



# SAFETY DATA SHEET

This Safety Data Sheet (SDS) was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 (in particular as amended by Commission Regulation (EU) 2020/878 with respect to SDSs) and Regulation (EC) No. 1272/2008 (CLP)

Issuing Date: 03-May-2023

Revision Date: 03-May-2023

Revision Number 1

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

### 1.1. Product identifier

|                        |                              |
|------------------------|------------------------------|
| Product Identifier     | C-90360963-002_RET_CLPR7_EUR |
| Product Name           | Febreze Cotton fresh         |
| Product Form           | Mixture                      |
| Pure substance/mixture | Mixture                      |

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

|                      |                             |
|----------------------|-----------------------------|
| Recommended use      | Intended for general public |
| Uses advised against | No information available    |
| Product category     | Fabric Refresher            |
| Use category         | PC3 - Air care products     |

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

| Supplier                                                                                                     | Manufacturer                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Procter & Gamble UK Brooklands,<br>Weybridge, Surrey, KT13 0XP, UK Tel:<br>01932 896000 Fax: 01932 896200    | P&G Amiens, Zone Industrielle, Rue Andre, Durouchez, BP 1336, 80013, Amiens,<br>France<br>Tel: 33-3-22-543200 Fax: 33-3-22-435466 |
| P&G DCE bvba/sprl-Belgium Dist. Div.,<br>Temselaan 100, B-1853 Strombeek-Bever,<br>Belgium (IE) 1800 535 119 |                                                                                                                                   |

For further information, please contact

E-mail address pgsds.im@pg.com

### 1.4. Emergency telephone number

Emergency Telephone (UK) Emergency Tel: 0800 328 8304

IRELAND CHEMTREC: +353 1 901 4670

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.3. Other hazards

No information available

**Endocrine Disruptor Information** There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

| Chemical name                       | CAS No    | Weight-% | REACH registration number | EC No     | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                          | Specific concentration limit (SCL)      | M-Factor | M-Factor (long-term) |
|-------------------------------------|-----------|----------|---------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------|----------------------|
| Alcohol                             | 64-17-5   | 1 - 5    | 01-21194576<br>10-43      | 200-578-6 | Eye Irrit. 2(H319)<br>Flam. Liq. 2(H225)                                                                                 | Eye Irrit. 2;H319 ::<br>50%<=C<10<br>0% | -        | -                    |
| Polyethylene Glycol<br>Phenyl Ether | 9004-78-8 | 0 - 1    | No data available         | -         | Acute Tox. 4 (Oral)(H302)<br>Eye Irrit. 2(H319)                                                                          | -                                       | -        | -                    |
| Didecyltrimethylammonium chloride   | 7173-51-5 | 0 - 1    | 01-21199459<br>87-15      | 230-525-2 | Acute Tox. 3 (Oral)(H301)<br>Aquatic Acute 1(H400)<br>Aquatic Chronic 2(H411)<br>Eye Dam. 1(H318)<br>Skin Corr. 1B(H314) | -                                       | 10       | -                    |

**Full text of H- and EUH-phrases: see section 16**

**Acute Toxicity Estimate**

No information available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59).

**SECTION 4: First aid measures****4.1. Description of first aid measures**

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. (Call a physician if symptoms occur).

**Eye contact** 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.

**Skin contact** IF ON SKIN: Wash with plenty of soap and water. Get medical attention if symptoms occur. Take off contaminated clothing and wash before reuse. Discontinue use of product.

**Ingestion** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

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

**Symptoms** Coughing and/ or wheezing. Redness. Swelling of tissue. Itching. Drowsiness. Dizziness. Sneezing. Dryness. Pain. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Excessive secretion. Shortness of breath. Blurred vision. Headache.

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

Note to physicians                      Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Suitable Extinguishing Media              Dry chemical. Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>).  
Unsuitable extinguishing media            Do not scatter spilled material with high pressure water streams.

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

Specific hazards arising from the chemical              None in particular.

#### **5.3. Advice for firefighters**

Special protective equipment for fire-fighters              Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.  
Use personal protection equipment.

