

**Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006****SECTION 1: Identification of the substance/mixture and of the company****1.1. Product identifier**Trade name: **CARELA® FIX & DES bulk 7.5****1.2. Relevant, identified uses of the substance or mixture and uses advised against**

Recommended and suitable use of the mixture: Disinfectant.

1.3. Details about the supplier who has prepared the safety data sheet

CARELA GmbH, Schafmatt 5, 79618 Rheinfelden, Germany, Phone: +49 7623 72240,

E-mail: info@carela.com

1.4. Emergency phone number

Vergiftungs-Informations-Zentrale (Poison Information Centre) Freiburg, Germany, Phone: +49 761 19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification in accordance with Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic 3, H412

2.2. Label elements

Labelling in accordance with Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

None

Signal word: -**Hazard warnings:**

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

2.3. Other hazards**CARELA® FIX & DES bulk 7.5** does not fulfil the criteria for classification as a PBT or vPvB substance.**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

Ingredients that are hazardous to health:

N-alkyl-N-benzyl-N,N-dimethylammonium chloride; CAS No.: 68424-85-1; EC No.: 270-325-2

REACH registration No.: 01-2119983287-23-xxxx

Classification in accordance with Regulation (EC) No. 1272/2008: Acute Tox. 4, H302; Skin Corr. 1B, H314;

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Didecyldimethylammonium chloride; CAS No.: 7173-51-5; EC No.: 230-525-2

REACH registration No.: 01-2119945987-15-xxxx

Classification in accordance with Regulation (EC) No. 1272/2008: Acute Tox. 3, H301; Skin Corr. 1B, H314;

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

N-alkyl-N-ethylbenzyl-N,N-dimethylammonium chloride; CAS No.: 85409-23-0;

EC No.: 287-090-7

Classification in accordance with Regulation (EC) No. 1272/2008: Acute Tox. 4, H302; Skin Corr. 1B, H314;

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Additional advice: Sum of the following components: < 1%:

N-alkyl-N-benzyl-N,N-dimethylammonium chloride

(CAS No.: 68424-85-1; EC No.: 270-325-2);

Didecyldimethylammonium chloride

**Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006**

(CAS No.: 7173-51-5; EC No.: 230-525-2)

N-alkyl-N-ethylbenzyl-N,N-dimethylammonium chloride;

(CAS No.: 85409-23-0; EC No.: 287-090-7)

The hazard class and hazard category codes as well as hazard warnings refer to the concentrated raw materials N-alkyl-N-benzyl-N,N-dimethylammonium chloride, didecyltrimethylammonium chloride, N-alkyl-N-ethylbenzyl-N,N-dimethylammonium chloride. The wording of the hazard statements can be found in Section 16.

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

Take off dirty, soaked clothing. If you are feeling unwell, call a doctor immediately.

After inhalation:

Get fresh air. If trouble persists, consult a doctor.

After contact with skin:

No special precautions required.

After contact with eyes:

Immediately and thoroughly flush eyes with eyelids open and plenty of water. Call a doctor if there is trouble.

After swallowing:

Wash out your mouth with copious amounts of water and keep drinking large amounts of water. Do NOT induce vomiting. Call a doctor if there is trouble.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures**5.1. Extinguishing agents**

Suitable extinguishing agents: Fire extinguishing powder, water spray jet, foam.

Unsuitable extinguishing agent for safety reasons: Full water jet.

5.2. Special hazards arising from the substance or mixture

Fires in the vicinity may result in the release of: Chlorine compounds, carbon monoxide (CO), carbon dioxide (CO₂) and nitrous gases (NO_x).

5.3. Firefighting advice

Adapt extinguishing measures to surrounding fire. The product itself does not burn.

Special protective equipment: In case of fire, wear a self-contained breathing apparatus.

Additional advice: To cool closed containers near the source of fire, use a water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure proper ventilation. Use personal protective equipment. Use respiratory protection if vapours form.

6.2. Environmental protection measures

Do not allow to enter surface water or the sewer system.

6.3. Methods and material for containment and cleaning

Suitable absorption material: Absorb with a liquid-binding material (such as sand, silica gel, acid binding agent, universal binding agent). Scoop it up and dispose of it in suitable containers.

6.4. Reference to other sections

Personal protective equipment, see Section 8

Guidance on disposal, see Section 13

**Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006****SECTION 7: Handling and storage****7.1. Protective measures for safe handling**

Ensure sufficient air circulation in the workspaces. Do not eat, drink or smoke in the work area. Wash hands before breaks and when work is finished.

7.2. Conditions for safe storage, taking into account environmental compatibility

Close containers tightly and store them in a dry, cool and well-ventilated location. Protect from heat (>50 °C) and direct sunlight.

7.3. Specific end use(s)

Disinfectant.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

None

8.2. Exposure controls (to limit and monitor exposure)**8.2.1. Appropriate engineering controls:**

See protective measures in Sections 7 and 8

8.2.2. Personal protective equipment:**Eye/face protection**

Not required.

Skin protection

Hand protection:

Not required

Respiratory protection

Not required.

8.2.3. Environmental exposure controls (to limit and control exposure):

See Section 6

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance: Liquid, colourless

Odour: Odourless

Odour threshold: No data available

pH value (20 °C): Approximately 7

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: > 100 °C

Rate of vapourisation: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure (20 °C): No data available

Vapour density: No data available

Relative density (20 °C): Approximately 1 g/cm³

Solubility: Completely miscible with water

Distribution coefficient: n-Octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity (20 °C): 13 mPa·s

Explosive properties: Not self-igniting. Not explosive

Oxidising properties: No data available

9.2. Other information

No data available

**Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006****SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

10.2. Chemical stability

No decomposition if stored and used as intended.

