

## Safety Data Sheet

### Primer 4T

#### Revision:

17 September 2021

Supersedes version: January 30, 2020

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

### 1.1. Product Identifier

Primer 4T

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

Single-component water-based acrylic primer for microcements.

### 1.3. Detail of the supplier of the safety data sheet

Ecobeton Italy Srl  
Via G.Galilei, 47  
36030 Costabissara, Vicenza - Italy  
Phone: +39.0444.971893  
Email: info@ecobeton.it**National Distributor**  
Ecobeton Italy Srl

#### Information about the Safety Data Sheet:

tecnica@ecobeton.it

### 1.4. Emergency telephone number

Italy - Italia | Verona Integrated Hospital Company: 800 011 858

Full list at: [preparatipericolosi.iss.it](http://preparatipericolosi.iss.it)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### EC regulation criteria 1272/2008 (CLP):

Not a hazardous substance or mixture.

The product contains dangerous substances in a concentration such as to be declared in section 3

### 2.2. Label elements

No labeling according to GHS required.

|         |                                                                                                                                         |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| EUH 208 | Contains reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one. May produce an allergic reaction. |
| EUH 210 | Safety data sheet available on request.                                                                                                 |

DIRECTIVE 2004/42/EC on the limitation of emissions of volatile organic compounds

| Product Subcategory | Product VOC Content | Maximum VOC Content Limit |
|---------------------|---------------------|---------------------------|
| Primer              | 16.16 g/L           | 30 g/L                    |

### 2.3. Other Hazards

PBT: none

vPvB: none

The product is not listed or identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100.

Other Hazards: none

## SECTION 3: Composition/information on ingredients

### Chemical identity:

acrylic resin

### 3.2. Mixtures

| CAS / EC-No.                                                             | Component                                                                                 | Concentration | Classification: REGULATION (EC) No 1272/2008                                                                                                                                                             | Notes                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS no: 111-76-2<br>EC no: 203-905-0<br>Reach no:                        | 2-butoxyethanol<br>IUPAC: Butoxyethanol                                                   | 0.5 - 1.0 %   | Substance with a community workplace exposure limit.<br>Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>Acute Tox. 4 - H302<br>Acute Tox. 4 - H312<br>Acute Tox. 3 - H331                                 | ATE:<br>LD50 Oral: 1746 mg/kg bw/day, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/L, ATE Inhalation mist/dust: 1,5 mg/L                                                                                                                                                                          |
| CAS no: 112-34-5<br>EC no: 203-961-6<br>Reach no: 01-2119475104-44-XXXX  | 2-(2-butoxyethoxy)ethanol                                                                 | 0.5 - 1.0 %   | Substance with a community workplace exposure limit.<br>Eye Irrit. 2 - H319                                                                                                                              |                                                                                                                                                                                                                                                                                                            |
| CAS no: 14808-60-7<br>EC no: 238-878-4<br>Reach no:                      | Quartz (SiO2) - fine fraction                                                             | < 0.5 %       | Substance with a community workplace exposure limit.                                                                                                                                                     |                                                                                                                                                                                                                                                                                                            |
| CAS no: 34590-94-8<br>EC no: 252-104-2<br>Reach no: 01-2119450011-XXXX   | (2-methoxymethylethoxy)propanol<br>IUPAC: Dipropylene glycol, monomethyl ether            | < 0.5 %       | Substance with a community workplace exposure limit.                                                                                                                                                     |                                                                                                                                                                                                                                                                                                            |
| CAS no: 1336-21-6<br>EC no: 215-647-6<br>Reach no: 01-2119488876-14-XXXX | Ammonia, aqueous solution                                                                 | < 0.5 %       | Eye Dam. 1 - H318<br>STOT SE 3 - H335<br>Skin Corr. 1A - H314<br>Aquatic Acute 1 - H400                                                                                                                  | Conc. limit:<br>Annex VI CLP: Note B<br>STOT SE 3 H335: ≥ 5%<br><br>M-Factor: M=1                                                                                                                                                                                                                          |
| CAS no: 55965-84-9<br>EC no: 911-418-6<br>Reach no: 01-2120764691-48     | Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one | < 0.0015 %    | Skin Corr. 1A - H314<br>Eye Dam. 1 - H318<br>Acute Tox. 2 - H310<br>Acute Tox. 2 - H330<br>Acute Tox. 3 - H301<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410<br>Skin Sens. 1 - H317<br>- EUH 071 | Conc. limit:<br>Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1A H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%<br><br>ATE:<br>LD50 Oral: 53 mg/kg, ATE Dermal: 50,001 mg/kg, ATE Inhalation vapours: 0,501 mg/l<br><br>M-Factor: Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100 |

