

# Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **MinutenWipes**

Issue/Revision: 13.07.2018

Print date: 10.12.2018

Version: 1.2

Replaces version: 1.1

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

### 1.1 Product identifier

Trade name: **MinutenWipes**

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

Relevant identified uses: Cleaning and disinfecting agent

Intended purpose: Alcoholic wet wipes for the quick cleaning and disinfection of surfaces of medical devices such as turbines, hand pieces and contra-angles, unit grips, suspension tables and medical equipment.

Uses advised against: None at intended use.

Note: The product is intended for professional users.

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

Manufacturer/Supplier: ALPRO MEDICAL GMBH  
Mooswiesenstraße 9  
D-78112 St. Georgen (Germany)  
Telephone: +49 7725 9392-0  
Telefax: +49 7725 9392-91  
E-mail: alpro@alpro-medical.de  
Internet: www.alpro-medical.com

E-mail address for the competent person responsible for the safety data sheet: doku@alpro-medical.de

### 1.4. Emergency telephone number

In-house emergency telephone number: +49 7725 9392-0  
Monday – Friday from 08:00 am to 04:30 pm (UTC+1);  
for chemical information and legal information on hazardous substances only

Poison centre: +49 761 19240  
Poisoning information centre, Freiburg, Germany  
(24 h / 7 d), English is spoken

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 [CLP]

| <i>Classification</i> | <i>Classification procedure</i>     |
|-----------------------|-------------------------------------|
| Flam. Liq. 3; H226    | On basis of test data (Flash point) |
| Eye Irrit. 2; H319    | Calculation method                  |

Full text of hazard classes as well as H-phrases: see under SECTION 16.3.

Classification in accordance with Directive 1999/45/EC

see SECTION 16.1.

### 2.2. Label elements

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## Label elements in accordance with Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms:



Signal word: Warning

Hazard components for labelling: -

H-phrases: H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.

P-phrases: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

## Label elements in accordance with Directive 1999/45/EC

see SECTION 16.2.

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII.

No further hazards known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical characterisation: Nonwoven wipes soaked with disinfecting solution. The disinfecting solution is a mixture of substances listed below with non-hazardous additions in aqueous solution.

#### Hazardous ingredients

| Chemical name | Identification numbers  | Classification in accordance with Directive 67/548/EEC | Classification in accordance with Regulation (EC) No 1272/2008 | Weight %    |
|---------------|---|--|--|-------------|
| Ethanol       | CAS No: 64-17-5<br>EC No: 200-578-6<br>Index No: 603-002-00-5<br>REACH Registration No: 01-2119457610-43-XXXX | F; R11   | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319                       | ≥ 30 - < 50 |
| Propan-2-ol   | CAS No: 67-63-0<br>EC No: 200-661-7<br>Index No: 603-117-00-0<br>REACH Registration No: 01-2119457558-25-XXXX | F; R11<br>Xi; R36<br>R67                               | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336    | ≥ 5 - < 15  |

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|   |  |                                      |   |       |
|---|--|--------------------------------------|---|-------|
| D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecane-diamidine (2:1) | CAS No: 18472-51-0<br>EC No: 242-354-0<br>REACH Registration No: 01-2119946568-22-XXXX | Xi; R41<br>N; R50/53                 | Eye Dam. 1; H318<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>M-Factor acute: 10<br>M-Factor chronic: 1                           | < 0.2 |
| N,N-Didecyl-N-methylpoly(oxyethyl)ammonium propionate   | CAS No: 94667-33-1<br>EC No: 619-057-3<br>REACH Registration No: 01-2119950327-36-XXXX | Xn; R22<br>C; R34<br>N; R50/53       | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>M-Factor acute: 10<br>M-Factor chronic: 10 | < 0.2 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine  | CAS No: 2372-82-9<br>EC No: 219-145-8<br>REACH Registration No: 01-2119980592-29-XXXX  | Xn; R22-48/22<br>C; R35<br>N; R50/53 | Acute Tox. 3; H301<br>Skin Corr. 1B; H314<br>STOT RE 2; H373<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>M-Factor acute: 10      | < 0.2 |

Full text of code letters, hazard classes, R- and H-phrases: see SECTION 16.3.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- General information: First aider: Pay attention to self-protection!
- Following inhalation: Move affected person into fresh air and keep still and warm. In case of continued complaints seek medical advice.
- Following skin contact: By way of precaution, wash skin with water and soap. In case of skin reactions, consult a physician.
- Following eye contact: Flush eyes immediately with flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Consult an ophthalmologist.
- Following ingestion: Rinse mouth with water. Let drink plenty of water. Do not induce vomiting. Consult a physician immediately.

