# DEGRES-L+

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 18/08/2022 Revision date: 18/08/2022 Supersedes version of: 16/06/2022 Version: 1.8

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

### 1.1. Product identifier

Product form : Mixture
Product name : DEGRES-L+
UFI : 09YX-J0HX-4006-SWUA
Product code : LIQ0824
Type of product : Detergent,Disinfectant
Other means of identification :

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use,Industrial use

#### 1.2.2. Uses advised against

No additional information available

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

REALCO S.A. S.A.
Avenue Albert Einstein, 15
BE– B-1348 Louvain-la-Neuve
Belgium
T +32 (0)10 45 30 00 - F +32 (0)10 45 63 63
info@realco.be - www.realco.be

### 1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---|---|---|---|---|
| | Centre Anti-Poisons/Antigifcentrum<br>c/o Hôpital Central de la Base - Reine Astrid | Rue Bruyn<br>B -1120 Brussels | +32 70 245 245 | |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Full text of H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :

GHS05 GHS09

Signal word (CLP) : Danger
Contains : C12-C16 Alkylbenzyldimethyl ammonium chloride

Hazard statements (CLP) : H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H400 - Very toxic to aquatic life.

Precautionary statements (CLP) : P261 - Avoid breathing vapours, spray.
P280 - Wear protective gloves, eye protection, face shield.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER, a doctor.
P391 - Collect spillage.
P501 - Dispose of contents/container to hazardous or special waste collection point.

### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

| Component | |
|---|---|
| C12-C16 Alkylbenzyldimethyl ammonium chloride (68424-85-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 2-methoxymethylethoxypropanol (34590-94-8) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| subtilisin (9014-01-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| C12-C16 Alkylbenzyldimethyl ammonium chloride | CAS-No.: 68424-85-1<br>EC-No.: 270-325-2 | 1 - 5 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Aquatic Acute 1, H400 |
| 1-methoxy-2-propanol; monopropylene glycol methyl ether | CAS-No.: 107-98-2<br>EC-No.: 203-539-1<br>EC Index-No.: 603-064-00-3<br>REACH-no: 01-2119457435-35 | 1 - 5 | Flam. Liq. 3, H226<br>STOT SE 3, H336 |
| 3-butoxypropan-2-ol; propylene glycol monobutyl ether | CAS-No.: 5131-66-8<br>EC-No.: 225-878-4<br>EC Index-No.: 603-052-00-8<br>REACH-no: 01-2119475527-28 | 1 - 5 | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| 2-methoxymethylethoxypropanol<br>substance with a Community workplace exposure limit | CAS-No.: 34590-94-8<br>EC-No.: 252-104-2<br>REACH-no: 01-2119450011-60 | 1 - 5 | Not classified |
| Alkyl polyglucoside C10-16 | CAS-No.: 110615-47-9<br>REACH-no: 01-2119489418-23 | 1 - 5 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318 |
| subtilisin | CAS-No.: 9014-01-1<br>EC-No.: 232-752-2<br>EC Index-No.: 647-012-00-8<br>REACH-no: 01-2119480434-38 | < 0.1 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Allow affected person to breathe fresh air. Keep victim at rest in half upright position.

First-aid measures after skin contact : Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact ophthalmologist immediately.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Take to hospital.

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

Symptoms/effects after inhalation : Cough. Shortness of breath.

Symptoms/effects after skin contact : Redness, pain. Burns.

Symptoms/effects after eye contact : Redness, pain. Burns. Blurred vision.

Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea. Gastrointestinal complaints.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : Not flammable.

Explosion hazard : Product is not explosive.

Hazardous decomposition products in case of fire : Thermal decomposition generates : Carbon oxides (CO, CO2).

### 5.3. Advice for firefighters

Precautionary measures fire : Self-contained breathing apparatus when in close proximity to fire.

Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

General measures : Ensure adequate ventilation. Collect spillage.

#### 6.1.1. For non-emergency personnel

Protective equipment : Avoid contact with skin and eyes.
Emergency procedures : Evacuate area.

#### 6.1.2. For emergency responders

Protective equipment : Avoid breathing dust/fume/gas/mist/vapours/spray. Equip cleanup crew with proper protection. Personal protection. See Section 8.
Emergency procedures : Stop leak if safe to do so. Evacuate unnecessary personnel.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

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

For containment : Dike for recovery or absorb with appropriate material.
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Rinse with plenty of water.
Other information : Spill area may be slippery.

