

**HELI Schmuck-Reinigungskonzentrat**

Print date 27.06.2023  
Revision date 27.06.2023  
Version 2.3 (en)  
replaces version of 11.08.2022 (2.2)

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

**1.1 Product identifier**

Trade name/designation HELI Schmuck-Reinigungskonzentrat

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

**Sector of uses [SU]**

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
SU3 Industrial uses

**Process categories [PROC]**

PROC8a Transfer of substance or mixture (charging and discharging) at non- dedicated facilities  
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)  
PROC13 Treatment of articles by dipping and pouring

**Environmental release categories [ERC]**

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

**Product Categories [PC]**

PC35 Washing and cleaning products

**Use of the substance/mixture**

Neutral aqueous cleaning concentrate for soft cleaning treatment of jewelry (jewelry with precious metals and vogue jewelry), with and without ultrasonics.

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

**Supplier**

Distributor: Beco Technic GmbH  
Hermsdorfer Str. 5  
D-21502 Geesthacht / Deutschland  
Telephone +49 (0) 41 52 / 80 96 56  
Telefax +49 (0) 41 52 / 80 96 96  
E-mail service@beco-lifestyle.com  
Website www.beco-technic.com

Department responsible for information:  
Technische Auskunft: info@beco-technic.com

**1.4 Emergency telephone number**

- +49 (0)551-19240 (24h)

**\* SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Remark**

The product is not classified as dangerous according to Regulation (EC) 1272/2008 [GHS].  
Classification procedure for skin corrosion/irritation: Bridging principle 'Substantially similar mixtures.'  
Classification procedure for serious eye damage/eye irritation: Bridging principle 'Substantially similar mixtures.'

**2.2 Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Special rules for supplemental label elements for certain mixtures**

EUH210 Safety data sheet available on request.

**Other labelling**

Labelling for contents according to regulation (EC) No. 648/2004:  
15 - 30% anionic surfactants  
< 5% non-ionic surfactants  
2-Bromo-2-nitropropane-1,3-diol (~35 ppm)

**\* 2.3 Other hazards**

**\* Adverse human health effects and symptoms**

The product does not contain any substances with endocrine-disrupting properties  $\geq 0.1\%$ .

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\* **Adverse environmental effects**  
 The product does not contain any substances with endocrine-disrupting properties  $\geq 0.1\%$ .

**Results of PBT and vPvB assessment**  
 The product does not contain any PBT-/vPvB-substances according to the recipe.

\* **SECTION 3: Composition / information on ingredients**

**3.1 Substances**

not applicable

\* **3.2 Mixtures**

**Hazardous ingredients**

| CAS No.    | EC No.    | Substance name   | Concentration   | Classification according to Regulation (EC) No 1272/2008 [CLP]     | SCL/ M/ ATE   |
|------------|-----------|--|-----------------|--|---|
| 34590-94-8 | 252-104-2 | (2-methoxymethylethoxy)-propanol   | 5 - 15 weight-% |  |   |
|            | 932-051-8 | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid | 5 - 12 weight-% | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Aquatic Chronic 3; H412 |   |
| 68891-38-3 | 500-234-8 | Alcohols, C12-14, ethoxylated, sulfates, sodium salts  | 5 - 12 weight-% | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Aquatic Chronic 3; H412 | Eye Dam. 1; H318:<br>C $\geq$ 10%<br>Eye Irrit. 2; H319:<br>5% $\leq$ C $<$ 10% |
| 26027-37-2 |           | Oleic acid monoethanolamide, ethoxylated   | < 5 weight-%    | Skin Corr. 1B; H314<br>Eye Dam. 1; H318                            |   |

| REACH No.               | Substance name   |
|-------------------------|--|
| 01-2119450011-60        | (2-methoxymethylethoxy)-propanol   |
| 01-2119565112-48        | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid |
| 01-2119488639-16        | Alcohols, C12-14, ethoxylated, sulfates, sodium salts  |
| Not relevant (polymer). | Oleic acid monoethanolamide, ethoxylated   |

**Additional information**  
 Aqueous mixture from anionic and nonionic surfactants, complexing agent, solvent and dyestuff.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**Following skin contact**  
 In case of contact with skin wash off immediately with plenty of water.

