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Revision date / version: 11.12.2017 / 0021  
Replacing version dated / version: 22.06.2017 / 0020  
Valid from: 11.12.2017  
PDF print date: 24.01.2018  
Windshield super-concentrated cleaner 20 ml  
Art.: 22033

## 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

**Windshield super-concentrated cleaner 20 ml**  
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#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

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

Window cleaner

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

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC11 - Non industrial spraying

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

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

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

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LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany

Phone:(+49) 0731-1420-0, Fax:(+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, 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:**

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**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             |
|--------------|-----------------|------------------------------|
| Skin Irrit.  | 2               | H315-Causes skin irritation. |

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Eye Dam. 1 H318-Causes serious eye damage.

## 2.2 Label elements

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



Danger

H315-Causes skin irritation. H318-Causes serious eye damage.

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

P280-Wear protective gloves and eye protection / face 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. P310-Immediately call a POISON CENTER / doctor.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts  
 Sulfonic acids, C14-17-sec-alkane, sodium salts  
 Diisooctyl sulfosuccinate, sodium salt

## 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 Substance

n.a.

### 3.2 Mixture

|   |  |
|---|--|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts       | Substance with specific conc. limit(s) acc. to REACH-registration  |
| Registration number (REACH)                                 | 01-2119488639-16-XXXX  |
| Index   | ---  |
| EINECS, ELINCS, NLP   | 500-234-8 (NLP)  |
| CAS   | 68891-38-3   |
| content %   | 10-20  |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |
| Sulfonic acids, C14-17-sec-alkane, sodium salts             | Substance with specific conc. limit(s) acc. to REACH-registration  |
| Registration number (REACH)                                 | 01-2119489924-20-XXXX  |
| Index   | ---  |
| EINECS, ELINCS, NLP   | 307-055-2  |
| CAS   | 97489-15-1   |

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|  |  |
|--|--|
| <b>content %</b>   | 1-10   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |

|  |   |
|--|---|
| <b>Diisooctyl sulfosuccinate, sodium salt</b>                      |   |
| <b>Registration number (REACH)</b>                                 | ---   |
| <b>Index</b>   | ---   |
| <b>EINECS, ELINCS, NLP</b>   | 209-406-4   |
| <b>CAS</b>   | 577-11-7  |
| <b>content %</b>   | 1-5   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318 |

|  |  |
|--|--|
| <b>Bronopol (INN)</b>  |  |
| <b>Registration number (REACH)</b>                                 | ---  |
| <b>Index</b>   | 603-085-00-8   |
| <b>EINECS, ELINCS, NLP</b>   | 200-143-0  |
| <b>CAS</b>   | 52-51-7  |
| <b>content %</b>   | 0,01-<0,1  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Acute Tox. 4, H312<br>Acute Tox. 4, H302<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10) |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Protect uninjured eye.

Follow-up examination by an ophthalmologist

#### Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

### 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.

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.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

The product does not burn.  
Adapt to the nature and extent of fire.

#### Unsuitable extinguishing media

None known

### 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.  
Diluting with water is possible.  
Flush residue using copious water.

### 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

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

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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.  
 Protect from frost.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

| Alcohols, C12-14, ethoxylated, sulfates, sodium salts |   |                             |            |       |                   |      |
|---|---|-----------------------------|------------|-------|-------------------|------|
| Area of application                                   | Exposure route / Environmental compartment    | Effect on health            | Descriptor | Value | Unit              | Note |
|   | Environment - freshwater                      |                             | PNEC       | 0,24  | mg/l              |      |
|   | Environment - periodic release                |                             | PNEC       | 0,13  | mg/l              |      |
|   | Environment - marine                          |                             | PNEC       | 0,024 | mg/l              |      |
|   | Environment - sediment, freshwater            |                             | PNEC       | 5,45  | mg/kg dry weight  |      |
|   | Environment - sediment, marine                |                             | PNEC       | 0,545 | mg/kg dry weight  |      |
|   | Environment - sewage treatment plant          |                             | PNEC       | 10000 | mg/l              |      |
|   | Environment - soil                            |                             | PNEC       | 0,946 | mg/kg dry weight  |      |
|   | Environment - sporadic (intermittent) release |                             | PNEC       | 0,071 | mg/l              |      |
|   | Environment - sediment, freshwater            | Short term                  | PNEC       | 0,917 | mg/kg             |      |
|   | Environment - sediment, marine                | Short term                  | PNEC       | 0,092 | mg/kg             |      |
|   | Environment - soil                            | Short term                  | PNEC       | 7,5   | mg/kg             |      |
| Consumer  | Human - oral                                  | Long term, systemic effects | DNEL       | 15    | mg/kg bw/day      |      |
| Consumer  | Human - dermal                                | Long term, systemic effects | DNEL       | 1650  | mg/kg bw/day      |      |
| Consumer  | Human - inhalation                            | Long term, systemic effects | DNEL       | 52    | mg/m <sup>3</sup> |      |
| Workers / employees                                   | Human - dermal                                | Long term, systemic effects | DNEL       | 2750  | mg/kg bw/day      |      |
| Workers / employees                                   | Human - inhalation                            | Long term, systemic effects | DNEL       | 175   | mg/m <sup>3</sup> |      |