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

Causes serious eye irritation.

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

No information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media: Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media: Full water jet

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

Hazardous combustion products: Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

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## 5.3. Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus.  
Further information: Cool endangered containers with water spray jet.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Use personal protective equipment. See SECTION 8.2.

Avoid skin and eye contact. Do not breathe vapours. Remove all sources of ignition. Provide adequate ventilation. Evacuate danger area. Observe emergency plans. Consult experts.

#### For emergency responders

Use personal protective equipment. See SECTION 8.2.

### 6.2. Environmental precautions

Do not discharge into drains or rivers.

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

#### Containment

Not necessary.

#### Cleaning up

Collect in suitable, closed containers for disposal.

#### Other information

Inappropriate containment and cleaning methods are not known.

### 6.4. Reference to other sections

Information on safe handling see SECTION 7.1.

Information on personal protective equipment see SECTION 8.2.

Information on disposal see SECTION 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Precautions

Avoid contact with skin and eyes. Avoid breathing vapours. Keep away from sources of ignition.  
Provide adequate ventilation. Keep container tightly closed.

#### Advice on general occupational hygiene

When using do not eat, drink or smoke. Wash hands before breaks and at end of work. Keep away from food and drink.

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

Requirements for storage rooms and vessels: Keep only in the original container. Keep container tightly closed.

Advice on common storage: Not necessary

Further information on storage conditions: Not necessary

Storage class ([DE] TRGS 510): LGK 4.1B Flammable solids

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**7.3. Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific end uses are stipulated.

**Industry and sector specific guidance**

- [DE] TRGS 525 – Hazardous substances in medical care facilities (Section 7 Activities with disinfectants); Issue: September 2014;  
 Source: GMBI 2014 page 1294-1307 of 13.10.2014 [No 63]; www.baua.de
- [DE] DGUV rules 107-002 (former BGR 206) - Disinfection works in health service  
 Issue: July 1999; Source: www.dguv.de/publikationen

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

**8.1. Control parameters**

**Occupational exposure limits**

| Country                       | Limit values        |                   |                         |                   | Legal basis | Remarks                  |
|-------------------------------|---------------------|-------------------|-------------------------|-------------------|-------------|--------------------------|
|                               | Long term (8 hours) |                   | Short term (15 minutes) |                   |             |                          |
|                               | ppm                 | mg/m <sup>3</sup> | ppm                     | mg/m <sup>3</sup> |             |                          |
| Ethanol (CAS No: 64-17-5)     |                     |                   |                         |                   |             |                          |
| EU                            |                     |                   |                         |                   |             | no limit value specified |
| UK                            | 1000                | 1920              | -                       | -                 | EH40        |                          |
| Propan-2-ol (CAS No: 67-63-0) |                     |                   |                         |                   |             |                          |
| EU                            |                     |                   |                         |                   |             | no limit value specified |
| UK                            | 400                 | 999               | 500                     | 1250              | EH40        |                          |

Used abbreviations, symbols, numerals and explanations in column „Remarks“

**Biological limit values**

| Country                       | Parameter | Limit value | Test material | Sampling time                         | Legal basis |
|-------------------------------|-----------|-------------|---------------|---------------------------------------|-------------|
| Propan-2-ol (CAS No: 67-63-0) |           |             |               |                                       |             |
| Germany                       | Acetone   | 25 mg/l     | Whole blood   | End of exposition, resp. end of shift | TRGS 903    |
|                               | Acetone   | 25 mg/l     | Urine         | End of exposition, resp. end of shift | TRGS 903    |

**Information on monitoring procedures**

BS EN 482:2012-04-30; Title: Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents;  
 British version of EN 482:2012

BS EN 689:1996-04-15; Title: Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy;  
 British version of EN 689:1995

BS EN 14042:2003-04-24; Title: Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents;  
 British version of EN 14042:2003

**8.2. Exposure controls**

**Appropriate engineering controls**

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## Technical and organisational protective measures

The eyewash station (or eyewash bottle) must be located near the workplace.

