# Safety Data Sheet according to (EC) No 1907/2006 as amended



SDS No.: 680078
V001.5
Revision: 13.12.2021
printing date: 31.03.2022
Replaces version from: 05.08.2020

**Jeyes Fluid**

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

**1.1. Product identifier**
Jeyes Fluid

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
Intended use:
Hard Surface Cleaners (HSC)

**1.3. Details of the supplier of the safety data sheet**
Henkel Ltd.
Wood Lane End, Hemel Hempstead
HP2 4RQ Hertfordshire
Phone: +44 (0) 1442 278000

consumer.response@henkel.com

**1.4. Emergency telephone number**
0800 051 4433 (Monday to Friday from 9.00 to 17:00)

## SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 (CLP):**
Skin Irrit. 2
H315 Causes skin irritation.
Eye Dam. 1
H318 Causes serious eye damage.
Aquatic Chronic 3
H412 Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

**Label elements (CLP):**

**Hazard pictogram:**



**Signal word:** Danger

**Hazard statement:**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement:**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves/eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
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 or doctor/ physician.
P501 Dispose of contents/container in accordance with national regulation.

**Contains:**
D-Glucopyranose, oligomeric, decyl octyl glycosides,
C12-16 Alkyldimethylbenzylammonium chloride,
formic acid,
Lactic acid

**2.3. Other hazards**
None if used properly.

## SECTION 3: Composition/information on ingredients

**3.1. Substances**

**3.2. Mixtures**

**Hazardous substances according to CLP (EC) No 1272/2008:**

| Hazardous substances<br>CAS-No. | EINECS | REACH-Reg No. | Content | Classification |
|---|---|---|---|---|
| D-Glucopyranose, oligomeric, decyl octyl glycosides<br>68515-73-1 | 500-220-1 | 01-2119488530-36 | >= 1- < 5 % | Serious eye damage 1<br>H318 |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | 939-253-5 | 01-2119965180-41 | >= 0,25- < 2,5 % | Acute hazards to the aquatic environment 1<br>H400<br>Chronic hazards to the aquatic environment 1<br>H410<br>Skin corrosion 1B<br>H314<br>Serious eye damage 1<br>H318<br>Acute toxicity 4; Oral<br>H302 |
| formic acid<br>64-18-6 | 200-579-1 | 01-2119491174-37 | >= 1- < 5 % | Acute toxicity 4; Oral<br>H302<br>Acute toxicity 3; Inhalation<br>H331<br>Serious eye damage 1<br>H318<br>Skin corrosion 1A<br>H314<br>Flammable liquids 3<br>H226 |
| Lactic acid<br>79-33-4 | 201-196-2 | 01-2119474164-39 | >= 1- < 5 % | Skin corrosion 1C<br>H314<br>Serious eye damage 1<br>H318 |

**For full text of the H - Phrases indicated by codes only see Section 16 "Other information".**

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

General information:
In case of adverse health effects seek medical advice.

Inhalation:
Move to fresh air. In case of breathing difficulties seek immediate medical advise.

Skin contact:
Rinse with water. Take off all clothing contaminated by the product.

Eye contact:
Rinse immediately under running water (for 10 minutes), thereafter seek immediate specialist medical advise.

Ingestion:
Do not induce vomiting, seek medical advice immediately.
Rinse mouth with water, (only if the person is conscious).

**4.2. Most important symptoms and effects, both acute and delayed**
After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.

After skin contact: Temporary irritation of the skin (redness, swelling, burning).

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting. Vomit may get into the lungs causing damage (aspiration).

**4.3. Indication of any immediate medical attention and special treatment needed**
After inhalation: No special action.
After skin contact: No special action.
After eye contact: No special action.
After ingestion: Do not induce vomiting. Single administration of a non-carbonated beverage (water or tea).
After ingestion: In case of ingestion of larger or unknown quantities administer a defoamer (Dimeticon or Simeticon).

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**
Suitable extinguishing media:
Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions.
Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

**Extinguishing media which must not be used for safety reasons:**
None

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

Hazardous combustion products can be formed by pyrolysis and/or carbon monoxide.

**5.3. Advice for firefighters**
Use personal protective equipment and self-contained breathing apparatus.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin and eyes.
Ensure adequate ventilation.
Danger of slipping on spilled product.
If large amounts are released contact the fire service.