### **SECTION 6: Accidental release measures**

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

Personal precautions                      Ensure adequate ventilation.  
For emergency responders                Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

Environmental precautions                See Section 12 for additional Ecological Information.

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

Methods for containment                    Scoop absorbed substance into closing containers.  
Methods for cleaning up                    Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small quantities of liquid spill: Large Spills: contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.  
Prevention of secondary hazards            Clean contaminated objects and areas thoroughly observing environmental regulations.

#### **6.4. Reference to other sections**

Reference to other sections                See section 8 for more information. See section 13 for more information.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Advice on safe handling                    Do not eat, drink or smoke when using this product.  
General hygiene considerations            Handle in accordance with good industrial hygiene and safety practice.

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

Storage Conditions                        Keep/store only in original container. Keep tightly closed in a dry and cool place.

#### **7.3. Specific end use(s)**

Risk Management Methods (RMM)        The information required is contained in this Safety Data Sheet.

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

#### **8.1. Control parameters**

##### **Exposure Limits**

| Chemical name | European Union | Austria                                      | Belgium                                      | Bulgaria                    | Croatia                                      |
|---------------|----------------|----------------------------------------------|----------------------------------------------|-----------------------------|----------------------------------------------|
| Alcohol       | -              | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 1907 mg/m <sup>3</sup> | TWA: 1000 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup> |

|               |                                                                                                                         |                                                                                                |                                                                                                |                                                                                               |                                                                                                |
|---------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|               |                                                                                                                         | STEL 2000 ppm<br>STEL 3800 mg/m <sup>3</sup>                                                   |                                                                                                |                                                                                               |                                                                                                |
| Chemical name | Cyprus                                                                                                                  | Czech Republic                                                                                 | Denmark                                                                                        | Estonia                                                                                       | Finland                                                                                        |
| Alcohol       | -                                                                                                                       | TWA: 1000 mg/m <sup>3</sup><br>Ceiling: 3000 mg/m <sup>3</sup>                                 | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>                                                   | TWA: 500 ppm<br>TWA: 1000 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1900 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 1300 ppm<br>STEL: 2500 mg/m <sup>3</sup> |
| Chemical name | France                                                                                                                  | Germany                                                                                        | Germany DFG                                                                                    | Greece                                                                                        | Hungary                                                                                        |
| Alcohol       | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 5000 ppm<br>STEL: 9500 mg/m <sup>3</sup>                          | TWA: 200 ppm<br>TWA: 380 mg/m <sup>3</sup>                                                     | TWA: 200 ppm<br>TWA: 380 mg/m <sup>3</sup><br>Peak: 800 ppm<br>Peak: 1520 mg/m <sup>3</sup>    | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>                                                  | TWA: 1900 mg/m <sup>3</sup><br>STEL: 3800 mg/m <sup>3</sup>                                    |
| Chemical name | Ireland                                                                                                                 | Italy                                                                                          | Italy REL                                                                                      | Latvia                                                                                        | Lithuania                                                                                      |
| Alcohol       | STEL: 1000 ppm                                                                                                          | -                                                                                              | STEL: 1000 ppm<br>STEL: 1884 mg/m <sup>3</sup>                                                 | TWA: 1000 mg/m <sup>3</sup>                                                                   | TWA: 500 ppm<br>TWA: 1000 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1900 mg/m <sup>3</sup>  |
| Chemical name | Luxembourg                                                                                                              | Malta                                                                                          | Netherlands                                                                                    | Norway                                                                                        | Poland                                                                                         |
| Alcohol       | -                                                                                                                       | -                                                                                              | TWA: 260 mg/m <sup>3</sup><br>STEL: 1900 mg/m <sup>3</sup><br>H*                               | TWA: 500 ppm<br>TWA: 950 mg/m <sup>3</sup><br>STEL: 625 ppm<br>STEL: 1187.5 mg/m <sup>3</sup> | TWA: 1900 mg/m <sup>3</sup>                                                                    |
| Chemical name | Portugal                                                                                                                | Romania                                                                                        | Slovakia                                                                                       | Slovenia                                                                                      | Spain                                                                                          |
| Alcohol       | TWA: 1000 ppm                                                                                                           | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 5000 ppm<br>STEL: 9500 mg/m <sup>3</sup> | TWA: 500 ppm<br>TWA: 960 mg/m <sup>3</sup><br>Ceiling: 1920 mg/m <sup>3</sup>                  | TWA: 960 mg/m <sup>3</sup><br>TWA: 500 ppm<br>STEL: STEL ppm<br>STEL: STEL mg/m <sup>3</sup>  | STEL: 1000 ppm<br>STEL: 1910 mg/m <sup>3</sup>                                                 |
| Chemical name | Sweden                                                                                                                  | Switzerland                                                                                    | United Kingdom                                                                                 | Israel - Occupational<br>Exposure Limits -<br>TWAs                                            | Turkey                                                                                         |
| Alcohol       | NGV: 500 ppm<br>NGV: 1000 mg/m <sup>3</sup><br>Vägledande KGV:<br>1000 ppm<br>Vägledande KGV:<br>1900 mg/m <sup>3</sup> | TWA: 500 ppm<br>TWA: 960 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1920 mg/m <sup>3</sup>   | TWA: 1000 ppm<br>TWA: 1920 mg/m <sup>3</sup><br>STEL: 3000 ppm<br>STEL: 5760 mg/m <sup>3</sup> | -                                                                                             | -                                                                                              |