## Personal protective equipment

|                         |   |
|-------------------------|---|
| Eye/face protection:    | Not necessary when used as intended.  |
| Skin protection:        |   |
| Hand protection:        | Protective gloves according to EN 374 are recommended<br><u>Splash guard:</u><br>Disposable gloves made of nitrile rubber (thickness 0.11 mm)<br><u>Permanent contact (&gt; 480 min):</u><br>Protective gloves made of nitrile rubber (thickness 0.40 mm) |
| Other skin protection:  | Not necessary when used as intended.  |
| Respiratory protection: | Not necessary when used as intended.  |
| Thermal hazards:        | No special protective measures necessary.   |

## Environmental exposure controls

Do not discharge into drains.

## SECTION 9: Physical and chemical properties

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

(Information refer to the disinfecting solution)

|   |  |                    |
|---|--|--------------------|
| Appearance:                               | clear, colourless liquid                 |                    |
| Odour:                                    | alcoholic, of lemon                      |                    |
| Odour threshold:                          | no data available                        |                    |
| pH (100 g/l H <sub>2</sub> O):            | 7.5 – 8.5                                | (20 °C)            |
| Melting point/freezing point:             | no data available                        |                    |
| Initial boiling point and boiling range:  | no data available                        |                    |
| Flash point:                              | 23 °C                                    | (EN ISO 2719:2002) |
| Evaporation rate:                         | no data available                        |                    |
| Flammability (solid, gas):                | not applicable                           |                    |
| Lower explosive limit:                    | Ethanol: 3 vol%<br>Propan-2-ol: 2 vol%   |                    |
| Upper explosive limit:                    | Ethanol: 15 vol%<br>Propan-2-ol: 13 vol% |                    |
| Vapour pressure:                          | no data available                        | (... °C)           |
| Vapour density:                           | no data available                        |                    |
| Relative density:                         | 0.885 – 0.895                            | (20 °C)            |
| Solubility in water:                      | completely soluble                       |                    |
| Partition coefficient:<br>n-octanol/water | not applicable                           |                    |
| Auto-ignition temperature:                | not applicable                           |                    |
| Decomposition temperature:                | no data available                        |                    |

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|                       |  |
|-----------------------|--|
| Viscosity:            | no data available  |
| Explosive properties: | The product is not explosive. However, formation of explosive vapour/air mixtures is possible. |
| Oxidising properties: | none   |

## 9.2. Other information

|                                      |               |         |
|--------------------------------------|---------------|---------|
| Refractive index nD:                 | 1.3646-1.3664 | (20 °C) |
| Electrical conductivity (undiluted): | 70-90 µS/cm   | (20 °C) |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when handled and stored as intended.

### 10.2. Chemical stability

The product is stable when handled and stored as intended.

### 10.3. Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

### 10.4. Conditions to avoid

Keep away from heat and sources of ignition.

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

Does not decompose when used as intended.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

##### Product

|                              |   |
|------------------------------|---|
| Acute toxicity - oral:       | Acute Toxicity Estimate ATE <sub>mix</sub> > 2000 mg/kg<br>=> no classification |
| Acute toxicity - dermal:     | Acute Toxicity Estimate ATE <sub>mix</sub> > 2000 mg/kg<br>=> no classification |
| Acute toxicity - inhalation: | Acute Toxicity Estimate ATE <sub>mix</sub> > 20 mg/l<br>=> no classification    |

##### Ingredients

N,N-Didecyl-N-methylpoly(oxyethyl)ammonium propionate (CAS No: 94667-33-1):

Acute toxicity - oral: LD<sub>50</sub>: 1157 mg/kg; species: rat; method: OECD 401

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (CAS No: 2372-82-9):

Acute toxicity - oral: LD<sub>50</sub>: 261 mg/kg; species: rat; method: OECD 401

Acute toxicity - dermal: LD<sub>50</sub>: > 600 mg/kg; species: rat; method: OECD 402

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**Skin corrosion/irritation**

Product

No classification. [calculation method]

**Serious eye damage/irritation**

Product

Causes serious eye irritation. [calculation method]

**Respiratory or skin sensitisation**

Product

No classification. [calculation method]

**Germ cell mutagenicity**

Product

No data available.