**After eye contact**  
 After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**Following ingestion**  
 Do NOT induce vomiting.  
 If swallowed seek medical advice immediately and show the doctor packing or label.  
 Rinse mouth immediately and drink plenty of water.

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

**Symptoms**

No further informations available.

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

**Notes for the doctor**

No further informations available.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Water  
alcohol resistant foam  
ABC-powder  
Gaseous fire-extinguishing substance  
Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

none

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

**Hazardous combustion products**

In case of fire formation of dangerous gases possible.

In the event of fire the following can be released:

Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide  
Sulphur dioxide (SO<sub>2</sub>)

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

Do not inhale explosion and combustion gases.

**Additional information**

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

Do not inhale explosion and combustion gases.

**SECTION 6: Accidental release measures**

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

**For non-emergency personnel**

Use personal protection equipment.  
Special danger of slipping by leaking/spilling product.

**For emergency responders**

Personal protection equipment  
Use personal protection.  
Forms slippery surfaces with water.  
Special danger of slipping by leaking/spilling product.

**6.2 Environmental precautions**

Do not allow to enter into surface water or drains.

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

**For containment**

Suitable material for taking up:  
Sand  
Sawdust  
Universal binder  
Kieselguhr  
Flush away residues with water.  
After taking up the material dispose according to regulation.

**6.4 Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Protective measures**

Take the usual precautions when handling with chemicals.  
Avoid contact with eyes and skin.  
The product is not combustible.

**Advices on general occupational hygiene**

Make available sufficient washing facilities

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

**Requirements for storage rooms and vessels**

Keep/Store only in original container.  
Keep container tightly closed.

**Storage class**

12 non-combustible liquids that cannot be assigned to any of the above storage classes

**Further information on storage conditions**

Keep locked up and out of reach of children.  
Protect from heat and direct solar radiation.  
Keep in a cool, well-ventilated place.  
Do not keep at temperatures below 5°C.  
Do not keep at temperatures above 30°C.  
Storage time: 5 years.

**7.3 Specific end use(s)**

**Recommendation**

no further

**\* SECTION 8: Exposure controls/personal protection**

**\* 8.1 Control parameters**

**Occupational exposure limit values**

| CAS No.    | EC No.    | Substance name                   | occupational exposure limit value   |
|------------|-----------|----------------------------------|---|
| 34590-94-8 | 252-104-2 | (2-Methoxymethylethoxy)-propanol | 50 [ml/m <sup>3</sup> (ppm)]<br>308 [mg/m <sup>3</sup> ]<br>skin resorptive<br>2000/39/EC |
| 34590-94-8 | 252-104-2 | (2-Methoxymethylethoxy)propanol  | 50 [ml/m <sup>3</sup> (ppm)]<br>308 [mg/m <sup>3</sup> ]<br>(IE)                          |
| 34590-94-8 | 252-104-2 | (2-Methoxymethylethoxy)propanol  | 50 [ml/m <sup>3</sup> (ppm)]<br>308 [mg/m <sup>3</sup> ]<br>(UK)                          |

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\* **DNEL worker**

| CAS No. | Substance name   | DNEL value          | DNEL type                       | Remark               |
|---------|--|---------------------|---------------------------------|----------------------|
|         | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid | 6 mg/m <sup>3</sup> | long-term inhalative (systemic) | Assessment factor 25 |