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

**General advice:** Under ordinary workplace conditions: No special measures required.

**Inhalation:** If effects occur, consult a physician. Move person to fresh air.

**Skin contact:** Wash with plenty of water or water and soap. Take off contaminated clothing. Seek medical attention if symptoms occur or irritation persists. Wash clothing before reuse.

**Eye contact:** Remove contact lenses, if present and easy to do. Wash eyes immediately and continuously with water for 30 minutes. Seek medical advice in case of continuous irritation.

**Ingestion:** Do NOT induce vomiting. Drink plenty of water. If effects occur, consult a physician.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

**Suitable extinguishing media:** All extinguishing agents can be used.

**Unsuitable extinguishing media:** None known.

5.2. Special hazards arising from the substance or mixture

Avoid breathing combustion products.

5.3. Advice for firefighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

**For non-emergency personnel:** Use personal protective equipment. Avoid contact with skin and eyes.

**For emergency responders:** Stop the leak if the operation is safe. Avoid contact with skin and eyes. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

## 6.2. Environmental precautions

Prevent the product from entering sewers, surface water, groundwater.

## 6.3. Methods and materials for containment and cleaning up

Suck up the leaked product into a suitable container. Clean up remaining materials from spill with suitable absorbant.

## 6.4. Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Do not swallow. Do not eat, drink or smoke during use.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep in properly labelled containers. Protect against frost.

**Do not store with the following product types:** None known.

**Unsuitable materials for containers:** None known.

### 7.3. Specific end use(s)

See the technical data sheet on this product for further information.

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## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TLV Occupational exposure limit of the entire mixture: Not available  
TLV Occupational exposure limit of the ingredients:

2-butoxyethanol

| Region         | Legislation                                    | Long-term Exposure Limit (LTEL) Values |      |      | Short-term Exposure Limit (STEL) Values |      |      | Skin Designation | Dermal Sensitization | Respiratory Sensitization | Work Sector | Effective Date | Expiration Date | Miscellaneous Notes |
|----------------|------------------------------------------------|----------------------------------------|------|------|-----------------------------------------|------|------|------------------|----------------------|---------------------------|-------------|----------------|-----------------|---------------------|
|                |                                                | mg/m³                                  | ppm  | f/ml | mg/m³                                   | ppm  | f/ml |                  |                      |                           |             |                |                 |                     |
| European Union | OELs - Occupational Exposure Limits - 1st list | 98.0                                   | 20.0 |      | 246.0                                   | 50.0 |      | Yes              |                      |                           |             |                |                 |                     |

2-(2-butoxyethoxy)ethanol

| Region         | Legislation                                    | Long-term Exposure Limit (LTEL) Values |      |      | Short-term Exposure Limit (STEL) Values |      |      | Skin Designation | Dermal Sensitization | Respiratory Sensitization | Work Sector | Effective Date | Expiration Date | Miscellaneous Notes |
|----------------|------------------------------------------------|----------------------------------------|------|------|-----------------------------------------|------|------|------------------|----------------------|---------------------------|-------------|----------------|-----------------|---------------------|
|                |                                                | mg/m³                                  | ppm  | f/ml | mg/m³                                   | ppm  | f/ml |                  |                      |                           |             |                |                 |                     |
| European Union | OELs - Occupational Exposure Limits - 2nd list | 67.5                                   | 10.0 |      | 101.2                                   | 15.0 |      |                  |                      |                           |             |                |                 |                     |