10.3. Possibility of hazardous reactions

No hazardous reactions expected if used as intended.

10.4. Conditions to avoid

Heat exposure.

10.5. Incompatible materials

Strong oxidisers.

10.6. Hazardous decomposition products

No decomposition if stored and used as intended.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

No information available for the product.

Acute toxicity:

N-alkyl-N-benzyl-N,N-dimethylammonium chloride; CAS No.: 68424-85-1; EC No.: 270-325-2

LD50 (oral, rat): 344 mg/kg

LD50 (dermal, rabbit): 3340 mg/kg

Skin corrosion/irritation

Irritation and causticity.

Serious eye damage/irritation

Causticity on the eyes and skin of rabbits (method: DOT).

Respiratory or skin sensitisation

Not sensitising on guinea pigs (Buehler Test, method: OECD Test Guideline 406)

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

Specific target organ toxicity – single exposure

No information available.

Specific target organ toxicity – repeated exposure

No information available.

Aspiration hazard

No information available.

Didecyldimethylammonium chloride; CAS No.: 7173-51-5; EC No.: 230-525-2

LD50 (oral, rat): 238 mg/kg

LD50 (dermal, rabbit): 3342 mg/kg

Skin corrosion/irritation

Skin irritation on rabbits (method: OECD Test Guideline 404).

Serious eye damage/irritation

No information available for the product's causticity on eyes.

Respiratory or skin sensitisation

Not sensitising on guinea pigs (Buehler Test, method: US EPA).

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available

Reproductive toxicity

**Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006**

No information available.

Specific target organ toxicity – single exposure

No information available.

Specific target organ toxicity – repeated exposure

No information available.

Aspiration hazard

No information available.

Other information:

The product has been classified in accordance with the calculation procedure of Regulation (EC) No 1272/2008 (CLP). From its own experience, the manufacturer does not anticipate any hazards other than those stated on the labelling.

SECTION 12: Ecological information**12.1. Toxicity**

N-alkyl-N-benzyl-N,N-dimethylammonium chloride; CAS No.: 68424-85-1; EC No.: 270-325-2

Daphnia toxicity:

EC50: 0.016 mg/l/48 h (Daphnia magna)

Didecyldimethylammonium chloride; CAS No.: 7173-51-5; EC No.: 230-525-2

Daphnia toxicity:

EC50: 0.062 mg/l/48 h (Daphnia magna)

12.2. Persistence and degradability

The surfactants contained in this mixture satisfy the conditions of biodegradability, as that is defined in Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

No information is available for the product.

12.4. Mobility in soil

No information is available for the product.

12.5. Results of the PBT and vPvB assessment

The product does not fulfil the criteria for classification as a PBT or vPvB substance.

12.6. Other adverse effects

Harmful to aquatic life. Do not allow to enter surface water or the sewer system. Discharge into the environment is to be avoided.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Product**

Can be disposed of, taking into account the regulations of local authorities.

EWG No.: 070699.

Packaging

Turn in empty containers to the local recycling or waste disposal facilities. Recommended cleaning agent: Water.

SECTION 14: Transport information**14.1. UN number**

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

**Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006****14.6. Special precautions for the user**

14.7. Transport in bulk in accordance with Annex II of MARPOL Convention 73/78 and the IBC Code

No hazardous material as defined in these transport regulations.

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

Regulation (EC) No. 2037/2000 (substances which damage the ozone layer): Not applicable.

Regulation (EC) No. 850/2004 (persistent organic pollutants): Not applicable.

Regulation (EC) No. 689/2008 (import and export of dangerous chemicals): Not applicable.

National regulations

Water hazard class (WGK): 1 (slightly hazardous to water).

Classification in accordance with the German Administrative Regulation on the Classification of Substances Hazardous to Water (VwVwS) of 1999-05-17, Annex 4.

15.2. Chemical safety assessment

The mixture has not been subject to any chemical safety assessment.

SECTION 16: Other information

Wording of hazard statements given in Section 3 under substances hazardous to health:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long-lasting effects.

These hazard warnings are not the classification of the product, but refer only to the concentrated raw materials propan-2-ol, N-alkyl-N-benzyl-N,N-dimethylammonium chloride, didecyl dimethylammonium chloride, N-alkyl-N-ethylbenzyl-N,N-dimethylammonium chloride. The classification of the product is given in Section 2.

Key:

TLV Threshold Limit Value

AOX Adsorbable organically bound halogens

CAS Chemical Abstract Service

IF Inhalable Fraction

EWC European Waste Catalogue

ECHA European Chemicals Agency

EC European Community

IBC Code International code for the construction and equipping of vessels for the bulk transport of dangerous chemicals

LC Lethal Concentration

LDLo Lowest Lethal Dose

MAC Maximum Allowable Concentration

UN United Nations

VwVwS German Administrative Regulation on the Classification of Substances Hazardous to Water

Literature references and sources for data:**Regulations:**

Dangerous Preparations Directive (1999/45/EC), REACH Regulation (EC) No. 1907/2006



Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006

References:

U. Welzbacher, Neue Datenblätter für gefährliche Arbeitsstoffe [New data sheets for hazardous substances], Weka-Verlag.

GESTIS database on hazardous substances of the (now) Institute for Occupational Safety and Health of the German Social Accident Insurance. IUCLID data set.

Internet:

<http://echa.europa.eu>

<http://www.baua.de>

<http://www.reach-info.de>

The information is based on our current knowledge and relates to the product in the condition in which it is supplied. It does not constitute any assurance with regard to properties, but serves to describe our products with respect to safety requirements. The recipient of our products shall be responsible for observing the laws and provisions currently in force.

Changes since the last version: *