

SAFETY DATA SHEET

Date of issue/Date of revision

: 26 June 2025

Version

: 1.02



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

1.1 Product identifier

Product name : FONTEFLOOR EP 100 SEMI-MATT

Product code : SDS-FI80031

Other means of identification

SKU-710030361; SKU-710030361T; SKU-710030366

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

Tikkurila Oyj
P.O. Box 53
FI-01301 VANTAA
FINLAND
Tel. +358 20 191 2000

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

1.4 Emergency telephone number

Supplier

Tikkurila Oyj
+358 20 191 2000 (GMT +2) Mon-Fri 8-16

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.

2.2 Label elements

Code : SDS-FI80031

Date of issue/Date of revision

: 26 June 2025

FONTEFLOOR EP 100 SEMI-MATT

SECTION 2: Hazards identification

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.

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 and maleic anhydride

Supplemental label elements

: Not applicable.

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

: None known.

Code : SDS-FI80031 Date of issue/Date of revision : 26 June 2025
 FONTEFLOOR EP 100 SEMI-MATT

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 EC: 237-714-9 CAS: 13939-25-8 | ≥1.0 - ≤5.0 | Eye Irrit. 2, H319 | - | [1] |
| zinc oxide | REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 | ≥0.30 - <2.5 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| 2-butoxyethanol | REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0 | <1.0 | Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 | ATE [Oral] = 1200 mg/kg 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 EC: 500-191-5 CAS: 68082-29-1 | ≤0.30 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | - | [1] |
| ammonia, anhydrous | REACH #: 01-2119488876-14 EC: 231-635-3 CAS: 7664-41-7 Index: 007-001-00-5 | ≤0.30 | Flam. Gas 2, H221 Press. Gas (Comp.), H280 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 | ATE [Inhalation (gases)] = 2000 ppm M [Acute] = 1 | [1] [2] |
| maleic anhydride | REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9 | ≤0.10 | Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071 | ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001% | [1] [2] |

Code : SDS-FI80031

Date of issue/Date of revision

: 26 June 2025

FONTEFLOOR EP 100 SEMI-MATT

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** : 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.
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.
- 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.

Code : SDS-FI80031 Date of issue/Date of revision : 26 June 2025
FONTEFLOOR EP 100 SEMI-MATT

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:
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".

Code : SDS-FI80031

Date of issue/Date of revision

: 26 June 2025

FONTEFLOOR EP 100 SEMI-MATT

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.

Code : SDS-FI80031 Date of issue/Date of revision : 26 June 2025
 FONTEFLOOR EP 100 SEMI-MATT

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 |
|-------------------------|--|
| 2-butoxyethanol | EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 98 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 246 mg/m ³ . |
| ammonia, anhydrous | EU OEL (Europe, 1/2022) [ammonia, anhydrous] TWA 8 hours: 20 ppm. TWA 8 hours: 14 mg/m ³ . STEL 15 minutes: 50 ppm. STEL 15 minutes: 36 mg/m ³ . |
| maleic anhydride | ACGIH TLV (United States, 1/2024) A4. Skin sensitiser , Inhalation sensitiser. TWA 8 hours: 0.01 mg/m ³ . Form: Inhalable fraction and vapor. |

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 |
|--|---|--|
| aluminium dihydrogen triphosphate | DNEL - General population - Long term - Oral | <i>Effects: Systemic</i> 1.65 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | <i>Effects: Systemic</i> 2.47 mg/m ³ |
| | DNEL - Workers - Long term - Inhalation | <i>Effects: Systemic</i> 11.52 mg/m ³ |
| 2-butoxyethanol | DNEL - General population - Long term - Dermal | <i>Effects: Systemic</i> 16.45 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | <i>Effects: Systemic</i> 32.9 mg/kg bw/day |
| | DNEL - General population - Long term - Oral | <i>Effects: Systemic</i> 6.3 mg/kg bw/day |
| | DNEL - General population - Short term - Oral | <i>Effects: Systemic</i> 26.7 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | <i>Effects: Systemic</i> 59 mg/m ³ |
| | DNEL - Workers - Long term - Inhalation | <i>Effects: Systemic</i> 98 mg/m ³ |
| | DNEL - General population - Short term - Inhalation | <i>Effects: Local</i> 147 mg/m ³ |
| | DNEL - Workers - Short term - Inhalation | <i>Effects: Local</i> 246 mg/m ³ |
| | DNEL - General population - Short term - Inhalation | <i>Effects: Systemic</i> 426 mg/m ³ |
| | DNEL - Workers - Short term - Inhalation | <i>Effects: Systemic</i> 1091 mg/m ³ |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil | DNEL - General population - Long term - Oral | <i>Effects: Systemic</i> 97.2 µg/kg bw/day |