\* **PNEC**

| CAS No.    | Substance name   | PNEC Value | PNEC type                    | Remark               |
|------------|--|------------|------------------------------|----------------------|
|            | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid | 0.268 mg/L | aquatic, freshwater          | Assessment factor 1  |
|            | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid | 5.6 mg/L   | sewage treatment plant (STP) | Assessment factor 10 |
| 68891-38-3 | Alcohols, C12-14, ethoxylated, sulfates, sodium salts  | 0.24 mg/L  | aquatic, freshwater          | Assessment factor 5  |
| 68891-38-3 | Alcohols, C12-14, ethoxylated, sulfates, sodium salts  | 10000 mg/L | sewage treatment plant (STP) | Assessment factor 1  |

**8.2 Exposure controls**

**Personal protection equipment**

**Eye/face protection**  
 tightly fitting goggles

**Environmental exposure controls**

**Technical measures to prevent exposure**  
 Avoid penetration into the subsoil/soil.  
 Do not discharge into surface waters.

**SECTION 9: Physical and chemical properties**

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

**Physical state**  
 liquid

**Colour**  
 blue

**Odour**  
 mild

**Safety relevant basis data**

|  | Value                     | Method | Source, Remark  |
|--|---------------------------|--------|---|
| Odour threshold:   |                           |        | (2-methoxymethylethoxy)-propanol: 210 - 600mg/m <sup>3</sup> (34 - 97 ppm). |
| Melting point/freezing point                             | solidifying range < -5 °C |        |   |
| Boiling point or initial boiling point and boiling range | > 100 °C                  |        |   |
| flammability   | solid                     |        | not applicable  |
| flammability   | gaseous                   |        | not applicable  |

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|   | Value                              | Method | Source, Remark  |
|---|------------------------------------|--------|---|
| Lower and upper explosion limit                   | Upper explosion limit<br>14 Vol-%  |        | Value of (2-methoxymethylethoxy)-propanol.                      |
| Lower and upper explosion limit                   | Lower explosion limit<br>1.1 Vol-% |        | Value of (2-methoxymethylethoxy)-propanol.                      |
| Flash point                                       |                                    |        | No flash point up to 100 °C.                                    |
| Auto-ignition temperature                         | 205 °C                             |        | Value of (2-methoxymethylethoxy)-propanol.                      |
| Decomposition temperature                         | ≥ 100 °C                           |        |   |
| pH  | in delivery state<br>9 (20°C)      |        |   |
| Viscosity   | dynamic<br>53.4 mPa*s (20°C)       |        |   |
| Solubility(ies)                                   | Water solubility                   |        | miscible  |
| Partition coefficient n-octanol/water (log value) | 0.3 (23°C)                         |        | Value of Alcohols, C12-14, ethoxylated, sulfates, sodium salts. |
| Vapour pressure                                   | 23- 24 hPa (20°C)                  |        |   |
| Density and/or relative density                   | 1.07 g/cm <sup>3</sup>             |        |   |
| Relative vapour density                           | 5.12                               |        | Value of (2-methoxymethylethoxy)-propanol.                      |
| particle characteristics                          |                                    |        | not applicable (liquid).  |

**9.2 Other information**

**Information with regard to physical hazard classes**

**Explosives**

**Assessment/classification**

The mixture does not contain any explosive substances (CLP I 2.1.4.3 a).  
 CLP I 2.1.4.3 a: The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with explosive properties.

**flammable gases**

**Assessment/classification**

not applicable (liquid).

**Aerosols**

**Assessment/classification**

not relevant - no aerosol.  
 The classification criteria for this hazard class are not met by definition.

**Oxidising gas**

**Assessment/classification**

not applicable (liquid).

**Gases under pressure**

**Assessment/classification**

not applicable (liquid - no dissolved gas).

**flammable liquids**

**Assessment/classification**

not flammable, not combustible (No flash point below 100°C).

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**flammable solids**

**Assessment/classification**  
not applicable (liquid).

**Self-reactive substances and mixtures**

**Assessment/classification**  
The mixture does not contain any self-reactive substances (CLP I 2.8.4.2 a).  
CLP I 2.8.4.2 a: There are no chemical groups present in the molecule associated with explosive or self reactive properties.