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** Long term.

| Chemical name                      | Worker - dermal,<br>long-term - systemic | Worker - inhalative,<br>long-term - systemic | Worker - dermal,<br>long-term - local | Worker - inhalative,<br>long-term - local |
|------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------|-------------------------------------------|
| Alcohol                            | 8238 mg/kg bw/day                        | 380 mg/m <sup>3</sup>                        | -                                     | -                                         |
| Didcyldimethylammonium<br>chloride | 8.6 mg/kg bw/d                           | 18.2 mg/m <sup>3</sup>                       | -                                     | -                                         |

| Chemical name | Consumer - oral, long-term -<br>systemic | Consumer - inhalative,<br>long-term - systemic | Consumer - dermal, long-term<br>- systemic |
|---------------|------------------------------------------|------------------------------------------------|--------------------------------------------|
| Alcohol       | -                                        | 114 mg/m <sup>3</sup>                          | -                                          |

**Derived No Effect Level (DNEL)** Short term.**Predicted No Effect Concentration (PNEC)** No information available.

| Chemical name | Fresh Water | Marine water | Intermittent release |
|---------------|-------------|--------------|----------------------|
|---------------|-------------|--------------|----------------------|

|                                   |                |               |           |
|-----------------------------------|----------------|---------------|-----------|
| Alcohol                           | 0.96 mg/kg bw  | 0.79 mg/kg bw | 2.75 mg/L |
| Didecyltrimethylammonium chloride | 0.001 mg/kg bw | 0 mg/kg bw    | 0 mg/L    |

| Chemical name                     | Freshwater sediment | Marine sediment | Sewage treatment plant | Soil           | Air | Oral |
|-----------------------------------|---------------------|-----------------|------------------------|----------------|-----|------|
| Alcohol                           | 3.6 mg/kg dwt       | 2.9 mg/kg dwt   | 580 mg/L               | 0.63 mg/kg dwt | -   | -    |
| Didecyltrimethylammonium chloride | 61.86 mg/kg dwt     | 6.186 mg/kg dwt | 0.14 mg/L              | 1.4 mg/kg dwt  | -   | -    |

## 8.2. Exposure controls

### Personal Protective Equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent that the undiluted product reaches surface waters.