**6.2. Environmental precautions**
Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**
Remove mechanically. Rinse away residue with plenty of water.

**6.4. Reference to other sections**
See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
No special measures required if used properly.

**Hygiene measures:**
Protective equipment only required in case of industrial use or for large packs (not for household packs)
Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water, skin care.

**7.2. Conditions for safe storage, including any incompatibilities**
Store dry at between +5 and +40°C.
Consider national regulations.

**7.3. Specific end use(s)**
Hard Surface Cleaners (HSC)

## SECTION 8: Exposure controls/personal protection

**Only relevant for professional/industrial use**

**8.1. Control parameters**
Valid for
Great Britain

| Ingredient [Regulated substance] | ppm | mg/m$^3$ | Value type | Short term exposure limit category / Remarks | Remarks |
|---|---|---|---|---|---|
| FORMIC ACID<br>64-18-6 | 5 | 9,6 | Time Weighted Average (TWA): | | EH40 WEL |
| FORMIC ACID<br>64-18-6 | 5 | 9 | Time Weighted Average (TWA): | Indicative | ECTLV |

**8.2. Exposure controls**

Respiratory protection:
Not needed.

Hand protection:
For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:
Wear tight fitting goggles.

Skin protection:
Protective clothing against chemicals. Observe manufacturer's instructions.

## SECTION 9: Physical and chemical properties

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

**The following data apply to the whole mixture.**

| | |
|---|---|
| a) Appearance | liquid<br>thin<br>colourless |
| b) Odor | characteristic |
| c) Odour threshold | No data available / Not applicable |
| d) pH<br>(; Conc.: 100 % product) | 2,2 - 2,8 |
| e) Melting point | No data available / Not applicable |
| f) Initial boiling point and boiling range | No data available / Not applicable |
| g) Flash point | > 100 °C (> 212 °F)No flash point up to 100°C. Aqueous preparation. |
| h) Evaporation rate | No data available / Not applicable |
| i) Flammability (solid , gas) | No data available / Not applicable |
| j) Upper / lower flammability or explosive limits | No data available / Not applicable |
| k) Vapour pressure | No data available / Not applicable |
| l) Vapor density | No data available / Not applicable |
| m) Relative density | |
| Density<br>() | 1,014 - 1,024 g/cm3 |
| n) Solubility (ies) | soluble in water |
| o) Partition coefficient: n-octanol/water | No data available / Not applicable |
| p) Auto-ignition temperature | No data available / Not applicable |
| q) Decomposition temperature | No data available / Not applicable |
| r) Viscosity<br>() | < 20 mPa.s |
| s) Explosive properties | No data available / Not applicable |
| t) Oxidising properties | No data available / Not applicable |

**9.2. Other information**

Not applicable

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
None if used for intended purpose.

**10.2. Chemical stability**
Stable under normal conditions of temperature and pressure.

**10.3. Possibility of hazardous reactions**
See section reactivity

**10.4. Conditions to avoid**
No decomposition if used according to specifications.

**10.5. Incompatible materials**
None if used properly.

**10.6. Hazardous decomposition products**
No decomposition if used according to specifications.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| D-Glucopyranose, oligomeric, decyl octyl glycosides<br>68515-73-1 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | LD50 | 344 mg/kg | rat | not specified |
| formic acid<br>64-18-6 | LD50 | 730 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Lactic acid<br>79-33-4 | LD50 | 3.543 mg/kg | rat | EPA OPP 81-1 (Acute Oral Toxicity) |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | LD50 | 3.412,5 mg/kg | rabbit | EPA OPPTS 870.1200 (Acute Dermal Toxicity) |
| Lactic acid<br>79-33-4 | LD50 | > 2.000 mg/kg | rabbit | EPA OPP 81-2 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| formic acid<br>64-18-6 | LC50 | 7,85 mg/l | vapour | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Lactic acid<br>79-33-4 | LC50 | > 7,94 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| D-Glucopyranose, oligomeric, decyl octyl glycosides<br>68515-73-1 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | corrosive | 4 h | rabbit | not specified |
| formic acid<br>64-18-6 | corrosive | | human | not specified |

