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Super K Cleaner

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

#### Super K Cleaner

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

##### Relevant identified uses of the substance or mixture:

Vehicle cleansing

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC35 - Washing and cleaning products

Process category [PROC]:

PROC 7 - Industrial spraying

PROC10 - Roller application or brushing

PROC11 - Non industrial spraying

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

##### Uses advised against:

No information available at present.

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

LIQUI MOLY GmbH

Jerg-Wieland-Str. 4

89081 Ulm-Lehr

Tel.: (+49) 0731-1420-0

Fax: (+49) 0731-1420-88

Qualified person's e-mail address: [info@chemical-check.de](mailto:info@chemical-check.de), [k.schnurbusch@chemical-check.de](mailto:k.schnurbusch@chemical-check.de) Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

##### Emergency information services / official advisory body:

---

##### Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) 1272/2008 (CLP)

| Hazard class | Hazard category | Hazard statement                    |
|--------------|-----------------|-------------------------------------|
| Eye Irrit.   | 2               | H319-Causes serious eye irritation. |

#### 2.2 Label elements

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## Labeling according to Regulation (EC) 1272/2008 (CLP)



### Warning

H319-Causes serious eye irritation.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P280-Wear eye protection.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313-If eye irritation persists: Get medical advice / attention.

EUH208-Contains Sweet orange extract. May produce an allergic reaction.

## 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

|   |  |
|---|--|
| <b>Fatty alcohol ethoxylate</b>                             |  |
| Registration number (REACH)                                 | ---  |
| Index   | ---  |
| EINECS, ELINCS, NLP   | ---  |
| CAS   | 160875-66-1  |
| content %   | 1-<10  |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Eye Dam. 1, H318   |
| <b>2-(2-butoxyethoxy)ethanol</b>                            | <b>Substance for which an EU exposure limit value applies.</b> |
| Registration number (REACH)                                 | 01-2119475104-44-XXXX  |
| Index   | 603-096-00-8   |
| EINECS, ELINCS, NLP   | 203-961-6  |
| CAS   | 112-34-5   |
| content %   | 1-5  |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Eye Irrit. 2, H319   |
| <b>Tetrapotassium pyrophosphate</b>                         |  |
| Registration number (REACH)                                 | 01-2119489369-18-XXXX  |
| Index   | ---  |
| EINECS, ELINCS, NLP   | 230-785-7  |
| CAS   | 7320-34-5  |
| content %   | 1-2,5  |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Eye Irrit. 2, H319   |

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|  |   |
|--|---|
| <b>Sweet orange extract</b>  |   |
| <b>Registration number (REACH)</b>                                 | 01-2119493353-35-XXXX   |
| <b>Index</b>   | ---   |
| <b>EINECS, ELINCS, NLP</b>   | 232-433-8   |
| <b>CAS</b>   | 8028-48-6   |
| <b>content %</b>   | 0,1-<1  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!  
 Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.  
 Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.  
 Unsuitable cleaning product:  
 Solvent  
 Thinners

#### Eye contact

Remove contact lenses.  
 Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.  
 Call doctor immediately - have Data Sheet available.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the eyes  
 With long-term contact:  
 Dermatitis (skin inflammation)  
 Sensitive individuals:  
 Allergic reaction possible.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

CO2  
 Extinction powder  
 Water jet spray  
 Large fire:  
 Water jet spray / alcohol resistant foam

#### Unsuitable extinguishing media

None known

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## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon  
Oxides of sulphur  
Oxides of nitrogen  
Toxic gases

## 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

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

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Flush residue using copious water.

Unsuitable cleaning product:

Solvent

Thinners

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Avoid aerosol formation.

Ensure good ventilation.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Store at room temperature.

