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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 17.02.2014 / 0002
Replaces revision of / Version: 02.12.2013 / 0001
Valid from: 17.02.2014
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Wollmeisenbad

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

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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:

Detergent

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

Rohrspatz & Wollmeise GmbH Birkengrund 29, DE-85276 Pfaffenhofen
Telephone: +498441/8798963, Fax: ---
info@rohrspatzundwollmeise.de

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

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

Tel.: +498441/8798963 Geschäftszeiten: 8:00 - 16:00 Uhr

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

The mixture is not classified as dangerous in the terms of the directive 1999/45/EC.

2.2 Label elements

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

Not applicable

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.

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

REGULATION (EC) No 648/2004

5 % or over but less than 15 %
anionic surfactants
less than 5 %

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amphoteric surfactants
 non-ionic surfactants

perfumes
 BUTYLPHENYL METHYLPROPIONAL
 CITRONELLOL
 HEXYL CINNAMAL
 HYDROXYCITRONELLAL
 BENZOIC ACID

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

| Alcohols, C12-14(even numbered), ethoxylated <2.5 EO, sulfates, sodium salts | Substance with specific conc. limit(s) acc. to REACH-registration |
|--|---|
| Registration number (REACH) | -- |
| Index | --- |
| EINECS, ELINCS, NLP | 500-234-8 (NLP) |
| CAS | CAS 68891-38-3 |
| content % | 1-<5 |
| Classification according to Directive 67/548/EEC | Irritant, Xi, R38 Irritant, Xi, R41 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Skin Irrit. 2, H315 Eye Dam. 1, H318 |

| Ethanol | |
|---|--|
| Registration number (REACH) | -- |
| Index | 603-002-00-5 |
| EINECS, ELINCS, NLP | 200-578-6 |
| CAS | CAS 64-17-5 |
| content % | 1-<5 |
| Classification according to Directive 67/548/EEC | Highly flammable, F, R11 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 2, H225 Eye Irrit. 2, H319 |

| Sulfonic acids, C14-17-sec-alkane, sodium salts | Substance with specific conc. limit(s) acc. to REACH-registration |
|---|---|
| Registration number (REACH) | -- |
| Index | --- |
| EINECS, ELINCS, NLP | 307-055-2 |
| CAS | CAS 97489-15-1 |
| content % | 1-<5 |
| Classification according to Directive 67/548/EEC | Harmful, Xn, R22 Irritant, Xi, R38 Irritant, Xi, R41 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 |

| N,N-bis(2-hydroxyethyl)oleamide | |
|--|-----------------------|
| Registration number (REACH) | 01-2119968565-22-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP | 202-281-7 |
| CAS | CAS 93-83-4 |
| content % | 1-<5 |
| Classification according to Directive 67/548/EEC | Irritant, Xi, R36/38 |

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

Skin Irrit. 2, H315
Eye Irrit. 2, H319
Aquatic Chronic 2, H411

For the text of the R-phrases / 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 3.1/3.2 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.
If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.
Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."
Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

SECTION 4: First aid measures**4.1 Description of first aid measures****Inhalation**

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.

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.

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

n.c.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher

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 nitrogen

Oxides of sulphur

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

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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.

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.
 Avoid long lasting or intensive contact with 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

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

| Chemical Name | Ethanol | Content %:1-<5 | |
|---|------------------------|----------------|--|
| WEL-TWA: 1000 ppm (1920 mg/m ³) | WEL-STEL: --- | --- | |
| BMGV: --- | Other information: --- | | |
| Chemical Name | Propane-1,2-diol | Content %: | |
| WEL-TWA: 150 ppm (474 mg/m ³) (total, vapour and particulates), 10 mg/m ³ (particulates) | WEL-STEL: --- | --- | |
| BMGV: --- | Other information: --- | | |
| Chemical Name | Glycerine | Content %: | |
| WEL-TWA: 10 mg/m ³ (mist) | WEL-STEL: --- | --- | |
| BMGV: --- | Other information: --- | | |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | 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.

