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

1.1. Product identifier

Trade name:	**WL-cid**
UFI:	RS68-RAA4-M00F-G2Y1

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

Relevant identified uses:	Disinfecting agent
Intended purpose:	Solution ready for use for the disinfection (internal and external surfaces) of medical and dental hollow part 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 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: info@alpro-medical.de Internet: www.alpro-medical.de
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 Germany:	+49 761 19240 Poisoning information centre, Freiburg, Germany (24 h / 7 d), English is spoken
National Poisons Information Service (UK):	+44 344 892 0111 National Poisons Information Service (NPIS) (24 h / 7 d), Medical Professionals Only

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*
Aerosol 2; H223+H229	On basis of test data (Ignition distance test)
Eye Irrit. 2; H319	Calculation method

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

2.2. Label elements

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

Hazard pictograms:

Signal word: Warning

Hazard components for labelling: -

H-phrases:	H223	Flammable aerosol.
	H229	Pressurised container: May burst if heated.
	H319	Causes serious eye irritation.
P-phrases:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P211	Do not spray on an open flame or other ignition source.
	P251	Do not pierce or burn, even after use.
	P280	Wear 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.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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 (see SECTION 12.5.).

The substances in the mixture have no endocrine disrupting properties according to Regulation (EC) No 1907/2006, Annex XIV (see SECTION 11 and SECTION 12.6.). They are not on the list of substances of very high concern for authorisation according to Regulation (EC) No 1907/2006, Article 59, paragraph 10).

No further hazards known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Chemical characterisation: Mixture of substances listed below with non-hazardous additions in aqueous solution and propellant.

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	≥ 50 - < 70
Carbon dioxide	CAS-No: 124-38-9 EC No: 204-696-9	Press. Gas L; H280	≥ 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	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	≥ 0,2 - < 1
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	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1B; H314	≥ 0,2 - < 1
Methanol	CAS-No: 67-56-1 EC No: 200-659-6 Index-No: 603-001-00-X REACH- Registration No: 01-2119433307-44-XXXX	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 STOT SE 1; H370 *Specific concentration limits:* *STOT SE 1; H370: C ≥ 10 %* *STOT SE 2; H371: 3 % ≤ C < 10 %*	≥ 0,2 - < 1
D-gluconic acid, compound with N,N''-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecane-diamidine (2:1)	CAS-No: 18472-51-0 EC No: 242-354-0 REACH- Registration No: 01-2119946568-22-XXXX	Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 *M-Factor acute: 10* *M-Factor chronic: 1*	< 0,2
N,N-Didecyl-N-methylpoly(oxy-ethyl)ammonium-propionat	CAS-No: 94667-33-1 EC No: 619-057-3 REACH- Registration No: 01-2119950327-36-XXXX	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 *M-Factor acute: 10* *M-Factor chronic: 1*	< 0,2
N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin	CAS-No: 2372-82-9 EC No: 219-145-8 REACH- Registration No: 01-2119980592-29-XXXX	Acute Tox. 3; H301 Skin Corr. 1B; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 *M-Factor acute: 10*	< 0,2
Formic acid	CAS-No: 64-18-6 EC No: 200-579-1 Index-No: 607-001-00-0 REACH- Registration No: 01-2119491174-37-XXXX	Flam. Liq. 3; H226 Acute Tox. 3; H331 Acute Tox. 4; H302 Skin Corr. 1A; H314 *Specific concentration limits:* *Skin Corr. 1A; H314: C ≥ 90 %* *Skin Corr. 1B; H314: 10 % ≤ C < 90 %* *Skin Irrit. 2; H315: 2 % ≤ C < 10 %* *Eye Irrit. 2; H319: 2 % ≤ C < 10 %*	< 0,1

Full text of hazard classes and H-phrases: see SECTION 16.1.
Occupational exposure limits: see SECTION 8.1.

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 serious eye irritation.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide (CO_2)
Unsuitable extinguishing media:	Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:	Carbon monoxide (CO), carbon dioxide (CO_2)

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 surface and ground water.

