |        |                         |     |        |

- Evaporation rate

: Not available.
- Relative density

: 1.41
- Explosive properties

:

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SECTION 9: Physical and chemical 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.

Particle characteristics

**Median particle size** : Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.  
Refer to protective measures listed in sections 7 and 8.

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:  
oxidising agents, strong alkalis, strong acids.

**10.6 Hazardous decomposition products** : Depending on conditions, decomposition products may include the following materials:  
carbon oxides sulfur oxides 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 |
|---|---------------------------------|---------|-------------|----------|
| aluminium dihydrogen triphosphate   | LD50 Oral                       | Rat     | >2000 mg/kg | -        |
|   | LC50 Inhalation Dusts and mists | Rat     | >5700 mg/m³ | 4 hours  |
| 2-butoxyethanol   | LD50 Dermal                     | Rat     | >2000 mg/kg | -        |
|   | LD50 Oral                       | Rat     | >5000 mg/kg | -        |
|   | LC50 Inhalation Vapour          | Rat     | 3 mg/l      | 4 hours  |
|   | LD50 Dermal                     | Rat     | >2000 mg/kg | -        |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | LD50 Oral                       | Rat     | 1200 mg/kg  | -        |
|   | LD50 Dermal                     | Rat     | >2000 mg/kg | -        |
|   | LD50 Oral                       | Rat     | >2000 mg/kg | -        |
| ammonia, anhydrous  | LD50 Oral                       | Rat     | >2000 mg/kg | -        |
|   | LC50 Inhalation Gas.            | Rat     | 9500 ppm    | 1 hours  |
|   | LC50 Inhalation Gas.            | Rat     | 2000 ppm    | 4 hours  |
| maleic anhydride  | LD50 Oral                       | Rat     | 0.35 g/kg   | -        |
|   | LD50 Dermal                     | Rabbit  | 2620 mg/kg  | -        |
|   | LD50 Oral                       | Rat     | 400 mg/kg   | -        |

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

Irritation/Corrosion

|                                 |            |                                |                    |
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SECTION 11: Toxicological information

| Product/ingredient name  | Result                   | Species | Score | Exposure | Observation |
|--|--------------------------|---------|-------|----------|-------------|
| 2-butoxyethanol<br><br>Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Eyes - Irritant          | Rabbit  | -     | 24 hours | 21 days     |
|  | Skin - Moderate irritant | Rabbit  | -     | 4 hours  | 28 days     |
|  | Eyes - Severe irritant   | Rabbit  | -     | -        | -           |
|  | Skin - Irritant          | Human   | -     | -        | -           |

**Conclusion/Summary**

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

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

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

**Sensitisation**

| Product/ingredient name   | Route of exposure | Species | Result      |
|---|-------------------|---------|-------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | skin              | Mouse   | Sensitising |

**Conclusion/Summary**

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

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

**Mutagenicity**

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

**Carcinogenicity**

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

**Reproductive toxicity**

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

**Teratogenicity**

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

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

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|----------|-------------------|---------------|
|                         |          |                   |               |

**Aspiration hazard**

Not available.

**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** : May cause an allergic skin reaction.

**Eye contact** : Causes serious eye damage.

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

**Inhalation** : No specific data.

**Ingestion** : Adverse symptoms may include the following:  
stomach pains

|                                 |  |
|---------------------------------|--|
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## SECTION 11: Toxicological information

**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

**Other information** : Not available.

Sanding and grinding dusts may be harmful if inhaled. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.

