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

### 1.1. Product identifier

Trade name: **Alpro®Jet-DD**

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

Relevant identified uses: Cleaning and disinfecting agent

Intended purpose: Instrument grade disinfectant – low level.

Concentrated liquid for the hygienic service, cleaning and maintenance of non-critical aspiration lines in dental suction and separating systems.

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

Supplier:
Biodegree PTY. LTD.
2/359 Alfred Street North
Neutral Bay NSW 2089 (Australia)
Tel. +61 499145331
Email: info@biodegree.com.au

Manufacturer:
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
**or Poisons Information Centre (Phone Australia 131 126) (24h emergency call)**

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

| *Classification* | *Classification procedure* |
|---|---|
| Skin Corr. 1B; H314 | Calculation method |
| STOT SE 3; H335 | Calculation method |

Full text of hazard classes as well as H-phrases: see under SECTION 16.1.

### 2.2. Label elements

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

Hazard pictograms:

Signal word: Danger

Hazard components for labelling: 2-Aminoethanol (141-43-5); Benzalkonium chloride (85409-22-9)

| | | |
|---|---|---|
| H-phrases: | H314 | Causes severe skin burns and eye damage. |
| | H335 | May cause respiratory irritation. |
| P-phrases: | P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| | P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| | P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| | P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P310 | Immediately call a POISON CENTER/ doctor. |

### 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: Mixture of substances listed below with non-hazardous additions in aqueous solution.

**Hazardous ingredients**

| *Chemical name* | *Identification numbers* | *Classification in accordance with Regulation (EC) No 1272/2008* | *Weight %* |
|---|---|---|---|
| 2-Aminoethanol | CAS No: 141-43-5<br>EC No: 205-483-3<br>Index No: 603-030-00-8<br>REACH Registration No:<br>01-2119486455-28-XXXX | Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>STOT SE 3; H335<br>*Specific concentration limits:*<br>*STOT SE 3; H335: C ≥ 5 %* | ≥ 5 - < 15 |
| Trisodium nitrilotriacetate | CAS No: 5064-31-3<br>EC No: 225-768-6<br>Index No: 607-620-00-6<br>REACH Registration No:<br>01-2119519239-36-XXXX | *Carc. 2; H351*<br>Acute Tox. 4; H302<br>Eye Irrit. 2; H319<br>*Specific concentration limits:*<br>*Carc. 2; H351: C ≥ 5 %* | ≥ 1 - < 5 |

| | | | |
|---|---|---|---|
| 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 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336 | ≥ 1 - < 5 |
| Benzalkonium chloride | CAS No: 85409-22-9<br>EC No: 287-089-1 | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Aquatic Acute 1; H400 | ≥ 1 - < 5 |
| Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides | CAS No: 63449-41-2<br>EC No: 264-151-6<br>Index No: 612-140-00-5 | Acute Tox. 4; H312<br>Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Aquatic Acute 1; H400 | < 0.2 |

Full text of hazard classes and H-phrases: see SECTION 16.1.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information: First aider: Pay attention to self-protection!
Remove contaminated, saturated clothing immediately.

Following inhalation: Move affected person into fresh air and keep still and warm. Seek medical advice.

Following skin contact: Wash skin immediately with plenty of 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 (risk of perforation). Consult a physician immediately.

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

Causes severe skin burns and eye damage. May cause respiratory 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 ($CO_2$)

Unsuitable extinguishing media: Full water jet

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

Hazardous combustion products: Carbon monoxide (CO), carbon dioxide ($CO_2$), nitrogen oxides ($NO_x$), hydrogen chloride (HCl)

### 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. Provide adequate ventilation. Special danger of slipping by leaked/spilled product. 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**

For large spills, dyke spilled material or otherwise contain material to ensure runoff does not reach a waterway. Cover or seal drains.

**Cleaning up**

Wipe up small amounts with absorbent material (e.g. cloth, fleece). Absorb large amounts with liquid-binding material (sand, diatomaceous earth, universal binder, sawdust). Collect in suitable, closed containers for disposal. Clean contaminated surfaces thoroughly.

**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 aerosols and vapours. Keep container tightly closed. Fill refill packages only in labelled original bottles.