Code : SDS-FI80031

Date of issue/Date of revision

: 26 June 2025

FONTFLOOR EP 100 SEMI-MATT

SECTION 8: Exposure controls/personal protection

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| fatty acids and triethylenetetramine | DNEL - General population - Long term - Dermal | <i>Effects: Systemic</i> | 97.2 µg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | <i>Effects: Systemic</i> | 0.169 mg/m ³ |
| ammonia, anhydrous | DNEL - Workers - Long term - Dermal | <i>Effects: Systemic</i> | 0.272 mg/kg bw/day |
| | DNEL - Workers - Long term - Inhalation | <i>Effects: Systemic</i> | 0.952 mg/m ³ |
| | DNEL - General population - Long term - Inhalation | <i>Effects: Local</i> | 2.8 mg/m ³ |
| | DNEL - General population - Short term - Oral | <i>Effects: Systemic</i> | 6.8 mg/kg bw/day |
| | DNEL - General population - Long term - Oral | <i>Effects: Systemic</i> | 6.8 mg/kg bw/day |
| | DNEL - Workers - Short term - Dermal | <i>Effects: Systemic</i> | 6.8 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | <i>Effects: Systemic</i> | 6.8 mg/kg bw/day |
| | DNEL - General population - Short term - Inhalation | <i>Effects: Local</i> | 7.2 mg/m ³ |
| | DNEL - Workers - Long term - Inhalation | <i>Effects: Local</i> | 14 mg/m ³ |
| | DNEL - General population - Short term - Inhalation | <i>Effects: Systemic</i> | 23.8 mg/m ³ |
| maleic anhydride | DNEL - General population - Long term - Inhalation | <i>Effects: Systemic</i> | 23.8 mg/m ³ |
| | DNEL - Workers - Short term - Inhalation | <i>Effects: Local</i> | 36 mg/m ³ |
| | DNEL - Workers - Short term - Inhalation | <i>Effects: Systemic</i> | 47.6 mg/m ³ |
| | DNEL - Workers - Long term - Inhalation | <i>Effects: Systemic</i> | 47.6 mg/m ³ |
| | DNEL - General population - Short term - Dermal | <i>Effects: Systemic</i> | 6.8 mg/kg bw/day |
| | DNEL - General population - Long term - Dermal | <i>Effects: Systemic</i> | 6.8 mg/kg bw/day |
| | DNEL - Workers - Long term - Inhalation | <i>Effects: Systemic</i> | 0.4 mg/m ³ |
| | DNEL - Workers - Long term - Inhalation | <i>Effects: Local</i> | 0.4 mg/m ³ |
| | DNEL - General population - Long term - Inhalation | <i>Effects: Systemic</i> | 0.05 mg/m ³ |
| | DNEL - General population - Long term - Oral | <i>Effects: Systemic</i> | 0.06 mg/kg bw/day |
| | DNEL - General population - Long term - Inhalation | <i>Effects: Local</i> | 0.08 mg/m ³ |
| | DNEL - Workers - Long term - Inhalation | <i>Effects: Local</i> | 0.081 mg/m ³ |
| | DNEL - Workers - Long term - Inhalation | <i>Effects: Systemic</i> | 0.081 mg/m ³ |
| | DNEL - General population - Short term - Oral | <i>Effects: Systemic</i> | 0.1 mg/kg bw/day |
| | DNEL - General population - Short term - Dermal | <i>Effects: Systemic</i> | 0.1 mg/kg bw/day |
| | DNEL - General population - Long term - Dermal | <i>Effects: Systemic</i> | 0.1 mg/kg bw/day |
| | DNEL - Workers - Short term - Dermal | <i>Effects: Systemic</i> | 0.2 mg/kg bw/day |
| | DNEL - Workers - Long term - Dermal | <i>Effects: Systemic</i> | 0.2 mg/kg bw/day |
| DNEL - Workers - Short term - Inhalation | <i>Effects: Local</i> | 0.2 mg/m ³ | |
| DNEL - Workers - Short term - Inhalation | <i>Effects: Systemic</i> | 0.2 mg/m ³ | |