**Carcinogenicity**

Product

No data available.

**Reproductive toxicity**

Product

No data available.

**STOT-single exposure**

Product

No classification. [calculation method]

Ingredients

Propan-2-ol (CAS No: 67-63-0):

May cause drowsiness or dizziness.

**STOT-repeated exposure**

Product

No classification. [calculation method]

Ingredients

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (CAS No: 2372-82-9):

NOAEL: 9 mg/kg; Application Route: Oral; Exposure period: 90 d; species: rat

NOAEL: 20 mg/kg; Application Route: Food; Exposure period: 90 d; species: dog

NOAEL: 15 mg/kg; Application Route: Skin; Exposure period: 90 d; species: rat

**Aspiration hazard**

Product

No data available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No classification. [calculation method]



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## 12.2. Persistence and degradability

Biodegradability:

The disinfecting solution is biodegradable according to OECD criteria. The statement has been derived from the properties of the ingredients.

## 12.3. Bioaccumulative potential

No data available.

## 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII.

## 12.6. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal of the product

Product residues must be disposed of as hazardous waste in compliance with the Directive 2008/98/EC on waste as well as national and regional regulations. Do not dispose of via the waste water. Leave product in the original container as possible. Do not mix with other waste materials.

Waste codes / waste designations according to EWC

Product residues: 15 02 02\* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

#### Disposal of the packaging

Packaging contaminated with product is considered as hazardous waste and must be disposed of accordingly.

Waste codes / waste designations according to EWC

Contaminated packaging: 15 01 10\* packaging containing residues of or contaminated by hazardous substances

Recommendation

Contaminated packaging must be emptied optimally and can be recycled after appropriate cleaning (rinse with water).

## SECTION 14: Transport information

### 14.0. Transport classification

Dangerous good in sense of the transport regulations in road traffic (ADR), railway traffic (RID), inland waterway traffic (ADN), maritime traffic (IMDG-Code) and air traffic (ICAO-TI/IATA-DGR).

### 14.1. UN number

UN 3175

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## 14.2. UN proper shipping name

### ADR/RID/ADN

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethanol, Isopropanol)

### IMDG-Code/ICAO-TI/IATA-DGR

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethanol, Isopropanol)

## 14.3. Transport hazard class(es)

Class: 4.1

Subsidiary risk(s): -

## 14.4. Packing group

II

## 14.5. Environmental hazards

### ADR/RID/ADN

Environmentally Hazardous: No

### IMDG-Code

Marine Pollutant: No

## 14.6. Special precautions for user

Not necessary.

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## 14.8. Further information

Transport category according to ADR section 1.1.3.6: 2

Maximum total quantity per transport unit according to ADR section 1.1.3.6: 333 kg

Limited quantity (Maximum quantity per inner packaging) according to ADR/RID/ADN/IMDG-Code: 1 kg

Classification code according to ADR/RID/ADN: F1

Hazard identification number according to ADR/RID: 40

Tunnel restriction code according to ADR/RID: E

Segregation group according to IMDG-Code section 5.4.1.5.11.1: -

EmS codes: F-A, S-I

## SECTION 15: Regulatory information

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

#### EU-Regulations

REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer

not applicable

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REGULATION (EC) No 850/2004 on persistent organic pollutants and amending Directive 79/117/EEC  
not applicable

REGULATION (EU) No 649/2012 concerning the export and import of hazardous chemicals  
not applicable

DIRECTIVE 2012/18/EU (Seveso III Directive) on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

| Hazard category       | Qualifying quantity (tonnes)<br>(lower-tier establishment) | Qualifying quantity (tonnes)<br>(upper-tier establishment) |
|-----------------------|--|--|
| P5c FLAMMABLE LIQUIDS | 5.000  | 50.000   |

DIRECTIVE 2010/75/EU on industrial emissions (integrated pollution prevention and control)  
not applicable

REACH – List of substances subject to authorisation (Annex XIV)  
not applicable

REACH – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)  
not applicable

COUNCIL DIRECTIVE 94/33/EC on the protection of young people at work  
not applicable

COUNCIL DIRECTIVE 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding  
not applicable

## 15.2. Chemical safety assessment

For this mixture no chemical safety assessment has been carried out.