Quartz (SiO2) - fine fraction

| Region | Legislation | Long-term Exposure Limit (LTEL) Values |     | Short-term Exposure Limit (STEL) Values |     | Skin Designation | Dermal Sensitization | Respiratory Sensitization |
|--------|-------------|----------------------------------------|-----|-----------------------------------------|-----|------------------|----------------------|---------------------------|
|        |             | mg/m³                                  | ppm | mg/m³                                   | ppm |                  |                      |                           |
| USA    | ACGIH       | 0.025 mg/m³                            |     |                                         |     |                  |                      |                           |
| Europe | OEL         | 0.1 mg/m³                              |     |                                         |     |                  |                      |                           |

(2-methoxymethylethoxy)propanol

| Region         | Legislation                                    | Long-term Exposure Limit (LTEL) Values |      | Short-term Exposure Limit (STEL) Values |     | Skin Designation | Dermal Sensitization | Respiratory Sensitization |
|----------------|------------------------------------------------|----------------------------------------|------|-----------------------------------------|-----|------------------|----------------------|---------------------------|
|                |                                                | mg/m³                                  | ppm  | mg/m³                                   | ppm |                  |                      |                           |
| European Union | OELs - Occupational Exposure Limits - 1st list | 308.0                                  | 50.0 |                                         |     | Yes              |                      |                           |

DNEL Exposure limit values for the whole mixture: Not available  
DNEL Exposure limit values of the ingredients:

2-butoxyethanol

Data for WORKERS

| INHALATION Exposure |  | Threshold            | DERMAL Exposure     |  | Threshold                            | EYE Exposure                         |  |
|---------------------|--|----------------------|---------------------|--|--------------------------------------|--------------------------------------|--|
| Systemic Effects    |  |                      | Systemic Effects    |  |                                      | Medium hazard (no threshold derived) |  |
| Long-term:          |  | (DNEL) 98 mg/m³      | Long-term:          |  | Low hazard (no threshold derived)    |                                      |  |
| Acute / short term: |  | (DNEL) 1 091 mg/m³   | Acute / short term: |  | No hazard identified                 |                                      |  |
| Local Effects       |  |                      | Local Effects       |  |                                      |                                      |  |
| Long-term:          |  | No hazard identified | Long-term:          |  | No hazard identified                 |                                      |  |
| Acute / short term: |  | (DNEL) 246 mg/m³     | Acute / short term: |  | Medium hazard (no threshold derived) |                                      |  |

Data for GENERAL POPULATION

| INHALATION Exposure |  | Threshold            | DERMAL Exposure     |  | Threshold                            | ORAL Exposure       |  | Threshold                | EYE Exposure                         |  |
|---------------------|--|----------------------|---------------------|--|--------------------------------------|---------------------|--|--------------------------|--------------------------------------|--|
| Systemic Effects    |  |                      | Systemic Effects    |  |                                      | Systemic Effects    |  |                          | Medium hazard (no threshold derived) |  |
| Long-term:          |  | (DNEL) 59 mg/m³      | Long-term:          |  | No hazard identified                 | Long-term:          |  | (DNEL) 26.7 mg/kg bw/day |                                      |  |
| Acute / short term: |  | (DNEL) 426 mg/m³     | Acute / short term: |  | No hazard identified                 | Acute / short term: |  | (DNEL) 6.3 mg/kg bw/day  |                                      |  |
| Local Effects       |  |                      | Local Effects       |  |                                      |                     |  |                          |                                      |  |
| Long-term:          |  | No hazard identified | Long-term:          |  | No hazard identified                 |                     |  |                          |                                      |  |
| Acute / short term: |  | (DNEL) 147 mg/m³     | Acute / short term: |  | Medium hazard (no threshold derived) |                     |  |                          |                                      |  |