**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 and kept upright to prevent any leakage. |
| Advice on common storage: | Keep away from food, drink and animal feedingstuffs. |
| Further information on storage conditions: | Not necessary |
| Storage class ([DE] TRGS 510): | LGK 8B Non-combustible corrosive hazardous substances |

### 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: GMBl 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/m³* | *ppm* | *mg/m³* | | |
| 2-Aminoethanol (CAS No: 141-43-5) | | | | | | |
| Australia | 3 | 7.5 | 6 | 15 | WESfAC | - |
| EU | 1 | 2.5 | 3 | 7.6 | 2006/15/EC | Skin |
| Propan-2-ol (CAS No: 67-63-0) | | | | | | |
| Australia | 400 | 983 | 500 | 1230 | WESfAC | - |
| EU | | | | | | no limit value specified |

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

Skin A significant uptake of the substance through the skin is possible.

**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**

**Technical and organisational protective measures**

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

**Personal protective equipment**

| | |
|---|---|
| Eye/face protection: | Safety glasses with side protection according to EN 166 |
| Skin protection: | |
| Hand protection: | Protective gloves according to EN 374<br>Splash guard:<br>Disposable gloves made of nitrile rubber (thickness 0.11 mm)<br>Permanent contact (> 480 min):<br>Protective gloves made of nitrile rubber (thickness 0.40 mm) |
| Other skin protection: | Long-sleeved protective clothing (lab coat) |
| 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

| | | |
|---|---|---|
| Appearance: | clear, blue-green liquid | |
| Odour: | of lemon | |
| Odour threshold: | no data available | |
| pH (20 g/l $H_2O$): | 11.0 – 12.0 | (20 °C) |
| Melting point/freezing point: | no data available | |
| Initial boiling point and boiling range: | no data available | |
| Flash point: | > 60 °C | |
| Evaporation rate: | no data available | |
| Flammability (solid, gas): | not applicable | |
| Lower explosive limit: | not applicable | |
| Upper explosive limit: | not applicable | |
| Vapour pressure: | no data available | (… °C) |
| Vapour density: | no data available | |
| Relative density: | 1.030 – 1.035 | (20 °C) |
| Solubility in water: | completely soluble | |
| Partition coefficient: n-octanol/water | not applicable | |
| Auto-ignition temperature: | not applicable | |
| Decomposition temperature: | no data available | |

| | | |
|---|---|---|
| Viscosity: | no data available | |
| Explosive properties: | none | |
| Oxidising properties: | none | |

**9.2. Other information**

| | | |
|---|---|---|
| Refractive index nD: | 1.3638-1.3723 | (20 °C) |
| Electrical conductivity (20 g/l $H_2O$): | 1500-2000 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**

None known

**10.4. Conditions to avoid**

None known

**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 $ATE_{mix}$ > 2000 mg/kg<br>=> no classification |
| Acute toxicity - dermal: | Acute Toxicity Estimate $ATE_{mix}$ > 2000 mg/kg<br>=> no classification |
| Acute toxicity - inhalation: | Acute Toxicity Estimate $ATE_{mix}$ > 20 mg/l<br>=> no classification |

Ingredients

2-Aminoethanol (CAS No: 141-43-5):

| | |
|---|---|
| Acute toxicity - oral: | $LD_{50}$: 1515 mg/kg; species: rat; method: OECD 401 |
| Acute toxicity - inhalation: | $LC_{50}$: > 1.3 mg/l; species: rat; 6 h; vapour |

Trisodium nitrilotriacetate (CAS No: 5064-31-3):

| | |
|---|---|
| Acute toxicity - oral: | $LD_{50}$: 1000 - 2000 mg/kg; species: rat; method: (BASF-test) |

Benzalkonium chloride (CAS No: 85409-22-9):

| | |
|---|---|
| Acute toxicity - oral: | $LD_{50}$: approx. 344 mg/kg; species: rat |

Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides (CAS No: 63449-41-2):
Acute toxicity - oral: $LD_{50}$: approx. 398 mg/kg; species: rat
Acute toxicity - dermal: $LD_{50}$: 1420 mg/kg; species: rat

**Skin corrosion/irritation**

Product

Causes severe skin burns. [calculation method]

**Serious eye damage/irritation**

Product

Causes serious eye damage. [calculation method]

**Respiratory or skin sensitisation**

Product

No data available.

**Germ cell mutagenicity**

Product

No data available.

**Carcinogenicity**

Product

No classification. [calculation method]

Ingredients

Trisodium nitrilotriacetate (CAS No: 5064-31-3):
The substance was shown to have a carcinogenic effect in animal studies with long-term administration of large amounts via the drinking water or via the food. With single or short-term intake of the substance a carcinogenic effect is however practically ruled out.

**Reproductive toxicity**

Product

No data available.