**Pyrophoric liquids**

**Assessment/classification**  
The mixture does not contain any pyrophoric substances - not spontaneously flammable (CLP I 2.9.4.1).  
CLP I 2.9.4.1: The classification procedure for pyrophoric liquids need not be applied when experience in manufacture or handling shows that the substance or mixture does not ignite spontaneously on coming into contact with air at normal temperatures (i.e. the substance is known to be stable at room temperature for prolonged periods of time (days)).

**Pyrophoric solids**

**Assessment/classification**  
not applicable (liquid).

**self-heating substances and mixtures**

**Assessment/classification**  
The mixture does not contain any self-heating substances.

**Substances or mixtures which, in contact with water, emit flammable gases**

**Assessment/classification**  
not relevant - in contact with water releases no flammable gases (CLP I 2.12.4.1).  
CLP I 2.12.4.1: The classification procedure for this class need not be applied if: (a) the chemical structure of the substance or mixture does not contain metals or metalloids; or (b) experience in production or handling shows that the substance or mixture does not react with water, e.g. the substance is manufactured with water or washed with water; or (c) the substance or mixture is known to be soluble in water to form a stable mixture.

**Oxidising liquids**

**Assessment/classification**  
The mixture does not contain any oxidising substances.

**Oxidising solids**

**Assessment/classification**  
not applicable (liquid).

**Organic peroxides**

**Assessment/classification**  
The mixture does not contain any organic peroxides.

**Corrosive to metals**

**Safety characteristics**

| Value | Method, Result | Source, Remark   |
|-------|----------------|--|
|       |                | The mixture does not contain any substances corrosive to metals. |

**Assessment/classification**  
Based on available data, the classification criteria are not met.

**Desensitised explosives**

**Assessment/classification**  
The mixture does not contain any desensitised explosive substances.

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**Other safety characteristics**

|                      | Value   | Method | Source, Remark   |
|----------------------|---------|--------|--|
| Evaporation rate     |         |        | Water: 0.36 (ASTM D3539).  |
| Evaporation rate     |         |        | (2-methoxymethylethoxy)-propanol: ~0.02 (ASTM D3539) / ~400 (DIN 53170). |
| Solvent content      | 5- 15 % |        |  |
| Explosive properties |         |        | none   |
| Oxidising properties |         |        | none   |

**Other information**

No further relevant informations available.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No hazardous reactions known if used as directed.

**10.2 Chemical stability**

Stable at ambient temperature.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known.

**10.4 Conditions to avoid**

Heat and direct solar radiation.

**10.5 Incompatible materials**

No hazardous reactions known.

**10.6 Hazardous decomposition products**

No decomposition if used as directed.

**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

**Animal data**

|                           | Effective dose                                  | Method, Evaluation           | Source, Remark |
|---------------------------|---|------------------------------|----------------|
| Acute oral toxicity       | > 5000 mg/kg                                    | ATE: Acute Toxicity Estimate |                |
| Acute dermal toxicity     | > 5000 mg/kg                                    | ATE: Acute Toxicity Estimate |                |
| Acute inhalation toxicity | Acute inhalation toxicity (vapour)<br>> 50 mg/L | ATE: Acute Toxicity Estimate |                |

**Assessment/classification**

Based on available data, the classification criteria are not met.

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**Skin corrosion/irritation**

**Animal data**

| Result / Evaluation | Method  | Source, Remark |
|---------------------|---|----------------|
| non-irritant.       | Bridging principle<br>"Substantially similar mixtures". |                |

**Serious eye damage/irritation**

**Animal data**

| Result / Evaluation | Method  | Source, Remark |
|---------------------|---|----------------|
| slightly irritant   | Bridging principle<br>"Substantially similar mixtures". |                |

**Sensitisation to the respiratory tract**

**Assessment/classification**

Based on available data, the classification criteria are not met.