2-(2-butoxyethoxy)ethanol

Data for WORKERS

| INHALATION Exposure |  | Threshold            | DERMAL Exposure     |  | Threshold                         | EYE Exposure                         |  |
|---------------------|--|----------------------|---------------------|--|-----------------------------------|--------------------------------------|--|
| Systemic Effects    |  |                      | Systemic Effects    |  |                                   | Medium hazard (no threshold derived) |  |
| Long-term:          |  | No hazard identified | Long-term:          |  | No hazard identified              |                                      |  |
| Acute / short term: |  | No hazard identified | Acute / short term: |  | No hazard identified              |                                      |  |
| Local Effects       |  |                      | Local Effects       |  |                                   |                                      |  |
| Long-term:          |  | (DNEL) 67.5 mg/m³    | Long-term:          |  | Low hazard (no threshold derived) |                                      |  |
| Acute / short term: |  | (DNEL) 101.2 mg/m³   | Acute / short term: |  | No hazard identified              |                                      |  |

Data for GENERAL POPULATION

| INHALATION Exposure |  | Threshold                         | DERMAL Exposure     |  | Threshold            | ORAL Exposure       |  | Threshold                | EYE Exposure                         |  |
|---------------------|--|-----------------------------------|---------------------|--|----------------------|---------------------|--|--------------------------|--------------------------------------|--|
| Systemic Effects    |  |                                   | Systemic Effects    |  |                      | Systemic Effects    |  |                          | Medium hazard (no threshold derived) |  |
| Long-term:          |  | No hazard identified              | Long-term:          |  | No hazard identified | Long-term:          |  | No hazard identified     |                                      |  |
| Acute / short term: |  | No hazard identified              | Acute / short term: |  | No hazard identified | Acute / short term: |  | (DNEL) 6.25 mg/kg bw/day |                                      |  |
| Local Effects       |  |                                   | Local Effects       |  |                      |                     |  |                          |                                      |  |
| Long-term:          |  | Low hazard (no threshold derived) | Long-term:          |  | No hazard identified |                     |  |                          |                                      |  |
| Acute / short term: |  | Low hazard (no threshold derived) | Acute / short term: |  | No hazard identified |                     |  |                          |                                      |  |

Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one

Data for WORKERS

| INHALATION Exposure |  | Threshold            | DERMAL Exposure     |  | Threshold                            | EYE Exposure                       |  |
|---------------------|--|----------------------|---------------------|--|--------------------------------------|------------------------------------|--|
| Systemic Effects    |  |                      | Systemic Effects    |  |                                      | High hazard (no threshold derived) |  |
| Long-term:          |  | No hazard identified | Long-term:          |  | No hazard identified                 |                                    |  |
| Acute / short term: |  | No hazard identified | Acute / short term: |  | No hazard identified                 |                                    |  |
| Local Effects       |  |                      | Local Effects       |  |                                      |                                    |  |
| Long-term:          |  | (DNEL) 20 µg/m³      | Long-term:          |  | No hazard identified                 |                                    |  |
| Acute / short term: |  | (DNEL) 40 µg/m³      | Acute / short term: |  | Medium hazard (no threshold derived) |                                    |  |