| Alcohols, C12-14(even numbered), ethoxylated <2.5 EO, sulfates, sodium salts | | | | | | |
|--|--|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| 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 ³ | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 1650 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 15 | mg/kg bw/day | |
| | Environment - freshwater | | PNEC | 0,24 | mg/l | |
| | Environment - marine | | PNEC | 0,024 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,071 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 5,45 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,545 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,946 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 10000 | mg/l | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 52 | mg/m ³ | |

| Ethanol | | | | | | |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 1900 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 950 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 343 | mg/kg bw/d | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 950 | mg/m ³ | |
| Consumer | Human - dermal | Short term, local effects | DNEL | 950 | mg/m ³ | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 114 | mg/m ³ | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 87 | mg/kg | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 206 | mg/kg bw/d | |
| | Environment - freshwater | | PNEC | 0,96 | mg/l | |
| | Environment - marine | | PNEC | 0,79 | mg/l | |

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| | | | | | | |
|--|--|--|------|------|------------------|--|
| | Environment - water, sporadic (intermittent) release | | PNEC | 2,75 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 580 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 3,6 | mg/kg dry weight | |
| | Environment - soil | | PNEC | 0,63 | mg/kg dry weight | |
| | Environment - oral (animal feed) | | PNEC | 0,72 | mg/kg feed | |
| | Environment - sediment, marine | | PNEC | 2,9 | mg/kg dry weight | |

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

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|------------------------------|------------|-------|--------------------|------|
| Workers / employees | Human - dermal | Short term, local effects | DNEL | 2,8 | mg/cm ² | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 5 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 35 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, local effects | DNEL | 2,8 | mg/cm ² | |
| Consumer | Human - dermal | Short term, local effects | DNEL | 2,8 | mg/cm ² | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 3,57 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 12,4 | mg/m ³ | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 7,1 | mg/kg bw/day | |
| Consumer | Human - dermal | Long term, local effects | DNEL | 2,8 | mg/cm ² | |
| | 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 dry weight | |
| | Environment - sediment, marine | | PNEC | 0,94 | mg/kg dry weight | |
| | Environment - soil | | PNEC | 9,4 | mg/kg dry weight | |
| | Environment - sewage treatment plant | | PNEC | 600 | mg/l | |
| | Environment - oral (animal feed) | | PNEC | 53,3 | mg/kg feed | |

N,N-bis(2-hydroxyethyl)oleamide

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 73,44 | mg/m ³ | |

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| | | | | | | |
|---------------------|--|-----------------------------|------|---------|--------------------|--|
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 4,16 | mg/kg | |
| Workers / employees | Human - dermal | Long term, local effects | DNEL | 0,0312 | mg/cm ² | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 21,73 | mg/m ³ | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 2,5 | mg/kg | |
| Consumer | Human - dermal | Long term, local effects | DNEL | 0,01873 | mg/cm ² | |
| Consumer | Human - oral | Short term, local effects | DNEL | 6,25 | mg/kg | |
| | Environment - freshwater | | PNEC | 0,007 | mg/l | |
| | Environment - marine | | PNEC | 0,0007 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,2663 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,02663 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 830 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,032 | mg/l | |
| | Environment - soil | | PNEC | 0,1262 | mg/kg | |

| Propane-1,2-diol | | | | | | |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 168 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 10 | mg/m ³ | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 213 | mg/kg | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 50 | mg/m ³ | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 85 | mg/kg | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 10 | mg/m ³ | |
| | Environment - freshwater | | PNEC | 260 | mg/l | |
| | Environment - marine | | PNEC | 26 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 2000 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 572 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 57,2 | mg/kg | |
| | Environment - soil | | PNEC | 50 | mg/kg | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 183 | mg/l | |

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.

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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).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

If applicable

Safety gloves made of butyl (EN 374)

Protective nitrile gloves (EN 374)

Protective Neoprene® / polychloroprene gloves (EN 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

> 120

The breakthrough times determined in accordance with EN 374 Part III 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.