### 7.3 Specific end use(s)

No information available at present.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Chemical Name                                       | 2-(2-butoxyethoxy)ethanol                             |     | Content %:1-5 |
|---|---|-----|---------------|
| WEL-TWA: 10 ppm (67,5 mg/m <sup>3</sup> ) (WEL, EU) | WEL-STEL: 15 ppm (101,2 mg/m <sup>3</sup> ) (WEL, EU) | --- |               |
| Monitoring procedures: ---                          |   |     |               |
| BMGV: ---   | Other information: ---                                |     |               |

| 2-(2-butoxyethoxy)ethanol |  |                              |            |       |                   |      |
|---------------------------|--|------------------------------|------------|-------|-------------------|------|
| Area of application       | Exposure route / Environmental compartment           | Effect on health             | Descriptor | Value | Unit              | Note |
|                           | Environment - freshwater                             |                              | PNEC       | 1,1   | mg/l              |      |
|                           | Environment - marine                                 |                              | PNEC       | 0,11  | mg/l              |      |
|                           | Environment - water, sporadic (intermittent) release |                              | PNEC       | 11    | mg/l              |      |
|                           | Environment - sediment, freshwater                   |                              | PNEC       | 4,4   | mg/kg             |      |
|                           | Environment - sediment, marine                       |                              | PNEC       | 0,44  | mg/kg             |      |
|                           | Environment - soil                                   |                              | PNEC       | 0,32  | mg/kg             |      |
|                           | Environment - sewage treatment plant                 |                              | PNEC       | 200   | mg/l              |      |
|                           | Environment - oral (animal feed)                     |                              | PNEC       | 56    | mg/kg             |      |
| Consumer                  | Human - inhalation                                   | Short term, local effects    | DNEL       | 60,7  | mg/m <sup>3</sup> |      |
| Consumer                  | Human - dermal                                       | Long term, systemic effects  | DNEL       | 50    | mg/kg bw/d        |      |
| Consumer                  | Human - inhalation                                   | Long term, systemic effects  | DNEL       | 40,5  | mg/m <sup>3</sup> |      |
| Consumer                  | Human - oral   | Long term, systemic effects  | DNEL       | 5     | mg/kg bw/d        |      |
| Consumer                  | Human - inhalation                                   | Long term, local effects     | DNEL       | 40,5  | mg/m <sup>3</sup> |      |
| Workers / employees       | Human - oral   | Long term, local effects     | DNEL       | 67,5  | mg/m <sup>3</sup> |      |
| Workers / employees       | Human - dermal                                       | Short term, systemic effects | DNEL       | 89    | mg/kg bw/d        |      |
| Workers / employees       | Human - dermal                                       | Long term, systemic effects  | DNEL       | 83    | mg/kg bw/d        |      |
| Workers / employees       | Human - inhalation                                   | Short term, local effects    | DNEL       | 101,2 | mg/m <sup>3</sup> |      |
| Workers / employees       | Human - inhalation                                   | Long term, systemic effects  | DNEL       | 67,5  | mg/m <sup>3</sup> |      |

| Tetrapotassium pyrophosphate |   |                  |            |       |              |      |
|------------------------------|---|------------------|------------|-------|--------------|------|
| Area of application          | Exposure route / Environmental compartment    | Effect on health | Descriptor | Value | Unit         | Note |
|                              | Environment - freshwater                      |                  | PNEC       | 0,05  | mg/l         |      |
|                              | Environment - marine                          |                  | PNEC       | 0,005 | mg/l         |      |
|                              | Environment - sewage treatment plant          |                  | PNEC       | 50    | mg/l         |      |
|                              | Environment - sporadic (intermittent) release |                  | PNEC       | 0,5   | mg/l         |      |
| Consumer                     | Human - oral                                  |                  | DNEL       | 70    | mg/kg bw/day |      |
| Consumer                     | Human - inhalation                            |                  | DNEL       | 0,68  | mg/l         |      |

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|                     |                    |                             |      |       |       |  |
|---------------------|--------------------|-----------------------------|------|-------|-------|--|
| Consumer            | Human - inhalation | Long term, systemic effects | DNEL | 4,35  | mg/m3 |  |
| Workers / employees | Human - inhalation |                             | DNEL | 2,79  | mg/m3 |  |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 17,63 | mg/m3 |  |