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 away from sources of ignition. Provide adequate ventilation. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Advice on general occupational hygiene

Do not eat, drink or smoke at work. Wash hands before breaks and at the end of work. Keep away from medicines, food, feed, cosmetics and stimulants.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:	The official regulations regarding the storage of pressurized containers have to be considered. Keep container in a cool, well-ventilated place.
Advice on common storage:	Not necessary
Further information on storage conditions:	Recommended storage temperature: 0 °C – 25 °C. Avoid transport temperatures above 50 °C.

7.3. Specific end use(s)

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

Industry and sector specific guidance

[DE] TRGS 525 – Hazardous substances in medical care facilities (Section 7 Activities with disinfectants); Issue: September 2014;
Source: GMBl 2014 page 1294-1307 of 13.10.2014 [No 63], 10.07.2015 [No. 27];
www.baua.de.

[DE] DGUV rules 207-206 – Prevention of chemical risks when handling disinfectants in health service, Issue: 2016.12;
www.dguv.de/publikationen

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Country	*Limit values*				*Legal basis*	*Remarks*
	Long term (8 hours)		*Short term (15 minutes)*			
	ppm	*mg/m³*	*ppm*	*mg/m³*		
Ethanol (CAS-No.: 64-17-5)						
EU						no limit value specified
UK	1000	1920			EH40	
Carbon dioxide (CAS No: 124-38-9)						
EU	5000	9000			2006/15/EG	
UK	5000	9150	15000	27400	EH40	
Propan-2-ol (CAS-No.: 67-63-0)						
EU						no limit value specified
UK	400	999	500	1250	EH40	
Methanol (CAS No: 67-56-1)						
EU	200	260			2006/15/EG	Skin
UK	200	266	250	333	EH40	Sk
Formic acid (CAS No: 64-18-6)						
EU	5	9			2006/15/EG	
UK	5	9.6			EH40	
Phosphoric acid (CAS No: 7664-38-2)						
EU		1		2	2006/15/EG	
UK		1		2	EH40	
N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamin (CAS-No.: 2372-82-9)						
EU						no limit value specified
UK						

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

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

Biological limit values

Country	*Parameter*	*Limit value*	*Test material*	*Sampling time*	*Legal basis*
Propan-2-ol (CAS No: 67-63-0)					
Germany	Acetone	25 mg/l	Whole blood	End of exposition, resp. end of shift	TRGS 903
	Acetone	25 mg/l	Urine	End of exposition, resp. end of shift	TRGS 903
Methanol (CAS No: 67-56-1)					
Germany	Methanol	15 mg/l	Urine	End of exposition, resp. end of shift; for long-term exposure: after several preceding shifts	TRGS 903

Information on monitoring procedures

BS EN 482:2021-04; Title: Workplace exposure - Procedures for the determination of the concentration of chemical agents;
British version of EN 482:2021

BS EN 689:2018; 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 689:2018

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)

CEN/TR 17055:2017; Title: Workplace exposure. Measurement of chemical agents complying with the requirements given in EN 482 and either one of EN 838, EN 1076, EN 13205, EN 13890 and EN 13936. Choice of procedures

ISO TR 14294:2011; Title: Workplace atmospheres. Measurement of dermal Exposure. Principles and methods

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 BS EN 166
Skin protection:	
Hand protection:	Protective gloves according to BS EN ISO 374-1 and BS EN 21420 Splash guard: Protective gloves: type C; permeation-resistant at least 10 minutes Permanent contact (> 480 min): Protective gloves: type A or B; code letters: A, S, N, G; permeation-resistant at least 30 minutes
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/physical state:	clear, colourless aerosol	
Odour:	alcoholic	
Odour threshold:	no data available	
Melting point/freezing point:	no data available	
Initial boiling point and boiling range:	no data available	
Flammability (solid, gas):	not applicable	
Lower explosive limit:	Ethanol:	3 vol%
Upper explosive limit:	Ethanol:	15 vol%
Flash point:	23 °C	