### 6.4. Reference to other sections

See Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Do not breathe sprayings.
Precautions for safe handling : Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

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

Technical measures : Provide for a tub to collect spills.
Storage conditions : Keep in a cool, well-ventilated place. Keep only in the original container.
Incompatible products : None to our knowledge.
Incompatible materials : None to our knowledge.
Storage temperature : 4 – 25 °C
Heat and ignition sources : Store away from direct sunlight or other heat sources.
Storage area : Store away from heat. Store in a well-ventilated place.
Special rules on packaging : Keep only in original container.
Packaging materials : PEHD.

### 7.3. Specific end use(s)

Cleaning/washing agents. Disinfectant.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| Local name | 1-Methoxypropanol-2 |
| IOEL TWA | 375 mg/m³ |
| IOEL TWA [ppm] | 100 ppm |
| IOEL STEL | 568 mg/m³ |
| IOEL STEL [ppm] | 150 ppm |
| Remark | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| **Belgium - Occupational Exposure Limits** | |
| Local name | 1-Méthoxy-2-propanol # 1-Methoxy-2-propanol |
| OEL TWA | 184 mg/m³ |
| OEL TWA [ppm] | 50 ppm |
| OEL STEL | 369 mg/m³ |
| OEL STEL [ppm] | 100 ppm |
| Remark | D: la mention “D” signifie que la résorption de l’agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l’exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l’agent dans l’air. # D: de vermelding “D” betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht. |
| Regulatory reference | Koninklijk besluit/Arrêté royal 02/09/2018 |

| 2-methoxymethylethoxypropanol (34590-94-8) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| Local name | (2-Methoxymethylethoxy)-propanol |
| IOEL TWA | 308 mg/m³ |
| IOEL TWA [ppm] | 50 ppm |
| Remark | Skin |
| **Belgium - Occupational Exposure Limits** | |
| Local name | Dipropylèneglycolmonométhyléther # Dipropyleenglycolmonomethylether |
| OEL TWA | 308 mg/m³ |
| OEL TWA [ppm] | 50 ppm |
| Remark | D: La mention D signifie que la résorption de l’agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l’exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l’agent dans l’air. # De vermelding D betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht. |

| subtilisin (9014-01-1) | |
|---|---|
| **Belgium - Occupational Exposure Limits** | |
| OEL TWA | 0,00006 mg/m³ |

### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**
Provide local exhaust or general room ventilation.

#### 8.2.2. Personal protection equipment

**Personal protective equipment:**
Safety glasses. Gloves.

**Personal protective equipment symbol(s):**

#### 8.2.2.1. Eye and face protection

**Eye protection:**
Eye protection (standard EN 166)

#### 8.2.2.2. Skin protection

**Hand protection:**
Protective gloves. (EN 374)

#### 8.2.2.3. Respiratory protection

No additional information available

#### 8.2.2.4. Thermal hazards

**Thermal hazard protection:**
No specific measures are necessary.

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**
Do not allow product to spread into the environment.

## SECTION 9: Physical and chemical properties

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

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | light yellow. |
| Odour | : | characteristic. |
| Odour threshold | : | No data available |
| Melting point | : | The product has not been tested |
| Freezing point | : | The product has not been tested |
| Boiling point | : | The product has not been tested |
| Flammability | : | Not applicable |
| Explosive properties | : | Product is not explosive. |
| Oxidising properties | : | Not applicable. |
| Explosive limits | : | Not available |
| Lower explosion limit | : | Not available |
| Upper explosion limit | : | Not available |
| Flash point | : | The product has not been tested |

| | | |
|---|---|---|
| Auto-ignition temperature | : | The product has not been tested |
| Decomposition temperature | : | The product has not been tested |
| pH | : | 7,3 – 8,3 |
| Viscosity, kinematic | : | The product has not been tested |
| Viscosity, dynamic | : | The product has not been tested |
| Solubility | : | Material highly soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : | The product has not been tested |
| Partition coefficient n-octanol/water (Log Pow) | : | The product has not been tested |
| Vapour pressure | : | The product has not been tested |
| Vapour pressure at 50 °C | : | Not available |
| Density | : | Not available |
| Relative density | : | 0,96 – 1,06 |
| Relative vapour density at 20 °C | : | Not available |
| Particle characteristics | : | Not applicable |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

| | | |
|---|---|---|
| Critical temperature | : | The product has not been tested |

#### 9.2.2. Other safety characteristics

| | | |
|---|---|---|
| Relative evaporation rate (butylacetate=1) | : | Not applicable |
| Relative evaporation rate (ether=1) | : | Not applicable |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

### 10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

### 10.3. Possibility of hazardous reactions

None under normal conditions.

