

## Lifeguard Disinfectant

Revision: 2015-06-04

Version: 01.0

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

#### 1.1 Product identifier

**Trade name:** Lifeguard Disinfectant

*Lifeguard® Used under authority from S.C. Johnson & Son Inc., Racine, Wisconsin, U.S.A.*

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

**Identified uses:**

For professional use only.

AISE-P314 - Surface disinfectant. Manual process

**Uses advised against:** Uses other than those identified are not recommended

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

Diversey Europe Operations BV, Maarssebroeksedijk 2, 3542DN Utrecht, The Netherlands

#### Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: MSDSinfoUK@sealedair.com

#### 1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Skin Irrit. 2 (H315)

Eye Irrit. 2 (H319)

Aquatic Chronic 2 (H411)

**The product does not meet the criteria for classification in accordance with Directive 1999/45/EC and corresponding national legislation**

#### 2.2 Label elements



**Signal word:** Warning.

#### Hazard statements:

H315 + H319 - Causes skin and serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

#### 2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

### SECTION 3: Composition/information on ingredients

## Lifeguard Disinfectant

## 3.2 Mixtures

| Ingredient(s)                       | EC number | CAS number | REACH number      | Classification   | Classification (1999/45/EC) | Notes | Weight percent |
|-------------------------------------|-----------|------------|-------------------|--|-----------------------------|-------|----------------|
| alkyldimethylbenzylammoniumchloride | 270-325-2 | 68424-85-1 | No data available | Skin Corr. 1B (H314)<br>Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | Xn;R21/22<br>C;R34<br>N;R50 |       | 1-3            |
| alkyl alcohol ethoxylate            | Polymer*  | 68439-46-3 | [4]               | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412)   | Xn;R22<br>Xi;R41            |       | 1-3            |

\* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Inhalation

Get medical attention or advice if you feel unwell.

#### Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention.

#### Eye contact:

Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

#### Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell.

#### Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

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

#### Inhalation:

No known effects or symptoms in normal use.

#### Skin contact:

Causes irritation.

#### Eye contact:

Causes severe irritation.

#### Ingestion:

No known effects or symptoms in normal use.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

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

No special hazards known.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

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

No special measures required.

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

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

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

## Lifeguard Disinfectant

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation.

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

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

**DNEL/DMEL and PNEC values****Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s)                       | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyldimethylbenzylammoniumchloride | No data available          | No data available             | No data available         | No data available            |
| alkyl alcohol ethoxylate            | No data available          | No data available             | No data available         | No data available            |

DNEL dermal exposure - Worker

| Ingredient(s)                       | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|-------------------------------------|----------------------------|--|---------------------------|---|
| alkyldimethylbenzylammoniumchloride | No data available          | No data available                        | No data available         | No data available                       |
| alkyl alcohol ethoxylate            | No data available          | No data available                        | No data available         | No data available                       |

DNEL dermal exposure - Consumer

| Ingredient(s)                       | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|-------------------------------------|----------------------------|--|---------------------------|---|
| alkyldimethylbenzylammoniumchloride | No data available          | No data available                        | No data available         | No data available                       |
| alkyl alcohol ethoxylate            | No data available          | No data available                        | No data available         | No data available                       |

DNEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

| Ingredient(s)                       | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyldimethylbenzylammoniumchloride | No data available          | No data available             | No data available         | No data available            |
| alkyl alcohol ethoxylate            | No data available          | No data available             | No data available         | No data available            |

DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

| Ingredient(s)                       | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyldimethylbenzylammoniumchloride | No data available          | No data available             | No data available         | No data available            |
| alkyl alcohol ethoxylate            | No data available          | No data available             | No data available         | No data available            |

**Environmental exposure**

Environmental exposure - PNEC

| Ingredient(s)                       | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|-------------------------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| alkyldimethylbenzylammoniumchloride | No data available           | No data available            | No data available   | No data available             |
| alkyl alcohol ethoxylate            | No data available           | No data available            | No data available   | No data available             |

Environmental exposure - PNEC, continued

| Ingredient(s)                       | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg)      | Air (mg/m <sup>3</sup> ) |
|-------------------------------------|------------------------------|--------------------------|-------------------|--------------------------|
| alkyldimethylbenzylammoniumchloride | No data available            | No data available        | No data available | No data available        |
| alkyl alcohol ethoxylate            | No data available            | No data available        | No data available | No data available        |

