

Trade name: **PrintoSept-ID** Issue/Revision: 08.05.2019 Print date: 27.05.2019

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 shee	et				
	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]

Classification	Classification procedure
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 H315 H319 H412	Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
P-phrases:	P210 P233 P280 P305+P351+P338	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Wear protective gloves/eye protection/face protection. 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-methyl-	CAS No: 94667-33-1	Acute Tox. 4; H302	≥ 0.2 - < 1
poly(oxyethyl)ammo-	EC No: 619-057-3	Skin Corr. 1B; H314	
nium propionate	REACH Registration No:	Aquatic Acute 1; H400	
	01-2119950327-36-XXXX	Aquatic Chronic 1; H410	
		M-Factor acute: 10	
		M-Factor chronic: 1	
N-(3-Aminopropyl)-N-	CAS No: 2372-82-9	Acute Tox. 3; H301	≥ 0.2 - < 1
dodecylpropane-1,3-	EC No: 219-145-8	Skin Corr. 1B; H314	
diamine	REACH Registration No:	STOT RE 2; H373	
	01-2119980592-29-XXXX	Aquatic Acute 1; H400	
		Aquatic Chronic 1; H410	
		M-Factor acute: 10	

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 (CO2)

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 liquidbinding 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

		Limit	values				
Country	Long term (8 hours)		Short term (15		Legal	Remarks	
			minutes)		basis		
	ррт	mg/m³	ррт	mg/m³			
Ethanol (CAS No: 64-17-5)							
	10.04175	/			1		
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 (Propan-2-ol (CAS No: 67-63-0)					
	Acetone	25 mg/l	Whole	End of exposition, resp. end of shift	TRGS 903	
Germany			blood			
	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 liqu		
Odour:	alcoholic		
Odour threshold:	no data available	2	
pH (undiluted):	10.5 - 11.5		(20 °C)
Melting point/freezing point:	no data available	2	
Initial boiling point and boiling range:	no data available	<u>1</u>	
Flash point:	32 °C		(EN ISO 2719:2002)
Evaporation rate:	no data available	2	
Flammability (solid, gas):	not applicable		
Lower explosive limit:	Ethanol: 3 vol% Propan-2-ol: 2 vol%		
Upper explosive limit:	Ethanol: Propan-2-ol:	15 vol% 13 vol%	
Vapour pressure:	no data available	2	(°C)
Vapour density:	no data available	2	
Relative density:	0.965 – 0.975		(20 °C)
Solubility in water:	completely solub	le	
Partition coefficient: n-octanol/water	not applicable		
Auto-ignition temperature:	not applicable		
Decomposition temperature:	no data available		
Viscosity:	no data available	2	



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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		none	
	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-dodec	cylpropane-1,3-diamine (CAS No: 2372-82-9):
Acute toxicity - oral:	LD ₅₀ : 261 mg/kg; species: rat; method: OECD 401
Acute toxicity - dermal:	LD ₅₀ : > 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

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

STOT-repeated exposure

Product

No classification. [calculation method]

Ingredients

<u>N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (CAS No: 2372-82-9):</u> 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).

Safety data sheet according to Regulation (EC) No 1907/2006		
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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		
Ш		
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	3/78 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

Hazard category	Qualifying quantity (tonnes) (lower-tier establishment)	Qualifying quantity (tonnes) (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. 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 affected,="" all="" if="" known="" organs="" state=""> through prolonged or repeated exposure <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state></or>
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	Accord 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
400	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	Berufsgenossenschaftliche Regeln (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>Classification</u> , <u>Labelling</u> and <u>Packaging</u> of Substances and Mixtures
[DE]	National German regulations
DGUV	Deutsche Gesetzliche Unfallversicherung (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	Emergency Schedules (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	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
GMBI	<u>Gemeinsames Ministerialblatt</u> (English: Joint Ministerial Gazette)
IATA-DGR	International <u>Air Transport Association - Dangerous G</u> oods <u>Regulations</u>
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	Lagerklasse (English: Storage class)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
N.O.S.	Not otherwise specified
NOAEL	<u>No O</u> bserved <u>A</u> dverse <u>E</u> ffect <u>L</u> evel (dose at which no adverse effect is found)
OECD	Organization for Economic Co-operation and Development
PBT	Persistent, <u>b</u> ioaccumulative and <u>t</u> oxic
ppm	<u>Parts per m</u> illion
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	<u>Règlement concernant le transport</u> International ferroviaire de marchandises <u>D</u> angereuses
	(Regulations Concerning the International Carriage of Dangerous Goods by Rail)