## SECTION 9: Physical and chemical properties

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

|                |                    |
|----------------|--------------------|
| Physical state | Liquid             |
| Appearance     | Liquid             |
| Color          | clear              |
| Odor           | Pleasant (perfume) |
| Odor threshold | Not applicable     |

| Property                                | Values                     | Remarks • Method                                                                               |
|-----------------------------------------|----------------------------|------------------------------------------------------------------------------------------------|
| Melting point / freezing point          | No data available          | Not available. This property is not relevant for the safety and classification of this product |
| Initial boiling point and boiling range | > 95 °C                    |                                                                                                |
| Flammability                            |                            | Not applicable. This property is not relevant for liquid product forms                         |
| Flammability Limit in Air               |                            | Not available. This property is not relevant for the safety and classification of this product |
| Upper flammability or explosive limits  | No data available          |                                                                                                |
| Lower flammability or explosive limits  | No data available          |                                                                                                |
| Flash point                             | No Flash to Boiling (NFTB) | Does not sustain combustion ≤75°C                                                              |
| Autoignition temperature                | No data available          | Not available. This property is not relevant for the safety and classification of this product |
| Decomposition temperature               | No Data Available          | Not available. This property is not relevant for the safety and classification of this product |
| pH                                      | 6.2 - 7.2                  |                                                                                                |
| Dynamic viscosity                       | 1 - 10 mPa s               |                                                                                                |
| Water solubility                        | Soluble in water           |                                                                                                |
| Solubility(ies)                         | No Data Available          | Not available. This property is not relevant for the safety and classification of this product |
| Partition coefficient                   | No Data Available          | Not available. This property is not relevant for the safety and classification of this product |
| Vapor pressure                          | No Data Available          | Not available. This property is not relevant for the safety and classification of this product |

|                            |                          |                                                                                                |
|----------------------------|--------------------------|------------------------------------------------------------------------------------------------|
| Relative density           | 0.97 - 1.0               | safety and classification of this product                                                      |
| Relative vapor density     | No data available        | Not available. This property is not relevant for the safety and classification of this product |
| Particle characteristics   |                          | Not available. This property is not relevant for the safety and classification of this product |
| Particle Size              | No information available |                                                                                                |
| Particle Size Distribution | No information available |                                                                                                |

## 9.2. Other information

9.2.1. Information with regard to physical hazard classes  
No information available

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

#### Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

### 10.5. Incompatible materials

Incompatible materials None known based on information supplied.

### 10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

##### Product Information

Inhalation None known.

Eye contact None known.

Skin contact None known.

Ingestion None known.

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

Symptoms None.

#### Numerical measures of toxicity

No information available

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**Acute toxicity****Component Information**

| Chemical name                    | Oral LD50         | Dermal LD50         | Inhalation LC50  |
|----------------------------------|-------------------|---------------------|------------------|
| Alcohol                          | 10470 mg/kg (RAT) | -                   | 116.9 mg/L (RAT) |
| Didecyldimethylammonium chloride | 264 mg/kg (RAT)   | 3342 mg/kg (RABBIT) | -                |

| Chemical name                    | Carcinogenicity | Species | Eye Damage   | Species | Developmental toxicity | Species | Mutagenicity | Species |
|----------------------------------|-----------------|---------|--------------|---------|------------------------|---------|--------------|---------|
| Alcohol                          | -               | -       | Y (OECD 405) | -       | -                      | -       | -            | -       |
| Didecyldimethylammonium chloride | -               | -       | Y            | -       | -                      | -       | -            | -       |

| Chemical name                    | Reproductive toxicity | Species | Skin corrosion/irritation | Species | Sensitization | Species |
|----------------------------------|-----------------------|---------|---------------------------|---------|---------------|---------|
| Didecyldimethylammonium chloride | -                     | -       | Y (OECD 404)              | -       | -             | -       |

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

**Skin corrosion/irritation** Not applicable.

**Serious eye damage/eye irritation** Not applicable.

**Respiratory or skin sensitization** Not applicable.

**Germ cell mutagenicity** None known.

**Carcinogenicity** None known.

**Reproductive toxicity** None known.

**STOT - single exposure** None known.

**STOT - repeated exposure** None known.

**Aspiration hazard** Not applicable.

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

**Endocrine disrupting properties** There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.

### 11.2.2. Other information

**Other adverse effects** None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Not considered to be harmful to aquatic life. No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended.