| Sweet orange extract |  |                             |            |         |              |      |
|----------------------|--|-----------------------------|------------|---------|--------------|------|
| Area of application  | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value   | Unit         | Note |
|                      | Environment - soil                                   |                             | PNEC       | 0,261   | mg/kg dw     |      |
|                      | Environment - sewage treatment plant                 |                             | PNEC       | 2,1     | mg/l         |      |
|                      | Environment - freshwater                             |                             | PNEC       | 0,0054  | mg/l         |      |
|                      | Environment - marine                                 |                             | PNEC       | 0,00054 | mg/l         |      |
|                      | Environment - water, sporadic (intermittent) release |                             | PNEC       | 5,77    | µg/l         |      |
|                      | Environment - sediment, freshwater                   |                             | PNEC       | 1,3     | mg/kg dw     |      |
|                      | Environment - sediment, marine                       |                             | PNEC       | 0,13    | mg/kg dw     |      |
| Consumer             | Human - oral   | Long term, systemic effects | DNEL       | 4,44    | mg/kg bw/day |      |
| Consumer             | Human - dermal                                       | Long term, systemic effects | DNEL       | 4,44    | mg/kg bw/day |      |
| Consumer             | Human - inhalation                                   | Long term, systemic effects | DNEL       | 7,78    | mg/m3        |      |
| Consumer             | Human - dermal                                       | Short term, local effects   | DNEL       | 0,0929  | mg/cm2       |      |
| Workers / employees  | Human - inhalation                                   | Long term                   | DNEL       | 31,1    | mg/m3        |      |
| Workers / employees  | Human - dermal                                       | Long term, systemic effects | DNEL       | 8,89    | mg/kg bw/day |      |
| Workers / employees  | Human - dermal                                       | Short term, local effects   | DNEL       | 0,1858  | mg/cm2       |      |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).  
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

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General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:  
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
 Chemical resistant protective gloves (EN 374).  
 If applicable  
 Protective gloves made of butyl (EN 374).  
 Protective Neoprene® / polychloroprene gloves (EN 374).  
 Protective nitrile gloves (EN 374).  
 Minimum layer thickness in mm:  
 >= 0,4  
 Permeation time (penetration time) in minutes:  
 >= 480  
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
 The recommended maximum wearing time is 50% of breakthrough time.  
 Protective hand cream recommended.

Skin protection - Other:  
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:  
 Normally not necessary.  
 If OES or MEL is exceeded.  
 Filter A2 P2 (EN 14387), code colour brown, white  
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:  
 Not applicable

Additional information on hand protection - No tests have been performed.  
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.  
 Selection of materials derived from glove manufacturer's indications.  
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.  
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                                |
|--|--------------------------------|
| Physical state:                          | Liquid                         |
| Colour:                                  | Light yellow                   |
| Odour:                                   | Orange                         |
| Odour threshold:                         | Not determined                 |
| pH-value:                                | 9,5 (20°C, DIN 19268)          |
| Melting point/freezing point:            | Not determined                 |
| Initial boiling point and boiling range: | ~100 °C                        |
| Flash point:                             | >100 °C                        |
| Evaporation rate:                        | Not determined                 |
| Flammability (solid, gas):               | n.a.                           |
| Lower explosive limit:                   | Not determined                 |
| Upper explosive limit:                   | Not determined                 |
| Vapour pressure:                         | 23 hPa (20°C, Not determined ) |
| Vapour density (air = 1):                | Not determined                 |



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|--|---|
| Density:                                 | 1,020 g/cm <sup>3</sup> (20°C, DIN 51757) |
| Bulk density:                            | n.a.                                      |
| Solubility(ies):                         | Not determined                            |
| Water solubility:                        | Mixable                                   |
| Partition coefficient (n-octanol/water): | Not determined                            |
| Auto-ignition temperature:               | No  |
| Decomposition temperature:               | Not determined                            |
| Viscosity:                               | Low-viscous                               |
| Explosive properties:                    | Product is not explosive.                 |
| Oxidising properties:                    | No  |

## 9.2 Other information

|                           |                |
|---------------------------|----------------|
| Miscibility:              | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity:             | Not determined |
| Surface tension:          | Not determined |
| Solvents content:         | 3,9 %          |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

See also section 7.