### 10.4. Conditions to avoid

Heat. Direct sunlight.

### 10.5. Incompatible materials

None to our knowledge.

### 10.6. Hazardous decomposition products

In the event of fire, may decompose : Carbon oxides (CO, CO2).

## SECTION 11: Toxicological information

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

| | | |
|---|---|---|
| Acute toxicity (oral) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |
| Acute toxicity (inhalation) | : | Not classified |

| C12-C16 Alkylbenzyldimethyl ammonium chloride (68424-85-1) | |
|---|---|
| LD50 oral rat | 300 – 2000 mg/kg |

| 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2) | |
|---|---|
| LD50 oral rat | 4016 mg/kg |

| 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2) | |
|---|---|
| LD50 dermal rabbit | 2000 mg/kg May produce skin irritation. |
| LC50 Inhalation - Rat | 27596 mg/l (6hours)May cause irritation to the respiratory tract. |

| 2-methoxymethylethoxypropanol (34590-94-8) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 10000 mg/kg |

| 3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8) | |
|---|---|
| LD50 oral rat | 3300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2800 - 4500 |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat | 651 mg/l/4h |

| Alkyl polyglucoside C10-16 (110615-47-9) | |
|---|---|
| LD50 oral | > 2000 mg/kg |

| subtilisin (9014-01-1) | |
|---|---|
| LD50 oral | 1800 mg/kg bodyweight |

Skin corrosion/irritation : Causes skin irritation.
pH: 7,3 – 8,3

Serious eye damage/irritation : Causes serious eye damage.
pH: 7,3 – 8,3

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

| 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

| subtilisin (9014-01-1) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure : Not classified

| 3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8) | |
|---|---|
| LOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral, rat, 90 days) | 350 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (dermal, rat/rabbit, 90 days) | 880 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |

Aspiration hazard : Not classified

| DEGRES-L+ | |
|---|---|
| Viscosity, kinematic | The product has not been tested |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Not classified

| C12-C16 Alkylbenzyldimethyl ammonium chloride (68424-85-1) | |
|---|---|
| LC50, Fish | 0,85 mg/l (96 Hours) |
| EC50, daphnia, Daphnia magna | 0,015 mg/l (48 Hours) |
| IC50, algae | 0,03 mg/l (72 Hours) |

| 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2) | |
|---|---|
| LC50, Fish, Leuciscus idus (golden orfe) | 6812 mg/l (96 Hours) |
| EC50, daphnia, Daphnia magna | 23300 mg/l (48 Hours) |

| 2-methoxymethylethoxypropanol (34590-94-8) | |
|---|---|
| LC50, Fish, Pimephales promelas | > 10000 mg/l (96 Hours) |
| EC50, daphnia, Daphnia magna | > 100 mg/l (48 Hours) |
| EC50, algae | > 100 mg/l (72 Hours) |

| 3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8) | |
|---|---|
| EC50 - Crustacea [1] | > 1000 mg/l Test organisms (species): Daphnia magna |
| EC50 96h - Algae [1] | > 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LC50, Fish, Poecilia reticulata | 560-1000 mg/l (96 Hours) |
| NOEC, Fish, Poecilia reticulata | 180 mg/l (96 Hours) |
| EC50, daphnia, Daphnia magna | > 1000 mg/l (48 Hours) |
| NOEC50, daphnia, Daphnia magna | 560 mg/l (48 Hours) |
| NOEC50, algae, Selenastrum capricornutum | 560 mg/l (96 Hours) |

| Alkyl polyglucoside C10-16 (110615-47-9) | |
|---|---|
| LC50 - Fish [1] | 10 – 100 mg/l |
| EC0, microorganisms | > 100 mg/l |

| subtilisin (9014-01-1) | |
|---|---|
| LC50 - Fish [1] | 8,2 mg/l (OECD 203 method) |
| EC50 - Crustacea [1] | 586 µg/l (Daphnie sp.) |
| ErC50 algae | 0,83 mg/l (OECD 201 method) |