| Sulfonic acids, C14-17-sec-alkane, sodium salts |  |                  |            |       |          |      |
|---|--|------------------|------------|-------|----------|------|
| Area of application                             | Exposure route / Environmental compartment           | Effect on health | Descriptor | Value | Unit     | Note |
|   | Environment - freshwater                             |                  | PNEC       | 0,04  | mg/l     |      |
|   | Environment - marine                                 |                  | PNEC       | 0,004 | mg/l     |      |
|   | Environment - water, sporadic (intermittent) release |                  | PNEC       | 0,06  | mg/l     |      |
|   | Environment - sediment, freshwater                   |                  | PNEC       | 9,4   | mg/kg dw |      |

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|                     |                                      |                             |      |      |                    |  |
|---------------------|--------------------------------------|-----------------------------|------|------|--------------------|--|
|                     | Environment - sediment, marine       |                             | PNEC | 0,94 | mg/kg dw           |  |
|                     | Environment - soil                   |                             | PNEC | 9,4  | mg/kg dw           |  |
|                     | Environment - sewage treatment plant |                             | PNEC | 600  | mg/l               |  |
|                     | Environment - oral (animal feed)     |                             | PNEC | 53,3 | mg/kg feed         |  |
|                     | Environment - periodic release       |                             | DNEL | 0    | mg/kg              |  |
| Consumer            | Human - dermal                       | Long term, systemic effects | DNEL | 3,57 | mg/kg bw/d         |  |
| Consumer            | Human - inhalation                   | Long term, systemic effects | DNEL | 12,4 | mg/m <sup>3</sup>  |  |
| Consumer            | Human - oral                         | Long term, systemic effects | DNEL | 7,1  | mg/kg bw/d         |  |
| Consumer            | Human - dermal                       | Short term, local effects   | DNEL | 2,8  | mg/cm <sup>2</sup> |  |
| Consumer            | Human - dermal                       | Long term, local effects    | DNEL | 2,8  | mg/cm <sup>2</sup> |  |
| Workers / employees | Human - dermal                       | Short term, local effects   | DNEL | 2,8  | mg/cm <sup>2</sup> |  |
| Workers / employees | Human - dermal                       | Long term, systemic effects | DNEL | 5    | mg/kg bw/d         |  |
| Workers / employees | Human - inhalation                   | Long term, systemic effects | DNEL | 35   | mg/m <sup>3</sup>  |  |
| Workers / employees | Human - dermal                       | Long term, local effects    | DNEL | 2,8  | mg/cm <sup>2</sup> |  |

### 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.

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

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).  
 If applicable  
 Face protection (EN 166)

Skin protection - Hand protection:  
 Chemical resistant protective gloves (EN 374).  
 Recommended  
 Safety gloves made of butyl (EN 374)  
 Minimum layer thickness in mm:  
 >= 0,5  
 Permeation time (penetration time) in minutes:  
 >= 480  
 The breakthrough times determined in accordance with EN 374 Part 3 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.

