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

### 1.1. Product identifier

Trade name : smartBiozid
Article number : REF 208198 / REF 208199

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Medical device
Germicide
Cleaning agent

#### 1.2.2. Uses advised against

No additional information available

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

**Supplier**
Alfred Becht GmbH
Carl-Zeiss-Str. 16
P.O. Box 1145
77656 Offenburg
T +49 781 60586-0 - F +49 781 60586-40

**Email competent person**
sds@kft.de

**Distributor**
OMNIDENT Dental-Handelsgesellschaft m.b.H
Gutenbergring 5
D-63110 Rodgau
T +49 (6106) 8 74 - 0 - F +49 (6106) 8 74 - 265
www.omnident.de

### 1.4. Emergency telephone number

Emergency number : National Poison Information Service (NPIS)
24 hour national number professionals only
0844 892 0111

National Health Service (NHS)
24 hour national number consumer
England and Scotland: 111
Wales: 0845 46 47
Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412
Full text of H 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]**

Signal word (CLP) : -
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP) : P273 - Avoid release to the environment.

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : Germicide
Mixture of the substances listed below with non-hazardous additives

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| didecyldimethylammonium chloride | (CAS-No.) 7173-51-5<br>(EC-No.) 230-525-2<br>(EC Index-No.) 612-131-00-6 | ≥ 0.25 – < 1 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 2, H411 |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | (CAS-No.) 68424-85-1<br>(EC-No.) 270-325-2 | ≥ 0.25 – < 1 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | (CAS-No.) 85409-23-0<br>(EC-No.) 287-090-7 | ≥ 0.25 – < 1 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 |
| propan-2-ol<br>substance with national workplace exposure limit(s) (GB) | (CAS-No.) 67-63-0<br>(EC-No.) 200-661-7<br>(EC Index-No.) 603-117-00-0 | ≥ 0.1 – < 0.25 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : When in doubt or if symptoms are observed, get medical advice.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Get medical advice if skin irritation persists.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Consult an ophtalmologist if irritation persists.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

### 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. Dry powder. Foam. Carbon dioxide. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Strong water jet.

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

Fire hazard : Non flammable.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides. Hydrogen chloride.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Other information : Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

## SECTION 6: Accidental release measures

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

General measures : Avoid contact with skin and eyes. Ensure adequate air ventilation. Do not breathe gas/vapour/aerosol.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid sub-soil penetration. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures : Immediately remove contaminated or damp clothing. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Protect against frost. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

Follow the directions!.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| propan-2-ol (67-63-0) | |
|---|---|
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Propan-2-ol |
| WEL TWA (mg/m³) | 999 mg/m³ |
| WEL TWA (ppm) | 400 ppm |
| WEL STEL (mg/m³) | 1250 mg/m³ |
| WEL STEL (ppm) | 500 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

| didecyldimethylammonium chloride (7173-51-5) | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Long-term - systemic effects, dermal | 8.6 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 18.2 mg/m³ |
| **PNEC (Water)** | |
| PNEC aqua (freshwater) | 0.002 mg/l |
| PNEC aqua (marine water) | 0.0002 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.00029 mg/l |
| **PNEC (Sediment)** | |
| PNEC sediment (freshwater) | 2.82 mg/kg dwt |
| PNEC sediment (marine water) | 0.28 mg/kg dwt |
| **PNEC (Soil)** | |
| PNEC soil | 1.4 mg/kg dwt |
| **PNEC (STP)** | |
| PNEC sewage treatment plant | 0.595 mg/l |

| propan-2-ol (67-63-0) | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Long-term - systemic effects, dermal | 888 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 500 mg/m³ |
| **DNEL/DMEL (General population)** | |
| Long-term - systemic effects,oral | 26 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 89 mg/m³ |
| Long-term - systemic effects, dermal | 319 mg/kg bodyweight/day |
| **PNEC (Water)** | |
| PNEC aqua (freshwater) | 140.9 mg/l |
| PNEC aqua (marine water) | 140.9 mg/l |
| PNEC aqua (intermittent, freshwater) | 140.9 mg/l |
| **PNEC (Sediment)** | |
| PNEC sediment (freshwater) | 552 mg/kg dwt |
| PNEC sediment (marine water) | 552 mg/kg dwt |

| | |
|---|---|
| **PNEC (Soil)** | |
| PNEC soil | 28 mg/kg dwt |
| **PNEC (Oral)** | |
| PNEC oral (secondary poisoning) | 160 mg/kg |
| **PNEC (STP)** | |
| PNEC sewage treatment plant | 2251 mg/l |