### 12.2. Persistence and degradability

| DEGRES-L+ | |
|---|---|
| Persistence and degradability | Biodegradable. |
| Biodegradation | > 98 % (OECD 302B method) |

| C12-C16 Alkylbenzyldimethyl ammonium chloride (68424-85-1) | |
|---|---|
| Persistence and degradability | Biodegradable. |

| 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2) | |
|---|---|
| Persistence and degradability | Biodegradable. |

| 2-methoxymethylethoxypropanol (34590-94-8) | |
|---|---|
| Persistence and degradability | Biodegradable. |
| Biodegradation | 77 – 84 % 28 days |

| 3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8) | |
|---|---|
| Persistence and degradability | Biodegradable. |
| Biodegradation | 60 – 90 % 28 days |

| Alkyl polyglucoside C10-16 (110615-47-9) | |
|---|---|
| Persistence and degradability | Biodegradable. |

| subtilisin (9014-01-1) | |
|---|---|
| Persistence and degradability | (OECD 301B method). Biodegradable. |

### 12.3. Bioaccumulative potential

| DEGRES-L+ | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | The product has not been tested |
| Partition coefficient n-octanol/water (Log Kow) | The product has not been tested |

| 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2) | |
|---|---|
| Bioaccumulative potential | not bioaccumulable. |

| 2-methoxymethylethoxypropanol (34590-94-8) | |
|---|---|
| Bioaccumulative potential | Slightly or not bioaccumulative. |

| 3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8) | |
|---|---|
| Bioconcentration factor (BCF REACH) | 3,2 |
| Bioaccumulative potential | not bioaccumulable. |

| subtilisin (9014-01-1) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | < 0 |
| Bioaccumulative potential | not bioaccumulable. |

### 12.4. Mobility in soil

| 1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2) | |
|---|---|
| Ecology - soil | Soluble in water. |

| 2-methoxymethylethoxypropanol (34590-94-8) | |
|---|---|
| Ecology - soil | Soluble in water. |

| 3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8) | |
|---|---|
| Ecology - soil | Soluble in water. |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Remove to an authorized waste treatment plant.
Sewage disposal recommendations : May be discharged to wastewater treatment installation.
Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point.
Ecology - waste materials : Avoid release to the environment.
European List of Waste (LoW) code : 20 01 19* - pesticides
20 01 29* - detergents containing dangerous substances
R code/ D code : D9 - Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number or ID number** | | | | |
| UN 3082 | UN 3082 | UN 3082 | UN 3082 | UN 3082 |
| **14.2. UN proper shipping name** | | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | Environmentally hazardous substance, liquid, n.o.s. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **Transport document description** | | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ; C12-C16 Alkylbenzyldimethyl ammonium chloride), 9, III, (E) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III |
| **14.3. Transport hazard class(es)** | | | | |
| 9 | 9 | 9 | 9 | 9 |
|  |  |  |  |  |
| **14.4. Packing group** | | | | |
| III | III | III | III | III |
| **14.5. Environmental hazards** | | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes<br>Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available | | | | |

## 14.6. Special precautions for user

**Overland transport**

| | | |
|---|---|---|
| Classification code (ADR) | : | M6 |
| Special provisions (ADR) | : | 274, 335, 601, 375 |
| Limited quantities (ADR) | : | 5l |
| Excepted quantities (ADR) | : | E1 |
| Packing instructions (ADR) | : | P001, IBC03, LP01, R001 |
| Special packing provisions (ADR) | : | PP1 |
| Mixed packing provisions (ADR) | : | MP19 |
| Portable tank and bulk container instructions (ADR) | : | T4 |
| Portable tank and bulk container special provisions (ADR) | : | TP1, TP29 |
| Tank code (ADR) | : | LGBV |
| Vehicle for tank carriage | : | AT |
| Transport category (ADR) | : | 3 |
| Special provisions for carriage - Packages (ADR) | : | V12 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : | CV13 |
| Hazard identification number (Kemler No.) | : | 90 |
| Orange plates | : | 90<br>3082 |
| Tunnel restriction code (ADR) | : | E |