Thermal hazards:  
 Not applicable

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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:                                  | Green, Yellow                             |
| Odour:                                   | Fruity                                    |
| Odour threshold:                         | Not determined                            |
| pH-value:                                | 7,7 (20°C, DIN 19268)                     |
| Melting point/freezing point:            | Not determined                            |
| Initial boiling point and boiling range: | ~100 °C                                   |
| Flash point:                             | Not determined                            |
| Evaporation rate:                        | Not determined                            |
| Flammability (solid, gas):               | n.a.                                      |
| Lower explosive limit:                   | Product is not explosive.                 |
| Upper explosive limit:                   | Not determined                            |
| Vapour pressure:                         | 23 hPa (20°C)                             |
| Vapour density (air = 1):                | Not determined                            |
| Density:                                 | 1,033 g/cm <sup>3</sup> (20°C, DIN 51757) |
| Bulk density:                            | Not determined                            |
| Solubility(ies):                         | Not determined                            |
| Water solubility:                        | Mixable                                   |
| Partition coefficient (n-octanol/water): | Not determined                            |
| Auto-ignition temperature:               | No  |
| Decomposition temperature:               | Not determined                            |
| Viscosity:                               | Not determined                            |
| 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:         | 0 %            |

## 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

None known

### 10.5 Incompatible materials

Avoid contact with strong acids.

### 10.6 Hazardous decomposition products

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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).

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| 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.           |

#### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

| Toxicity / effect   | Endpoint | Value | Unit  | Organism   | Test method  | Notes                              |
|---|----------|-------|-------|------------|--|------------------------------------|
| Acute toxicity, by oral route:                                      | LD50     | 4100  | mg/kg | Rat        | OECD 401 (Acute Oral Toxicity)                                 |                                    |
| Acute toxicity, by dermal route:                                    | LD50     | >2000 | mg/kg | Rat        | OECD 402 (Acute Dermal Toxicity)                               |                                    |
| Skin corrosion/irritation:  |          |       |       | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)                   | Irritant                           |
| Serious eye damage/irritation:                                      |          |       |       | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                      | Risk of serious damage to eyes.    |
| Serious eye damage/irritation:                                      |          | ≥10   | %     |            |  | Eye Dam. 1                         |
| Serious eye damage/irritation:                                      |          | ≥5    | %     |            |  | Eye Irrit. 2                       |
| Respiratory or skin sensitisation:                                  |          |       |       | Guinea pig | OECD 406 (Skin Sensitisation)                                  | Not sensitizing                    |
| Germ cell mutagenicity:   |          |       |       |            | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative                           |
| Reproductive toxicity:  | NOAEL    | >1000 | mg/kg | Rat        | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative, References               |
| Reproductive toxicity:  | NOAEL    | >300  | mg/kg | Rat        | OECD 416 (Two-generation Reproduction Toxicity Study)          | Negative, References               |
| Symptoms:   |          |       |       |            |  | mucous membrane irritation         |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL    | >225  | mg/kg | Rat        | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Target organ(s): liver, References |

#### Sulfonic acids, C14-17-sec-alkane, sodium salts

| Toxicity / effect              | Endpoint | Value     | Unit  | Organism | Test method                    | Notes |
|--------------------------------|----------|-----------|-------|----------|--------------------------------|-------|
| Acute toxicity, by oral route: | LD50     | >500-2000 | mg/kg | Rat      | OECD 401 (Acute Oral Toxicity) |       |



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|                                    |      |       |       |            |  |                                   |
|------------------------------------|------|-------|-------|------------|--|-----------------------------------|
| Acute toxicity, by dermal route:   | LD50 | >2000 | mg/kg | Mouse      |  | Analogous conclusion              |
| Skin corrosion/irritation:         |      |       |       | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Irrit. 2                     |
| Serious eye damage/irritation:     |      |       |       | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)    | Eye Dam. 1                        |
| Respiratory or skin sensitisation: |      |       |       | Guinea pig | OECD 406 (Skin Sensitisation)                | No (skin contact)                 |
| Germ cell mutagenicity:            |      |       |       |            |  | No indications of such an effect. |
| Carcinogenicity:                   |      |       |       | Rat        |  | No indications of such an effect. |
| Reproductive toxicity:             |      | 200   | mg/kg | Rat        |  | No indications of such an effect. |
| Aspiration hazard:                 |      |       |       |            |  | No                                |