Gas mask filter A (EN 14387), code colour brown

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, Light green |
| Odour: | Slightly perfumed |
| Odour threshold: | Not determined |
| pH-value: | ~6,5 |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | Not determined |
| Flash point: | >60 °C |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | Not determined |

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| | |
|--|---|
| Lower explosive limit: | Not determined |
| Upper explosive limit: | Not determined |
| Vapour pressure: | Not determined |
| Vapour density (air = 1): | Not determined |
| Density: | ~1,03 g/ml (20°C) |
| Bulk density: | n.a. |
| Solubility(ies): | Not determined |
| Water solubility: | Mixable |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Viscosity: | Not determined |
| Explosive properties: | Product is not explosive. When using: development of explosive vapour/air mixture possible. |
| Oxidising properties: | No |
| 9.2 Other information | |
| Miscibility: | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity: | Not determined |
| Surface tension: | Not determined |
| Solvents content: | Not determined |

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

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: | | | | | | n.d.a. |
| 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. |

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| | | | | | | |
|---|--|--|--|--|--|--|
| 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. |
| Respiratory tract irritation: | | | | | | n.d.a. |
| Repeated dose toxicity: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |
| Other information: | | | | | | Classification according to calculation procedure. |

Alcohols, C12-14(even numbered), ethoxylated <2.5 EO, sulfates, sodium salts

| 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 | 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. |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitizing |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity (in vitro): | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Reproductive toxicity: | NOAEL | >300 | mg/kg | Rat | OECD 416 (Two-generation Reproduction Toxicity Study) | Negative, References |
| Aspiration hazard: | | | | | | n.a. |
| 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) | Destination organ(s): liver, References |
| Teratogenicity: | NOAEL | >1000 | mg/kg | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Negative, References |

Ethanol

| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|---------|---------|----------|--|--------------|
| Acute toxicity, by oral route: | LD50 | 10470 | 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 | 117-125 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |

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| | | | | | | |
|---|-------|-------|------------|------------------------|--|---|
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Mild irritant |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Not sensitizing |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Carcinogenicity: | NOAEL | >3000 | mg/kg | Rat | OECD 451 (Carcinogenicity Studies) | 24 mon |
| Reproductive toxicity: | NOAEL | 5200 | mg/kg bw/d | Rat | | |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEL | 1730 | mg/kg/d | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Female |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAL | >20 | mg/l | Rat | OECD 403 (Acute Inhalation Toxicity) | Male |
| Aspiration hazard: | | | | Human being | | No indications of such an effect. |
| Symptoms: | | | | | | respiratory distress, dizziness, unconsciousness, drop in blood pressure, vomiting, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea |
| Teratogenicity: | | | | | | Negative |
| Experiences in humans: | | | | | | Excessive alcohol consumption during pregnancy induces the foetus alcohol syndrome (reduced weight at birth, physical and mental disorders). There is no sign that this syndrome is also caused by dermal or inhalative absorption. |

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| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|--------|------------|------------|--|-----------------------------------|
| Acute toxicity, by oral route: | LD100 | 2000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by oral route: | ATE | 1200,1 | mg/kg | | | calculated value |
| Acute toxicity, by oral route: | LD0 | 500 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Mouse | | |
| 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. |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitising |
| Germ cell mutagenicity: | | | | | | No indications of such an effect. |
| Carcinogenicity: | | | | | | No indications of such an effect. |
| Reproductive toxicity: | | | | | | No indications of such an effect. |
| Aspiration hazard: | | | | | | No |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 200 | mg/kg bw/d | Rat | | |

N,N-bis(2-hydroxyethyl)oleamide

| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|-------|----------|--|----------------------|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | | Analogous conclusion |
| Skin corrosion/irritation: | | | | | OECD 404 (Acute Dermal Irritation/Corrosion) | Irritant |
| Serious eye damage/irritation: | | | | | OECD 405 (Acute Eye Irritation/Corrosion) | Irritant |
| Germ cell mutagenicity (in vitro): | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Aspiration hazard: | | | | | | Not to be expected |

Propane-1,2-diol

| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|---------|---------|-------------|---|-----------------|
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC50 | 317,042 | mg/l/2h | Rabbit | | |
| Skin corrosion/irritation: | | | | Rabbit | (Draize-Test) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Human being | | Not sensitising |
| Respiratory or skin sensitisation: | | | | Guinea pig | | Not sensitising |