**Skin sensitisation**

**Animal data**

| Result / Evaluation | Dose / Concentration | Method              | Source, Remark |
|---------------------|----------------------|---------------------|----------------|
| not sensitising.    |                      | Calculation method. |                |

**Germ cell mutagenicity**

**Assessment/classification**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Assessment/classification**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

**Assessment/classification**

Based on available data, the classification criteria are not met.

**Overall Assessment on CMR properties**

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.

**STOT-single exposure**

**STOT SE 1 and 2**

**Assessment/classification**

The mixture is not classified as specific target organ toxicant (single exposure).  
Based on available data, the classification criteria are not met.

**STOT SE 3**

**Irritation to respiratory tract**

**Assessment/classification**

Based on available data, the classification criteria are not met.

**Narcotic effects**

**Assessment/classification**

Based on available data, the classification criteria are not met.

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**STOT-repeated exposure**

**Assessment/classification**

The mixture is not classified as specific target organ toxicant (repeated exposure).  
 Based on available data, the classification criteria are not met.

**Aspiration hazard**

**Assessment/classification**

The mixture is not classified as aspiration hazardous.  
 Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

**Symptoms related to the physical, chemical and toxicological characteristics**

|                                 | Effective dose | Method,Evaluation | Source, Remark   |
|---------------------------------|----------------|-------------------|--|
| Endocrine disrupting properties |                |                   | The product does not contain any substances with endocrine-disrupting properties >=0.1%. |

**Other information**

Has degreasing effect on the skin.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

|                                   | Effective dose   | Method,Evaluation   | Source, Remark |
|-----------------------------------|--|---|----------------|
| Acute (short-term) fish toxicity  | LC50: 21.2 mg/L  | calculated.   |                |
|                                   | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid<br>LC50: 5.5 mg/L Species Cyprinus carpio (Common Carp)<br>Test duration 96 h<br>CAS No.68891-38-3          | Regulation (EC) No. 440/2008, Annex C.1<br><br><br><br><br><br>OECD 203 |                |
| Chronic (long-term) fish toxicity | LC50: 7.1 mg/L Species Danio rerio (zebrafish)<br>Test duration 96 h   |   |                |
|                                   | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid<br>NOEC >0.1- 1 mg/L Species Oncorhynchus mykiss (Rainbow trout)<br>Test duration 72 d<br>CAS No.68891-38-3 | OECD 204  |                |
|                                   | NOEC 0.14 mg/L Species Oncorhynchus mykiss (Rainbow trout)<br>Test duration 28 d   |   |                |

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|   | Effective dose  | Method, Evaluation | Source, Remark |
|---|---|--------------------|----------------|
| Acute (short-term) toxicity to crustacea                        | EC50 41.4 mg/L  | calculated.        |                |
|   | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid<br>EC50 8.8 mg/L Species Daphnia magna (Big water flea)<br>Test duration 48 h    | OECD 202           |                |
| Chronic (long-term) toxicity to aquatic invertebrate            | CAS No.68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts<br>EC50 7.2 mg/L Species Daphnia magna (Big water flea)<br>Test duration 48 h   | OECD 202           |                |
|   | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid<br>NOEC >1- 10 mg/L Species Daphnia magna (Big water flea)<br>Test duration 21 d | OECD 211           |                |
| Acute (short-term) toxicity to algae and cyanobacteria          | CAS No.68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts<br>NOEC 0.27 mg/L Species Daphnia magna (Big water flea)<br>Test duration 21 d  | OECD 211           |                |
|   | EC50 111 mg/L   | calculated.        |                |
| Chronic (long-term) toxicity to aquatic algae and cyanobacteria | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid<br>EC50 25 mg/L Species Scenedesmus subspicatus<br>Test duration 72 h            | OECD 201           |                |
|   | CAS No.68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts<br>EC50 27 mg/L Species Scenedesmus subspicatus<br>Test duration 72 h   | OECD 201           |                |
| Chronic (long-term) toxicity to aquatic algae and cyanobacteria | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid<br>EC10: 1.5 mg/L Species Desmodesmus subspicatus<br>Test duration 72 h          | OECD 201           |                |