## SECTION 16: Other information

### 16.1. Classification in accordance with Directive 1999/45/EC

*Note: This is the previous classification; products with this classification can still be in the supply chain or on the market and are allowed to be sold until 01.06.2017.*

R10

Full text of R-phrases: see under SECTION 16.3.

### 16.2. Label elements in accordance with Directive 1999/45/EC

*Note: This is the previous labelling; products with this labelling can still be in the supply chain or on the market and are allowed to be sold until 01.06.2017.*

Danger symbols: -

Indications of danger: -

Hazard components  
for labelling: -

R-phrases: R10 Flammable.

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S-phrases: S7 Keep container tightly closed.  
S25 Avoid contact with eyes.

Special labelling of certain preparations (Directive 1999/45/EC Annex V):  
not necessary

## 16.3. Full text of code letters, hazard classes, R- and H-phrases

### Code letters and categories of danger

|    |                               |
|----|-------------------------------|
| C  | Corrosive                     |
| F  | Highly flammable              |
| N  | Dangerous for the environment |
| Xi | Irritant                      |
| Xn | Harmful                       |

### Hazard classes

|                 |  |
|-----------------|--|
| Acute Tox.      | Acute toxicity                                     |
| Aquatic Acute   | Acute aquatic hazard                               |
| Aquatic Chronic | Long-term aquatic hazard                           |
| Eye Dam.        | Serious eye damage                                 |
| Eye Irrit.      | Eye irritation                                     |
| Flam. Liq.      | Flammable liquid                                   |
| Skin Corr.      | Skin corrosion                                     |
| STOT RE         | Specific target organ toxicity (repeated exposure) |
| STOT SE         | Specific target organ toxicity (single exposure)   |

### R-phrases (Indications concerning special risks)

|        |  |
|--------|--|
| R10    | Flammable.   |
| R11    | Highly flammable.  |
| R22    | Harmful if swallowed.  |
| R34    | Causes burns.  |
| R35    | Causes severe burns.   |
| R36    | Irritating to eyes.  |
| R41    | Risk of serious damage to eyes.  |
| R48/22 | Harmful: danger of serious damage to health by prolonged exposure if swallowed.                  |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R67    | Vapours may cause drowsiness and dizziness.  |

### H-phrases (Hazard statements)

|      |  |
|------|--|
| H225 | Highly flammable liquid and vapour.  |
| H226 | Flammable liquid and vapour.   |
| H301 | Toxic if swallowed.  |
| H302 | Harmful if swallowed.  |
| H314 | Causes severe skin burns and eye damage.   |
| H318 | Causes serious eye damage.   |
| H319 | Causes serious eye irritation.   |
| H336 | May cause drowsiness or dizziness.   |
| H373 | May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. |
| H400 | Very toxic to aquatic life.  |
| H410 | Very toxic to aquatic life with long lasting effects.  |

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## 16.4. Abbreviations and acronyms