**8.2 Exposure controls**

## Lifeguard Disinfectant

The following information applies for the uses indicated in subsection 1.2.  
If available, please refer to the product information sheet for application and handling instructions.  
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:  
Covering activities such as filling and transfer of product to application equipment, flasks or buckets

**Appropriate engineering controls:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**Personal protective equipment**

**Eye / face protection:** Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.

**Hand protection:** Chemical-resistant protective gloves (EN 374).  
Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier.  
Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact:  
Material: butyl rubber  
Penetration time:  $\geq$  480 min  
Material thickness:  $\geq$  0.7 mm

Suggested gloves for protection against splashes:  
Material: nitrile rubber  
Penetration time:  $\geq$  30 min  
Material thickness:  $\geq$  0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

**Recommended maximum concentration (%):** 10

**Appropriate engineering controls:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**Personal protective equipment**

**Eye / face protection:** Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.

**Hand protection:** Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

**Body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

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

Information in this section refers to the product, unless it is specifically stated that substance data is listed

**Method / remark**

**Physical State:** Liquid  
**Colour:** Clear, Light, Brown  
**Odour:** Slightly perfumed  
**Odour threshold:** Not applicable  
**pH:**  $\approx$  10 (neat)  
**Melting point/freezing point (°C):** Not determined  
**Initial boiling point and boiling range (°C):** Not determined

Substance data, boiling point

| Ingredient(s)                       | Value (°C) | Method           | Atmospheric pressure (hPa) |
|-------------------------------------|------------|------------------|----------------------------|
| alkyldimethylbenzylammoniumchloride | > 107      | Method not given |                            |
| alkyl alcohol ethoxylate            | > 232.2    | Method not given |                            |

**Method / remark**

**Flash point (°C):** Not applicable.  
**Sustained combustion:** Not determined  
**Evaporation rate:** Not determined  
**Flammability (solid, gas):** Not determined

## Lifeguard Disinfectant

**Upper/lower flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

**Method / remark**

**Vapour pressure:** Not determined

Substance data, vapour pressure

| Ingredient(s)                       | Value (Pa)        | Method           | Temperature (°C) |
|-------------------------------------|-------------------|------------------|------------------|
| alkyldimethylbenzylammoniumchloride | No data available | Method not given | 20               |
| alkyl alcohol ethoxylate            | < 10              | Method not given | 37.8             |

**Method / remark**

**Vapour density:** Not determined

**Relative density:** 1.00 g/cm<sup>3</sup> (20 °C)

**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

| Ingredient(s)                       | Value (g/l) | Method           | Temperature (°C) |
|-------------------------------------|-------------|------------------|------------------|
| alkyldimethylbenzylammoniumchloride | Soluble     | Method not given |                  |
| alkyl alcohol ethoxylate            | 100 Soluble | Method not given |                  |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

**Method / remark**

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Viscosity:** Not determined

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising

## 9.2 Other information

**Surface tension (N/m):** Not determined

**Corrosion to metals:** Not corrosive

Substance data, dissociation constant, if available:

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

### 10.4 Conditions to avoid

None known under normal storage and use conditions.

### 10.5 Incompatible materials

Reacts with acids.

### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >2000

ATE - Dermal (mg/kg): >2000

Substance data, where relevant and available, are listed below.

### Acute toxicity

Acute oral toxicity

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure |
|---------------|----------|-------|---------|--------|----------|
|---------------|----------|-------|---------|--------|----------|

## Lifeguard Disinfectant

|                                     |                  | (mg/kg)    |     |                  | time (h) |
|-------------------------------------|------------------|------------|-----|------------------|----------|
| alkyldimethylbenzylammoniumchloride | LD <sub>50</sub> | 398        | Rat | Method not given |          |
| alkyl alcohol ethoxylate            | LD <sub>50</sub> | 300 - 2000 |     | Method not given | -        |

## Acute dermal toxicity

| Ingredient(s)                       | Endpoint         | Value (mg/kg) | Species | Method           | Exposure time (h) |
|-------------------------------------|------------------|---------------|---------|------------------|-------------------|
| alkyldimethylbenzylammoniumchloride | LD <sub>50</sub> | 800 - 1420    | Rat     | Method not given |                   |
| alkyl alcohol ethoxylate            | LD <sub>50</sub> | 2000 - 5000   | Rat     | Method not given | -                 |