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- TRGSTechnische Regeln für Gefahrstoffe (English: Technical Rules for Hazardous Substances)UNUnited Nations
- UTC Coordinated Universal Time (French: Temps Universel Coordonné)
- vPvB <u>Very persistent and very 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); <u>http://echa.europa.eu/documents/10162/13643/sds_en.pdf</u>
- GISBAU (Hazardous substances information system of the BG BAU) course "safety data sheet"; <u>http://www.bgbau.de/gisbau/SDB/lehrgang/lehrgang.htm</u>
- 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); <u>http://echa.europa.eu/documents/10162/13562/clp_labelling_en.pdf</u>
- European Chemicals Agency (ECHA), Registered substances; <u>http://echa.europa.eu/information-on-chemicals/registered-substances</u>
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory; <u>http://echa.europa.eu/information-on-chemicals/cl-inventory-database</u>
- 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); <u>http://webrigoletto.uba.de/rigoletto</u>

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.



Trade name: **AlproSol** Issue/Revision: 06.10.2021 Print date: 08.10.2021

Version: 2.2 Replaces version: 2.1

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

1.1.	Product identifier		
	Trade name:	AlproSol	
	UFI:	SS90-1J9W-8004-V4T0	
1.2.	2. Relevant identified uses of the substance or mixture and uses advised against		
	Relevant identified uses:	Cleaning agent	
	Intended purpose:	Liquid concentrate for the cleaning of impression trays, mixing spatulas and instruments.	
	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 shee	t	
	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]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data (Flash point)
Eye Irrit. 2; H319	Calculation method
Skin Irrit. 2; H315	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:





Trade name: AlproSol

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Signal word:		Warning
Hazard compo for labelling:	onents	-
H-phrases:	H226	Flammable liquid and vapour.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
P-phrases:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	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 %
Sulfonic acids, C14-17- sec-alkane, sodium salts	CAS No: 97489-15-1 EC No: 307-055-2 REACH Registration No:	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	≥5-<15
	01-2119489924-20-XXXX	Aquatic Chronic 3; H412 Specific concentration values: Acute Tox. 4; H302: C > 60 % Skin Irrit. 2; H315: C > 60 % Eye Dam. 1; H318: C > 60 %	
		Skin Irrit. 2; H315 and Eye Dam. 1; H318: 15 % < C ≤ 60 %. Skin Irrit. 2; H315 and Eye Irrit. 2;	
		H319: 10 % < C ≤ 15 %	
Propan-2-ol	CAS No.: 67-63-0 EG No.: 200-661-7 Index No.: 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	≥5-<15
	REACH Registration No.: 01-2119457558-25-XXXX		



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Trisodium nitrilotri-	CAS No: 5064-31-3	Carc. 2; H351	≥1-<5
acetate	EC No: 225-768-6	Acute Tox. 4; H302	
	Index No: 607-620-00-6	Eye Irrit. 2; H319	
	REACH Registration No: 01-2119519239-36-XXXX	Specific concentration limits: Carc. 2; H351: $C \ge 5 \%$	
Sodium p- cumenesulphonate	CAS No: 15763-76-5 EC No: 239-854-6 REACH Registration No: 01-2119489411-37-XXXX	Eye Irrit. 2; H319	≥1-<5
Hydrogen chloride	CAS No: 7647-01-0 EC No: 231-595-7 Index No: 017-002-01-X REACH Registration No: 01-2119484862-27-XXXX	Met. Corr. 1; H290 Skin Corr. 1B; H314 STOT SE 3; H335 Specific concentration limits: Met. Corr. 1; H290: $C \ge 0,1 \%$ Skin Corr. 1B; H314: $C \ge 25 \%$ STOT SE 3; H335: $C \ge 10 \%$ Skin Irrit. 2; H315 and Eye Irrit. 2; H319: 10 % $\le C < 25 \%$	≥1-<5
Alcohols, C12-14, ethoxylated	CAS No: 68439-50-9 EC No: 500-213-3 REACH Registration No: 01-2119487984-16-XXXX	Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 <i>M-Factor acute: 1</i>	≥1-<5

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.