PNECs

| Product/ingredient name | Compartment Detail - Method | Value |
|-----------------------------------|--|----------------|
| zinc oxide | 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 |
| 2-butoxyethanol | Soil - Sensitivity Distribution | 35.6 mg/kg dwt |
| | Fresh water - Assessment Factors | 8.8 mg/l |
| | Marine water - Assessment Factors | 0.88 mg/l |
| | Fresh water sediment - Equilibrium Partitioning | 34.6 mg/kg |
| | Marine water sediment - Equilibrium Partitioning | 3.46 mg/kg |
| | Soil - Equilibrium Partitioning | 3.13 mg/kg |
| | Sewage Treatment Plant - Assessment Factors | 463 mg/l |
| Fatty acids, C18-unsatd., dimers, | Fresh water - Assessment Factors | 0.043 mg/l |

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| Code : SDS-FI80031 | Date of issue/Date of revision : 26 June 2025 |
| FONTFLOOR EP 100 SEMI-MATT | |

SECTION 8: Exposure controls/personal protection

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

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.

Code : SDS-FI80031

Date of issue/Date of revision

: 26 June 2025

FONTEFLOOR EP 100 SEMI-MATT

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.
- 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: Not applicable.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Stable under recommended storage and handling conditions (see Section 7).
- pH** : 8
- Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): >21 mm²/s
- Viscosity** : > 100 s (ISO 6mm)
- Solubility** :

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

- Partition coefficient n-octanol/ water (log Pow)** : 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 | | | | |

- Relative density** : 1.39

Particle characteristics

- Median particle size** : Not applicable.

9.2 Other information

Code : SDS-FI80031 Date of issue/Date of revision : 26 June 2025
 FONTEFLOOR EP 100 SEMI-MATT

SECTION 9: Physical and chemical properties

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. 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: 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 damage.

May cause an allergic skin reaction.

Acute toxicity

| Product/ingredient name | Result | Dose / Exposure |
|---|---|-----------------------------------|
| aluminium dihydrogen triphosphate | Rat - Oral - LD50 | >2000 mg/kg |
| zinc oxide | Rat - Oral - LD50 | >5000 mg/kg |
| | Rat - Dermal - LD50 | >2000 mg/kg |
| | Rat - Inhalation - LC50 Dusts and mists | >5700 mg/m ³ [4 hours] |
| 2-butoxyethanol | Rat - Oral - LD50 | 1200 mg/kg |
| | Rat - Dermal - LD50 | >2000 mg/kg |
| | Rat - Inhalation - LC50 Vapour | 3 mg/l [4 hours] |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Rat - Dermal - LD50 | >2000 mg/kg |
| ammonia, anhydrous | Rat - Oral - LD50 | >2000 mg/kg |
| | Rat - Oral - LD50 | 0.35 g/kg |
| | Rat - Inhalation - LC50 Gas. | 2000 ppm [4 hours] |
| | Rat - Inhalation - LC50 Gas. | 9500 ppm [1 hours] |
| | Rat - Inhalation - LC50 Vapour | 4673 mg/m ³ [4 hours] |
| maleic anhydride | Rabbit - Dermal - LD50 | 2620 mg/kg |
| | Rat - Oral - LD50 | 400 mg/kg |

Acute toxicity estimates

Code : SDS-FI80031 Date of issue/Date of revision : 26 June 2025
 FONTEFLOOR EP 100 SEMI-MATT