| Diisooctyl sulfosuccinate, sodium salt                        |          |       |         |          |  |  |
|---|----------|-------|---------|----------|--|--|
| Toxicity / effect   | Endpoint | Value | Unit    | Organism | Test method                                  | Notes  |
| Acute toxicity, by oral route:                                | LD50     | >2000 | mg/kg   | Rat      | OECD 401 (Acute Oral Toxicity)               |  |
| Acute toxicity, by dermal route:                              | LD50     | >2000 | mg/kg   | Rabbit   | OECD 402 (Acute Dermal Toxicity)             |  |
| Acute toxicity, by inhalation:                                | LC50     | >20   | mg/l/4h |          |  |  |
| Skin corrosion/irritation:                                    |          |       |         | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion) | Irritant   |
| Serious eye damage/irritation:                                |          |       |         | Rabbit   | OECD 405 (Acute Eye Irritation/Corrosion)    | Eye Dam. 1   |
| Germ cell mutagenicity:                                       |          |       |         |          | (Ames-Test)                                  | Negative   |
| Reproductive toxicity:  |          |       |         | Rat      |  | Negative   |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          | 750   | mg/kg   |          |  | Negative   |
| Symptoms:   |          |       |         |          |  | mucous membrane irritation, coughing, breathing difficulties |

| Bronopol (INN)  |          |       |       |          |  |  |
|---|----------|-------|-------|----------|--|--|
| Toxicity / effect   | Endpoint | Value | Unit  | Organism | Test method                                  | Notes  |
| Acute toxicity, by oral route:                              | LD50     | 305   | mg/kg | Rat      | OECD 401 (Acute Oral Toxicity)               | data of a diluted aqueous solution   |
| Acute toxicity, by dermal route:                            | LD50     | 1600  | mg/kg | Rat      |  |  |
| Skin corrosion/irritation:                                  |          |       |       | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion) | Irritant   |
| Serious eye damage/irritation:                              |          |       |       | Rabbit   | (Draize-Test)                                | Risk of serious damage to eyes.  |
| Specific target organ toxicity - single exposure (STOT-SE): |          |       |       |          |  | May cause respiratory irritation.  |
| Symptoms:   |          |       |       |          |  | eyes, reddened, drowsiness, coughing, mucous membrane irritation, nausea and vomiting. |

## SECTION 12: Ecological information

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

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| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
|--|----------|------|-------|------|----------|-------------|---|
| 12.1. Toxicity to fish:                  |          |      |       |      |          |             | n.d.a.  |
| 12.1. Toxicity to daphnia:               |          |      |       |      |          |             | n.d.a.  |
| 12.1. Toxicity to algae:                 |          |      |       |      |          |             | n.d.a.  |
| 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:                       | AOX      |      |       |      |          |             | Does not contain any organically bound halogens which can contribute to the AOX value in waste water.   |

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

| Toxicity / effect          | Endpoint  | Time | Value | Unit | Organism          | Test method                                      | Notes |
|----------------------------|-----------|------|-------|------|-------------------|--|-------|
| 12.1. Toxicity to fish:    | LC50      | 96h  | 7,1   | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test)             |       |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d  | 0,27  | mg/l | Daphnia magna     | OECD 211 (Daphnia magna Reproduction Test)       |       |
| 12.1. Toxicity to daphnia: | EC50      | 48h  | 7,4   | mg/l | Daphnia magna     | OECD 202 (Daphnia sp. Acute Immobilisation Test) |       |

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|  |           |     |      |      |                    |  |   |
|--|-----------|-----|------|------|--------------------|--|---|
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 96h | 0,95 | mg/l |                    | OECD 201 (Alga, Growth Inhibition Test)                            |   |
| 12.1. Toxicity to algae:                 | EC50      | 72h | 27,7 | mg/l |                    | OECD 201 (Alga, Growth Inhibition Test)                            |   |
| 12.2. Persistence and degradability:     |           | 28d | 95   | %    |                    | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) |   |
| 12.2. Persistence and degradability:     |           | 28d | >70  | %    |                    | OECD 301 A (Ready Biodegradability - DOC Die-Away Test)            | Readily biodegradable                     |
| 12.3. Bioaccumulative potential:         | Kow       |     | 0,3  |      |                    |  |   |
| 12.3. Bioaccumulative potential:         | Log Pow   |     | 0,3  |      |                    |  | Bioaccumulation is unlikely (LogPow < 1). |
| 12.4. Mobility in soil:                  | Koc       |     | 191  |      |                    |  | calculated value                          |
| 12.5. Results of PBT and vPvB assessment |           |     |      |      |                    |  | No PBT substance                          |
| Toxicity to bacteria:                    | EC50      | 16h | >10  | g/l  | Pseudomonas putida | DIN 38412 T.8  |   |