| **Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)** | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Long-term - systemic effects, dermal | 5.7 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 3.96 mg/m³ |
| **DNEL/DMEL (General population)** | |
| Long-term - systemic effects,oral | 3.4 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1.64 mg/m³ |
| Long-term - systemic effects, dermal | 3.4 mg/kg bodyweight/day |
| **PNEC (Water)** | |
| PNEC aqua (freshwater) | 0.0009 mg/l |
| PNEC aqua (marine water) | 0.00096 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.00016 mg/l |
| **PNEC (Sediment)** | |
| PNEC sediment (freshwater) | 12.27 mg/kg dwt |
| PNEC sediment (marine water) | 13.09 mg/kg dwt |
| **PNEC (Soil)** | |
| PNEC soil | 7 mg/kg dwt |
| **PNEC (STP)** | |
| PNEC sewage treatment plant | 0.4 mg/l |

| **Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)** | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Long-term - local effects, inhalation | 1 mg/m³ |
| **DNEL/DMEL (General population)** | |
| Long-term - local effects, inhalation | 1 mg/m³ |
| **PNEC (Water)** | |
| PNEC aqua (freshwater) | 0.000415 mg/l |
| PNEC aqua (marine water) | 0.000042 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.000154 mg/l |
| PNEC aqua (intermittent, marine water) | 0.000154 mg/l |
| **PNEC (Sediment)** | |
| PNEC sediment (freshwater) | 6.81 mg/kg dwt |
| PNEC sediment (marine water) | 0.681 mg/kg dwt |
| **PNEC (Soil)** | |
| PNEC soil | 1.36 mg/kg dwt |

| PNEC (STP) | |
|---|---|
| PNEC sewage treatment plant | 0.21 mg/l |

### 8.2. Exposure controls

**Appropriate engineering controls:**
Ensure good ventilation of the work station.

**Hand protection:**

In case of repeated or prolonged contact wear gloves. Chemically resistant protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|---|---|---|---|---|---|
| Chemically resistant protective gloves | Nitrile rubber | 6 (> 480 minutes) | 0,11 | 3 (> 0.65) | EN ISO 374 |

**Eye protection:**

Use splash goggles when eye contact due to splashing is possible. EN 166

**Skin and body protection:**

Wear suitable protective clothing. EN 13034

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. A-P2. EN 143. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust.

**Environmental exposure controls:**
Avoid release to the environment.

**Other information:**
Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product.

## SECTION 9: Physical and chemical properties

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

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Appearance | : | clear. |
| Colour | : | colourless. |
| Odour | : | Neutral. |
| Odour threshold | : | No data available |
| pH | : | < 10 |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Melting point | : | Not applicable |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | Not applicable |
| Auto-ignition temperature | : | Not self-igniting |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Vapour pressure | : | No data available |
| Relative vapour density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Density | : | 1 g/cm³ |
| Solubility | : | Water: Soluble |

| | | |
|---|---|---|
| Partition coefficient n-octanol/water (Log Pow) | : | Not applicable |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | (Water) |
| Explosive properties | : | Product is not explosive. |
| Oxidising properties | : | Non oxidizing. |
| Explosive limits | : | Not applicable |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Acute toxicity (oral) | : | Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal) | : | Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : | Not classified (Based on available data, the classification criteria are not met) |

| **smartBiozid** | |
|---|---|
| ATE CLP (oral) | > 2000 mg/kg bodyweight |

| **didecyldimethylammonium chloride (7173-51-5)** | |
|---|---|
| LD50 oral rat | 329 mg/kg (OECD 401 method) |
| LD50 dermal rat | > 2000 mg/kg (OECD 402 method) |

| **propan-2-ol (67-63-0)** | |
|---|---|
| LD50 oral rat | 5840 mg/kg bodyweight (OECD 401 method) |
| LD50 dermal rabbit | 16.4 ml/kg (OECD 402 method) |
| LC50 inhalation rat (ppm) | > 10000 ppm (6 h; (OECD 403 method)) |

| **Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)** | |
|---|---|
| LD50 oral rat | 795 mg/kg (OECD 401 method) |
| LD50 dermal rabbit | ≈ 3412 mg/kg (24 h) |

| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0) | |
|---|---|
| LD50 oral rat | 344 mg/kg bodyweight |
| LD50 dermal rabbit | ≈ 2300 mg/kg bodyweight (1150 mg a.i./kg bw; (OECD 402 method)) |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: < 10

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: < 10

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

| didecyldimethylammonium chloride (7173-51-5) | |
|---|---|
| LC50 fish 1 | 0.49 mg/l (96 h; Brachydanio rerio (zebra-fish); (OECD 203 method)) |
| EC50 Daphnia 1 | 0.057 mg/l (48 h; Daphnia magna; (OECD 202 method)) |
| ErC50 (algae) | 0.062 mg/l (72 h; Pseudokirchnerella subcapitata (OECD 201 method)) |
| NOEC chronic crustacea | 0.021 mg/l (21 d; Daphnia magna; (OECD 211 method)) |
| NOEC chronic algae | 0.013 mg/l (OECD 201 method) |