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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), sulfur oxides (S _x O _y), hydrogen chloride
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. 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 liquidbinding 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.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions

Avoid contact with skin and eyes. Avoid breathing aerosols and vapours. Keep away from sources of ignition. 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:	Not necessary
Further information on storage conditions:	Not necessary
Storage class ([DE] TRGS 510):	LGK 3 Flammable liquids

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

	Limit values						
Country	Long term (8 hours)		Short term (15 minutes)		Legal basis	Remarks	
	ррт	mg/m³	ppm	mg/m ³	50313		
Propan-2-ol (Propan-2-ol (CAS No: 67-63-0)						
EU						no limit value specified	
UK	400	999	500	1250	EH40		
Hydrogen chloride (gas and aerosol mists) (CAS No: 7647-01-0)							
EU	5	8	10	15	2000/39/EG	-	
UK	1	2	5	8	EH40		

Used abbreviations, symbols, numerals and explanations in column "Remarks"



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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) 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:	yellow liquid	
Odour:	characteristic	
Odour threshold:	no data available	
pH (undiluted):	6.0 – 7.0	(20 °C)
Melting point/freezing point:	no data available	



Trade name: **AlproSol** Issue/Revision: 06.10.2021 Print date: 08.10.2021

Version: 2.2 Replaces version: 2.1

	Initial boiling point and boiling range:	no data available	2	
	Flash point:	32 °C		(EN ISO 2719:2002)
	Evaporation rate:	no data available	2	
	Flammability (solid, gas):	not applicable		
	Lower explosive limit:	Propan-2-ol:	2 vol%	
	Upper explosive limit:	Propan-2-ol:	13 vol%	
	Vapour pressure:	no data available	2	(°C)
	Vapour density:	no data available	e	
	Relative density:	1.060 - 1.080		(20 °C)
	Solubility in water:	completely solut	ple	
	Partition coefficient: n-octanol/water	not applicable		
	Auto-ignition temperature:	not applicable		
	Decomposition temperature:	no data available	2	
	Viscosity:	no data available	e	
	Explosive properties:	The product is no vapour/air mixtu		ever, formation of explosive
	Oxidising properties:	none		
9.2.	Other information			
	Refractive index nD:	1.3847 – 1.3920		(20 °C)
	Electrical conductivity (10 g/l H ₂ O):	38.0 – 41.0 μS/c	m	(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.



Trade name: AlproSol

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Version: 2.2 Replaces version: 2.1

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

Sulfonic acids, C14-17-sec-alkane, sodium salts (CAS No: 97489-15-1):

Acute toxicity - oral: LD₅₀: 500 – 2000 mg/kg; species: rat; method: OECD 401

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 skin irritation. [calculation method]

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.

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.



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Version: 2.2 Replaces version: 2.1

STOT-single exposure

Product

No classification. [calculation method]

Ingredients

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

Hydrogen chloride (CAS No: 7647-01-0):

May cause respiratory irritation.

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



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Version: 2.2 Replaces version: 2.1

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 1987

14.2. UN proper shipping name

ADR/RID/ADN

ALCOHOLS, N.O.S. (Isopropanol)

IMDG-Code/ICAO-TI/IATA-DGR

ALCOHOLS, N.O.S. (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



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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

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

Hazard category	Qualifying quantity (tonnes) (lower-tier establishment)	Qualifying quantity (tonnes) (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.



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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
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Met. Corr.	Substance or mixture corrosive to metals
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity (single exposure)

H-phrases (Hazard statements)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer <state cause="" conclusively="" exposure="" hazard="" if="" is="" it="" no="" of="" other="" proven="" route="" routes="" that="" the="">.</state>
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

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)
Accord européen relatif au transport international des marchandises dangereuses par route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
Berufsgenossenschaftliche Regeln (English: Employers' liability insurance association rules)
<u>B</u> ritish <u>S</u> tandards
<u>C</u> hemical <u>A</u> bstracts <u>S</u> ervice
Regulation on <u>Classification</u> , <u>Labelling</u> and <u>Packaging</u> of Substances and Mixtures
National German regulations
Deutsche Gesetzliche Unfallversicherung (English: German statutory accident insurance)
<u>E</u> uropean <u>C</u> ommunity
<u>E</u> uropean <u>E</u> conomic <u>C</u> ommunity
Emergency Schedules (Emergency response procedures for ships carrying dangerous goods)
European Standard
<u>E</u> uropean <u>U</u> nion
<u>E</u> uropean <u>W</u> aste <u>C</u> atalogue
Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
<u>G</u> emeinsames <u>M</u> inisterial <u>bl</u> att (English: Joint Ministerial Gazette)