| Chemical name                    | Algae/aquatic plants                                          | Fish                                               | Toxicity to microorganisms                                                                          | Crustacea                                               |
|----------------------------------|---------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Alcohol                          | >= 275 mg/L (OECD 201; <i>Chlorella vulgaris</i> ; 72 h)      | >= 12900 mg/L ( <i>Pimephales promelas</i> ; 96 h) | >= 1001 mg/L (OECD 209; activated sludge from domestic and industrial sewage treatment plants; 3 h) | >= 5012 mg/L ( <i>Ceriodaphnia dubia</i> ; 48 h)        |
| Didecyldimethylammonium chloride | 0.062 mg/L (OECD 201; <i>Raphidocelis subcapitata</i> ; 72 h) | 0.97 mg/L (OECD 203; <i>Danio rerio</i> ; 96 h)    | 5.96 mg/L (OECD 209; activated sludge; 3 h)                                                         | 0.029 mg/L (EU Method C.2; <i>Daphnia magna</i> ; 48 h) |

### Chronic Toxicity

| Chemical name                    | Toxicity to algae (NOEC or ECx)*                                    | Toxicity to fish (NOEC or ECx)*                  | Toxicity to daphnia and other aquatic invertebrates (NOEC or ECx)* | Toxicity to Microorganisms (NOEC or ECx)* | Toxicity to other organisms                                                                                    |
|----------------------------------|---------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Alcohol                          | >= 280 mg/L (EPA OPPTS 850.4400; <i>Lemna gibba</i> ; 7 d)          | >= 250 mg/L (OECD 212; <i>Danio rerio</i> ; 5 d) | >= 2 mg/L ( <i>Ceriodaphnia dubia</i> ; 10 d)                      | -                                         | -                                                                                                              |
| Didecyldimethylammonium chloride | 0.013 mg/L (OECD 201; <i>Pseudokirchneriella subcapitata</i> ; 3 d) | -                                                | 0.021 mg/L (OECD 211; <i>Daphnia magna</i> ; 21 d)                 | (4 mg/L (OECD 209; 3 h))                  | 125 mg/kg soil dw (OECD 222 and BBA guideline, 1994; <i>Eisenia fetida</i> ; based on active ingredient; 55 d) |

### 12.2. Persistence and degradability

#### Persistence and degradability

| Chemical name                    | Ready Biodegradation Test (OECD 301)                                                 | Abiotic Degradation Hydrolysis | Abiotic Degradation Photolysis | Biodegradation Other Tests                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alcohol                          | 84 % (O <sub>2</sub> consumption; 20 d)                                              | -                              | -                              | -                                                                                                                                                                   |
| Didecyldimethylammonium chloride | 71 % (OECD 301 B; CO <sub>2</sub> evolution; 10-day window criteria fulfilled; 28 d) | -                              | -                              | t <sub>1/2</sub> : 100 d (Guideline not indicated; method: Technical Assistance Document 3.12 of the Environmental Assessment Handbook, FDA; aerobic; in loam soil) |

### 12.3. Bioaccumulative potential

#### Bioaccumulation

#### Component Information

| Chemical name                    | Partition coefficient |
|----------------------------------|-----------------------|
| Alcohol                          | -0.35                 |
| Didecyldimethylammonium chloride | 2.58                  |

| Chemical name                    | Octanol/water partition coefficient | Bioconcentration factor (BCF) |
|----------------------------------|-------------------------------------|-------------------------------|
| Alcohol                          | -0.35 (-0.35(OECD 107))             | < 10                          |
| Didecyldimethylammonium chloride | 2.58 (EU Method A.8)                | -                             |

**12.4. Mobility in soil****Mobility in soil**

| Chemical name                    | log Koc                   |
|----------------------------------|---------------------------|
| Alcohol                          | 0.2 (0.2)                 |
| Didecyldimethylammonium chloride | 40339 - 280547 (OECD 106) |

**12.5. Results of PBT and vPvB assessment****PBT and vPvB assessment** No information available.

| Chemical name                    | PBT and vPvB assessment         |
|----------------------------------|---------------------------------|
| Alcohol                          | The substance is not PBT / vPvB |
| Didecyldimethylammonium chloride | The substance is not PBT / vPvB |

**12.6. Endocrine disrupting properties****Endocrine disrupting properties** There are no substances contained at or above the regulated value for declaration of >0.1% that fall under the definition of confirmed endocrine disruptors of any EU regulation.**12.7. Other adverse effects**

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Waste from residues/unused products**

The waste codes/waste designations below are in accordance with EWC. Waste must be delivered to an approved waste disposal company. Waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. Where possible recycling is preferred to disposal or incineration. Empty, uncleaned packaging need the same disposal considerations as filled packaging. For handling waste, see measures described in section 8. Dispose of in accordance with local regulations.