Auto-ignition temperature:	no data available	
pH (undiluted):	3.0 – 3.5	(20 °C)
Kinematic viscosity:	no data available	
Solubility in water:	completely soluble	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure:	no data available	
Density:	0.880 – 0.890 g/cm^3	(20 °C)
Relative vapour density:	no data available	
Particle characteristics:	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive substances/mixtures and products containing explosives:	The product is not explosive, but the formation of explosive vapour/air mixtures is possible.
Flammable gases:	not applicable
Aerosols:	not applicable
Oxidising gases:	not applicable
Gases under pressure:	not applicable
Flammable liquids:	not applicable
Flammable solids:	not applicable
Self-reactive substances and mixtures:	not applicable
Pyrophoric liquids:	not applicable
Pyrophoric solids:	not applicable
Self-heating substances and mixtures:	not applicable
Substances and mixtures, which emit flammable gases in contact with water:	not applicable
Oxidising liquids:	not applicable
Oxidising solids:	not applicable
Organic peroxides:	not applicable
Substances and mixtures corrosive to metals:	not applicable
Desensitised substances/mixtures and articles containing explosive:	not applicable

9.2.2. Other safety characteristics

Electrical conductivity (undiluted):	130-170 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

Can attack plastics and rubber (e.g. chlorobutyl), low attack on Ni coating.

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

Methanol (CAS No: 67-56-1):

Acute toxicity - oral:	LD_{50}: 5628 mg/kg; species: rat
Acute toxicity - oral:	LD_{Lo}: 143 mg/kg; species: human
Acute toxicity - inhalation:	LC_{50}: 128 mg/l; species: rat; 4 h
Acute toxicity - dermal:	LD_{50}: 15800 mg/kg; species: rabbit

Formic acid (CAS No: 64-18-6):

Acute toxicity - oral:	LD_{50}: 730 mg/kg; species: rat; method: OECD 401
Acute toxicity - inhalation:	LC_{50}: 7.85 mg/l; species: rat; 4 h; vapour; method: OECD 403

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

Acute toxicity - oral:	LD_{50}: 1157 mg/kg; species: rat; method: OECD 401

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

Acute toxicity - oral:	LD_{50}: 261 mg/kg; species: rat; method: OECD 401
Acute toxicity - dermal:	LD_{50}: > 600 mg/kg; species: rat; method: OECD 402

Phosphoric acid (CAS No: 7664-38-2):

Acute toxicity - oral:	LD_{50}: 300 - 2000 mg/kg; species: rat; method: OECD 423

Skin corrosion/irritation

Product

No classification. [calculation method]

Serious eye damage/irritation

Product

Causes serious eye irritation. [calculation method]

Respiratory or skin sensitisation

Product

No classification. [calculation method]

Germ cell mutagenicity

Product

No data available.

Carcinogenicity

Product

No data available.

Reproductive toxicity

Product

No data available.

STOT-single exposure

Product

No classification. [calculation method]

Ingredients

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

Methanol (CAS No: 67-56-1):
Causes damage to organs: optic nerve, central nervous system

STOT-repeated exposure

Product

No classification. [calculation method]

Ingredients

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (CAS No: 2372-82-9):
NOAEL: 9 mg/kg; Application Route: Oral; Exposure period: 90 d; species: rat
NOAEL: 20 mg/kg; Application Route: Food; Exposure period: 90 d; species: dog
NOAEL: 15 mg/kg; Application Route: Skin; Exposure period: 90 d; species: rat

Aspiration hazard

Product

No data available.

Information on other hazards

Endocrine disrupting properties:

No substances are contained that have endocrine disrupting properties for humans.

ABSCHNITT 12: Umweltbezogene Angaben

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. Endocrine disrupting properties

No substances are contained that have endocrine disrupting properties for non-target organisms.

12.7. 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 05 04* gases in pressure containers (including halons) 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 pressurized containers must be emptied optimally and can be recycled.

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 1950

14.2. UN proper shipping name

ADR/RID/ADN

AEROSOLS, flammable

IMDG-Code

AEROSOLS

ICAO-TI/IATA-DGR

Aerosols, flammable

14.3. Transport hazard class(es)

Class:	2.1
Subsidiary risk(s):	-

14.4. Packing group

-

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. Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

14.8. Further information

Transport category according to ADR section 1.1.3.6:	2
Maximum total quantity per transport unit according to ADR section 1.1.3.6:	333 L
Limited quantity (Maximum quantity per inner packaging) according to ADR/RID/ADN/IMDG-Code:	1 L
Classification code according to ADR/RID/ADN:	5F
Hazard identification number according to ADR/RID:	-
Tunnel restriction code according to ADR/RID:	D
Segregation group according to IMDG-Code section 5.4.1.5.11.1:	-
EmS codes:	F-D, S-U