**Sulfonic acids, C14-17-sec-alkane, sodium salts**

| Toxicity / effect                    | Endpoint  | Time | Value | Unit | Organism                | Test method  | Notes                 |
|--------------------------------------|-----------|------|-------|------|-------------------------|--|-----------------------|
| 12.1. Toxicity to fish:              | LC50      | 96h  | 1 -10 | mg/l | Brachydanio rerio       | OECD 203 (Fish, Acute Toxicity Test)                               |                       |
| 12.1. Toxicity to fish:              | NOEC/NOEL | 28d  | 0,85  | mg/l | Oncorhynchus mykiss     | OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)            |                       |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 22d  | 0,36  | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                       |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | 9,81  | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                       |
| 12.1. Toxicity to algae:             | EC50      | 72h  | >61   | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                            |                       |
| 12.2. Persistence and degradability: |           | 28d  | 96,2  | %    | activated sludge        | OECD 304 A (Inherent Biodegradability in Soil)                     | Readily biodegradable |
| 12.2. Persistence and degradability: |           | 28d  | 78    | %    |                         | OECD 301 B (Ready Biodegradability - Co2 Evolution Test)           | Readily biodegradable |
| 12.2. Persistence and degradability: |           | 28d  | 89    | %    | activated sludge        | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable |

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|  |           |     |     |       |                           |   |  |
|--|-----------|-----|-----|-------|---------------------------|---|--|
| 12.3. Bioaccumulative potential:         |           |     |     |       |                           |   | Not accepted due to the log Pow - value. |
| 12.5. Results of PBT and vPvB assessment |           |     |     |       |                           |   | No PBT substance, No vPvB substance      |
| Toxicity to bacteria:                    | NOEC/NOEL | 16h | 600 | mg/l  | <i>Pseudomonas putida</i> | DIN 38412 T.8   |  |
| Other organisms:                         | NOEC/NOEL | 56d | 470 | mg/kg | <i>Eisenia foetida</i>    | OECD 222 (Earthworm Reproduction Test ( <i>Eisenia foetida</i> / <i>Eisenia andrei</i> )) |  |

| Diisooctyl sulfosuccinate, sodium salt |          |      |       |      |                                |  |                       |
|--|----------|------|-------|------|--------------------------------|--|-----------------------|
| Toxicity / effect                      | Endpoint | Time | Value | Unit | Organism                       | Test method  | Notes                 |
| 12.1. Toxicity to fish:                | LC50     | 96h  | 49    | mg/l | <i>Brachydanio rerio</i>       | 84/449/EEC C.1   |                       |
| 12.1. Toxicity to daphnia:             | EC50     | 48h  | 10,3  | mg/l | <i>Daphnia magna</i>           | 84/449/EEC C.2   |                       |
| 12.1. Toxicity to algae:               | EC50     | 72h  | 39,3  | mg/l | <i>Scenedesmus subspicatus</i> | 84/449/EEC C.3   |                       |
| 12.2. Persistence and degradability:   |          | 28d  | 91,2  | %    |                                | OECD 310 (Ready Biodegradability - CO <sub>2</sub> in sealed vessels (Headspace Test)) | Readily biodegradable |
| Toxicity to bacteria:                  |          | 16h  | 164   | mg/l | <i>Pseudomonas putida</i>      | DIN 38412 T.8  |                       |

| Bronopol (INN)                       |          |      |           |      |  |             |  |
|--------------------------------------|----------|------|-----------|------|--|-------------|--|
| Toxicity / effect                    | Endpoint | Time | Value     | Unit | Organism                               | Test method | Notes                                    |
| 12.1. Toxicity to fish:              | LC50     | 96h  | 35,7      | mg/l | <i>Lepomis macrochirus</i>             |             |  |
| 12.1. Toxicity to fish:              | LC50     | 96h  | 41,2      | mg/l | <i>Oncorhynchus mykiss</i>             |             |  |
| 12.1. Toxicity to daphnia:           | EC50     | 48h  | 1,4       | mg/l | <i>Daphnia magna</i>                   |             |  |
| 12.1. Toxicity to algae:             | EC50     | 72h  | 0,4 - 2,8 | mg/l | <i>Pseudokirchneriella subcapitata</i> |             |  |
| 12.2. Persistence and degradability: | DOC      |      | 50        | %    |  | ISO 9888    | Biodegradable                            |
| 12.3. Bioaccumulative potential:     | Log Pow  |      | 0,18      |      |  |             | Not accepted due to the log Pow - value. |
| Toxicity to bacteria:                | EC50     | 16h  | >50       | mg/l | <i>Pseudomonas putida</i>              |             |  |

## SECTION 13: Disposal considerations

### 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.

GB

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E.g. dispose at suitable refuse site.