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|  | Effective dose   | Method, Evaluation | Source, Remark |
|--|--|--------------------|----------------|
|  | CAS No. 68891-38-3<br>Alcohols, C12-14, ethoxylated, sulfates, sodium salts<br>NOEC: 0.93 mg/L Species<br>Desmodemus subspicatus<br>Test duration 72 h | OECD 201           |                |
| Toxicity to other aquatic plants/organisms | not determined   |                    |                |
| Toxicity to microorganisms                 | not determined   |                    |                |

**Assessment/classification**

Harmful to aquatic life.

**12.2 Persistence and degradability**

|                | Value  | Method                                     | Source, Remark   |
|----------------|--|--|--|
| Biodegradation | Degradation rate > 90 %                          | calculated.                                | DOC reduction<br>Readily biodegradable (according to OECD criteria).   |
| Biodegradation | Degradation rate > 70 %<br>Test duration 28 d    | OECD 301A/ ISO 7827/<br>EEC 92/69/V, C.4-A | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid |
| Biodegradation | Degradation rate > 60 %<br>Test duration 28 d    | OECD 301B/ ISO 9439/<br>EEC 92/69/V, C.4-C | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid |
| Biodegradation | Degradation rate > 70 %<br>Test duration 28 d    | OECD 301A/ ISO 7827/<br>EEC 92/69/V, C.4-A | CAS No. 68891-38-3<br>Alcohols, C12-14, ethoxylated, sulfates, sodium salts  |
| Biodegradation | Degradation rate > 60 %<br>Test duration 28 d    | OECD 301B/ ISO 9439/<br>EEC 92/69/V, C.4-C | CAS No. 68891-38-3<br>Alcohols, C12-14, ethoxylated, sulfates, sodium salts  |
| Biodegradation | Degradation rate > 70 %<br>Test duration 28 d    | OECD 301E/ EEC 92/69/V,<br>C.4-B           | CAS No. 34590-94-8 (2-methoxymethylethoxy)-propanol  |
| Biodegradation | Degradation rate 90- 100 %<br>Test duration 28 d | OECD 302B/ ISO 9888/<br>EEC 92/69/V, C.9   | CAS No. 34590-94-8 (2-methoxymethylethoxy)-propanol  |
| Biodegradation | Degradation rate > 60 %<br>Test duration 28 d    | OECD 301B/ ISO 9439/<br>EEC 92/69/V, C.4-C | CAS No. 26027-37-2 Oleic acid monoethanolamide, ethoxylated  |

**12.3 Bioaccumulative potential**

**Assessment/classification**

Oleic acid monoethanolamide, ethoxylated: not available.  
 Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid: Bioaccumulation is improbable.  
 (2-methoxymethylethoxy)-propanol: Accumulation in organisms is not expected (log Pow: 0.004).  
 Alcohols, C12-14, ethoxylated, sulfates, sodium salts: Bioaccumulation is improbable.

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**12.4 Mobility in soil**

**Assessment/classification**

Oleic acid monoethanolamide, ethoxylated: not available.  
 Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid: Adsorption on soil is not expected.  
 (2-methoxymethylethoxy)-propanol: Dissolves in water. Highly mobile in soil.  
 Alcohols, C12-14, ethoxylated, sulfates, sodium salts: Dissolves in water. Highly mobile in soil (Koc: 2.2).

**12.5 Results of PBT and vPvB assessment**

The product does not contain any PBT-/vPvB-substances according to the recipe.