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| D-Glucopyranose, oligomeric, decyl octyl glycosides<br>68515-73-1 | highly irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | Category 1 (irreversible effects on the eye) | | rabbit | EPA OPPTS 870.2400 (Acute Eye Irritation) |
| Lactic acid<br>79-33-4 | highly irritating | | rabbit | In vitro |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Test type | Species | Method |
|---|---|---|---|---|
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| formic acid<br>64-18-6 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Lactic acid<br>79-33-4 | not sensitising | Buehler test | guinea pig | EPA OPP 81-6 (Skin Sensitisation) |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Type of study /<br>Route of administration | Metabolic activation /<br>Exposure time | Species | Method |
|---|---|---|---|---|---|
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| formic acid<br>64-18-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| formic acid<br>64-18-6 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| formic acid<br>64-18-6 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| formic acid<br>64-18-6 | negative | sister chromatid exchange assay in mammalian cells | with and without | | OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells) |
| Lactic acid<br>79-33-4 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Lactic acid<br>79-33-4 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Lactic acid<br>79-33-4 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | negative | oral: gavage | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| formic acid<br>64-18-6 | negative | oral: feed | | Drosophila melanogaster | OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster) |

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components<br>CAS-No. | Result | Route of application | Exposure time /<br>Frequency of treatment | Species | Sex | Method |
|---|---|---|---|---|---|---|
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | not carcinogenic | oral: feed | 2 y<br>daily | rat | male | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---|---|---|---|---|---|
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | NOAEL P 31 mg/kg<br><br>NOAEL F1 48 mg/kg<br><br>NOAEL F2 48 mg/kg | Two generation study | oral: feed | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| formic acid<br>64-18-6 | NOAEL P 1.000 mg/kg<br><br>NOAEL F1 1.000 mg/kg<br><br>NOAEL F2 1.000 mg/kg | Two generation study | oral: feed | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|---|---|---|---|---|
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | NOAEL 31 mg/kg | oral: feed | 95 d<br>daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| formic acid<br>64-18-6 | NOAEL 400 mg/kg | oral: feed | 52 w<br>daily | rat | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| formic acid<br>64-18-6 | NOAEL 0,122 mg/l | inhalation | 13 w<br>6 h/d, 5 d/w | rat | OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) |
| Lactic acid<br>79-33-4 | NOAEL 50.000 mg/l | oral: drinking water | 13 w<br>daily | rat | not specified |

**Aspiration hazard:**

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| D-Glucopyranose, oligomeric, decyl octyl glycosides<br>68515-73-1 | LC50 | > 100 - 500 mg/l | 96 h | Leuciscus idus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | LC50 | 0,28 mg/l | 96 h | Pimephales promelas | EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians) |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | NOEC | 0,032 mg/l | 34 d | Pimephales promelas | EPA OTS 797.1000 (Fish Early-life Stage Toxicity Test) |
| formic acid<br>64-18-6 | LC50 | 130 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Lactic acid<br>79-33-4 | LC50 | 320 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |

**Toxicity (Daphnia):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| D-Glucopyranose, oligomeric, decyl octyl glycosides<br>68515-73-1 | EC50 | 20 mg/l | 48 h | Daphnia magna | not specified |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | EC50 | 0,016 mg/l | 48 h | Daphnia magna | EU Method C.2 (Acute Toxicity for Daphnia) |
| formic acid<br>64-18-6 | EC50 | 365 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Lactic acid<br>79-33-4 | EC50 | 240 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

**Chronic toxicity to aquatic invertebrates**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | NOEC | 0,0042 mg/l | 21 d | Daphnia magna | EPA OPP 72-4 (Fish Early Life-Stage/Aquatic Invert.Life-Cyclcle Studies) |
| formic acid<br>64-18-6 | NOEC | 100 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| D-Glucopyranose, oligomeric, decyl octyl glycosides<br>68515-73-1 | EC0 | 5,7 mg/l | 96 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | DIN 38412-09 |
| D-Glucopyranose, oligomeric, decyl octyl glycosides<br>68515-73-1 | EC50 | 21 mg/l | 96 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | DIN 38412-09 |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | EC50 | 0,049 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | EC10 | 0,009 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| formic acid<br>64-18-6 | EC50 | 1.240 mg/l | 72 h | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| formic acid<br>64-18-6 | EC10 | 295 mg/l | 72 h | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Lactic acid<br>79-33-4 | EC50 | 3.500 mg/l | 72 h | Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Lactic acid<br>79-33-4 | NOEC | 1.900 mg/l | 72 h | Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