Data for GENERAL POPULATION

| INHALATION Exposure |  | Threshold            | DERMAL Exposure     |  | Threshold                            | ORAL Exposure       |  | Threshold               | EYE Exposure                       |  |
|---------------------|--|----------------------|---------------------|--|--------------------------------------|---------------------|--|-------------------------|------------------------------------|--|
| Systemic Effects    |  |                      | Systemic Effects    |  |                                      | Systemic Effects    |  |                         | High hazard (no threshold derived) |  |
| Long-term:          |  | No hazard identified | Long-term:          |  | No hazard identified                 | Long-term:          |  | (DNEL) 110 µg/kg bw/day |                                    |  |
| Acute / short term: |  | No hazard identified | Acute / short term: |  | No hazard identified                 | Acute / short term: |  | (DNEL) 90 µg/kg bw/day  |                                    |  |
| Local Effects       |  |                      | Local Effects       |  |                                      |                     |  |                         |                                    |  |
| Long-term:          |  | (DNEL) 20 µg/m³      | Long-term:          |  | No hazard identified                 |                     |  |                         |                                    |  |
| Acute / short term: |  | (DNEL) 40 µg/m³      | Acute / short term: |  | Medium hazard (no threshold derived) |                     |  |                         |                                    |  |

PNEC Exposure limit values for the entire mixture: Not available  
PNEC Exposure limit values of the ingredients:

| 2-butoxyethanol                      |                        |
|--------------------------------------|------------------------|
| Hazard for Aquatic Organism          |                        |
| Freshwater                           | 8.8 mg/L               |
| Intermittent releases (freshwater)   | 26.4 mg/L              |
| Marine water                         | 880 µg/L               |
| Intermittent releases (marine water) | -                      |
| Sewage treatment plant (STP)         | 463 mg/L               |
| Sediment (freshwater)                | 34.6 mg/kg sediment dw |
| Sediment (marine water)              | 3.46 mg/kg sediment dw |
| Hazard for Air                       |                        |
| Air                                  | No hazard identified   |
| Hazard for Terrestrial Organism      |                        |
| Soil                                 | 2.33 mg/kg soil dw     |
| Hazard for Predators                 |                        |
| Secondary poisoning                  | 20 mg/kg food          |

| 2-(2-butoxyethoxy)ethanol            |                       |
|--------------------------------------|-----------------------|
| Hazard for Aquatic Organism          |                       |
| Freshwater                           | 1.1 mg/L              |
| Intermittent releases (freshwater)   | 11 mg/L               |
| Marine water                         | 110 µg/L              |
| Intermittent releases (marine water) | -                     |
| Sewage treatment plant (STP)         | No hazard identified  |
| Sediment (freshwater)                | 4.4 mg/kg sediment dw |
| Sediment (marine water)              | 440 µg/kg sediment dw |
| Hazard for Air                       |                       |
| Air                                  | No hazard identified  |
| Hazard for Terrestrial Organism      |                       |
| Soil                                 | 320 µg/kg soil dw     |
| Hazard for Predators                 |                       |
| Secondary poisoning                  | 56 mg/kg food         |

| Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one |                                  |
|-------------------------------------------------------------------------------------------|----------------------------------|
| Hazard for Aquatic Organism                                                               |                                  |
| Freshwater                                                                                | 3.39 µg/L                        |
| Intermittent releases (freshwater)                                                        | 3.39 µg/L                        |
| Marine water                                                                              | 3.39 µg/L                        |
| Intermittent releases (marine water)                                                      | 3.39 µg/L                        |
| Sewage treatment plant (STP)                                                              | 230 µg/L                         |
| Sediment (freshwater)                                                                     | 27 µg/kg sediment dw             |
| Sediment (marine water)                                                                   | 27 µg/kg sediment dw             |
| Hazard for Air                                                                            |                                  |
| Air                                                                                       | No hazard identified             |
| Hazard for Terrestrial Organism                                                           |                                  |
| Soil                                                                                      | 10 µg/kg soil dw                 |
| Hazard for Predators                                                                      |                                  |
| Secondary poisoning                                                                       | No potential for bioaccumulation |

8.2. Exposure controls

Appropriate engineering controls: No special measures required.

Individual protection measures

- Eye/Face protection: Use protective goggles.
- Skin Protection: Hand Protection: Use of protective gloves is recommended when handling the material. Other: Wear professional long-sleeved work clothes and safety footwear (category S2 or superior).
- Respiratory protection: No specific indication.
- Thermal hazards: Not Available.