## Acute inhalative toxicity

| Ingredient(s)                       | Endpoint | Value (mg/l)      | Species | Method | Exposure time (h) |
|-------------------------------------|----------|-------------------|---------|--------|-------------------|
| alkyldimethylbenzylammoniumchloride |          | No data available |         |        |                   |
| alkyl alcohol ethoxylate            |          | No data available |         |        | -                 |

## Irritation and corrosivity

## Skin irritation and corrosivity

| Ingredient(s)                       | Result       | Species | Method           | Exposure time |
|-------------------------------------|--------------|---------|------------------|---------------|
| alkyldimethylbenzylammoniumchloride | Corrosive    |         | Method not given |               |
| alkyl alcohol ethoxylate            | Not irritant |         | Method not given |               |

## Eye irritation and corrosivity

| Ingredient(s)                       | Result        | Species | Method           | Exposure time |
|-------------------------------------|---------------|---------|------------------|---------------|
| alkyldimethylbenzylammoniumchloride | Severe damage |         | Method not given |               |
| alkyl alcohol ethoxylate            | Severe damage | Rabbit  | Method not given |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)                       | Result            | Species | Method | Exposure time |
|-------------------------------------|-------------------|---------|--------|---------------|
| alkyldimethylbenzylammoniumchloride | No data available |         |        |               |
| alkyl alcohol ethoxylate            | No data available |         |        |               |

## Sensitisation

## Sensitisation by skin contact

| Ingredient(s)                       | Result          | Species    | Method           | Exposure time (h) |
|-------------------------------------|-----------------|------------|------------------|-------------------|
| alkyldimethylbenzylammoniumchloride | Not sensitising |            | Method not given |                   |
| alkyl alcohol ethoxylate            | Not sensitising | Guinea pig | Method not given | -                 |

## Sensitisation by inhalation

| Ingredient(s)                       | Result            | Species | Method | Exposure time |
|-------------------------------------|-------------------|---------|--------|---------------|
| alkyldimethylbenzylammoniumchloride | No data available |         |        |               |
| alkyl alcohol ethoxylate            | No data available |         |        | -             |

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

## Mutagenicity

| Ingredient(s)                       | Result (in-vitro)                                   | Method (in-vitro)     | Result (in-vivo)  | Method (in-vivo) |
|-------------------------------------|---|-----------------------|-------------------|------------------|
| alkyldimethylbenzylammoniumchloride | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available |                  |
| alkyl alcohol ethoxylate            | No evidence for mutagenicity, negative test results | OECD 473              | No data available |                  |

## Carcinogenicity

| Ingredient(s)                       | Effect   |
|-------------------------------------|--|
| alkyldimethylbenzylammoniumchloride | No data available                                      |
| alkyl alcohol ethoxylate            | No evidence for carcinogenicity, negative test results |

## Toxicity for reproduction

| Ingredient(s)                       | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method    | Exposure time | Remarks and other effects reported                |
|-------------------------------------|----------|-----------------|--------------------|---------|-----------|---------------|---|
| alkyldimethylbenzylammoniumchloride |          |                 | No data available  |         |           |               |   |
| alkyl alcohol ethoxylate            | NOAEL    |                 | > 250              | Rat     | Not known |               | No effects on fertility No developmental toxicity |

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

| Ingredient(s)                       | Endpoint | Value (mg/kg bw/d) | Species | Method           | Exposure time (days) | Specific effects and organs affected |
|-------------------------------------|----------|--------------------|---------|------------------|----------------------|--------------------------------------|
| alkyldimethylbenzylammoniumchloride |          | No data available  |         |                  |                      |                                      |
| alkyl alcohol ethoxylate            | NOAEL    | 80 - 400           |         | Method not given | -                    |                                      |

## Lifeguard Disinfectant

## Sub-chronic dermal toxicity

| Ingredient(s)                       | Endpoint | Value (mg/kg bw/d) | Species | Method             | Exposure time (days) | Specific effects and organs affected |
|-------------------------------------|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| alkyldimethylbenzylammoniumchloride |          | No data available  |         |                    |                      |                                      |
| alkyl alcohol ethoxylate            | NOAEL    | 80                 |         | OECD 411 (EU B.28) | 90                   |                                      |

## Sub-chronic inhalation toxicity

| Ingredient(s)                       | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|-------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyldimethylbenzylammoniumchloride |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate            |          | No data available  |         |        | -                    |                                      |