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| | | | | | | | |
|------------------------------------|--|--|--|--|--|--|---|
| Bioaccumulative potential: | | | | | | | n.d.a. |
| Mobility in soil: | | | | | | | n.d.a. |
| Results of PBT and vPvB assessment | | | | | | | n.d.a. |
| Other adverse effects: | | | | | | | n.d.a. |
| Other information: | | | | | | | 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. |

| Alcohols, C12-14(even numbered), ethoxylated <2.5 EO, sulfates, sodium salts | | | | | | | |
|--|----------|------|-----------|------|-------------------------|--|---|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LC50 | 96h | 7,1 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| Toxicity to daphnia: | EC50 | 48h | 7,4 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| Toxicity to algae: | EC50 | 72h | >10 - 100 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| Persistence and degradability: | | 28d | 95 | % | | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | |
| Persistence and degradability: | | 28d | >70 | % | | OECD 301 A (Ready Biodegradability - DOC Die-Away Test) | Readily biodegradable |
| Bioaccumulative potential: | Log Pow | | 0,3 | | | | Bioaccumulation is unlikely (LogPow < 1). |
| Mobility in soil: | Koc | | 191 | | | | calculated value |
| Results of PBT and vPvB assessment | | | | | | | No PBT substance |
| Toxicity to bacteria: | EC50 | 16h | >10 | g/l | | DIN 38412 T.8 | |

| Ethanol | | | | | | | |
|-------------------|----------|------|-------|------|---------------------|--------------------------------------|-------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LC50 | 96h | 13000 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |

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|------------------------------------|-----------|-----|------------|------|---------------------------|--|---|
| Toxicity to daphnia: | LC50 | 48h | 12340 | mg/l | Daphnia magna | | |
| Toxicity to algae: | EC50 | 48h | 12900 | mg/l | Selenastrum capricornutum | OECD 201 (Alga, Growth Inhibition Test) | |
| Toxicity to algae: | EC50 | 72h | 275 | mg/l | Chlorella vulgaris | OECD 201 (Alga, Growth Inhibition Test) | |
| Persistence and degradability: | | | 97 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | |
| Bioaccumulative potential: | BCF | | 0,66 - 3,2 | | | | |
| Bioaccumulative potential: | Log Pow | | -0,32 | | | | Bioaccumulation is unlikely (LogPow < 1). |
| Mobility in soil: | H (Henry) | | 0,000138 | | | | |
| Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Other information: | BOD5 | | 1 | g/g | | | |
| Other information: | COD | | 1,9 | g/g | | | |
| Water solubility: | | | | | | | Mixable |

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

| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|------------------------------------|------------|------|-------|------|-------------------------|--|--|
| Toxicity to fish: | LC50 | 96h | 1 -10 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| Toxicity to daphnia: | EC50 | 48h | 9,81 | mg/l | Daphnia magna | | |
| Toxicity to algae: | EC50 | 72h | >61 | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| Persistence and degradability: | | 28d | 78 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | |
| Bioaccumulative potential: | | | | | | | Not accepted due to the log Pow - value. |
| Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | NOEC/NO EL | 16h | 600 | mg/l | Pseudomonas putida | DIN 38412 T.8 | |

N,N-bis(2-hydroxyethyl)oleamide

| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------|------------|------|-----------|------|---------------------|---|----------------------|
| Toxicity to fish: | NOEC/NO EL | | >0,1-1 | mg/l | Oncorhynchus mykiss | | Analogous conclusion |
| Toxicity to daphnia: | NOEC/NO EL | | >0,01-0,1 | mg/l | Daphnia magna | | Analogous conclusion |
| Persistence and degradability: | DOC | | >70 | % | | OECD 301 A (Ready Biodegradability - DOC Die-Away Test) | |
| Persistence and degradability: | BOD/COD | | >60 | % | | OECD 301 A (Ready Biodegradability - DOC Die-Away Test) | |