Environmental exposure controls

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

## SECTION 9: Physical and chemical properties

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

|                                                          |                             |
|----------------------------------------------------------|-----------------------------|
| Physical state                                           | liquid                      |
| Colour                                                   | grey                        |
| Odour                                                    | typical                     |
| Melting point/freezing point                             | n.d.                        |
| Boiling point or initial boiling point and boiling range | n.d.                        |
| Flammability                                             | n.a. (non flammable liquid) |
| Lower and upper explosion limit                          | n.d.                        |
| Flash point                                              | > 60 °C                     |
| Auto-ignition temperature                                | n.a. (non flammable liquid) |
| Decomposition temperature                                | n.d.                        |
| pH                                                       | 6.9                         |
| Kinematic viscosity                                      | n.d.                        |
| Solubility                                               | n.d.                        |
| Partition coefficient n-octanol/water (log value)        | n.a. (mixture)              |
| Vapour pressure                                          | n.d.                        |
| Density and/or relative density                          | 1,16                        |
| Relative vapour density                                  | n.d.                        |
| Particle characteristics                                 | n.a. (liquid)               |

### 9.2. Other information

No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not classified as a reactivity hazard.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

In normal conditions of use and storage no dangerous reactions are foreseeable.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

No one in particular.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008****Acute toxicity**

**Acute oral toxicity** Based on available data, the classification criteria are not met.

**Acute dermal toxicity** Based on available data, the classification criteria are not met.

**Acute inhalation toxicity** Based on available data, the classification criteria are not met.

**Toxicity details of the ingredients:**2-butoxyethanol

| Route of exposure | Result/Effect                               | Species/Test system | Source |
|-------------------|---------------------------------------------|---------------------|--------|
| Oral              | Adverse effect observed LD50 1 300 mg/kg bw | Guinea pig          | ECHA   |

**Skin corrosion/irritation**

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

**Corrosion/irritation details of the ingredients:**2-butoxyethanol

| Result/Effect                        | Species/Test system | Source |
|--------------------------------------|---------------------|--------|
| Adverse effect observed (irritating) | -                   | ECHA   |

**Serious eye damage/eye irritation**

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

**Eye damage/irritation details of the ingredients:**2-butoxyethanol

| Result/Effect                        | Species/Test system | Source |
|--------------------------------------|---------------------|--------|
| Adverse effect observed (irritating) | -                   | ECHA   |

**Respiratory or skin sensitization**

Based on the available data a sensitization reaction is not expected from this product.

**Respiratory/Skin sensitization details of the ingredients:**2-butoxyethanol

| Result/Effect                               | Species/Test system | Source |
|---------------------------------------------|---------------------|--------|
| No adverse effect observed (not irritating) | -                   | ECHA   |

**Germ cell 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 Systemic Toxicity (Single Exposure)**

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

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

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

**Aspiration Hazard**

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

**11.2. Information on other hazards****11.2.1. Endocrine disrupting properties**

The substance/mixture does not contain any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**11.2.2. Other information** None available.

## SECTION 12: Ecological information

### 12.1. Toxicity

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

#### Ingredients details:

2-butoxyethanol

| Result/Effect                                                                 | Species/Test system                | Source |
|-------------------------------------------------------------------------------|------------------------------------|--------|
| LC50 (4 days) 1.474 g/L                                                       | Fish (short-term)                  | ECHA   |
| NOEC (21 days) 100 mg/L<br>NOEC (14 days) 100 mg/L                            | Fish (long-term)                   | ECHA   |
| EC50 (48 h) 1.55 - 1.8 g/L                                                    | Aquatic invertebrates (short-term) | ECHA   |
| NOEC (21 days) 100 mg/L<br>EC10 (21 days) 134 mg/L<br>EC50 (21 days) 297 mg/L | Aquatic invertebrates (long-term)  | ECHA   |
| EC50 623 mg/L<br>EC10 or NOEC 88 mg/L                                         | Freshwater algae                   | ECHA   |
| EC10 or NOEC 463 mg/L                                                         | Microorganisms                     | ECHA   |
| EC50 / LC50: 11 400 mg/kg sediment dw                                         | Freshwater sediment                | ECHA   |

### 12.2. Persistence and degradability

No information available.