**Toxicity to microorganisms**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| D-Glucopyranose, oligomeric, decyl octyl glycosides<br>68515-73-1 | EC0 | > 10.000 mg/l | 16 h | | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test) |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | EC50 | 7,75 mg/l | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| formic acid<br>64-18-6 | EC10 | 33,9 mg/l | 17 h | | not specified |

**12.2. Persistence and degradability**

| Hazardous substances<br>CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|---|---|---|---|---|
| D-Glucopyranose, oligomeric, decyl octyl glycosides<br>68515-73-1 | readily biodegradable | no data | > 60 % | 28 d | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | readily biodegradable | aerobic | 95,5 % | 28 d | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| formic acid<br>64-18-6 | readily biodegradable | aerobic | 72 - 92 % | 28 d | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |
| Lactic acid<br>79-33-4 | readily biodegradable | aerobic | > 60 % | 28 d | OECD 301 A - F |

**12.3. Bioaccumulative potential**

Does not bioaccumulate.

| Hazardous substances<br>CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species | Method |
|---|---|---|---|---|---|
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | 79 | 35 d | | Perca fluviatilis | not specified |

**12.4. Mobility in soil**

| Hazardous substances<br>CAS-No. | LogPow | Temperature | Method |
|---|---|---|---|
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | 2,75 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| formic acid<br>64-18-6 | -2,1 | 23 °C | EU Method A.8 (Partition Coefficient) |
| Lactic acid<br>79-33-4 | -0,62 | | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |

**12.5. Results of PBT and vPvB assessment**

| Hazardous substances<br>CAS-No. | PBT/ vPvB |
|---|---|
| D-Glucopyranose, oligomeric, decyl octyl glycosides<br>68515-73-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| C12-16 Alkyldimethylbenzylammonium chloride<br>68424-85-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| formic acid<br>64-18-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Lactic acid<br>79-33-4 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Other adverse effects**
Other adverse effects of this product for the environment are not known to us.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Product disposal:
Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:
Only completely empty containers are to be disposed of as recoverable materials.

## SECTION 14: Transport information

**14.1. UN number**

| | |
|---|---|
| ADR | 1760 |
| RID | 1760 |
| ADN | 1760 |
| IMDG | 1760 |
| IATA | 1760 |

**14.2. UN proper shipping name**

| | |
|---|---|
| ADR | CORROSIVE LIQUID, N.O.S. (Alkyl dimethyl benzyl ammonium chloride,Formic acid) |
| RID | CORROSIVE LIQUID, N.O.S. (Alkyl dimethyl benzyl ammonium chloride,Formic acid) |
| ADN | CORROSIVE LIQUID, N.O.S. (Alkyl dimethyl benzyl ammonium chloride,Formic acid) |
| IMDG | CORROSIVE LIQUID, N.O.S. (Alkyl dimethyl benzyl ammonium chloride,Formic acid) |
| IATA | Corrosive liquid, n.o.s. (Alkyl dimethyl benzyl ammonium chloride,Formic acid) |

**14.3. Transport hazard class(es)**

| | |
|---|---|
| ADR | 8 |
| RID | 8 |
| ADN | 8 |
| IMDG | 8 |
| IATA | 8 |

**14.4. Packing group**

| | |
|---|---|
| ADR | III |
| RID | III |
| ADN | III |
| IMDG | III |
| IATA | III |

**14.5. Environmental hazards**

| | |
|---|---|
| ADR | not applicable |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.6. Special precautions for user**

| | |
|---|---|
| ADR | not applicable<br>Tunnelcode: (E) |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | 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**

**Declaration of ingredients according to Detergent Regulation 648/2004/EC**

| | |
|---|---|
| < 5 % | non-ionic surfactants |
| | phosphonates |
| Further ingredients | Perfumes |
| | Limonene |
| | disinfectants |

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This Safety Data Sheet contains changes from the previous version in Section(s): 2, 9, 11, 12