**12.6 Endocrine disrupting properties**

|                                 | Effective dose | Method,Evaluation | Source, Remark   |
|---------------------------------|----------------|-------------------|--|
| Endocrine disrupting properties |                |                   | The product does not contain any substances with endocrine-disrupting properties >=0.1%. |

**12.7 Other adverse effects**

|                                  | Value | Method | Source, Remark  |
|----------------------------------|-------|--------|---|
| Ozone depletion potential (ODP): |       |        | Based on available data, the classification criteria are not met. |

**Additional ecotoxicological information**

|                              | Value              | Method      | Source, Remark |
|------------------------------|--------------------|-------------|----------------|
| Chemical oxygen demand (COD) | approx. 567 mgO2/g | calculated. |                |

**Additional information**

The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents.  
 Acute aquatic environmental hazards: Aquatic Acute 3 H402: Harmful to aquatic life.  
 The mixture is not classified as chronic hazardous to the aquatic environment.  
 Do not allow uncontrolled discharge of product into the environment.  
 No further relevant informations available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Waste codes/waste designations according to EWC/AVV**

| Waste code product | Waste name  |
|--------------------|---|
| 200130             | detergents other than those mentioned in 20 01 29 |

**Appropriate disposal / Product**

Do not dispose with household waste.  
 Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations.

**Appropriate disposal / Package**

Non-contaminated packages may be recycled.

**SECTION 14: Transport information**

|                                 | Land transport (ADR/RID) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---------------------------------|--------------------------|----------------------|------------------------------------|
| 14.1 UN number or ID number     | -                        | -                    | -                                  |
| 14.2 UN proper shipping name    | -                        | -                    | -                                  |
| 14.3 Transport hazard class(es) | -                        | -                    | -                                  |
| 14.4 Packing group              | -                        | -                    | -                                  |

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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|  | Land transport (ADR/RID) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|--|--------------------------|----------------------|------------------------------------|
|--|--------------------------|----------------------|------------------------------------|

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**14.5 Environmental hazards**

- - -

**14.6 Special precautions for user**

none

**14.7 Maritime transport in bulk according to IMO instruments**

not relevant

**Land transport (ADR/RID)**

**Remark**

Not classified for this transport carrier.

**Sea transport (IMDG)**

**Remark**

No hazardous material as defined by the prescriptions.

**Air transport (ICAO-TI / IATA-DGR)**

**Remark**

No hazardous material as defined by the prescriptions.

**SECTION 15: Regulatory information**

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

**EU legislation**

**Authorisations**

not relevant

**Restrictions on use**

not relevant

**Other regulations (EU)**

**To follow:**

Regulation (EC) No. 648/2004 (Detergents regulation)  
Directive 2012/18/EU, Annex I: not mentioned.

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**

VOC content, delivery state 6 %

**15.2 Chemical Safety Assessment**

**National regulations**

For this mixture a chemical safety assessment were not carried out.

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**SECTION 16: Other information**

**Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ASTM: American Society for Testing and Materials

ATE: Acute Toxicity Estimate

AVV: Waste Shipment Ordinance (DE)

DGR: Dangerous Goods Regulations (IATA)

DNEL: derived no-effect level

DOC: Dissolved Organic Carbon

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization

OECD: Organisation for Economic Cooperation and Development

PBT: persistent and bioaccumulative and toxic

PNEC: Predicted No Effect Concentration

RID: Dangerous goods regulations for transport by rail

SCL: Specific concentration limit

TI: Technical Instruction

VOC: Volatile organic compounds

vPvB: very persistent, very bioaccumulative

**Key literature references and sources for data**

European Chemicals Agency, <http://echa.europa.eu/>.

Informations from our suppliers.

**Additional information**

National and local regulations concerning chemicals shall be observed.

These data are given according to our actual knowledge about this product. This data sheet does not correspond to an assurance by virtue of a contract for properties of the product.

**Relevant H- and EUH-phrases (Number and full text)**

H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

**Indication of changes**

\* Data changed compared with the previous version