| propan-2-ol (67-63-0) | |
|---|---|
| LC50 fish 1 | 10000 mg/l (96 h; Pimephales promelas; (OECD 203 method)) |
| EC50 Daphnia 1 | > 10000 mg/l (24 h; Daphnia magna;(OECD 202 method)) |
| ErC50 (algae) | 1800 mg/l (7 d; Scenedesmus quadricauda) |

| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1) | |
|---|---|
| LC50 fish 1 | 0.85 mg/l (96 h; Pimephales promelas; (OECD 203 method)) |
| EC50 Daphnia 1 | 0.016 mg/l (48 h; Daphnia magna; (OECD 202 method)) |
| ErC50 (algae) | 0.03 mg/l (96 h; Pseudokirchneriella subcapitata; (OECD 211 method)) |
| NOEC chronic crustacea | 0.025 mg/l (21 d; Daphnia magna; (OECD 211 method)) |

| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0) | |
|---|---|
| LC50 fish 1 | ≈ 1.06 mg/l (96 h; Oncorhynchus mykiss; (OECD 203 method)) |
| EC50 Daphnia 1 | 0.01 – 0.015 mg/l (48 h; Daphnia magna; (OECD 202 method)) |

| | |
|---|---|
| ErC50 (algae) | ≈ 0.026 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method)) |
| NOEC chronic fish | ≥ 0.0322 mg/l (28 d; Pimephales promelas) |
| NOEC chronic crustacea | ≥ 0.00415 mg/l (21 d; Daphnia magna) |
| NOEC chronic algae | 0.006 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method)) |

### 12.2. Persistence and degradability

| **smartBiozid** | |
|---|---|
| Persistence and degradability | The product has not been tested. |

| **didecyldimethylammonium chloride (7173-51-5)** | |
|---|---|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 69 % (28d) |

| **propan-2-ol (67-63-0)** | |
|---|---|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 53 % (5 d) |

| **Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)** | |
|---|---|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 95.5 % (28 d; aerobic; (OECD 301B method)) |

### 12.3. Bioaccumulative potential

| **smartBiozid** | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | Not applicable |
| Bioaccumulative potential | The product has not been tested. |

| **didecyldimethylammonium chloride (7173-51-5)** | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2.59 (20 °C; (OECD 105 method)) |

| **propan-2-ol (67-63-0)** | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.05 (25 °C) |
| Bioaccumulative potential | Bioaccumulation unlikely. |

| **Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0)** | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | ≈ 2.48 (20 °C; (OECD 107 method)) |
| Bioaccumulative potential | Low bioaccumulation potential. |

### 12.4. Mobility in soil

| **smartBiozid** | |
|---|---|
| Ecology - soil | The product has not been tested. |

| **didecyldimethylammonium chloride (7173-51-5)** | |
|---|---|
| Surface tension | 25.82 mN/m (OECD 115 method) |

| **propan-2-ol (67-63-0)** | |
|---|---|
| Ecology - soil | Expected to be highly mobile in soil. |

| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0) | |
|---|---|
| Ecology - soil | Low mobility (soil). |

### 12.5. Results of PBT and vPvB assessment

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

| Component | |
|---|---|
| didecyldimethylammonium chloride (7173-51-5) | 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 |
| propan-2-ol (67-63-0) | 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 |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (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 |
| Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0) | 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 |

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Disposal must be done according to official regulations. European waste catalogue.
Sewage disposal recommendations : Do not allow into drains or water courses.
Product/Packaging disposal recommendations : Do not dispose of with domestic waste.
European List of Waste (LoW) code : 07 01 01* - aqueous washing liquids and mother liquors
HP Code : HP14 - “Ecotoxic:” waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.2. UN proper shipping name** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.3. Transport hazard class(es)** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.4. Packing group** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

| **14.5. Environmental hazards** | | | | |
|---|---|---|---|---|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | | |

### 14.6. Special precautions for user

**Overland transport**
Not applicable

**Transport by sea**
Not applicable

**Air transport**
Not applicable

**Inland waterway transport**
Not applicable

**Rail transport**
Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

| The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: | |
|---|---|
| Reference code | Applicable on |
| 3(a) | propan-2-ol |
| 3(b) | propan-2-ol |
| 3(c) | smartBiozid |
| 40. | propan-2-ol |

Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Substances 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: Didecyldimethylammonium chloride (7173-51-5)
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

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| **Abbreviations and acronyms:** | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |

| | |
|---|---|
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| vPvB | Very Persistent and Very Bioaccumulative |

Data sources : ECHA (European Chemicals Agency). MSDSs of the suppliers.
Department issuing data specification sheet : KFT Chemieservice GmbH
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| **Classification according to Regulation (EC) No. 1272/2008 [CLP]:** | |
|---|---|
| Aquatic Chronic 3 | H412 |

| **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 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

| **Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:** | | |
|---|---|---|
| Aquatic Chronic 3 | H412 | Calculation method |

KFT SDS EU 00

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.