

Safety data sheet

according to Regulation (EC) No 1907/2006



Trade name: **DesNet +**

Issue/Revision: 05.04.2016

Print date: 13.09.2016

Version: 1.0

Replaces version: of 22.11.2010

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

1.1 Product identifier

Trade name: **DesNet +**

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

Relevant identified uses: Cleaning and disinfecting agent

Intended purpose: Liquid concentrate free of aldehydes and phenols for reliable cleaning and disinfection of surfaces of medical devices in the medical and dental practice with an extensive microbicidal effectiveness.

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>
Skin Corr. 1B; H314	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Acute 1; H400	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: **Danger**

Hazard components for labelling: 2-Aminoethanol (141-43-5); Didecyldimethylammonium chloride (7173-51-5); Potassium carbonate (584-08-7)

H-phrases: H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.
 H400 Very toxic to aquatic life.

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/ 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.

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

Hazardous ingredients

<i>Chemical name</i>	<i>Identification numbers</i>	<i>Classification in accordance with Directive 67/548/EEC</i>	<i>Classification in accordance with Regulation (EC) No 1272/2008</i>	<i>Weight %</i>
2-Aminoethanol	CAS No: 141-43-5 EC No: 205-483-3 Index No: 603-030-00-8 REACH Registration No: 01-2119486455-28-XXXX	Xn; R20/21/22 C; R34	Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314 STOT SE 3; H335: C ≥ 5 %	≥ 5 - < 15
Didecyldimethylammonium chloride	CAS No: 7173-51-5 EC No: 230-525-2 Index No: 612-131-00-6	Xn; R22 C; R34 N; R50	Acute Tox. 3; H301 Skin Corr. 1B; H314 Aquatic Acute 1; H400 M-Factor acute: 10	≥ 5 - < 15

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Potassium carbonate	CAS No: 584-08-7 EC No: 209-529-3 REACH Registration No: 01-2119532646-36-XXXX	Xi, R36/37/38	Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315	≥ 5 - < 15
Tetrasodium ethylenediamine-tetraacetate	CAS No: 64-02-8 EC No: 200-573-9 Index No: 607-428-00-2 REACH Registration No: 01-2119486762-27-XXXX	Xn; R20/22 Xi; R41	Acute Tox. 4; H332 Acute Tox. 4; H302 Eye Dam. 1; H318	≥ 1 - < 5
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	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	≥ 1 - < 5
Trisodium nitrilotriacetate	CAS No: 5064-31-3 EC No: 225-768-6 Index No: 607-620-00-6 REACH Registration No: 01-2119519239-36-XXXX	Carc. Cat. 3; R40 Xn; R22 Xi; R36	Carc. 2; H351: C ≥ 5 % Acute Tox. 4; H302 Eye Irrit. 2; H319	< 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!
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 only a few sips of water (foaming product). Do not induce vomiting (risk of aspiration and 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 (CO₂)
- Unsuitable extinguishing media: Full water jet

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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x), hydrogen chloride (HCl), chlorine (Cl₂) and chlorine dioxide (ClO₂)

5.3. Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus.

Further information: Cool endangered containers with water spray jet. Collect contaminated fire extinguishing water separately. Do not discharge into drains or rivers.

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.

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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: 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		
2-Aminoethanol (CAS No: 141-43-5)						
EU	1	2.5	3	7.6	2006/15/EC	Skin
UK	1	2.5	3	7.6	EH40	Sk
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“

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

Sk Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

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

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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 <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:	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, green liquid
Odour:	characteristic
Odour threshold:	no data available
pH (undiluted):	12.5 – 13.5 (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

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Vapour pressure:	no data available	(... °C)
Vapour density:	no data available	
Relative density:	1.045 – 1.055	(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:	1.3723-1.3811	(20 °C)
Electrical conductivity (20 g/l H ₂ O):	2000-3000 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} = 2793 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

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Ingredients

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

Acute toxicity - oral: LD₅₀: 1515 mg/kg; species: rat; method: OECD 401

Acute toxicity - inhalation: LC₅₀: > 1.3 mg/l; species: rat; 6 h; vapour

Didecyldimethylammonium chloride (CAS No: 7173-51-5):

Acute toxicity - oral: LD₅₀: 238 mg/kg; species: rat; method: OECD 401

Acute toxicity - dermal: LD₅₀: 3342 mg/kg; species: rabbit

Tetrasodium ethylenediaminetetraacetate (CAS No: 64-02-8):

Acute toxicity - oral: LD₅₀: 1780-2000 mg/kg; species: rat; method: BASF-test

Acute toxicity - inhalation: LC₅₀: 1000-5000 mg/m³; species: rat; 6 h; method: OECD 403

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

Acute toxicity - oral: LD₅₀: 1000 - 2000 mg/kg; species: rat; method: (BASF-test)

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

No classification. [calculation method]

Ingredients

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

May cause drowsiness or dizziness.

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

May cause respiratory irritation.

STOT-repeated exposure

Product

No data available.

Aspiration hazard

Product

No data available.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life. [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: 07 06 01* aqueous washing liquids and mother liquors

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

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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 1760

14.2. UN proper shipping name

ADR/RID/ADN

CORROSIVE LIQUID, N.O.S. (Ethanolamine, Didecyldimethylammonium chloride)

IMDG-Code/ICAO-TI/IATA-DGR

CORROSIVE LIQUID, N.O.S. (Ethanolamine, Didecyldimethylammonium 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: Yes

IMDG-Code

Marine Pollutant: Yes

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

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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

<i>Hazard category</i>	<i>Qualifying quantity (tonnes) (lower-tier establishment)</i>	<i>Qualifying quantity (tonnes) (upper-tier establishment)</i>
E1 ENVIRONMENTAL HAZARDS	100	200

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. 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.

Corrosive; C; R34

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

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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: Corrosive

Hazard components

for labelling: 2-Aminoethanol, Didecyldimethylammonium chloride

R-phrases: R34 Causes burns.

S-phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with water and soap.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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
Carc. Cat. 3	Carcinogenicity category 3
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

Hazard classes

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

R-phrases (Indications concerning special risks)

R11	Highly flammable.
R20/22	Harmful by inhalation and if swallowed.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.

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R67 Vapours may cause drowsiness and dizziness.

H-phrases (Hazard statements)

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious 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.

16.4. 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
GMBI 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
LC₅₀ Median lethal concentration
LD₅₀ 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
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)

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TRGS	<u>T</u> echnische <u>R</u> egeln für <u>G</u> efahrstoffe (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
WGK	<u>W</u> assergefährdungs <u>k</u> lasse (English: water hazard class)

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
- 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>

16.6. Training advice

Provide adequate information, instructions and training for users.

16.7. Indication of changes

Recast of the safety data sheet. All sections have been revised according to Regulation (EC) No 1907/2006 (REACH) incl. Regulation (EU) No 453/2010. The product was reclassified in accordance with Regulation (EC) No 1272/2008 (CLP Regulation).

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.