### 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

|                                 |            |                                |                    |
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SECTION 12: Ecological information

| Product/ingredient name   | Result                  | Species                                  | Exposure |
|---|-------------------------|--|----------|
| zinc oxide  | Acute EC50 0.17 mg/l    | Algae                                    | 72 hours |
|   | Acute EC50 0.481 mg/l   | Daphnia - <i>Daphnia magna</i> - Neonate | 48 hours |
|   | Fresh water             |  |          |
|   | Chronic NOEC 0.017 mg/l | Algae                                    | 72 hours |
| 2-butoxyethanol   | Fresh water             |  |          |
|   | Acute LC50 1474 mg/l    | Fish                                     | 96 hours |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Chronic NOEC >100 mg/l  | Fish                                     | 21 days  |
|   | EC10 1.78 mg/l          | Algae                                    | 72 hours |

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

12.2 Persistence and degradability

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

| Product/ingredient name   | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| 2-butoxyethanol   | -                 | -          | Readily          |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | -                 | -          | Not readily      |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| 2-butoxyethanol         | 0.81               | -   | Low       |
| maleic anhydride        | -2.78              | -   | Low       |

12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : 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.

|                                 |            |                                |                    |
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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** : Yes.

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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

|                                 | ADR/RID         | ADN   | IMDG            | IATA            |
|---------------------------------|-----------------|---|-----------------|-----------------|
| 14.1 UN number or ID number     | Not regulated.  | 9006  | Not regulated.  | Not regulated.  |
| 14.2 UN proper shipping name    | -               | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | -               | -               |
| 14.3 Transport hazard class(es) | -               | 9   | -               | -               |
| 14.4 Packing group              | -               | -   | -               | -               |
| 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.  
**ADN** : The product is only regulated as a dangerous good when transported in tank vessels.

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14. Transport information

|      |                    |
|------|--------------------|
| 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](#)  
None of the components are listed.

[Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles](#) : Not applicable.

[Explosive precursors](#) : Not applicable.  
[Ozone depleting substances \(1005/2009/EU\)](#)  
Not listed.

[Seveso Directive](#)  
This product is not controlled under the Seveso Directive.

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  
IATA = International Air Transport Association

|                                 |            |                                |                    |
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SECTION 16: Other information

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification  | Justification  |
|---|--|
| Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 | Calculation method<br>Calculation method<br>Calculation method |

Full text of abbreviated H statements

|  |  |
|--|--|
| H221<br>H280<br>H302<br>H314<br>H315<br>H317<br>H318<br>H319<br>H331<br>H334<br><br>H372<br>H400<br>H410<br>H411<br>H412<br>EUH071 | Flammable gas.<br>Contains gas under pressure; may explode if heated.<br>Harmful if swallowed.<br>Causes severe skin burns and eye damage.<br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye damage.<br>Causes serious eye irritation.<br>Toxic if inhaled.<br>May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br><br>Causes damage to organs through prolonged or repeated exposure.<br>Very toxic to aquatic life.<br>Very toxic to aquatic life with long lasting effects.<br>Toxic to aquatic life with long lasting effects.<br>Harmful to aquatic life with long lasting effects.<br>Corrosive to the respiratory tract. |
|--|--|

Full text of classifications [CLP/GHS]

|  |   |
|--|---|
| Acute Tox. 3<br>Acute Tox. 4<br>Aquatic Acute 1<br>Aquatic Chronic 1<br>Aquatic Chronic 2<br>Aquatic Chronic 3<br>Eye Dam. 1<br>Eye Irrit. 2<br>Flam. Gas 2<br>Press. Gas (Comp.)<br>Resp. Sens. 1<br>Skin Corr. 1B<br>Skin Irrit. 2<br>Skin Sens. 1<br>Skin Sens. 1A<br>STOT RE 1 | ACUTE TOXICITY - Category 3<br>ACUTE TOXICITY - Category 4<br>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br>FLAMMABLE GASES - Category 2<br>GASES UNDER PRESSURE - Compressed gas<br>RESPIRATORY SENSITISATION - Category 1<br>SKIN CORROSION/IRRITATION - Category 1B<br>SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITISATION - Category 1<br>SKIN SENSITISATION - Category 1A<br>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
|--|---|

History

|                                 |                    |
|---------------------------------|--------------------|
| Date of issue/ Date of revision | : 21 November 2023 |
| Date of previous issue          | : 25 October 2023  |
| Prepared by                     | : EHS              |
| Version                         | : 4.03             |

Disclaimer

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SECTION 16: Other information

*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.*