## Chronic toxicity

| Ingredient(s)                       | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|-------------------------------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| alkyldimethylbenzylammoniumchloride |                |          | No data available  |         |        |               |                                      |        |
| alkyl alcohol ethoxylate            |                |          | No data available  |         |        |               |                                      |        |

## STOT-single exposure

| Ingredient(s)                       | Affected organ(s) |
|-------------------------------------|-------------------|
| alkyldimethylbenzylammoniumchloride | No data available |
| alkyl alcohol ethoxylate            | No data available |

## STOT-repeated exposure

| Ingredient(s)                       | Affected organ(s) |
|-------------------------------------|-------------------|
| alkyldimethylbenzylammoniumchloride | No data available |
| alkyl alcohol ethoxylate            | No data available |

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

## 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below

## Aquatic short-term toxicity

Aquatic short-term toxicity - fish

| Ingredient(s)                       | Endpoint         | Value (mg/l) | Species | Method                     | Exposure time (h) |
|-------------------------------------|------------------|--------------|---------|----------------------------|-------------------|
| alkyldimethylbenzylammoniumchloride | LC <sub>50</sub> | 0.85         | Fish    | Method not given           | 96                |
| alkyl alcohol ethoxylate            | LC <sub>50</sub> | 5 - 7        | Fish    | 92/69/EEC, C1, semi-static | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)                       | Endpoint         | Value (mg/l) | Species | Method           | Exposure time (h) |
|-------------------------------------|------------------|--------------|---------|------------------|-------------------|
| alkyldimethylbenzylammoniumchloride | EC <sub>50</sub> | 0.02         | Daphnia | Method not given | 48                |
| alkyl alcohol ethoxylate            | EC <sub>50</sub> | 5.3          | Daphnia | 92/69/EEC        | 48                |

Aquatic short-term toxicity - algae

| Ingredient(s)                       | Endpoint         | Value (mg/l) | Species                                | Method    | Exposure time (h) |
|-------------------------------------|------------------|--------------|--|-----------|-------------------|
| alkyldimethylbenzylammoniumchloride | EC <sub>50</sub> | 0.06         | <i>Pseudokirchneriella subcapitata</i> | OECD 201  | 96                |
| alkyl alcohol ethoxylate            | EC <sub>50</sub> | 1.4 - 47     | Not specified                          | 92/69/EEC | 72                |

Aquatic short-term toxicity - marine species

| Ingredient(s)                       | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|-------------------------------------|----------|-------------------|---------|--------|----------------------|
| alkyldimethylbenzylammoniumchloride |          | No data available |         |        | -                    |
| alkyl alcohol ethoxylate            |          | No data available |         |        | -                    |

## Lifeguard Disinfectant

Impact on sewage plants - toxicity to bacteria

| Ingredient(s)                       | Endpoint         | Value (mg/l) | Inoculum         | Method           | Exposure time |
|-------------------------------------|------------------|--------------|------------------|------------------|---------------|
| alkyldimethylbenzylammoniumchloride | EC <sub>20</sub> | 10           | Activated sludge | OECD 209         | 0.5 hour(s)   |
| alkyl alcohol ethoxylate            | EC <sub>50</sub> | > 140        | Bacteria         | Method not given | 3 hour(s)     |

## Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s)                       | Endpoint         | Value (mg/l)      | Species       | Method           | Exposure time | Effects observed |
|-------------------------------------|------------------|-------------------|---------------|------------------|---------------|------------------|
| alkyldimethylbenzylammoniumchloride |                  | No data available |               |                  |               |                  |
| alkyl alcohol ethoxylate            | EC <sub>10</sub> | 8.983             | Not specified | Method not given | 21 day(s)     |                  |

Aquatic long-term toxicity - crustacea

| Ingredient(s)                       | Endpoint         | Value (mg/l)      | Species     | Method           | Exposure time | Effects observed |
|-------------------------------------|------------------|-------------------|-------------|------------------|---------------|------------------|
| alkyldimethylbenzylammoniumchloride |                  | No data available |             |                  |               |                  |
| alkyl alcohol ethoxylate            | EC <sub>10</sub> | 2.579             | Daphnia sp. | Method not given | 21 day(s)     |                  |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s)                       | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| alkyldimethylbenzylammoniumchloride |          | No data available         |         |        | -                    |                  |
| alkyl alcohol ethoxylate            |          | No data available         |         |        | -                    |                  |

## Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

| Ingredient(s)                       | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| alkyldimethylbenzylammoniumchloride |          | No data available     |         |        | -                    |                  |
| alkyl alcohol ethoxylate            |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - plants, if available:

| Ingredient(s)                       | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| alkyldimethylbenzylammoniumchloride |          | No data available     |         |        | -                    |                  |
| alkyl alcohol ethoxylate            |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - birds, if available:

| Ingredient(s)                       | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-------------------|---------|--------|----------------------|------------------|
| alkyldimethylbenzylammoniumchloride |          | No data available |         |        | -                    |                  |
| alkyl alcohol ethoxylate            |          | No data available |         |        | -                    |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)                       | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| alkyldimethylbenzylammoniumchloride |          | No data available     |         |        | -                    |                  |
| alkyl alcohol ethoxylate            |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)                       | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| alkyldimethylbenzylammoniumchloride |          | No data available     |         |        | -                    |                  |
| alkyl alcohol ethoxylate            |          | No data available     |         |        | -                    |                  |

## 12.2 Persistence and degradability

## Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

## Lifeguard Disinfectant

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)                       | Inoculum | Analytical method | DT <sub>50</sub>  | Method           | Evaluation            |
|-------------------------------------|----------|-------------------|-------------------|------------------|-----------------------|
| alkyldimethylbenzylammoniumchloride |          | Oxygen depletion  | > 60%             | OECD 301D        | Readily biodegradable |
| alkyl alcohol ethoxylate            |          |                   | 60 % in 28 day(s) | Method not given | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s)                       | Value       | Method           | Evaluation                         | Remark |
|-------------------------------------|-------------|------------------|------------------------------------|--------|
| alkyldimethylbenzylammoniumchloride | 0.5 - 1.58  | Method not given | No bioaccumulation expected        |        |
| alkyl alcohol ethoxylate            | 3.11 - 4.19 | Method not given | High potential for bioaccumulation |        |

Bioconcentration factor (BCF)

| Ingredient(s)                       | Value | Species | Method           | Evaluation                         | Remark |
|-------------------------------------|-------|---------|------------------|------------------------------------|--------|
| alkyldimethylbenzylammoniumchloride | 0.5   |         | Method not given | No bioaccumulation expected        |        |
| alkyl alcohol ethoxylate            | < 500 |         | Method not given | High potential for bioaccumulation |        |

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

| Ingredient(s)                       | Adsorption coefficient Log K <sub>oc</sub> | Desorption coefficient Log K <sub>oc</sub> (des) | Method | Soil/sediment type | Evaluation                                       |
|-------------------------------------|--|--|--------|--------------------|--|
| alkyldimethylbenzylammoniumchloride | No data available                          |  |        |                    |  |
| alkyl alcohol ethoxylate            | No data available                          |  |        |                    | Potential for mobility in soil, soluble in water |

**12.5 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 Other adverse effects**

No other adverse effects known.

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

Waste from residues / unused products:

European Waste Catalogue:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.  
16 03 05\* - organic wastes containing dangerous substances.

Empty packaging

Recommendation:

Suitable cleaning agents:

Dispose of observing national or local regulations.

Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

ADR, RID, ADN, IMO/IMDG, ICAO/IATA

14.1 UN number: 3082

14.2 UN proper shipping name:

Environmentally hazardous substance, liquid, n.o.s. ( alkyldimethylbenzylammoniumchloride )

14.3 Transport hazard class(es):

Class: 9

Label(s): 9

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: Yes

Marine pollutant: Yes

## Lifeguard Disinfectant

**14.6 Special precautions for user:** None known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** The product is not transported in bulk tankers.

**Other relevant information:****ADR**

**Classification code:** M6

**Tunnel restriction code:** E

**Hazard identification number:** 90

**IMO/IMDG**

**EmS:** F-A, S-F

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

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

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

**SECTION 16: Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MS1001908

**Version:** 01.0

**Revision:** 2015-06-04

**Reason for revision:**

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the R, H and EUH phrases mentioned in section 3:**

- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.
- R21 - Harmful in contact with skin.
- R22 - Harmful if swallowed.
- R34 - Causes burns.
- R41 - Risk of serious damage to eyes.
- R50 - Very toxic to aquatic organisms.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

**End of Safety Data Sheet**