#### Ingredients details:

2-butoxyethanol

|                                           | Results/Summaries            | Source |
|-------------------------------------------|------------------------------|--------|
| Biodegradation in water - screening tests | Readily biodegradable (100%) | ECHA   |

### 12.3. Bioaccumulative potential

No adverse effects expected.

### 12.4. Mobility in soil

No adverse effects expected.

### 12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII. This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

### 12.6. Endocrine disrupting properties

None known.

### 12.7. Other adverse effects

According to present knowledge no adverse influence to environment expected.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Containers may be recycled or re-used. Product residues to be considered non-hazardous waste. Do not dump into any sewers, on the ground, or into any body of water.

**SECTION 14: Transport information**

|                                                               |                                                              |
|---------------------------------------------------------------|--------------------------------------------------------------|
| 14.1. UN number or ID number                                  | Not regulated for transport.                                 |
| 14.2. Proper shipping name                                    | Not regulated for transport.                                 |
| 14.3. Transport hazard class(es)                              | Not regulated for transport.                                 |
| 14.4. Packing group                                           | Not regulated for transport.                                 |
| 14.5. Environmental hazards                                   | Not Hazardous to the environment.                            |
| 14.6. Special precautions for user                            | Relevant information in other sections has to be considered. |
| 14.7. Maritime transport in bulk according to IMO instruments | Bulk transport in tankers is not intended.                   |

**SECTION 15: Regulatory Information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

|                                                                                                                                                                                                                                                                                        |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Directive 2004/42/EC of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC | Primer          |
| Other safety, health and environmental regulations/legislation specific for the substance or mixture:                                                                                                                                                                                  | None available. |

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture.

**SECTION 16: Other information****Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008**

The information contained in this Safety Data Sheet is derived from the data provided by the suppliers of the components of the mixture, that we verified adequate and reliable by analogy with similar products and with the information provided by ECHA.

**Legend**

|        |                                                                                                                                                                      |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CLP    | Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures |
| ECHA   | European Chemicals Agency                                                                                                                                            |
| EC No. | European Community number                                                                                                                                            |
| EWC    | European Waste Catalogue                                                                                                                                             |
| GHS    | Globally Harmonized System                                                                                                                                           |
| IC50   | Half maximal inhibitory concentration                                                                                                                                |
| IMO    | International Maritime Organization                                                                                                                                  |
| LC50   | Lethal Concentration to 50 % of a test population                                                                                                                    |
| LD50   | Lethal Dose to 50% of a test population (Median Lethal Dose)                                                                                                         |
| NOAEL  | No Observed Adverse Effect Level                                                                                                                                     |
| OECD   | Organisation for Economic Co-operation and Development                                                                                                               |
| PBT    | Persistent, Bioaccumulative and Toxic substance                                                                                                                      |
| REACH  | Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals       |
| SDS    | Safety Data Sheet                                                                                                                                                    |
| TWA    | Time Weighted Average                                                                                                                                                |
| UN     | United Nations                                                                                                                                                       |
| VOC    | Volatile Organic Compounds                                                                                                                                           |
| vPvB   | Very Persistent and Very Bioaccumulative                                                                                                                             |

## Bibliography

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- European Chemical Agency (<https://echa.europa.eu/>)
- Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer
- Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants
- Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals
- Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC
- EN ISO 374-5:2016 - Protective gloves against dangerous chemicals and micro-organisms
- DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC
- Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directive
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents

## Changes made to the previous version:

Section 2 - Section 3

The information contained in this sheet is based on the knowledge available to us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document should not be construed as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. No responsibility is assumed for improper use.

Provide adequate training to personnel assigned to the use of chemical products.

**End of safety datasheet**