None known

### 10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

| Super K Cleaner   |          |       |       |          |             |                  |
|---|----------|-------|-------|----------|-------------|------------------|
| Toxicity / effect   | Endpoint | Value | Unit  | Organism | Test method | Notes            |
| Acute toxicity, by oral route:                                | ATE      | >2000 | mg/kg |          |             | calculated value |
| Acute toxicity, by dermal route:                              |          |       |       |          |             | n.d.a.           |
| Acute toxicity, by inhalation:                                |          |       |       |          |             | n.d.a.           |
| Skin corrosion/irritation:                                    |          |       |       |          |             | n.d.a.           |
| Serious eye damage/irritation:                                |          |       |       |          |             | n.d.a.           |
| Respiratory or skin sensitisation:                            |          |       |       |          |             | n.d.a.           |
| Germ cell mutagenicity:                                       |          |       |       |          |             | n.d.a.           |
| Carcinogenicity:  |          |       |       |          |             | n.d.a.           |
| Reproductive toxicity:  |          |       |       |          |             | n.d.a.           |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |       |          |             | n.d.a.           |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |       |          |             | n.d.a.           |
| Aspiration hazard:  |          |       |       |          |             | n.d.a.           |
| Symptoms:   |          |       |       |          |             | n.d.a.           |

| Fatty alcohol ethoxylate |          |       |      |          |             |       |
|--------------------------|----------|-------|------|----------|-------------|-------|
| Toxicity / effect        | Endpoint | Value | Unit | Organism | Test method | Notes |



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|   |      |        |       |     |  |                            |
|---|------|--------|-------|-----|--|----------------------------|
| Acute toxicity, by oral route:                                | LD50 | >2000  | mg/kg | Rat |  | Analogous conclusion       |
| Acute toxicity, by dermal route:                              | LD50 | > 2000 | mg/kg | Rat |  |                            |
| Acute toxicity, by inhalation:                                | LC50 | >20    | mg/l  |     |  |                            |
| Skin corrosion/irritation:                                    |      |        |       |     |  | Not irritant               |
| Serious eye damage/irritation:                                |      |        |       |     |  | Intensively irritant       |
| Serious eye damage/irritation:                                |      | <10    | %     |     |  | Eye Irrit. 2               |
| Respiratory or skin sensitisation:                            |      |        |       |     |  | Not sensitizing            |
| Reproductive toxicity:  |      |        |       |     |  | Negative                   |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOEL | 250    | mg/kg |     |  |                            |
| Symptoms:   |      |        |       |     |  | mucous membrane irritation |

| 2-(2-butoxyethoxy)ethanol   |          |       |       |            |   |   |
|---|----------|-------|-------|------------|---|---|
| Toxicity / effect   | Endpoint | Value | Unit  | Organism   | Test method   | Notes   |
| Acute toxicity, by oral route:  | LD50     | >5000 | mg/kg | Rat        | OECD 401 (Acute Oral Toxicity)                              |   |
| Acute toxicity, by dermal route:                                      | LD50     | 2764  | mg/kg | Rabbit     | OECD 402 (Acute Dermal Toxicity)                            |   |
| Skin corrosion/irritation:  |          |       |       | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)                | Not irritant  |
| Serious eye damage/irritation:  |          |       |       | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                   | Eye Irrit. 2  |
| Respiratory or skin sensitisation:                                    |          |       |       | Guinea pig | OECD 406 (Skin Sensitisation)                               | No (skin contact)   |
| Germ cell mutagenicity:   |          |       |       |            | OECD 471 (Bacterial Reverse Mutation Test)                  | Negative  |
| Germ cell mutagenicity:   |          |       |       |            | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)    | Negative  |
| Germ cell mutagenicity:   |          |       |       |            | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative  |
| Germ cell mutagenicity:   |          |       |       |            | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)       | Negative  |
| Reproductive toxicity:  |          | 1000  | mg/kg | Rat        | OECD 414 (Prenatal Developmental Toxicity Study)            | Negative, Analogous conclusion  |
| Aspiration hazard:  |          |       |       |            |   | No  |
| Symptoms:   |          |       |       |            |   | breathing difficulties, respiratory distress, diarrhoea, coughing, mucous membrane irritation, dizziness, watering eyes, nausea |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:   | NOAEL    | 250   | mg/kg | Rat        |   |   |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL    | >2000 | mg/kg | Rat        |   |   |