SECTION 11: Toxicological information

| Route | ATE value |
|----------------------|----------------|
| Inhalation (gases) | 1389481.35 ppm |
| Inhalation (vapours) | 522.73 mg/l |

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

Irritation/Corrosion

| Product/ingredient name | Result |
|---|--|
| 2-butoxyethanol | <u>Rabbit - Skin - Moderate irritant</u> Duration of treatment/exposure: 4 hours Observation period: 28 days |
| - | <u>Rabbit - Eyes - Irritant</u> Duration of treatment/exposure: 24 hours Observation period: 21 days |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | <u>Human - Skin - Irritant</u> |
| - | <u>Rabbit - Eyes - Severe irritant</u> |

Conclusion/Summary

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

Eyes : Causes serious eye damage.

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

Respiratory or skin sensitization

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

Conclusion/Summary

Skin : May cause an allergic skin reaction.

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)

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

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|--------------------|
| maleic anhydride | Category 1 | inhalation | respiratory system |

Conclusion/Summary :

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

Code : SDS-FI80031

Date of issue/Date of revision

: 26 June 2025

FONTEFLOOR EP 100 SEMI-MATT

SECTION 11: Toxicological information

Aspiration hazard

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 : 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

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 : 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 : 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 : 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

Code : SDS-FI80031 Date of issue/Date of revision : 26 June 2025
 FONTEFLOOR EP 100 SEMI-MATT

SECTION 11: Toxicological information

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 |
|---|------------------------------|--|-----------------------|
| zinc oxide | 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] |
| 2-butoxyethanol | Acute - LC50 | Fish | 1474 mg/l [96 hours] |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Chronic - NOEC | Fish | >100 mg/l [21 days] |
| | EC10 | Algae | 1.78 mg/l [72 hours] |

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

12.2 Persistence and degradability

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

| 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 _{ow} | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| 2-butoxyethanol | 0.81 | - | Low |
| maleic anhydride | -2.78 | - | Low |

12.4 Mobility in soil

Soil/water partition coefficient

Code : SDS-FI80031 Date of issue/Date of revision : 26 June 2025
FONTEFLOOR EP 100 SEMI-MATT

SECTION 12: Ecological information

| Product/ingredient name | logKoc | Koc |
|-------------------------|--------|---------|
| 2-butoxyethanol | 1.83 | 67.3685 |
| maleic anhydride | 1.06 | 11.4841 |

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.

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

| | |
|-----------------------------|---|
| Code : SDS-FI80031 | Date of issue/Date of revision : 26 June 2025 |
| FONTEFLOOR EP 100 SEMI-MATT | |

SECTION 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.
 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](#)

| Product/ingredient name | Entry Number (REACH) |
|-----------------------------|------------------------|
| FONTEFLOOR EP 100 SEMI-MATT | 3 |

Labelling : Not applicable.

Explosive precursors : Not applicable.

[Ozone depleting substances \(EU 2024/590\)](#)

Code : SDS-FI80031 Date of issue/Date of revision : 26 June 2025
FONTEFLOOR EP 100 SEMI-MATT

SECTION 15: Regulatory information

Not listed.

VOC for Ready-for-Use Mixture : IIA/j. Two-pack reactive performance coatings for specific end use such as floors. EU limit values: 140 g/l (2010.)
This product contains a maximum of 140 g/l VOC.

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

Full text of abbreviated H statements

| | |
|--------|--|
| H221 | Flammable gas. |
| H280 | Contains gas under pressure; may explode if heated. |
| H302 | Harmful if swallowed. |
| 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. |
| H331 | Toxic if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH071 | Corrosive to the respiratory tract. |

Full text of classifications [CLP/GHS]

Code : SDS-FI80031 Date of issue/Date of revision : 26 June 2025
FONTEFLOOR EP 100 SEMI-MATT

SECTION 16: Other information

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

History

Date of issue/ Date of revision : 26 June 2025

revision

Date of previous issue : 13 March 2025

Prepared by : EHS

Version : 1.02

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