|                  |   |
|------------------|---|
| ADN              | <u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par voie de <u>n</u> avigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR              | <u>A</u> ccord européen relatif au transport international des marchandises <u>d</u> angereuses par <u>r</u> oute (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                     |
| BGR              | <u>B</u> erufsgenossenschaftliche <u>R</u> egeln (English: Employers' liability insurance association rules)  |
| BS               | <u>B</u> ritish <u>S</u> tandards   |
| CAS              | <u>C</u> hemical <u>A</u> bstracts <u>S</u> ervice  |
| CLP              | Regulation on <u>C</u> lassification, <u>L</u> abelling and <u>P</u> ackaging of Substances and Mixtures  |
| [DE]             | National German regulations   |
| DGUV             | <u>D</u> eutsche <u>G</u> esetzliche <u>U</u> nfall <u>v</u> ersicherung (English: German statutory accident insurance)   |
| EC               | <u>E</u> uropean <u>C</u> ommunity  |
| EEC              | <u>E</u> uropean <u>E</u> conomic <u>C</u> ommunity   |
| EmS              | <u>E</u> mergency <u>S</u> chedules (Emergency response procedures for ships carrying dangerous goods)  |
| EN               | European Standard   |
| EU               | <u>E</u> uropean <u>U</u> nion  |
| EWC              | <u>E</u> uropean <u>W</u> aste <u>C</u> atalogue  |
| GHS              | <u>G</u> lobally <u>H</u> armonized <u>S</u> ystem of Classification, Labelling and Packaging of Chemicals  |
| GMBI             | <u>G</u> emeinsames <u>M</u> inisterial <u>b</u> latt (English: Joint Ministerial Gazette)  |
| IATA-DGR         | <u>I</u> nternational <u>A</u> ir <u>T</u> ransport <u>A</u> ssociation - <u>D</u> angerous <u>G</u> oods <u>R</u> egulations   |
| IBC-Code         | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk   |
| ICAO-TI          | Technical Instructions For The Safe Transport of Dangerous Goods by Air   |
| IMDG-Code        | <u>I</u> nternational <u>M</u> aritime <u>C</u> ode for <u>D</u> angerous <u>G</u> oods   |
| LD <sub>50</sub> | Median lethal dose  |
| LGK              | <u>L</u> ager <u>k</u> lasse (English: Storage class)   |
| MARPOL           | International Convention for the Prevention of Marine Pollution from Ships  |
| N.O.S.           | Not otherwise specified   |
| NOAEL            | <u>N</u> o <u>O</u> bserved <u>A</u> dverse <u>E</u> ffect <u>L</u> evel (dose at which no adverse effect is found)   |
| OECD             | <u>O</u> rganization for <u>E</u> conomic <u>C</u> o-operation and <u>D</u> evelopment  |
| PBT              | <u>P</u> ersistent, <u>b</u> ioaccumulative and <u>t</u> oxic   |
| ppm              | <u>P</u> arts <u>p</u> er <u>m</u> illion   |
| REACH            | <u>R</u> egistration, <u>E</u> valuation, <u>A</u> uthorisation and Restriction of <u>C</u> hemicals  |
| RID              | <u>R</u> èglement concernant le transport <u>I</u> nternational ferroviaire de marchandises <u>D</u> angereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)  |
| TRGS             | <u>T</u> echnische <u>R</u> egeln für <u>G</u> efahr <u>s</u> toffe (English: Technical Rules for Hazardous Substances)   |
| UN               | <u>U</u> nited <u>N</u> ations  |
| UTC              | Coordinated Universal Time (French: Temps Universel Coordonné)  |
| vPvB             | <u>V</u> ery <u>p</u> ersistent and <u>v</u> ery <u>b</u> ioaccumulative  |

## 16.5. Key literature references and sources for data

- Regulation (EC) No 1907/2006 (REACH), Annex II
- European Chemicals Agency (ECHA) – Guidance on the compilation of safety data sheets; Version 2.1 (February 2014); [http://echa.europa.eu/documents/10162/13643/sds\\_en.pdf](http://echa.europa.eu/documents/10162/13643/sds_en.pdf)
- GISBAU (Hazardous substances information system of the BG BAU) – course „safety data sheet“; <http://www.bgbau.de/gisbau/SDB/lehrgang/lehrgang.htm>
- Regulation (EC) No 1272/2008 (CLP regulation)
- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008 (04/2011); [http://echa.europa.eu/documents/10162/13562/clp\\_labelling\\_en.pdf](http://echa.europa.eu/documents/10162/13562/clp_labelling_en.pdf)
- European Chemicals Agency (ECHA), Registered substances; <http://echa.europa.eu/information-on-chemicals/registered-substances>

# Safety data sheet

according to Regulation (EC) No 1907/2006



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Replaces version: 1.1

- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory; <http://echa.europa.eu/information-on-chemicals/cl-inventory-database>
- Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS database on hazardous substances and GESTIS - International limit values for chemical agents; <http://www.dguv.de/dguv/ifa/index.jsp>
- German Environmental Agency (Umweltbundesamt), Section IV 2.4: Office of Documentation and Information on Substances Hazardous to Waters RIGOLETTO (catalogue of Substances Hazardous to Waters); <http://webrigoletto.uba.de/rigoletto>

## 16.6. Training advice

Provide adequate information, instructions and training for users.

## 16.7. Indication of changes

A backslash in the left hand margin indicates an amendment from the previous version.

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The information given in the safety data sheet only apply to the described product in connection with its intended use. These information are based on the latest state of our knowledge at the time of revision. In particular, they describe our product under the aspect of its hazards and safety measures to be taken. They do not constitute any guarantee of product properties and quality features.

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