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|-----------------------|-----|--|------|------|--|---|--|
| Toxicity to bacteria: | EC0 | | >100 | mg/l | | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
|-----------------------|-----|--|------|------|--|---|--|

| Propane-1,2-diol | | | | | | | |
|------------------------------------|----------|-------|-------|------|---------------------------|---|---------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LC50 | 96h | >1000 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |
| Toxicity to daphnia: | EC50 | 48h | >1000 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| Toxicity to algae: | EC50 | 72h | >1000 | mg/l | Selenastrum capricornutum | OECD 201 (Alga, Growth Inhibition Test) | |
| Persistence and degradability: | | 28d | 87-92 | % | | OECD 301 C (Ready Biodegradability - Modified MITI Test (I)) | |
| Persistence and degradability: | | 28d | 81 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | |
| Bioaccumulative potential: | BCF | | <100 | | | | |
| Results of PBT and vPvB assessment | | | | | | | n.a. |
| Toxicity to bacteria: | EC50 | 3h | >1000 | mg/l | activated sludge | | |
| Toxicity to bacteria: | IC50 | 30min | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other information: | COD | | 1,585 | mg/g | | | |
| Water solubility: | | | | | | | Mixable |

| Glycerine | | | | | | | |
|----------------------|----------|------|------------|------|-------------------|-------------|------------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LC50 | 96h | >1000 0 | mg/l | Leuciscus idus | | |
| Toxicity to fish: | LC50 | 96h | > 5000 | mg/l | Carassius auratus | | |
| Toxicity to fish: | LC50 | 24h | >5000 | mg/l | Carassius auratus | | References |
| Toxicity to daphnia: | EC5 | 72h | 3200 | mg/l | | | References |
| Toxicity to daphnia: | EC50 | 24h | >1000 0 | mg/l | Daphnia magna | | |

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| | | | | | | | |
|------------------------------------|---------|-----|------------|------|---------------------------|--|------------|
| Toxicity to daphnia: | EC50 | 24h | >1000 0 | mg/l | Daphnia magna | IUCLID Chem. Data Sheet (ESIS) | |
| Toxicity to algae: | IC5 | 7d | >1000 0 | mg/l | Selenastrum capricornutum | | References |
| Toxicity to algae: | IC5 | 7d | >1000 0 | mg/l | Scenedesmus quadricauda | | |
| Persistence and degradability: | | 14d | 63 | % | | OECD 301 C (Ready Biodegradability - Modified MITI Test (I)) | |
| Persistence and degradability: | | 14d | 63 | % | | OECD 301 C (Ready Biodegradability - Modified MITI Test (I)) | |
| Bioaccumulative potential: | Log Pow | | -1,76 | | | | |
| Results of PBT and vPvB assessment | | | | | | | n.a. |
| Toxicity to bacteria: | EC5 | 16h | > 10000 | mg/l | Pseudomonas putida | | |
| Other information: | BOD5 | | 0,87 | g/g | | | |
| Other information: | COD | | 1,16 | g/g | | | |

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. (2001/118/EC, 2001/119/EC, 2001/573/EC)

20 01 29 detergents containing dangerous substances

Recommendation:

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

UN number: n.a.

Transport by road/by rail (ADR/RID)

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Classification code: n.a.

LQ (ADR 2013): n.a.

LQ (ADR 2009): n.a.

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Environmental hazards: Not applicable
 Tunnel restriction code:

Transport by sea (IMDG-code)

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

Transport by air (IATA)

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

Special precautions for user

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

Transport in bulk according to Annex II of MARPOL 73/78 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

For classification and labelling see Section 2.

Observe restrictions: n.a.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: 2, 3, 8, 9, 11, 12

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

Not applicable

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

- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 11 Highly flammable.
- 22 Harmful if swallowed.
- 36/38 Irritating to eyes and skin.
- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

- Skin Irrit. — Skin irritation
- Eye Dam. — Serious eye damage
- Flam. Liq. — Flammable liquid
- Eye Irrit. — Eye irritation
- Acute Tox. — Acute toxicity - oral
- Aquatic Chronic — Hazardous to the aquatic environment - chronic

Any abbreviations and acronyms used in this document:

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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

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

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IUCLID International Uniform Chemical 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

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:

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