SECTION 15: Regulatory information

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

EU-Regulations

EU-Regulations

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

not applicable

REGULATION (EC) No 2019/1021 on persistent organic pollutants

not applicable

REGULATION (EU) No 649/2012 concerning the export and import of hazardous chemicals

not applicable

REGULATION (EU) No 648/2004 on detergents

Phosphates: < 0.3 %
Disinfectant

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)*
P3b FLAMMABLE AEROSOLS	5.000 (net)	50.000 (net)

DIRECTIVE 2010/75/EU on industrial emissions (integrated pollution prevention and control)

VOC content: < 63 %

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
Aerosol	Aerosol
Aquatic Acute	Acute aquatic hazard
Aquatic Chronic	Long-term aquatic hazard
Eye Dam.	Serious eye damage

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Met. Corr.	Corrosive to metals
Press. Gas L	Gases under pressure (Liquefied gas)
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity (repeated exposure)
STOT SE	Specific target organ toxicity (single exposure)

H-phrases (Hazard statements)

H223	Flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H371	May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.2. Abbreviations and acronyms

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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
EN	European Standard
EU	European Union
EWC	European Waste Catalogue

GMBl	Gemeinsames Ministerialblatt (English: Joint Ministerial Gazette)
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	Technical Instructions For The Safe Transport of Dangerous Goods by Air
IMDG-Code	International Maritime Code for Dangerous Goods
LD_{50}	Median lethal dose
LD_{LO}	Lowest (known) lethal dose
LGK	Lagerklasse (English: Storage class)
NOAEL	No Observed Adverse Effect Level (dose at which no adverse effect is found)
OECD	Organization for Economic Co-operation and Development
PBT	Persistent, bioaccumulative and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
TRGS	Technische Regeln für Gefahrstoffe (English: Technical Rules for Hazardous Substances)
UN	United Nations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
VOC	Volatile Organic Compounds
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 4.0 (December 2022); https://echa.europa.eu/documents

- Regulation (EC) No 1272/2008 (CLP regulation)
- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008; Version 4.2 (03/2021); https://echa.europa.eu/documents
- European Chemicals Agency (ECHA), Registered substances; https://echa.europa.eu/information-on-chemicals/registered-substances
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory; https://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; https://www.dguv.de/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); https://webrigoletto.uba.de/rigoletto

16.4. Methods according to Article 9 of Regulation (EC) No 1272/2008 for the evaluation of information for classification purposes

Calculation method according to the criteria in Annex I 1272/2008.
Flash point according to EN ISO 2719:2002.
Material compatibility and corrosiveness in practical tests.

16.5. Training advice

Provide adequate information, instructions and training for users.

16.6. 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.

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

1.1. Product identifier

Trade name:	**WL-clean**
UFI:	G0WU-XJFV-M000-4CYC

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

Relevant identified uses:	Cleaning agent
Intended purpose:	Solution ready for use for the non protein fixing cleaning (internal and external surfaces) prior to disinfection/ sterilization of medical and dental hollow part instruments such as turbines, hand pieces and contra-angles, internally cooled instruments and endoscopes.
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: info@alpro-medical.de Internet: www.alpro-medical.de
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
National Poisons Information Service (UK):	+44 344 892 0111 National Poisons Information Service (NPIS) (24 h / 7 d), Medical Professionals Only

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*
Aerosol 3; H229	Aerosol contains ≤ 1 % flammable components and its heat of combustion is < 20 kJ/g

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

2.2. Label elements

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

Hazard pictograms:		-
Signal word:		Warning
Hazard components for labelling:		-
H-phrases:	H229	Pressurised container: May burst if heated.
P-phrases:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P251	Do not pierce or burn, even after use.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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 (see SECTION 12.5.)

The substances in the mixture have no endocrine disrupting properties according to Regulation (EC) No 1907/2006, Annex XIV (see SECTION 11 and SECTION 12.6.).

The substances in the mixture are below the declaration limit for substances on the list of substances of very high concern according to Regulation (EC) No 1907/2006, Article 59, paragraph 10)

No further hazards known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Chemical characterisation: Mixture of propylene glycol, parabens, biguanides and complexing agents in aqueous solution and propellant.