**For contaminated packing material**

Pay attention to local and national official regulations.

Empty container completely.

Untampered packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

**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:

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): < 1 %

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

15 % or over but less than 30 %

anionic surfactants

perfumes

2-BROMO-2-NITROPROPANE-1,3-DIOL

BENZISOTHIAZOLINONE

**15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information**

Revised sections: 15

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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### 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                             |
|---|--|
| Skin Irrit. 2, H315   | Classification according to calculation procedure. |
| Eye Dam. 1, H318  | 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.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H335 May cause respiratory irritation.  
 H400 Very toxic to aquatic life.  
 H412 Harmful to aquatic life with long lasting effects.

Skin Irrit. — Skin irritation  
 Eye Dam. — Serious eye damage  
 Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Acute Tox. — Acute toxicity - oral  
 Flam. Liq. — Flammable liquid  
 Acute Tox. — Acute toxicity - dermal  
 STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation  
 Aquatic Acute — Hazardous to the aquatic environment - acute

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

AC Article Categories  
 acc., acc. to according, according to  
 ACGIH American Conference of Governmental Industrial Hygienists  
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 AOEL Acceptable Operator Exposure Level  
 AOX Adsorbable organic halogen compounds  
 approx. approximately  
 Art., Art. no. Article number  
 ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)  
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BCF Bioconcentration factor  
 BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)  
 BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)  
 BMGV Biological monitoring guidance value (EH40, UK)  
 BOD Biochemical oxygen demand  
 BSEF Bromine Science and Environmental Forum  
 bw body weight  
 CAS Chemical Abstracts Service  
 CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids  
 CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques  
 CIPAC Collaborative International Pesticides Analytical Council  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 COD Chemical oxygen demand  
 CTFA Cosmetic, Toiletry, and Fragrance Association

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DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 DOC Dissolved organic carbon  
 DT50 Dwell Time - 50% reduction of start concentration  
 DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EC European Community  
 ECHA European Chemicals Agency  
 EEA European Economic Area  
 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)  
 ERC Environmental Release Categories  
 ES Exposure scenario  
 etc. et cetera  
 EU European Union  
 EWC European Waste Catalogue  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
 HGWP Halocarbon Global Warming Potential  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC Intermediate Bulk Container  
 IBC (Code) International Bulk Chemical (Code)  
 IC Inhibitory concentration  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemicals Information Database  
 LC lethal concentration  
 LC50 lethal concentration 50 percent kill  
 LCLo lowest published lethal concentration  
 LD Lethal Dose of a chemical  
 LD50 Lethal Dose, 50% kill  
 LDLo Lethal Dose Low  
 LOAEL Lowest Observed Adverse Effect Level  
 LOEC Lowest Observed Effect Concentration  
 LOEL Lowest Observed Effect Level  
 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  
 NIOSH National Institute of Occupational Safety and Health (United States of America)  
 NOAEC No Observed Adverse Effective Concentration  
 NOAEL No Observed Adverse Effect Level  
 NOEC No Observed Effect Concentration  
 NOEL No Observed Effect Level  
 ODP Ozone Depletion Potential  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 PAH polycyclic aromatic hydrocarbon  
 PBT persistent, bioaccumulative and toxic  
 PC Chemical product category  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 POCP Photochemical ozone creation potential

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ppm parts per million  
PROC Process category  
PTFE Polytetrafluorethylene  
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)  
SADT Self-Accelerating Decomposition Temperature  
SAR Structure Activity Relationship  
SU Sector of use  
SVHC Substances of Very High Concern  
Tel. Telephone  
ThOD Theoretical oxygen demand  
TOC Total organic carbon  
TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)  
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))  
VOC Volatile organic compounds  
vPvB very persistent and very bioaccumulative  
WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).  
WHO World Health Organization  
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:

**Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90**

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