**Contaminated packaging**

Do not reuse empty containers.

**Waste codes / waste designations according to EWC / AVV**20 01 29\* - detergents containing dangerous substances  
15 01 10\* - packaging containing residues of or contaminated by dangerous substances**SECTION 14: Transport information****IATA**

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2                              |                |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |

**IMDG**

|                                                              |                          |
|--------------------------------------------------------------|--------------------------|
| 14.1 UN number or ID number                                  | Not regulated            |
| 14.2                                                         |                          |
| 14.3 Transport hazard class(es)                              | Not regulated            |
| 14.4 Packing group                                           | Not regulated            |
| 14.5 Environmental hazards                                   | Not applicable           |
| 14.6 Special precautions for user                            |                          |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available |

**RID**

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2                              |                |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

**ADR**

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2                              |                |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

**ADN**

|                                 |                          |
|---------------------------------|--------------------------|
| 14.1 UN number or ID number     | Not relevant             |
| 14.2                            |                          |
| 14.3 Transport hazard class(es) | No information available |
| 14.4 Packing group              | Not relevant             |
| 14.5 Marine pollutant           | Not regulated            |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

| Chemical name | French RG number | Title |
|---------------|------------------|-------|
| Alcohol       | RG 84            | -     |

**Germany**

**Water hazard class (WGK)** slightly hazardous to water (WGK 1)

**Netherlands**

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins                                            |
|---------------|-----------------------------------|--------------------------------|--------------------------------------------------------------------------------------|
| Alcohol       | Present                           | -                              | Fertility Category 1A<br>Development Category 1A<br>Can be harmful via breastfeeding |

**Poland**

Announcement of the Speaker of the Sejm of the Republic of Poland of 13 April 2018 regarding the publication of a uniform text of the Act - Labor Code (Journal of Laws 2018, item 917, as amended). Announcement of the Speaker of the Sejm of the Republic of Poland of March 15, 2019 regarding the publication of a uniform text of the Act on Waste (Journal of Laws 2019 item 701, as amended). Regulation of the Minister of Development of 7 July 2016, repealing the Regulation on specific requirements for certain products due to their negative environmental impact (Journal of Laws of 2016, item 1099, as amended). Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 regarding the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286 with subsequent amendments).

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) Regulation (EC) No. 648/2004 (Detergents regulation) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

| Chemical name                    | Restricted substance per REACH Annex XVII | Substance subject to authorization per REACH Annex XIV |
|----------------------------------|-------------------------------------------|--------------------------------------------------------|
| Didecyldimethylammonium chloride | 75.                                       | -                                                      |

**Persistent Organic Pollutants**

Not applicable

**Export Notification requirements**

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

| Chemical name                    | European Export/Import Restrictions per (EC) 689/2008 - Annex Number |
|----------------------------------|----------------------------------------------------------------------|
| Didecyldimethylammonium chloride | I.1                                                                  |

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**Biocidal Products Regulation (EU) No 528/2012 (BPR)**

| Chemical name                    | Biocidal Products Regulation (EU) No 528/2012 (BPR) |
|----------------------------------|-----------------------------------------------------|
| Didecyldimethylammonium chloride | Product-type 8: Wood preservatives                  |

**15.2. Chemical safety assessment****Chemical Safety Report**

No chemical safety assessment has been carried out for this mixture per REACH regulation.

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H225 - Highly flammable liquid and vapor  
H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H400 - Very toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

Issuing Date: 03-May-2023

Revision Date: 03-May-2023

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**Further information**

Salts listed in Section 3 without a REACH Registration number are exempt, based on Annex V.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**