Hazardous ingredients

Chemical name	*Identification numbers*	*Classification in accordance with Regulation (EC) No 1272/2008*	*Weight %*
Carbon dioxide	CAS No: 124-38-9 EC No: 204-696-9	Press. Gas L; H280	≥ 1 - < 2.5

Full text of hazard classes and H-phrases: see SECTION 16.1.
Occupational exposure limits: see SECTION 8.1.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:	First aider: Pay attention to self-protection!
Following inhalation:	Supply fresh air. In case of complaints consult a physician.
Following skin contact:	No special measures necessary.
Following eye contact:	Flush eyes with flowing water for several minutes holding eyelids apart. Remove contact lenses, if present and easy to do.
Following ingestion:	Rinse mouth with water. Let drink water.

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

None known.

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)

5.3. Advice for firefighters

Special protective equipment:	Not necessary
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.

Special danger of slipping by leaked/spilled product.

For emergency responders

Use personal protective equipment. See SECTION 8.2.

6.2. Environmental precautions

Not necessary

6.3. Methods and material for containment and cleaning up

Containment

Not necessary

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).

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

Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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 medicines, food, feed, cosmetics and stimulants.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:	The official regulations regarding the storage of pressurized containers have to be considered. Keep container in a cool, well-ventilated place.
Advice on common storage:	Not necessary
Further information on storage conditions:	Recommended storage temperature: 0 °C – 25 °C. Do not store above 50 °C.

7.3. Specific end use(s)

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

Industry and sector specific guidance

[DE] TRGS 525 – Hazardous substances in medical care facilities (Section 7 Activities with disinfectants); Issue: September 2014;
Source: GMBl 2014 page 1294-1307 of 13.10.2014 [No 63]; 10.07.2015 [No 27]; www.baua.de

[DE] DGUV rules 207-206 – Prevention of chemical risks when handling disinfectants in health service, Issue: 2016.12;
Source: www.dguv.de/publikationen

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Country	*Limit values*				*Legal basis*	*Remarks*
	Long term (8 hours)		*Short term (15 minutes)*			
	ppm	*mg/m³*	*ppm*	*mg/m³*		
Carbon dioxide (CAS No: 124-38-9)						
EU	5000	9000	-	-	2006/15/EG	
UK	5000	9150	15000	27400	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 482:2021-04; Title: Workplace exposure - Procedures for the determination of the concentration of chemical agents;
British version of EN 482:2021

BS EN 689:2018; 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 689:2018

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)

CEN/TR 17055:2017; Title: Workplace exposure. Measurement of chemical agents complying with the requirements given in EN 482 and either one of EN 838, EN 1076, EN 13205, EN 13890 and EN 13936. Choice of procedures

ISO TR 14294:2011; Title: Workplace atmospheres. Measurement of dermal Exposure. Principles and methods

8.2. Exposure controls

Appropriate engineering controls

Technical and organisational protective measures

No special protective measures necessary.

Personal protective equipment

Eye/face protection:	Not necessary when used as intended.
Skin protection:	
Hand protection:	Not necessary when used as intended.
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

Not necessary

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance/physical state:	clear, colourless aerosol
Odour:	characteristic
Odour threshold:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	no data available
Flammability:	not applicable
Lower explosive limit:	not applicable
Upper explosive limit:	not applicable
Flash point:	not applicable

Auto-ignition temperature:	no data available	
pH (undiluted):	5.3 – 5.8	(20 °C)
Kinematic viscosity:	no data available	
Solubility in water:	completely soluble	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure:	no data available	(… °C)
Density:	0.993 – 1.008 g/cm^3	(20 °C)
Relative vapour density:	no data available	
Particle characteristics:	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive substances/mixtures and products containing explosives:	not applicable
Flammable gases:	not applicable
Aerosols:	not applicable
Oxidising gases:	not applicable
Gases under pressure:	not applicable
Flammable liquids:	not applicable
Flammable solids:	not applicable
Self-reactive substances and mixtures:	not applicable
Pyrophoric liquids:	not applicable
Pyrophoric solids:	not applicable
Self-heating substances and mixtures:	not applicable
Substances and mixtures, which emit flammable gases in contact with water:	not applicable
Oxidising liquids:	not applicable
Oxidising solids:	not applicable
Organic peroxides:	not applicable
Substances and mixtures corrosive to metals:	not applicable
Desensitised explosives:	not applicable

9.2.2. Other safety characteristics

Electrical conductivity (undiluted):	1600 – 1800 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

Keep away from heat.