**Transport by sea**

| | | |
|---|---|---|
| Special provisions (IMDG) | : | 274, 335, 969 |
| Limited quantities (IMDG) | : | 5 L |
| Excepted quantities (IMDG) | : | E1 |
| Packing instructions (IMDG) | : | P001, LP01 |
| Special packing provisions (IMDG) | : | PP1 |

| | | |
|---|---|---|
| IBC packing instructions (IMDG) | : | IBC03 |
| Tank instructions (IMDG) | : | T4 |
| Tank special provisions (IMDG) | : | TP2, TP29 |
| EmS-No. (Fire) | : | F-A |
| EmS-No. (Spillage) | : | S-F |
| Stowage category (IMDG) | : | A |

**Air transport**

| | | |
|---|---|---|
| PCA Excepted quantities (IATA) | : | E1 |
| PCA Limited quantities (IATA) | : | Y964 |
| PCA limited quantity max net quantity (IATA) | : | 30kgG |
| PCA packing instructions (IATA) | : | 964 |
| PCA max net quantity (IATA) | : | 450L |
| CAO packing instructions (IATA) | : | 964 |
| CAO max net quantity (IATA) | : | 450L |
| Special provisions (IATA) | : | A97, A158, A197 |
| ERG code (IATA) | : | 9L |

**Inland waterway transport**

| | | |
|---|---|---|
| Classification code (ADN) | : | M6 |
| Special provisions (ADN) | : | 274, 335, 375, 601 |
| Limited quantities (ADN) | : | 5 L |
| Excepted quantities (ADN) | : | E1 |
| Carriage permitted (ADN) | : | T |
| Equipment required (ADN) | : | PP |
| Number of blue cones/lights (ADN) | : | 0 |

**Rail transport**

| | | |
|---|---|---|
| Classification code (RID) | : | M6 |
| Special provisions (RID) | : | 274, 335, 375, 601 |
| Limited quantities (RID) | : | 5L |
| Excepted quantities (RID) | : | E1 |
| Packing instructions (RID) | : | P001, IBC03, LP01, R001 |
| Special packing provisions (RID) | : | PP1 |
| Mixed packing provisions (RID) | : | MP19 |
| Portable tank and bulk container instructions (RID) | : | T4 |
| Portable tank and bulk container special provisions (RID) | : | TP1, TP29 |
| Tank codes for RID tanks (RID) | : | LGBV |
| Transport category (RID) | : | 3 |
| Special provisions for carriage – Packages (RID) | : | W12 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : | CW13, CW31 |
| Colis express (express parcels) (RID) | : | CE8 |
| Hazard identification number (RID) | : | 90 |

## 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

#### 15.1.1. EU-Regulations

**REACH Annex XVII (Restriction List)**

| EU restriction list (REACH Annex XVII) | | |
|---|---|---|
| **Reference code** | **Applicable on** | **Entry title or description** |
| 3(a) | 1-methoxy-2-propanol; monopropylene glycol methyl ether | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |
| 3(b) | DEGRES-L+ ; C12-C16 Alkylbenzyldimethyl ammonium chloride ; Alkyl polyglucoside C10-16 ; 3-butoxypropan-2-ol; propylene glycol monobutyl ether ; 1-methoxy-2-propanol; monopropylene glycol methyl ether | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c) | DEGRES-L+ ; C12-C16 Alkylbenzyldimethyl ammonium chloride | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |
| 40. | 1-methoxy-2-propanol; monopropylene glycol methyl ether | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

**REACH Annex XIV (Authorisation List)**

Contains no REACH Annex XIV substances

**REACH Candidate List (SVHC)**

Contains no substance on the REACH candidate list

**PIC Regulation (Prior Informed Consent)**

Contains no substance subject to 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.

**POP Regulation (Persistent Organic Pollutants)**

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

**Ozone Regulation (1005/2009)**

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

### Detergent Regulation (648/2004)

| Labelling of contents | |
|---|---|
| **Component** | **%** |
| non-ionic surfactants, phosphonates | <5% |
| enzymes | |

### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

### Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

### 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

# SECTION 16: Other information

| Indication of changes | | | |
|---|---|---|---|
| **Section** | **Changed item** | **Change** | **Comments** |
| | SDS EU format | Modified | 2015/830 |
| 1.1 | | Removed | |

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| Resp. Sens. 1 | Respiratory sensitisation, Category 1 |

| Full text of H- and EUH-statements: | |
|---|---|
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.