Trade name: AlproSol

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IATA-DGR	International <u>Air Transport Association - Dangerous Goods Regulations</u>
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	Lagerklasse (English: Storage class)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
N.O.S.	Not otherwise specified
OECD	<u>Organization for Economic Co-operation and Development</u>
PBT	Persistent, <u>b</u> ioaccumulative and <u>t</u> oxic
ppm	<u>P</u> arts <u>p</u> er <u>m</u> illion
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	<u>R</u> èglement concernant le transport <u>International ferroviaire de marchandises</u> <u>D</u> angereuses
	(Regulations Concerning the International Carriage of Dangerous Goods by Rail)
TRGS	Technische Regeln für Gefahrstoffe (English: Technical Rules for Hazardous Substances)
UN	<u>U</u> nited <u>N</u> ations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
vPvB	Very persistent and very bioaccumulative

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); <u>http://echa.europa.eu/documents/10162/13643/sds_en.pdf</u>
- 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; <u>http://echa.europa.eu/information-on-chemicals/cl-inventory-database</u>
- 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); <u>http://webrigoletto.uba.de/rigoletto</u>

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.

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.



Trade name: TarClean Issue/Revision: 25.07.2016 Print date: 25.07.2016

Version: 1.1 Replaces version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier Trade name: TarClean 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses: **Cleaning agent** Intended purpose: Cleaning concentrate for the automatic elimination of acid soluble deposits on plastics and precious metals (prostheses, bridges, crowns etc.) in practices and laboratories. 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]

Classification	Classification procedure
Skin Corr. 1B; H314	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

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

Hazard pictograms:





Trade name: TarClean

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Signal word:		Danger
Hazard compo for labelling:	onents	Phosphoric acid, monomethyl ester (812-00-0); 1 - 5 % phosphoric acid (7664-38-2)
H-phrases:	H314	Causes severe skin burns and eye damage.
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

Chemical name	Identification numbers	Classification in accordance with Directive 67/548/EEC	Classification in accordance with Regulation (EC) No 1272/2008	Weight %
Phosphoric acid, monomethyl ester	CAS No: 812-00-0 EC No: 212-379-1	C; R34	Skin Corr. 1B; H314	≥ 5 - < 15
Phosphoric acid	CAS No: 7664-38-2 EC No: 231-633-2 Index No: 015-011-00-6 REACH Registration No: 01-2119485924-24-XXXX	C; R34	Skin Corr. 1B; H314: C ≥ 25 % (Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %)	≥1-<5
Butane-1,4-diol	CAS No: 110-63-4 EC No: 203-786-5 REACH Registration No: 01-2119471849-20-XXXX	Xn; R22 R67	Acute Tox. 4; H302 STOT SE 3; H336	≥1-<5
2-(2-Butoxyethoxy) ethanol	CAS No: 112-34-5 EC No: 203-961-6 Index No: 603-096-00-8 REACH Registration No: 01-2119475104-44-XXXX	Xi; R36	Eye Irrit. 2; H319	≥1-<5



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Fatty alcohol	CAS No: 68439-49-6	Xi; R36	Eye Irrit. 2; H319	≥1-<5
polyglycol ether	EC No: 500-212-8			

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 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.

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), phosphorus oxides (P_xO_y)
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. Special danger of slipping by leaked/spilled product. Evacuate danger area. Observe emergency plans. Consult experts.



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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 liquidbinding 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.

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



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

	Limit values					
Country	Long term (8 hours)		Short term (15 minutes)		Legal basis	Remarks
	ppm	mg/m³	ppm	mg/m ³	50313	
		.	1° 1°	51		
Phosphoric acid (CAS No: 7664-38-2)						
EU	-	1	-	2	2000/39/EC	-
UK	-	1	-	2	EH40	
2-(2-Butoxyethoxy) ethanol (CAS No: 112-34-5)						
EU	10	67.5	15	101.2	2006/15/EC	-
UK	10	67.5	15	101.2	EH40	

Used abbreviations, symbols, numerals and explanations in column "Remarks"

Biological limit values

Does not contain substances above concentration limits fixing a biological limit value.