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

Skin corrosion/irritation

Product

No classification. [calculation method]

Serious eye damage/irritation

Product

No classification. [calculation method]

Respiratory or skin sensitisation

Product

No classification. [calculation method]

Germ cell mutagenicity

Product

No data available.

Carcinogenicity

Product

No data available.

Reproductive toxicity

Product

No data available.

STOT-single exposure

Product

No classification. [calculation method]

STOT-repeated exposure

Product

No data available.

Aspiration hazard

Product

No data available.

Information on other hazards

Endocrine disrupting properties:

No substances are contained that have endocrine disrupting properties for humans.

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. Endocrine disrupting properties

No substances are contained that have endocrine disrupting properties for non-target organisms.

12.7. 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 non-hazardous waste in compliance with the Directive 2008/98/EC on waste as well as national and regional regulations. Do not mix with other waste materials.

Waste codes / waste designations according to EWC

Product residues: 16 05 05 gases in pressure containers other than those mentioned in 16 05 04

Disposal of the packaging

Waste codes / waste designations according to EWC

Contaminated packaging: 15 01 04 metallic packaging

Recommendation

Contaminated pressurized containers must be emptied optimally and can be recycled.

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 1950

14.2. UN proper shipping name

ADR/RID/ADN

AEROSOLS, asphyxiant

IMDG-Code

AEROSOLS

ICAO-TI/IATA-DGR

Aerosols, non-flammable

14.3. Transport hazard class(es)

Class:	2.2
Subsidiary risk(s):	-

14.4. Packing group

-

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. Maritime transport in bulk according to IMO instruments

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:	1 L
Classification code according to ADR/RID/ADN:	5A
Hazard identification number according to ADR/RID:	-
Tunnel restriction code according to ADR/RID:	E
Segregation group according to IMDG-Code section 5.4.1.5.11.1:	-
EmS codes:	F-D, S-U

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
not applicable

REGULATION (EC) No 2019/1021 on persistent organic pollutants

not applicable

REGULATION (EU) No 649/2012 concerning the export and import of hazardous chemicals

not applicable

REGULATION (EU) No 648/2004 on detergents

EDTA: < 5 %
Disinfectants

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)

VOC content: < 2 %

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

Aerosol	Aerosol
Press. Gas L	Gases under pressure (Liquefied gas)

H-phrases (Hazard statements)

H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.

16.2. Abbreviations and acronyms

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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
EN	European Standard
EU	European Union
EWC	European Waste Catalogue
GMBl	Gemeinsames Ministerialblatt (English: Joint Ministerial Gazette)
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations
ICAO-TI	Technical Instructions For The Safe Transport of Dangerous Goods by Air
IMDG-Code	International Maritime Code for Dangerous Goods
LGK	Lagerklasse (English: Storage class)
OECD	Organization for Economic Co-operation and Development
PBT	Persistent, bioaccumulative and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
TRGS	Technische Regeln für Gefahrstoffe (English: Technical Rules for Hazardous Substances)
UN	United Nations
UTC	Coordinated Universal Time (French: Temps Universel Coordonné)
VOC	Volatile Organic Compounds
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 4.0 (December 2022); https://echa.europa.eu/documents
- Regulation (EC) No 1272/2008 (CLP regulation)

- European Chemicals Agency (ECHA) – Guidance on Labelling and Packaging in accordance with Regulation (EC) No 1272/2008; Version 4.2 (03/2021); https://echa.europa.eu/documents
- European Chemicals Agency (ECHA), Registered substances; https://echa.europa.eu/information-on-chemicals/registered-substances
- European Chemicals Agency (ECHA), C&L Classification and Labelling Inventory; https://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; https://www.dguv.de/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); https://webrigoletto.uba.de/rigoletto

16.4. Methods according to Article 9 of Regulation (EC) No 1272/2008 for the evaluation of information for classification purposes

Calculation method according to the criteria in Annex I 1272/2008.
Flash point according to EN ISO 2719:2002.
pH value measurement.
Material compatibility and corrosiveness in practical tests

16.5. Training advice

Provide adequate information, instructions and training for users.

16.6. 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.