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|  |  |  |  |  |  |  |   |
|--|--|--|--|--|--|--|---|
| 12.2. Persistence and degradability:     |  |  |  |  |  |  | The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |
| 12.3. Bioaccumulative potential:         |  |  |  |  |  |  | n.d.a.  |
| 12.4. Mobility in soil:                  |  |  |  |  |  |  | n.d.a.  |
| 12.5. Results of PBT and vPvB assessment |  |  |  |  |  |  | n.d.a.  |
| 12.6. Other adverse effects:             |  |  |  |  |  |  | n.d.a.  |
| Other information:                       |  |  |  |  |  |  | According to the recipe, contains no AOX.   |

| Fatty alcohol ethoxylate                 |          |      |           |      |               |  |                                     |
|--|----------|------|-----------|------|---------------|--|-------------------------------------|
| Toxicity / effect                        | Endpoint | Time | Value     | Unit | Organism      | Test method  | Notes                               |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 10-100    | mg/l |               |  |                                     |
| 12.1. Toxicity to daphnia:               | EC50     | 48h  | >10 - 100 | mg/l | Daphnia magna |  |                                     |
| 12.2. Persistence and degradability:     |          | 28d  | >60       | %    |               | OECD 301 D (Ready Biodegradability - Closed Bottle Test) |                                     |
| 12.5. Results of PBT and vPvB assessment |          |      |           |      |               |  | No PBT substance, No vPvB substance |
| Water solubility:                        |          |      |           |      |               |  | Mixable                             |

| 2-(2-butoxyethoxy)ethanol  |           |      |       |      |                         |  |       |
|----------------------------|-----------|------|-------|------|-------------------------|--|-------|
| Toxicity / effect          | Endpoint  | Time | Value | Unit | Organism                | Test method                                      | Notes |
| 12.1. Toxicity to algae:   | NOEC/NOEL | 96h  | >100  | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)          |       |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 48h  | >=100 | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test) |       |

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|  |         |       |       |      |                     |  |   |
|--|---------|-------|-------|------|---------------------|--|---|
| Toxicity to bacteria:                    | EC10    | 30min | >1995 | mg/l | activated sludge    | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |   |
| 12.1. Toxicity to fish:                  | LC50    | 96h   | 1300  | mg/l | Lepomis macrochirus | OECD 203 (Fish, Acute Toxicity Test)   |   |
| 12.1. Toxicity to daphnia:               | EC50    | 48h   | >100  | mg/l | Daphnia magna       | OECD 202 (Daphnia sp. Acute Immobilisation Test)   |   |
| 12.2. Persistence and degradability:     |         | 28d   | 76    | %    |                     | OECD 301 D (Ready Biodegradability - Closed Bottle Test)                                 |   |
| 12.2. Persistence and degradability:     |         | 28d   | 100   | %    | activated sludge    | OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMPA Test)                          | Readily biodegradable   |
| 12.3. Bioaccumulative potential:         | Log Pow |       | 1     |      |                     | OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method)                         | Slight  |
| 12.5. Results of PBT and vPvB assessment |         |       |       |      |                     |  | No PBT substance, No vPvB substance   |
| Other information:                       |         |       |       |      |                     |  | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |

| Tetrapotassium pyrophosphate             |           |      |       |      |                     |  |   |
|--|-----------|------|-------|------|---------------------|--|---|
| Toxicity / effect                        | Endpoint  | Time | Value | Unit | Organism            | Test method                                      | Notes                                     |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | >100  | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test)             |   |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | >100  | mg/l | Daphnia magna       | OECD 202 (Daphnia sp. Acute Immobilisation Test) |   |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | >100  | mg/l |                     | OECD 201 (Alga, Growth Inhibition Test)          |   |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | >100  | mg/l |                     |  |   |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | -2    |      |                     |  | Bioaccumulation is unlikely (LogPow < 1). |
| 12.5. Results of PBT and vPvB assessment |           |      |       |      |                     |  | No PBT substance, No vPvB substance       |

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|                       |      |    |       |      |                  |  |   |
|-----------------------|------|----|-------|------|------------------|--|---|
| Toxicity to bacteria: | EC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |   |
| Other information:    |      |    |       |      |                  |  | Contains organically bound halogens, which may contribute to the AOX value in wastewater. |