**STOT-single exposure**

Product

May cause respiratory irritation. [calculation method]

Ingredients

2-Aminoethanol (CAS No: 141-43-5):
May cause respiratory irritation.

Propan-2-ol (CAS No: 67-63-0):
May cause drowsiness or dizziness.

**STOT-repeated exposure**

Product

No data available.

**Aspiration hazard**

Product

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

No classification. [calculation method]

### 12.2. Persistence and degradability

Biodegradability:

The product 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: | 16 10 03* aqueous concentrates containing hazardous 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 1903

**14.2. UN proper shipping name**

**ADR/RID/ADN**

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Ethanolamine, Benzalkonium chloride)

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

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Ethanolamine, Benzalkonium chloride)

**14.3. Transport hazard class(es)**

| | |
|---|---|
| Class: | 8 |
| Subsidiary risk(s): | - |

**14.4. Packing group**

III

**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: | 3 |
| Maximum total quantity per transport unit according to ADR section 1.1.3.6: | 1000 L |
| Limited quantity (Maximum quantity per inner packaging) according to ADR/RID/ADN/IMDG-Code: | 5 L |
| Classification code according to ADR/RID/ADN: | C9 |
| Hazard identification number according to ADR/RID: | 80 |
| Tunnel restriction code according to ADR/RID: | E |
| Segregation group according to IMDG-Code section 5.4.1.5.11.1: | IMDG-Code- Segregation group 18 – alkalis |
| EmS codes: | F-A, S-B |

## 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

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

not applicable

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

Observe employment restrictions for juveniles.

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

Observe employment restrictions for pregnant and nursing mothers.

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### 16.1. Full text of hazard classes and H-phrases

**Hazard classes**

| | |
|---|---|
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Acute aquatic hazard |
| Carc. | Carcinogenicity |
| Eye Irrit. | Eye irritation |
| Flam. Liq. | Flammable liquid |
| Skin Corr. | Skin corrosion |
| STOT SE | Specific target organ toxicity (single exposure) |

**H-phrases (Hazard statements)**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. |
| H400 | Very toxic to aquatic life. |

**16.2. Abbreviations and acronyms**

| | |
|---|---|
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| BGR | Berufsgenossenschaftliche Regeln (English: Employers' liability insurance association rules) |
| BS | British Standards |
| CAS | Chemical Abstracts Service |
| CLP | Regulation on Classification, Labelling and Packaging of Substances and Mixtures |
| [DE] | National German regulations |
| DGUV | Deutsche Gesetzliche Unfallversicherung (English: German statutory accident insurance) |
| EC | European Community |
| EEC | European Economic Community |
| EmS | Emergency Schedules (Emergency response procedures for ships carrying dangerous goods) |
| EN | European Standard |
| EU | European Union |
| EWC | European Waste Catalogue |
| GHS | Globally Harmonized System of Classification, Labelling and Packaging of Chemicals |
| GMBl | Gemeinsames Ministerialblatt (English: Joint Ministerial Gazette) |
| IATA-DGR | International Air Transport Association - Dangerous Goods Regulations |
| 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 | International Maritime Code for Dangerous Goods |
| $LC_{50}$ | Median lethal concentration |
| $LD_{50}$ | Median lethal dose |
| LGK | Lagerklasse (English: Storage class) |
| MARPOL | International Convention for the Prevention of Marine Pollution from Ships |
| N.O.S. | Not otherwise specified |
| NOAEL | No Observed Adverse Effect Level (dose at which no adverse effect is found) |
| OECD | Organization for Economic Co-operation and Development |
| PBT | Persistent, bioaccumulative and toxic |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail) |

| | |
|---|---|
| TRGS | Technische Regeln für Gefahrstoffe (English: Technical Rules for Hazardous Substances) |
| UN | United Nations |
| UTC | Coordinated Universal Time (French: Temps Universel Coordonné) |
| vPvB | Very persistent and very bioaccumulative |
| WESfAC | Workplace Exposure Standards for Airborne Contaminants |

**16.3. 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
- 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
- European Chemicals Agency (ECHA), Registered substances; http://echa.europa.eu/information-on-chemicals/registered-substances
- 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

**16.4. Training advice**

Provide adequate information, instructions and training for users.

**16.5. Indication of changes**

A dash 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 applies to the described product in connection with its intended use. This information is based on the latest state of our knowledge at the time of revision. In particular, it describes our product under the aspect of its hazards and safety measures to be taken. It does not constitute any guarantee of product properties and quality features.

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