

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **PrintoSept-ID**

Issue/Revision: 08.05.2019

Print date: 27.05.2019

Version: 2.0

Replaces version: 1.0

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

1.1. Product identifier

Trade name: **PrintoSept-ID**

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

Relevant identified uses: Cleaning and disinfecting agent

Intended purpose: Solution ready for use, free of aldehydes and phenols, for the cleaning and disinfection of all kinds of dental impressions, worn dental prostheses and dental works.

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 |
| Skin Irrit. 2; H315 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

Full text of hazard classes as well as H-phrases: see under 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. |
| | H315 | Causes skin irritation. |
| | H319 | Causes serious eye irritation. |
| | H412 | Harmful to aquatic life with long lasting effects. |
| P-phrases: | P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| | P233 | Keep container tightly closed. |
| | P280 | Wear protective gloves/eye protection/face protection. |
| | P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P337+P313 | If eye irritation persists: Get medical advice/attention. |

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 % |
|---------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------|
| Ethanol | CAS No: 64-17-5 EC No: 200-578-6 Index No: 603-002-00-5 REACH Registration No: 01-2119457610-43-XXXX | Flam. Liq. 2; H225 Eye Irrit. 2; H319 | ≥ 15 - < 30 |
| Propan-2-ol | CAS No: 67-63-0 EC No: 200-661-7 Index No: 603-117-00-0 REACH Registration No: 01-2119457558-25-XXXX | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | ≥ 1 - < 5 |

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| | | | |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| N,N-Didecyl-N-methylpoly(oxyethyl)ammonium propionate | CAS No: 94667-33-1 EC No: 619-057-3 REACH Registration No: 01-2119950327-36-XXXX | Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <i>M-Factor acute: 10</i> <i>M-Factor chronic: 1</i> | ≥ 0.2 - < 1 |
| N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine | CAS No: 2372-82-9 EC No: 219-145-8 REACH Registration No: 01-2119980592-29-XXXX | Acute Tox. 3; H301 Skin Corr. 1B; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <i>M-Factor acute: 10</i> | ≥ 0.2 - < 1 |

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! |
| Following inhalation: | Move affected person into fresh air and keep still and warm. In case of continued complaints 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. Consult a physician immediately. |

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

Causes skin irritation. 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 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 (CO₂), nitrogen oxides (NO_x)

5.3. Advice for firefighters

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

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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. Remove all sources of ignition. 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. 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 and kept upright to prevent any leakage.

Advice on common storage: Not necessary

Further information on storage conditions: Not necessary

Storage class ([DE] TRGS 510): LGK 3 Flammable liquids

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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 ³ | ppm | mg/m ³ | | |
| 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: | Safety glasses with side protection according to EN 166 |
| Skin protection: | |
| Hand protection: | Protective gloves according to EN 374 <u>Splash guard:</u> Disposable gloves made of nitrile rubber (thickness 0.11 mm) <u>Permanent contact (> 480 min):</u> 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

| | | |
|-------------------------------------------|------------------------------------------|--------------------|
| Appearance: | clear, yellow liquid | |
| Odour: | alcoholic | |
| Odour threshold: | no data available | |
| pH (undiluted): | 10.5 – 11.5 | (20 °C) |
| Melting point/freezing point: | no data available | |
| Initial boiling point and boiling range: | no data available | |
| Flash point: | 32 °C | (EN ISO 2719:2002) |
| Evaporation rate: | no data available | |
| Flammability (solid, gas): | not applicable | |
| Lower explosive limit: | Ethanol: 3 vol% Propan-2-ol: 2 vol% | |
| Upper explosive limit: | Ethanol: 15 vol% Propan-2-ol: 13 vol% | |
| Vapour pressure: | no data available | (... °C) |
| Vapour density: | no data available | |
| Relative density: | 0.965 – 0.975 | (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 | |

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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: 1.3494-1.3509 (20 °C)

Electrical conductivity (undiluted): 300-500 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_{mix} > 2000 mg/kg
=> no classification

Acute toxicity - dermal: Acute Toxicity Estimate ATE_{mix} > 2000 mg/kg
=> no classification

Acute toxicity - inhalation: Acute Toxicity Estimate ATE_{mix} > 20 mg/l
=> no classification

Ingredients

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

Acute toxicity - oral: LD₅₀: 1157 mg/kg; species: rat; method: OECD 401

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

Acute toxicity - oral: LD₅₀: 261 mg/kg; species: rat; method: OECD 401

Acute toxicity - dermal: LD₅₀: > 600 mg/kg; species: rat; method: OECD 402

Skin corrosion/irritation

Product

Causes skin irritation. [calculation method]

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Serious eye damage/irritation

Product

Causes serious eye irritation. [calculation method]

Respiratory or skin sensitisation

Product

No data available.

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

Harmful to aquatic life with long lasting effects. [calculation method]

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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

The undiluted product or 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 the undiluted product 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: 07 06 04* other organic solvents, washing liquids and mother liquors

Note

Normal usage quantities can be disposed of via the waste water in the appropriate dilution (with at least 5 times the amount of water).

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).

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14.1. UN number

UN 1987

14.2. UN proper shipping name

ADR/RID/ADN

ALCOHOLS, N.O.S. (Ethanol, Isopropanol)

IMDG-Code/ICAO-TI/IATA-DGR

ALCOHOLS, N.O.S. (Ethanol, Isopropanol)

14.3. Transport hazard class(es)

Class: 3

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: F1

Hazard identification number according to
ADR/RID: 30

Tunnel restriction code according to ADR/RID: D/E

Segregation group according to IMDG-Code
section 5.4.1.5.11.1: -

EmS codes: F-E, S-D

SECTION 15: Regulatory information

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

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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

| <i>Hazard category</i> | <i>Qualifying quantity (tonnes) (lower-tier establishment)</i> | <i>Qualifying quantity (tonnes) (upper-tier establishment)</i> |
|------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| 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. Full text of hazard classes and H-phrases

Hazard classes

| | |
|-----------------|----------------------------------------------------|
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Acute aquatic hazard |
| Aquatic Chronic | Long-term aquatic hazard |
| 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) |

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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. |
| H315 | Causes skin irritation. |
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |

16.2. 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 | International <u>M</u> aritime Code for <u>D</u> angerous <u>G</u> oods |
| LD ₅₀ | 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) |

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| | |
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| TRGS | <u>T</u> echnische <u>R</u> egeln für <u>G</u> efährstoffe (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 |

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

The information given in the safety data sheet only applies to the described product in connection with its intended use. The 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.