| Sweet orange extract                     |           |      |         |      |                         |  |   |
|--|-----------|------|---------|------|-------------------------|--|---|
| Toxicity / effect                        | Endpoint  | Time | Value   | Unit | Organism                | Test method  | Notes   |
| 12.1. Toxicity to fish:                  | NOEC/NOEL | 96h  | 4,0     | mg/l | Brachydanio rerio       | OECD 203 (Fish, Acute Toxicity Test)                               |   |
| 12.1. Toxicity to fish:                  | EL50      | 96h  | 2,4-3,1 | mg/l | Brachydanio rerio       | OECD 203 (Fish, Acute Toxicity Test)                               |   |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 48h  | 0,48    | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |   |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | 0,67    | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |   |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | 50      | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                            |   |
| 12.2. Persistence and degradability:     |           | 28d  | 72-83,4 | %    |                         | OECD 301 B (Ready Biodegradability - Co2 Evolution Test)           | Readily biodegradable   |
| 12.2. Persistence and degradability:     |           | 28d  | 100     | %    |                         | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable   |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | 150     | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                            |   |
| 12.4. Mobility in soil:                  |           |      |         |      |                         |  | Product is slightly volatile.   |
| 12.5. Results of PBT and vPvB assessment |           |      |         |      |                         |  | No PBT substance, No vPvB substance   |
| Other information:                       |           |      |         |      |                         |  | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |

### SECTION 13: Disposal considerations

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### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:  
 The waste codes are recommendations based on the scheduled use of this product.  
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)  
 07 06 01 aqueous washing liquids and mother liquors  
 20 01 29 detergents containing hazardous substances  
 Recommendation:  
 Sewage disposal shall be discouraged.  
 Pay attention to local and national official regulations.  
 E.g. suitable incineration plant.  
 E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.  
 Empty container completely.  
 Uncontaminated packaging can be recycled.  
 Dispose of packaging that cannot be cleaned in the same manner as the substance.  
 Recommended cleaner:  
 Water

## SECTION 14: Transport information

### General statements

14.1. UN number: n.a.

### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:  
 14.3. Transport hazard class(es): n.a.  
 14.4. Packing group: n.a.  
 Classification code: n.a.  
 LQ: n.a.  
 14.5. Environmental hazards: Not applicable  
 Tunnel restriction code:

### Transport by sea (IMDG-code)

14.2. UN proper shipping name:  
 14.3. Transport hazard class(es): n.a.  
 14.4. Packing group: n.a.  
 Marine Pollutant: n.a.  
 14.5. Environmental hazards: Not applicable

### Transport by air (IATA)

14.2. UN proper shipping name:  
 14.3. Transport hazard class(es): n.a.  
 14.4. Packing group: n.a.  
 14.5. Environmental hazards: Not applicable

### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe restrictions:  
 Regulation (EC) No 1907/2006, Annex XVII  
 2-(2-butoxyethoxy)ethanol  
 Comply with trade association/occupational health regulations.

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Directive 2010/75/EU (VOC): 0,8 %

**REGULATION (EC) No 648/2004**

less than 5 %  
 anionic surfactants  
 non-ionic surfactants  
 phosphates

perfumes  
 LIMONENE

National rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.

**15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information**

Revised sections: 3, 11, 12, 15

These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

**Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):**

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|---|--|
| Eye Irrit. 2, H319  | Classification according to calculation procedure. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

- Eye Irrit. — Eye irritation
- Eye Dam. — Serious eye damage
- Flam. Liq. — Flammable liquid
- Asp. Tox. — Aspiration hazard
- Skin Irrit. — Skin irritation
- Skin Sens. — Skin sensitization
- Aquatic Chronic — Hazardous to the aquatic environment - chronic

**Any abbreviations and acronyms used in this document:**

- acc., acc. to according, according to
- ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
- AOX Adsorbable organic halogen compounds
- approx. approximately
- Art., Art. no. Article number
- ASTM ASTM International (American Society for Testing and Materials)
- ATE Acute Toxicity Estimate
- BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)



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BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BSEF The International Bromine Council  
 bw body weight  
 CAS Chemical Abstracts Service  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EC European Community  
 ECHA European Chemicals Agency  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 etc. et cetera  
 EU European Union  
 EVAL Ethylene-vinyl alcohol copolymer  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC (Code) International Bulk Chemical (Code)  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 IUPAC International Union for Pure Applied Chemistry  
 LC50 Lethal Concentration to 50 % of a test population  
 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 PBT persistent, bioaccumulative and toxic  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 ppm parts per million  
 PVC Polyvinylchloride  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SVHC Substances of Very High Concern  
 Tel. Telephone  
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
 VOC Volatile organic compounds  
 vPvB very persistent and very bioaccumulative  
 wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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