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

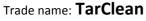
Appropriate engineering controls

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.



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Environmental exposure controls

Do not discharge into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

• • • • •		sinnen hichernen	
	Appearance:	clear, pink liquid	
	Odour:	of mint	
	Odour threshold:	no data available	
	pH (undiluted):	< 1	(20 °C)
	Melting point/freezing point:	no data available	
	Initial boiling point and boiling range:	no data available	
	Flash point:	not applicable	
	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:	1.040 - 1.050	(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:	1.3509-1.3589	(20 °C)
	Electrical conductivity (undiluted):	50-60 mS/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



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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 => 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

```
Butane-1,4-diol (CAS No: 110-63-4):
Acute toxicity - oral: LD<sub>50</sub>: 1500 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 data available.

Reproductive toxicity

Product

No data available.



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STOT-single exposure

Product

No classification. [calculation method]

Ingredients

Butane-1,4-diol (CAS No: 110-63-4): 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 data available.

12.2. Persistence and degradability

Biodegradability:

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

Phosphoric acid and derivatives of phosphoric acid as inorganic substances are not subject to biodegradation. At normal dilution they do not endanger the function of a biological wastewater treatment plant and they were eliminated for example in a phosphate precipitation stage.

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.



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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 1760

14.2. UN proper shipping name

ADR/RID/ADN

CORROSIVE LIQUID, N.O.S. (Phosphoric acid monomethylester, Phosphoric acid)

IMDG-Code/ICAO-TI/IATA-DGR

CORROSIVE LIQUID, N.O.S. (Phosphoric acid monomethylester, Phosphoric acid)

14.3. Transport hazard class(es)

Class:	8	
Subsidiary risk(s):	-	
14.4. Packing group		
Ш		
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



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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: EmS codes:	IMDG-Code- Segregation group 1 – acids 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

not applicable

15.2. Chemical safety assessment

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



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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.

Irritant; Xi; R36/38

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:		Irritant
Hazard components for labelling:		-
R-phrases:	R36/38	Irritating to eyes and skin.
S-phrases:	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S37/39	Wear suitable gloves and eye/face protection.

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

С	Corrosive
Xi	Irritant
Xn	Harmful

Hazard classes

Acute Tox.	Acute toxicity
Eye Irrit.	Eye irritation
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity (single exposure)

R-phrases (Indications concerning special risks)

• •	0 1 <i>1</i>
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R67	Vapours may cause drowsiness and dizziness.

H-phrases (Hazard statements)

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.



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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)
A	ADR	Accord européen relatif au transport international des marchandises dangereuses par route
		(European Agreement concerning the International Carriage of Dangerous Goods by Road)
	BGR	<u>Berufsgenossenschaftliche Regeln</u> (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>Classification</u> , <u>Labelling</u> and <u>Packaging</u> of Substances and Mixtures
	[DE]	National German regulations
	DGUV	Deutsche Gesetzliche Unfallversicherung (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	Emergency Schedules (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>Globally Harmonized System of Classification, Labelling and Packaging of Chemicals</u>
	GMBI	<u>G</u> emeinsames <u>M</u> inisterial <u>bl</u> att (English: Joint Ministerial Gazette)
	IATA-DGR	International <u>Air Transport Association - Dangerous G</u> oods <u>Regulations</u>
	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	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	<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>Registration, Evaluation, Authorisation and Restriction of Chemicals</u>
	RID	<u>R</u> èglement concernant le transport <u>International ferroviaire de marchandises Dangereuses</u>
		(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	United Nations
	UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
	vPvB	Very persistent and very bioaccumulative
16.5	.Key literatu	ire 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); <u>http://echa.europa.eu/documents/10162/13643/sds_en.pdf</u>
- GISBAU (Hazardous substances information system of the BG BAU) course "safety data sheet"; <u>http://www.bgbau.de/gisbau/SDB/lehrgang/lehrgang.htm</u>
- 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;
 <u>http://echa.europa.eu/information-on-chemicals/registered-substances</u>



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- 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;
 <u>http://www.dguv.de/dguv/ifa/index.jsp</u>
- 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); <u>http://webrigoletto.uba.de/rigoletto</u>

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.

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.